

279

279

Dezella

Maps P95-6-13-19-

The paper in this book No. 360
is made of **100%** high grade rag stock
with a **WATER RESISTING** surface sizing.

Note:

This book No 279
belongs to John W. Curo
and Harold J. Curo
both of Walker Minn

If lost

Finder please notify
any of the Curo family
for reward

And please hurry
we may need the book
right now

Thank you

John W. Curo

Harold J. Curo

July 10 - 1946

DeZell - 1 to 60

CJ Hall - 60 - 71 Lot 7 sec 8-137-27

Smith - Gast - Mothersill

Lot 1 sec 7-137-27 Page 72-75

CJ Hall - 77 to

2

Index Old Notes

Sec 9-137-27 Page 5

Ties See

1/4 Bet 8-9-137-27 Bk 201 P 92

Stowe Survey Says

10" Br Oak N about 60° E 38.00 Scribed

7" " N 45° W 34.65 New

11" J.P. S about 70° E 56.20 Scribed

Ties 1/4 Bet 8-9-137-27

Book 249 Page 50 Waffensmith

Im 3 ft N of & EW Road and in line
with west wheel track of road with
same as above Sept 22-1940

1/4 Bet 8-9-137-27

Ties. See Page 55 Book 31

" 51 " 214

N to Bet 8-9-137-27

Book 201, Page 95 call for wood stake

JP 15" N 22° 30' W 53.80 } Find stumps
NP 12 S 72° 05' W 35.85

Find hole: Set Galv pipe 1x44 & N S Road

New BTS. W Oak 4. N 53° 18' E 31.82 2 ft

W Birch 5" S 38° 33' E 40.15 ft at base

RR spike 4 ft to RR spike 15 ft west Sept 27

Book 249 P 52 Waffensmith survey 1940

Corner T. 4-5-8-9-137-27

Slod Shoe for Corner Book 158-B

page 18 and 68 Ties

UP 10 N 30° W 51.80 Spike in spot at base

NR 12 S 39° W 49.25 ft Spot on side 4 ft up

Tree leans East

NP 11 N 57° 45' E 131.70 Flat spot at base

SW Cor Post of Fence N 88° 20' E 29.

Van made 6° 25' Turned from line

line west Oct 24. 1923

Nick Everhart survey Book 158-B

page 18 - John W C. Co. Oct 24. 1923

See Also Plinkard Barr survey

Jan 7-1924 Book 158-B Pg 55

also Pg 52 Book 14 (or 214)

" " 20 " 54

" " 19 " 258-B.

Ties To 1/4 Sec 8-9. Pats NE Cor
and Pats N Line See

pg. 53-54- Book 249

4

July 10-1946 Wednesday
at Walker Ct Ho

Up at 6-am. Harold & Gertrude
not up yet. I eat at restaurant
7-30 at the office.

Coal breeze - bright sun
Hot as hell yesterday

As we have arranged
with Pat De Zella to survey
his land. Contract \$250.00
to survey his 3.40 acres and
stake out government owned
land in same.

Sec 9-137-27

2) 273467

4) 1367335

341834

3464

1) 188562

3464.05

2634.3

1317.15

old notes

5

137-27

5323.06 cold ch

5 4

8 9 2661.53 180° 2661.53

channel

2635.7
channel

2698.10

1349.05 1349.05

2637.76 F9d

2639.83

1319.92

87.34

341.84

1367.33

1367.36 2734.67

Lot F9d F9d

39.91 A

346.40 2771.24

1385.62 1385.62

39.28 A

87.45

1403.7 1403.9

2807.8

89°09' F9d

90°51' F9d

89°35'

2643.3 F9d

1321.65

Ld 3

Doggett LK

Copied from estimated Copy
July 14 - 1930 in Allwoall
Survey Book 223 Pg 106

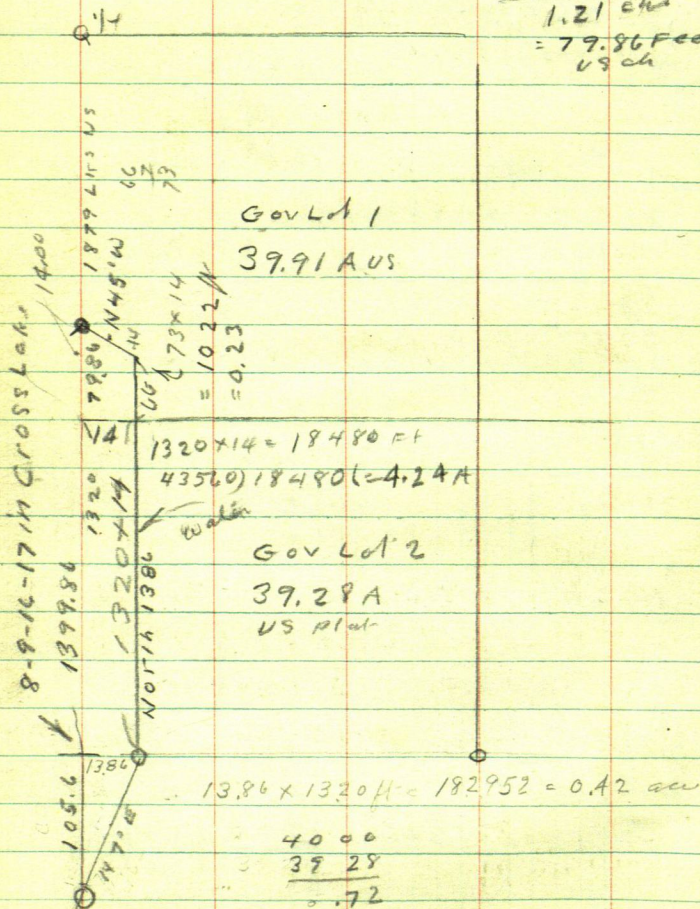
Pat De Zeller

Sec 9-137-27

Lots 1 and 2 and SE SW

Less U.S. land and Co road

20.00 Lms
18.79 "
1.21 ch
= 79.86 Feet
49 ch



July 11-1946 at Et Hø Walker 1950 7

Copy US Transcript Notes 137-27
m, Town Line Big Bush A. Pg 306-377

North Bet 16-17 Jan 9. $9\frac{3}{4}^{\circ}$ E Run on ice

4277 (= 2822.82 Feet) Set M. Post

N 300 on N Side Cross Lake Ties

@ 5044 = (3329.04 Feet) Dagget Brook

runs West 137 Lks = (90.42 Ft wide

@ 7840 = (5174.40 Ft) M.C.

Marked white art. 6" diam for M. Cor
on Cross Lake Run on ice

Y P 6 N 50° E 20 Lks =

Y P 12 S 7 W 28 " =

8000. Pt for Corner 8-9-16-17 in Lake

East Randon bet 9 and 16 Jan $9\frac{1}{4}^{\circ}$

21 (= 13.86 ft temp M.C.

4000 Temp $\frac{1}{4}$ bet 9-16-137-27

61.75 Lks = 4075.50 Ft Set M. Post

on West bank of Dagget Lake

8082 (= 5334.12 intersect N-S-Line

Pt for Cor 9-10-15-16-137-27 m.c.

West On line lin bet 9-16 $9\frac{1}{4}$

2707 = (1786.62 ft) Set M.C. on W Side

Dagget Lake Ties

8

US Field Notes continued

Sec 19-16-137-27

Weston line Line continued4041 (2667.06 ft) Set $\frac{1}{4}$ bet 9-16Yellow Pine $20^{\circ} N 4^{\circ} E 42 LKs =$ " " $17 S 13^{\circ} E 76 =$

8061 = 5320.26 ft Set M. Port on

East Side of Cross Lake

YP 7 North 9 LKs

(Elev 7° South 10.8082 = (5334.12) Cor To 8-9-16-17North Bet 8-9 U $9\frac{1}{4} E$

Running on ice

2121 (= 1399.86 ft) (1400 ft)

Set ME on N Side Cross Lake

YP 9 S $38^{\circ} E 52 =$

No other line convenient

40.00 = $\frac{1}{4}$ Cor Bet 8-9.YP 15 S $87^{\circ} E 68 = 44.88$ " 15 S $14^{\circ} W 51 = 33.66$ 8000 Set Port Cor 4-5-8-9-137-27YP 14 N $67^{\circ} E 139 = 91.74$ " 24 S $54^{\circ} E 284 = 187.44$ " 18 S $48^{\circ} W 132 = 87.12$ " 10 N $37^{\circ} W 170 = 112.20$

US Notes 137-27 cont'd 9

East random bet 4-9-0 9°E

1080 = () Pond SE + NW Narrow

3600 = () Lv Pond East Tam Swamp SE NW

4000 Temp 1/4

5000 (=) Lv Swamp SE + NW

8072 (=) intersect N-S Line

32 Lks = () 80 of Cor To 3-4-9-10

West on line line bet Sec 4 & 9 V 9° 14'E

4036 (=) Set 1/4 from which

f Tam LN to W 16

WP in 18 S 19 E 67

8072 (=) Cor To 4-5-8-9-137-27

North bet 15-16-137-27 10°E

4000 Set 1/4 Cor

YP 12 N 75 E 12 =

Yellow Pin 20 N 60 E 11

6238 = () Set MP So Side Dagget Lk

YP 20 N 75 E 23

WP 36 S 50 W 21

8000 Pt for Cor 9-10-15-16 on ice Dagget Lk

North Bet 9-10 on 10 1/4° E Run on ice

1081 (=) Lv Lake Set MP bet N 13th

Aspen 8 N 32 E 63 =

YP 20 N 50 W 63

4000 Set $\frac{1}{4}$ Cor bet 9-10-137-27Hard Pine 5 S 85° W 14Hard Pine 4 N 85° E 40 =8000 Cor To 3-4-9-10-137-27YP 20 N 45° E 36WP 24 N 68° W 138YP 20 S 10° E 55YP 20 S 32° W 11310-11-14-15-137-27YP 6 N $3\frac{1}{2}^{\circ}$ E 914 =YP 8 N $4\frac{1}{2}^{\circ}$ W 949 =WP 16 S $31\frac{1}{2}^{\circ}$ E 248 =" 12 S 38° W 334East random bet 10-15 \vee 10° E

1506 () LV Lake Temp MC

4000 Temp $\frac{1}{4}$ L

7970 () int N-S-Line 35 S 9 on

West Trueline bet 10-15 \vee $10\frac{1}{4}$ 3985 () Set $\frac{1}{4}$ Bet 10-15YP 20 S 70° W 54 =" 20 N 14° W 1106464 () MCE Side LK YP 16 S 42° E 407970 () Cor To Wash 7 N 11° E 20

9-10-15-16 on 20

July 11-1946

Meanders 137-27

11

In Sec 16, N 7° E 164 (= 108.24) To MC
on line bet 9-16 being 212 Lks ()
E of Cor to 8-9-16-17.

Thence in Sec 9.

North 2100 Lks (= 1399.86) 1386

then N 45° W 30 Lks (

To M. Port bet 8-9- being

2121 (= 1399.86 Ft) North from
Cor To 8-9-16-17

Thence in Sec 8

N 30° W 219 (= 144.54 Feet

North 705 (= 465.30 Feet

N 77° W 620 (= 409.20 "

S 11° W 32.35 (= 2135.10 "

To MC bet Sec 8-17 on West
side of Cross Lake

12

July 10-1946

Harold and I all day
in Walker on maps

8) 1389.9 (1733

1319.4

8
58
56
29
27
29

John W. Cur

July 11-1946

Harold and his car L
about 9 AM for Duff Kimball
res to work on Ed Hicks plot

I stay all day in the Et Ho
copy was notes in this book

John W. Cur

July 12-1946 Friday

Up @ 6 AM Cold - bright sun
pancakes at Daves Restaurant

25° too much soda

Work at Et Ho

Figuring $w\frac{1}{2}$ of $w\frac{1}{2}$ of $w\frac{1}{2}$ Lot 2

$$173.74 + 171.45 = 345.19 \div 2 = 172.60$$

172.60 average width of $w\frac{1}{2}$ of $w\frac{1}{2}$ of $w\frac{1}{2}$

$$172.60 \times 1320 = 227.832 \text{ ft} \div 43.560$$

= 0.52 of an acre

$$1403.9 \div 8 = 175.4875$$

$$1390.0 \div 8 = 173.7500$$

$$- 1389.9 \div 8 = 173.7375$$

1385.62

14

14039

14

8 1389.9

$$1371.62 \div 8 = 171.4525$$

1385.62

1371.62

171.45 171.45 342.90 685.81

1371.62 W

0.52 Mich

1200.17 W

1028.72

1042.43 W

Lot 2

1319.10

East half

90 1/2

East Half

173.74 173.74

347.48

694.95

1389.9

1403.9

92.44 91.84019

1308.02

SEC 14

Lake

173.74

173.74

92.44

115

1/16

14 Pat De Zella ^{p953}
July 13-1946 see ^{BOOK 249} for ties

Pat and I reset spike 545.05' Pat's
NE cor from Ties. chain 545.05' and
find $\frac{1}{4}$ I.M. in road. Tower $\frac{1}{4}$ Cor.
Silt Non flag. @ 545.05' Tim Right
87°34' and run N 87°34' E on E+U
E sec 9. - 300-600 pin 836.65 - 602 spike
hub. Tower 836.65

Ties R.O. 6 S 38°08' E 23.7
W.B. 7 S 44°15' W 28.22

course taken from West line sec 9

Continue E+U E 836.65 + 150 =
986.65 pin + 100 = 1086.65 pin
+ 300 = 1386.65 pin - 19.32 = 1367.33
spike Temp. $\frac{1}{4}$ cor. @ 1637.88
spike hub.

Tower Temp $\frac{1}{4}$ cor. center of West
Half sec 9-137.27

Ties J.P. 10 S 52°24' W 61.65
J.P. 6 N 19° W 29.25

Course taken from West line sec 9.
Tower Temp $\frac{1}{4}$ site E on 00
turn R 91°38½' and run S on
W $\frac{1}{4}$ line @ 270.55' spike hub
quit for night

Harold. Curo

July 15-1946 Monday

I worked all night nearly
on Ed Hicks Plot 9

Cross Lake Shorend Daggett
Brook -

Get home at 3-30 AM

Tell Bertine to wake me in
two hours to go to Brainerd
to meet Harold Curo who
is riding down from
Cross Lake to meet Ed
Hicks. & County Board

See Field Book 278

PM Harold and I at Ct. Ho
Brainerd

Copy DEZEN Overflow

SEC 9-137-27

Lot 1: $W\frac{1}{2}$ of $SW\frac{1}{4}$ = 4.91 Ac

Lot 2: $W\frac{1}{2}$ of $W\frac{1}{2}$ of $W\frac{1}{4}$ = 5.00

Owned by the government

Earl Gentling goes carefully
thru the records again and
says "That's all"

John W Curo

16

July 15 - 1946 cont'd

I buy field book & pen 90°

Dinner at Bus Depot 75 - 75

Harsel and I in my car

Duff and Mrs Kimball with

their car and Trailer go to NP

Shops. Buy 100 + more 2" boiler

tube 2" pipe mostly 20" long

\$385

Loft Walker Stop at Round LA

Call on Mrs Wm Nash

July 16-1946 Tuesday

At St Ho Walker

Co Auditor Office brot a messag
viz. Mr Harry Wells

1500 Jackson

Saint Paul Minn

Business address is 376 Main St

Tel N2 Cedar 7911 Call Collect

He bot Lots 5x7 Sec 35-139-26

Crooked Lake Twp Prot

State deed 6/27/46

I put in a call 10 AM for

Cedar 7911. (Not collect of course)

Mr Wells answered phone at 10.45
am. I am to meet him Sat

morning July 20-1946

At Wm Bly res on Lawrence
Lake His neighbor on Lot 4

Sec 35 has slipped off his
liner and is "pushing" Mr Wells
over onto State lands

Look up Lot 4-5-6-7

Lot 4 owned by Wm D and Pearl

Stiles. Look up Look up Geo H Stauff MA

18

July 16-1946 continued
Bob Dahms says Peet Jonopoulos
at Rainbow Inn wants me

Peet says: I am wanted
by his friend

Peter Colis Island
Lake Next to Ponto

Bring surveyors

"Colis is retired" plenty of money

Offered his neighbor five
hundred dollars + so on

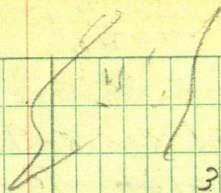
I must go there to-day or
To-morrow sure

Harold and I to Jenkins
Supper till 10

Sleep in Mary hill cabin
\$1.50 for two

Carl Ryan wants preliminary
Survey See 33-137-28 E 1/2 SW 1/4
C

132
 1390
 7
 1.60



346.40.
 187.74
 158.66

3

US

97.94

1/4

1/4

344.12

346.40

187.74

158.66

20

Pat Dazella

Sec. 9-137-27

Sat. 27 1946

Lu Trailer house @ 8 o'clock drive
to $\frac{1}{4}$ bet Sec 8-9. where I pick
up Marilyn Raph who has
cut out the lines I laped out for Pat
on July 13. Beg @ spike 543.05' N
of $\frac{1}{4}$ between 8-9-137-27 we rough
chain N 77.2.85. where we locate
N $\frac{1}{16}$ cor from ties

W.O. 4 N 53° 18' E 31.82

W Birch 5 S 38° 33' E 40.15

we find the 1X44" Gal. pipe bent N about
1 ft dig down half way pull up I m
straighten up and replace it but
drive it 2 inches below road it sets
in the center of the road. We set
flag and drive South to $\frac{1}{4}$ Cor.

Over $\frac{1}{4}$ cor. site N on N $\frac{1}{16}$ and
run South between 8-9- @

hit center of light pole set spike
on true line 2" N of L.P. + 24.2 S of $\frac{1}{4}$
drive to N $\frac{1}{16}$ offset .60 W set spike + flag.
back to $\frac{1}{4}$. set spike .60 W Over
offset spike B.S. on offset flag. @ N $\frac{1}{16}$
and run South @ 25.4 spike

July 27-1946

21

@ 245.55 spike hut on .6 offset west
of true line @ 465.5 on N shoulder
of tar road on .6 offset west of true
line @ 549.6 spike on S side of tar
road on .6 offset west of true line
@ 600.9 - 604 spike on point of high
land bet road ditch and cut bank
of lake shore, @ 953.8 spike on side
of cut bank @ about 105-8. Enter Cross
lake do not know where the line hits
water.

We drive to $\frac{1}{4}$ cor center of W
 $\frac{1}{2}$ sec 9 walk South on cut out
line T over spike hut 270.6 chain
S @ 300 pin @ 600 pin the cut out
line bears too far E so have to cut
new line @ 818.9 spike hut.

good for night

dinner @ Rats 50¢ paid

supper with Duff.

Try to call JWC at Walker can
not get him so drive to Walker.

8 $\frac{1}{2}$ hr.

22

Dinner to Walker and
10 PM.

July 28-1946 Sunday
Harold Curo and JWC
Check Lot Corner on Plat
Belford Add To Shingabe
Island.

July 29-1946 Monday

23

From the $\frac{1}{16}$ at NE Corner of
Gov Lot 2-Sec 9-137-27 chain
West 1042.43 To point 92.44
East of IM See Page 13.

On the North end of Lot 2,
Chain West 685.81 + 342.90 =
1028.71 + 171.45 = 1200.16

Note: This for Lot 2. Only.

Lot 1 different measurement
at Office of Ho Walker
figuring
L. V. Walker 11 AM Dinner at
Pine River

1.30 PM at Deer Lake
pick up Marilyn Paph Paph.
818.9 So continue
Do on West $\frac{1}{16}$ line Sec 9-137-27
1118.9 pin 1227.7 Hub 60 ft
1319.4 Hub Temp. $\frac{1}{16}$ in Center
of Sal $\frac{1}{4}$ Sec 9.
4 $\frac{1}{2}$ hrs for Marilyn & Harold Curo

24 July 30-1946

Cut brush along Eot
at Trailer Ho

2-pm pick up Marilyn Raph
S on W 1/16 Sec 9-137-27

$$1319.4 + 300 = 1619.4 \text{ pin}$$

$$\begin{array}{r} 28.25 \\ 1647.65 \end{array} \text{ Hat}$$

$$1619.4 + 300 = 1919.4 \text{ pin} + 300$$

$$2219.4 \text{ pin} + 33.8 = 2253.2 \text{ Hat 60\text{e}}$$

(@ 2295 from road Eot)

$$2219.4 + 300 = 2519.4 \text{ pin} + 116.9 =$$

$$2636.3 \text{ Hat 1.6 West of } \frac{1}{16} \text{ Corn}$$

But Sec 9-16-137-27

Correction

$$2636.3) 1.6 (= 000607 = 0^{\circ}02' \text{ West})$$

$$\text{Hat } 270.6 \text{ to gas E } 0.16$$

$$818.9 \text{ " " " } 0.50$$

$$1227.7 \text{ " " E } 0.75$$

$$1319.4 \text{ " E } 0.80$$

$$1647.655 \text{ " E } 1.00 \checkmark$$

$$\text{Hat } 2253.2 \text{ S. " E } 1.37 \checkmark$$

Jack Curo comes
from Brainerd 4 pm

$9\frac{1}{3}$
 30
 2635.3
 2638.8
 $88'30''$
 180

TRUCK LINE

26

Sec 9-137-27

July 31

~~Aug 1~~ 1946 PM

To Set the SE Cor of
W $\frac{1}{2}$ of W $\frac{1}{2}$ of W $\frac{1}{2}$ Lot 2.

to one IM Wid-MC

Chain East 91.84 and set

2x30" pipe

W of & Tar

Road See Page 13 This

Book N $^{\circ}$ 279.

Drive North

Heller to one Hub ^{549.6} 600.9 S.

from $\frac{1}{4}$ Cor bet Secs 8-9

137-27

Page 21-

Note off 0.60 E to true

Line

B S N by on line Lm
Transit telescope

Turn $20^{\circ}43' L$ and run

$$300 + 164.3 = 464.3$$

Hub on East edge

2 ft E of Tar

called

S $20^{\circ}43' E$ 464.3

Sec 9-137-27

27

π over 464.3 BS N $20^{\circ}43'W$

Run S $0^{\circ}47'E$ 300 + 110.2 =

+ 10.2 Hat 211 W of Tm

600 Run 900 pin 1200 pin

1500 + 142.4 = 1642.4

π over 1642.4

BS N $0^{\circ}47'W$

SW Cor Sec 9 (in Lake)

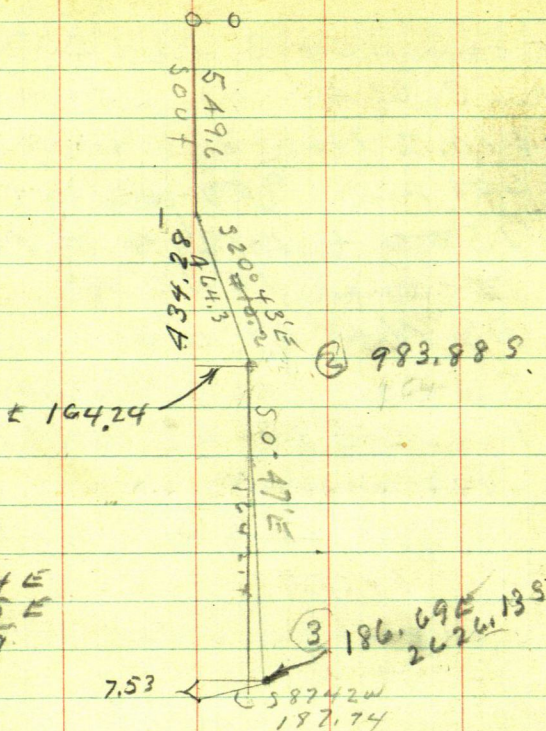
Leave S $87^{\circ}42'W$ 187.74

17374 + 14 =

$\frac{14}{187.74}$

41 and 63 E & Tm

28 Dec 9-137-27



164.24 E
22.45 E
186.69

2626.13
75.3
2633.66

2634.30 old Cold ch
2637 66
1.64

2) 2633.66
1316.83
983.88
332.95

2(1316.83)
658415

Dec 9-137-27

29

S 20° 43' E 464.3

Sine 353747 X 464.3 = 164.24 E

Cor 935341 X 464.3 = 434.28 S

Tang 379201 X 434.28 = 164.25

549.60

434.28

983.88

S 0° 47' E 1642.4

Sine 013671 X 1642.4 = 22.46 E

Cor 999907 X 1642.4 = 1642.25 S

Tan 013673 X 1642.24 = 22.45 E

S 87° 42' W 187.74

7.53 S

Cor 040132 X 187.74

7.53 S

Cor 999194 X 187.74 = 187.59 W

T 040104 X 187

30

Sec 9-137-27

July 31-1946 Wed

K one sta 2 FS S 0° 47' Rn

Sout- 332.95 To 1316.83 South

100 front 164.24 East of line

N S- Sec Line bet 8-9-137-27

K one

Marilyn driver @ 7-30

K one SEC or HS ship

East 41- enter Tan 63 Lr far

From pt 7.53 So of Heeler ch

North parallel to sec line

bet Sec 8-9-137-27

1'25 1.54

4' 1.54

2024

Cor 99911X 2.29000 12.30

1 99 822

291780

27.9733

99911

23

2 92733

19 9822

22 90953

3000

242.8

57.2

Aug 1-1946

Cloudy Harold and Jack
Breakfast with Buff

2°24

7041912 X 187.74 =

658.42
1316 83
1975 25

171.45
14.
185 45

1977.1
185 45
2.29

sec line in water north assumed
87°29
658.42
1975.25

87°32

87°32

596.5 Hill
87°36

2.29

7.88

1316.83

87°43

True

187.74 7.53

Aug. 1-1946

Breakfast with Duff

Merlyn Raph arrives @ 7.30

Travel IM SE cor of Gov
strip in lot 2. Sec 9-137-27

run North parallel to W line Sec

9. set spike 1316.83 N

and 187.74 E of cor to sec

8-9-16-17 - 137-27

which is in the lake

Travel spike 1316.83 N & 187.74

E we chain N 7.88 N to get

on S $\frac{1}{4}$ Line between Gov't

Lots 1-2. Sec 9-137-27

Travel 7.88 run S $87^{\circ}36'W$

2.29 ft and drive $\frac{1}{2}$ " bolt

1" round head in Tar road

about 2 ft E of E Tar road

NE cor U.S. Gov't strip @

set stake point for IM wit

cor between Gov. lots 1-2- Sec 9

137-27

T still @ 7.88 run N $87^{\circ}36'W$

@ 158.66 E which is 346.42

ft E of S.W cor Gov't Lot 1

and is the S.E cor of U.S.

Harold Curo

Sec 9-137-27

33

Aug 1-1946

strip in Gov't Lot 1 sec 9
137-27

dinner with Duff.

P.M.

J.W.C. & I check over Hicks
plat. Merlyn cut line E
on S $\frac{1}{4}$ line Sec 9-137-27
J.W.C. goes to Walker I get
stakes at saw mill a nother
old ~~split~~ as Merlyn has
busted the one he was using
we continue cutting line
E to E $\frac{1}{4}$ line

quit @ 5-30

Merlyn gets in 9 hrs.
supper with Duff.

after supper I drive to $\frac{1}{4}$
cor center S W $\frac{1}{4}$ where I set
60 ft spike for True $\frac{1}{4}$ cor.

Walk West on $\frac{1}{4}$ line to
first Hark. set T over said hub
B.S. on flag @ Tan road. Transit
telescope and split stake a $\frac{1}{4}$
cor so this is the True S $\frac{1}{4}$
line Sec 9-137-27

HJC

34

Aug 2, 1946

346,40.

341 84

4.56

1316. 83 Tending

1817.13-22/23

7-587

221

87.24

Δ
8
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Today Aug 3-1866

Aug 3

LA

131797

181910

344 11

97

65-87

✓ C

9

27.36

346.4

1300.04

1	7	9	3
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21131797

1. 58. 98

7000x

65870

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12

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57553

70004

344) 4356

344

916

8

1317.40

33

12844

North 451 Hk goes w

700.04

w

2.42

x

978.80

"

3.39

1284.40

"

4.44

1317.40

"

4.56 = 7/16

00346W

Correction = 00346W

658.7 N goes w 2.28

125.0

"

2.71 = NE COR of

7837

125ft ship

343

658.7

5496

109.1

343

73

270

27)

4356

27

165-

162

36

161

160

138

35

24400

242

241.58

$$\begin{array}{r}
 102550 \\
 343.12 \\
 \underline{241.6} \\
 10152
 \end{array}$$

$$\begin{array}{r}
 10152 \\
 \underline{241.6} \\
 97392
 \end{array}$$

$$\begin{array}{r}
 4356 \\
 \underline{4311} \\
 45 \\
 9244 \\
 \underline{7184} \\
 60
 \end{array}$$

$$\begin{array}{r}
 \cancel{343} \\
 1257 \\
 \underline{343} \\
 3771 \\
 5028 \\
 \underline{3771} \\
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 \end{array}$$

Notes Sunday Aug

From Speks in Tax 2'57. @ C. Road
Ch. West 57.4 to IM on bridge of Am. Lake

$$\begin{array}{r}
 69 \\
 \underline{75} \\
 345 \\
 \underline{483} \\
 51.75 \\
 \underline{7} \\
 58.75 \\
 250.00 \\
 \underline{59.50} \\
 190.50
 \end{array}$$

$$\begin{array}{r}
 69 \\
 \underline{75} \\
 345 \\
 \underline{483} \\
 51.75 \\
 \underline{7} \\
 58.75 \\
 75 \text{ Dinner} \\
 \underline{59.50}
 \end{array}$$

Aug 4-1946 Sunday

Pat De Zell pays Herald and

I

38

Aug 2 1946

Breakfast with Duff.

Merlyn starts @ 7.30 continue

E on S $\frac{1}{4}$ Line sec 9-137-27

beg. at our spike Temp SE cor Hoyt

Lot 1. (346.4 ?) E of cor. in Lake

We chine E @ 568.05 spike hub

@ 646.4 stake @ 946.4 stake + 166.48 =

1112.88 spike Hub @ 1246.4 stake +

139.9 = 1386.3 spike Hub True $\frac{1}{4}$ cor

center S W $\frac{1}{4}$ Section 9-137.27

~~Not~~ (Note) This is .70 Too Long -
Continue Line E

Dinner With Duff.

P.M.

I check chain West and get the
same so spike 346.4 is not OK but
has to go E. I will see Later.

beg. @ True $\frac{1}{4}$ Cor Center S W $\frac{1}{4}$

sec. 9-137-27 chain E @ 300 stake

@ 600 stake @ 690.9 spike hub

@ 900 stake @ 1200 " " +

@ 1385.62 spike for True $\frac{1}{4}$ Cor

center S $\frac{1}{2}$ Sec 9-137-27

quit for night

Supper With Duff

H.J.C.

Aug 3 1946

39

JWC came from Walker Last night
Pat says Finish the work and he has
the cash to pay us.

JWC-Merlyn & I -

Over our old spike 346.4 E which
is only 135.7 E we chain E
50 and set spike hub for True
SE cor Gov't Strip Lot 1

Over True SE cor Gov't Lot 1
Sec 9-137-27

Run N parallel to W side Sec 9.

@ 451 spike hub.

Over 451 N @ 550.65 N 60° spike
about 4 ft S of house on line

Merlyn goes on roof I drive a 60°
spike in 2x4x20" hand it to Merlyn
who slides it on roof until spike
is on line. T still @ 451 N Turn

L 5° to miss house on the west end

@ 125 spike hub. Over 125 Turn

R 10° and run @ 125 spike back on
our line. Over hub 125 on our line

BS on spike on roof and continue
our line N to road on E & W Sec

9-137-27

40

Aug 3 1946

50

Sine $087156 \times 125 = 10.8945$ Cosine $996195 \times 125 = 124.524375$ $451 + 124.52 = 575.52 + 124.52 =$ 700.04 N spike on our line + 300 $1000.04 - 21.25 = 978.80$ spike hub

A Dinner @ Pats

@ 1284.40 spike hub @ 1300 pm +

 $17.40 = 1317.4$ spike hub.We chain W to $\frac{1}{4}$ I.M. as a check

and find it 346.4 which is O.K.

but as The Govt has the $W\frac{1}{2}$ of $SW\frac{1}{4}$ of Govt Lot 1 & Govt Lot is narrower

on N end we have to correct this

line and as this line is only 1316.8

we have to move spike 1317.4 N South

.56 and W 4.56 to True point for I.M.

as Pat wants to keep the strip N of

the Govt strip

Correcting This Line

Hub 451 N goes W

" 700.04 N " " 242 L

" 978.80 N " " 339 L

" 1284.40 which is 33 ft S of E & W & on

S side of R of W of road goes W 4.44 X

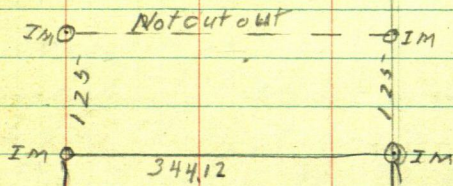
Correction 500346

42

IM $\frac{1}{4}$ cor

341.86

IM
33rd IM



U.S. STRIP

60-8.7

117th S. J. Cor Road

117th S. J. Cor Road

IM

346.4

187.74

US Strip

Realty
Company
Hwy. 214

55.4

IM

Pat DeZella 2nd Summ
August 26-1946 D

45

Copy Old Notes
See

Baldridge Summ Bk 223
Waffensmith 249
Bill Stowe

31-33-201-214

Aune Burr 212-223-418

Jim Chandler
Cross Lake 64

46 Pat DeZella² 2nd Survey

137-27

Aug 26-1946

92'17"

8

48

4.
Aug 26-1946Pat De Zella 2nd Survey

Note:

When Pat De Zella paid me

 $\$250 \text{ minus } \$59.50 = \$190.50$ in fullfor his first survey P₇₄₃ This Book

I promised to run E-W & Sec 8

137-27 as far West as Cross Lake

free of charge

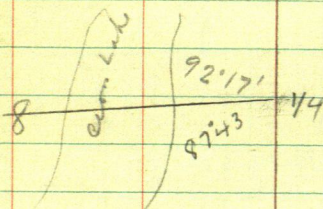
Going thro old Field Books P₇₄₅

I find that his line should run

as follows

Sec 8-137-27

9



50

133.03 -

99917) 33.0000.

299751

302490.

299751

1273900

51

89 60

87 50

2 10

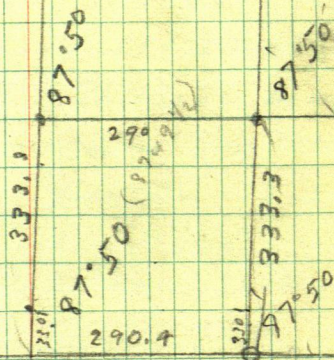
Pot De Zella

2 Acres + 2 Road Roadway

2°10'

Sine 0378

en 99917



March 19-1947

Harald and his Coe with I and Coyne
 McLaughlin & Jenkins Trailer
 No 9-15 To Coon Lake Flag @ N $\frac{1}{4}$ 16
 bet Secs 8-9-137-27

Warren-Knight T 300' steel top

Reg @ Im 5-6-7-8-137-27 ch

South bit 7-8 @ 2643.78 broom
 handle on ice - 44 Co bet 7-8 8-9

3965.67 - 1x3-x4 flag on ice S $\frac{1}{4}$ Back @ N $\frac{1}{4}$ bet 7-8 - set flagWent T over $\frac{1}{4}$ bet 8-9 turn SW angle

87°43' and Run S 87°43' W

Using E line of 8 as meridian

@ 20'

C road

243.15 Hub 60 on top 300 pin on
 steep side hill 312. Bind

320 feet 330 ent ice 600 pin on ice

800 Lr ice 838.7 Hub 60.9 spike

4 ft E of 4 - Ten rock

Reg @ 46.5 = 895.2 in green

12" J.P. Stump (we cut the tree)

900 +- enter ice 1138.7 Pin on ice

1313.7 Pin

1426.3 H

+ 95.7 = 1330.6 Hub 60.9 spike on W side

54

π over 1426.3 Double Center 2-
60 d spikes $\frac{1}{2}$ " spread

@ - - - - - Hot

π still at 1426.3 Angle pt
Trees on line over
Meridian

Random now Called E & W
for figures

Turn 2°00' L and run

S 88°W 725.3 Hub on Ice
Angle point @ 125.3 W. top of
Bank enter Big Lake

π @ 725.3 Turn L & run

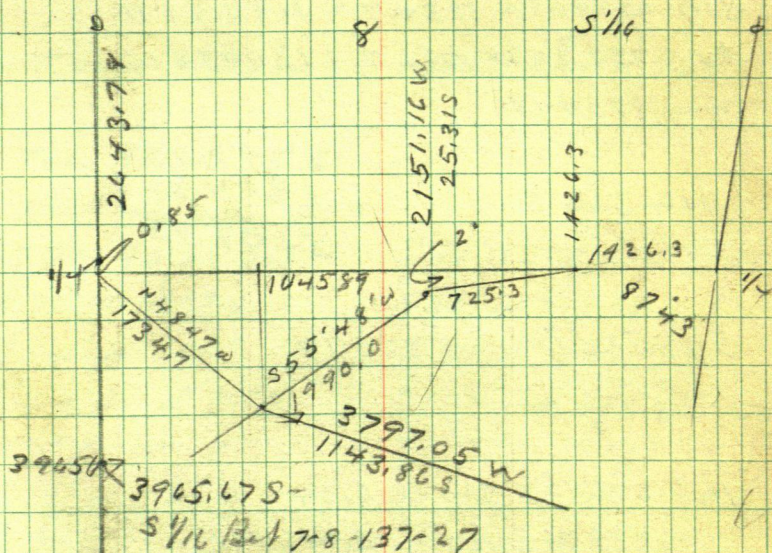
S 55°48'W 1990 ft to Hub on
ice then N 48°47'W 1734.7
To Boom Handle $\frac{1}{4}$ on ice
bet 7-8-137-27

Out 6-30

Notes: We ate our lunch with Hallier

March 20-1947

At trailer Ho Figuring Jenkins



588°W 7253

$$\sin 2^{\circ} 03' 48.99'' \times 725.3 = 25.31 S$$

$$\cos 999.391 \times 725.3 = 724.86 W$$

$$\tan 034921 \times 725.3 =$$

$$S 55^{\circ} 48' W 1990 - 39^{\circ} 12'$$

$$\sin 562083 \times 1990 = 1118.55 S$$

$$\cos 827081 \times 1990 = 1645.89 W$$

$$\tan 679599$$

56

N 48° 47' W 1734.7

Sin 658908 × 1734.7 = 1143.01 N

Cor 752 223 × 1734.7 = 13048.8 W

Tang 875948

114386 S
 114301
 85

3797.05 W
 13048.8 W
 5101.95

5) 85 (17 = 000 17
 51
 340
 337

Hub 243.15 W	gas N	0.04
838.70	N	0.14
1330.6	N	0.23
1426.3	N	0.24

We leave this Random Right
 Where - it is
 Random OK for line line

March 20. 1947 continued

10-30 AM Finnh figuring
and go after Coyne McLaughlin

Take stake on ice 164.9 ^E w. end of 1/2?

Take Stadia of Pond

East on line 242

S 72° 30' E 218.	S 71° 30' E 175 ^E 125
S 71° 30' E 125	S 53° 30' E 122
S 34° E 160	S 29° E 232
S 24° 30' E 270	S 12° 15' E 255
S 2° 30' E 218	S 14° 15' W 212
S 19° W 250	S 32° 30' W 265
S 36° 50' W 295 + 10° 305	S 46° 30' W 325
S 59° W 303	S 66° W 308
S 72° W 248	S 60° W 175
S 79° W 150	N 75° 30' W 178
N 58° 45' W 275	N 53° 40' W 270
N 52° 30' W 160	N 22° E 72
N 29° 30' E 82	N 21° 30' E 155
N 29° 50' E 175	N 44° 40' E 192
N 57° E 240	N 68° 15' E 262
N 80° E 278	N 85° 15' E 275

58 Mar 20 - 1947 Cont'd

Coyne and Harold like Slade's
of Lark while I go to Hall res to
get the \$150 as down payment
"when work starts"

Hall has no money but shows me
a contract - for some. Later he has
just said His abstract has not
been approved yet but will be in
a week or so - and then he will leave
\$150 to my account with Farmers
State Bank Piquet.

I help with Slade's Crut in
one hour - pack X and all call
again at Pat De Zell res. He is
gone and we drive to Piquet
work 2 hrs for Ed

Snow storm decreases home

Told for Coyne 3 hrs both places

aug 17-47 856 wall

August 20-1947

Rec letter from C. J. Hall asking
me to come as he has sold a piece
of his land

I pick up Glenn Miller
L. Walker 10-30- We drive to Ponto
Find Harold and wait working
Call on Mrs

She is in Pine River to funeral of
Mr. Zarks

We drive to Jenkins - Buy
lunch 120 eat lunch on road
Call on Mr Hall also Mr Jordan
Go back to Walker - 7-30

Harold & Walt not in yet

Evening 10 PM I give Walt
Miller \$10.

60

August 21-1947

Harold and I in his car

Copy notes and to Walker

11-am Buy lunch at Jenkins

on Cross Lake at noon

Call on Mr. Jordan

See Page 53

Flag at 1338.7 W and 243.15

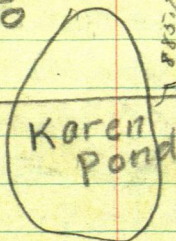
Work on line in far north

885.20 W

832.65

13.65

819.00



Stump 885.2 W w chain Evt

40.5
844.7

885.2
40.5
844.7

To 844.7 RR spike in & fair way

From 844.7 ch Evt 12.05

To 832.65 W RR spike in Evt
shoulder of Road

At 844.7 & road ch west 12.05

To 856.75 RR spike in west
shoulder of road

Ties

JP 14 N 60° 12' W 11.70

NP 12 S 37° 18' W 14.52

832.65
13.20
818.95

Drive 60 d spike in to edge
of 12" green JP stump 885.2

West Chain 9.00 west to

894.2 set 2 1/2 x 36" Cast

iron pipe 6 ft east of water
edge

Chain 13.7 E from 832.65

819 west set 2 x 24 pipe

on side hill

Aug 21-1947 Cont'd
 Pass over Karen Pond
 Hub 1330.6 West on west
 shore of Karen Pond

Set 2x26" pipe 10 ft west
 of water 10 or 11 ft N of old
 E-W fence down

Tree 12 ft up West
 1. foot at ground level
 Bloody of tie line so
 out of line

Spot at base

$$1330.6 + 95.7 =$$

95.7

1426.3 Hub under X
 Set 2x24" pipe

Tree

5" Birch S 78° 50' W 9.90

13" NPS 40° 22' E 4.60

to spot 2 1/2 up on nr

1426.3

117.1

~~704339.6~~ Run West Turn $0^{\circ}45'$
and then 117.1 Hk on bank

$0^{\circ}45'$ Tang. = 013091

117.0

117

13

351

117

1.521

117.0 over net North 1.52

Set $2\frac{1}{4} \times 24"$ flush with ground

Tree NP3" E 20.75

NP 26 N about 10'E 36.15

14263

117

1543,3

See page 82 BK

BK 223

Went bet Govt Lot 7-8

Dec 8-137-27

Went 810 IM

853.8 RRA 914.5

1012.0 " " 1115.10

1240 IM

1 240

810

2 430

215-

810.

2151025 W Half way bet lakes
From Hub 1012 Chem

Went

To

12

1025Turn over 1025 turn 90
North

Co Road

Tr over RR spike & N S-
Ter road Focus West
in Line bet Gov Lot 6-7
Sec 8 - 137 - 27 Run

S $5^{\circ}38'E$ 222.1 to S151

3 ft west of west bank,
and 15' W of E road

Sta 1. Run S $4^{\circ}17'E$ 641.35

To S154 being on E
shoulder of road 15' E of E

S152 Run S $16^{\circ}27'W$

@ 100 to 300 E road + 176.4
476.4 Sta 3 being

26.3 west of RR spike
in E Road

Sta 3 is 853.8 West
of S $1/16$ Cr over lake

Run S $89^{\circ}57'W$

To pt 13, N west of
Sta 1012 W Being 1025
west from S $1/16$ Cr over lake

Oct 4-1947 Sunday

Glen & I in my car

Lv. Walker around 11 o'clock

Gas \$3.00 drive to Pine River

dinner \$1.50 Lv Pine River

12-45 drive to Halls ^{arrive 1:45} on PM

Cross Lake Lot 7 Sec 8-137-27

Tower 60^d spike on E ofstreet BS on Flag on $\frac{1}{16}$

Line and continue

our old Line N10°W

I Lv Glen Cutting Line N10°W

while I go copy Halls Description

of lot we run out in Ang. see

page 67.-68

We check angle & measurement

of the first 101.54^{ft} & continueN10°W 101.54 and set 60^d spike@ 203.08 we set @ 60^d spikeTower our old 60^d spike 101.54 N10°WFrom Hub 10 25' W of $S\frac{1}{16}$ cor in

Lake (see page 65 This book 279)

We B.S. S10°E and run E parallel

to $S\frac{1}{16}$ Line @ 16.75 set 60^d spike

for Lot cor + E side of street we

cut line to Highway continued

on page 70 This book

H Curo

Description Part of Lot 7, 67

Parcel of Land situated in Crow Wing County State of Minnesota being a part of Gov't Lot 7 Sec. 8 T 137-N R. 27-W of the 5th P.M.

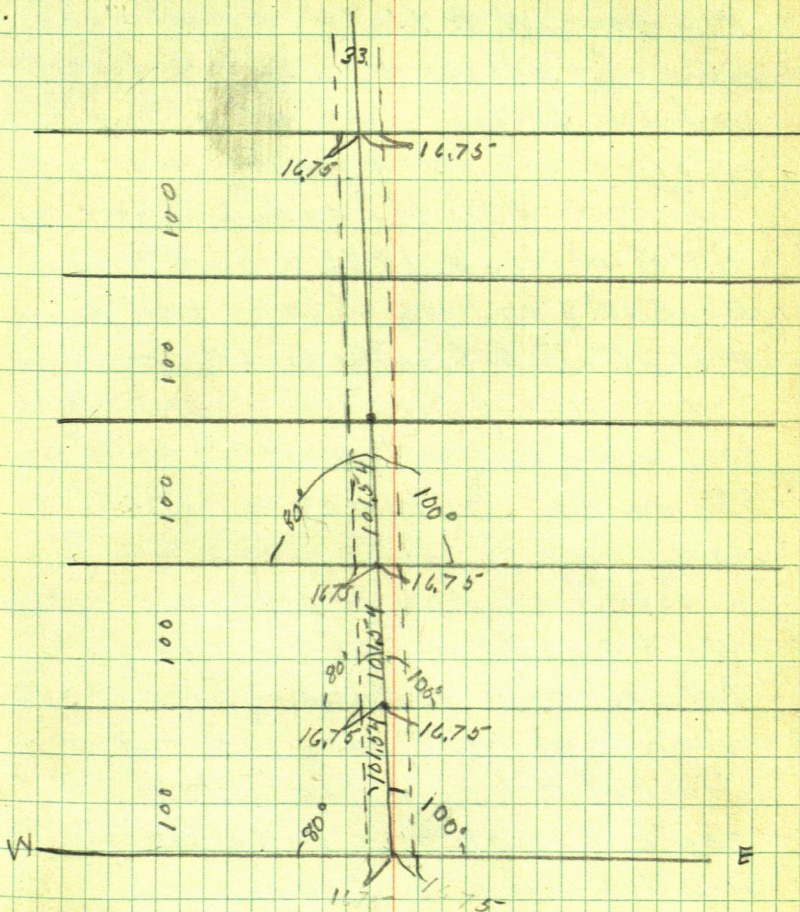
Beginning at a point where the South Line of Lot 7 intersects the east shore of Rush Lake

Thence East along the So. Line of said Lot 7 ^{a distance} 50 feet more or less To an iron monument Thence Continue East 215 feet to a second Iron Monument. Thence N 10° West 101.5 feet to a 3rd Iron monument Placed exactly 100 feet N. of the So. Line of said Lot 7 Thence West Parallel to the So. Line of said Lot 7 275 ft. more or less to Rush Lake Thence southerly along shore of Rush Lake To Point of beginning The south Line of said Lot 7 is considered a True East & West Line in this description. The easterly one rod of the above described Land is Reserved for road purposes. All subject To flamage rights of the U.S. Gov't.

over

Together with easement for an
unobstructed roadway 2 rods
in width Leading from The
above described property to
connect To the Public Highway
#8 Subject also to mineral
rights & mineral reservations
if any of record

$$\begin{array}{r}
 16.75 \\
 16.75 \\
 \hline
 33.50
 \end{array}$$



Continued from page 66 This book,
we set spikes along this line
but do not chain it now

We run W @ 16.75 We set a 60^d
spike for Lot cor + W. side of Street
We hit a J.P. tree and set 60^d spike
on line do not chain now

Then over Next 60^d spike 203.08

N 10° W of Hub 1025 W on S $\frac{1}{2}$ Line
B.S. S 10° E on Hub 1025 and run E
@ 16.75 set 60^d spike for Lot cor
and E side of Street We cut out
this line to the Highway setting
60^d spikes on line do not chain
Now

Still on Hub 203.08 We run
West @ 16.75 set 60^d spike for
Lot cor and W side of Street
Then cut out this line but
did not cut any green trees
some are on the line and
it is too dark to see so quit.
@ 6 o'clock drive to Pine River
Hotel Room # 9 - \$2.25 supper
1.00

H Curo

Monday Oct. 5, 1947

From Hub 1025 W we run N10°W @ 101.54
spike run E 16.75 spike Lot cor. @ 187.3
spike + 35.5 = 222.8 \$ Tar road. @ 260 enter
Cross Lake T still @ 101.54 run W @ 16.75
spike lot cor @ 239.2 spike for lot cor
15 ft from bank 45 from Rush Lake
cont N10°W @ 203.08 spike Tower 203.08
run E @ 16.75 spike for lot cor @ 221.3
spike + 42. = 263.3 \$ Tar road + 30 = 293
enter Cross Lake T still @ hub 203.08 run
W @ 16.75 spike for lot cor. @ 263.4 spike for
lot cor @ 278. brink @ 308 Rush Lake
cont N10°W @ 304.62 spike Tower 304.62
run E @ 16.75 spike lot cor @ 268 spike
@ 312 \$ tar road @ 352 enter Cross Lake
T still @ 304.62 run W @ 16.75 spike for lot cor
@ 300.3 spike for lot cor @ 315 brink
@ 345 enter Rush Lake cont Line N10°W
@ 406.16 spike Tower 406.16 run East
@ 16.75 spike for lot cor @ 329.3 spike @ 355.5
\$ tar road. @ about 400 enter Cross Lake
T still @ 406.16 run W @ 16.75 set spike for lot
cor @ 334.4 spike for lot cor @ 349 brink
@ 380 enter Rush Lake continue N10°W
@ 507.70 spike cont. on page 87 this book

72

① Sec 7-137-27

S 80° 47' W 9° 13

00 07

Sin 160168

Cos 987090) 170000 (1

Tang 162263

$$\begin{array}{r}
 98709 \overline{) 170000} (172.22 \\
 \underline{98709} \\
 712910 \\
 \underline{690963} \\
 21947
 \end{array}$$

$$\begin{array}{r}
 98709 \overline{) 100000} (101.31 \\
 \underline{98709} \\
 1291001 \\
 \underline{98709} \\
 303910 \\
 \underline{296127}
 \end{array}$$

273.53

192.11

$$\begin{array}{r}
 192.11 \\
 - \quad \quad \quad 6 \\
 \hline
 191.5
 \end{array}$$

$$\begin{array}{r}
 200 \\
 200.95 \\
 \underline{27.23} \\
 228.18
 \end{array}$$

162.6 Do bet 170 + 100

228.12

390.8

195.4

1877.7

143.9

1733.8

1877.7

24.2

1901.9

(2)

73

137-27

143.9

1877.7

57.05

20095

1733.8

57.05

167675

6

5

7

8

1877.7 *Tree* 46°

NP 12 N 88° 22' E 24.27 spot 3' up

NP 10 ~~55~~ 68° 26' W 28.98

and spot at base

8" Rock N 60° 12' W 14.30

6" " N 56° 23' W 21.80

1676.753

57.05

3 1733.8

spot 60°

228.18

143.9

1878.33

1877.75

273.539.13

172.23

580° 47' W 101.31

1901.95

162.6

74

(3)

Ties to NW corner

1 270 ft strip

119" JP S $74^{\circ}44'E$ 40.20NP 15 S $45^{\circ}43'W$ ~~29.80~~

29.78

Hole 4" pop on line

Can of stump head

S $10^{\circ}01'E$ 124.6

K over 172.23 bet 170 + 100

Q Big stump S $10^{\circ}01'E$ 124.6

10°01'

SIN 173935 X 124.6 = 21.67 E

Cor 984757 X 124.6 = 122.70 S

Tan 176627 X 122.7 = 21.67 E

81 + Deed WD 122403

Charles O. Smith & Anna T. Smith living
To Robert R. Gast & Eva Gast-his wife
Dated Oct 10-1941

Filed Dec 13th 1941 - 9 AM

Book 107 Deeds Page 88

RR Mart 2802 Georgia St
Louisiana Mo.

Pt of Gov Lot 1 - Sec 7 - 137-27-5PM
Crow Wing Co Minn

Begin at SE Cor on shore of Rush
Lake; thence 225 ft due north
then 170 ft ^{due} west pt of beg of
the land to be conveyed herein
and which Point is also

the N.W. Cor of the land deeded by
said first parties to Allen W. Mothersill
and Rose Mothersill his wife,

thence due west from point of beginning
100 feet; thence due South 475 feet +- to
shore of Rush Lake, thence Northeast
along the shore of said Rush Lake
125 feet +- to a point on shore of Rush Lake
which is 170 feet due west of the East
line of said Lot 1, extended OVER

NOTE: ~~Madison~~ Oct 7-1947 RR Mart 2802
Georgia St Louisiana Mo
Louisiana Mo. White Front Lodge Cross Lake
Minn

and which is also the Southwest corner of the land deeded by said first parties to said Allen W. Mothersill and Rose Mathersill, his wife,

thence due North 400 feet \pm to pt'g beginning according to the Government Survey thereof.

Parties of the first part agree that said second parties shall have ingress and egress on private road over property belonging to said first parties, so as to provide ingress and egress to the main road running East and West across said Lot 6 one (1);

In event that parties of the second part or assigns wish to at any time to dispose of above property, the said parties of the first part, or assigns reserve the right to the first option.

Building line to conform with same of Mothersill's on Lot east

Subject to United States Government flowage rights of record

Witness, Geo A Tracy & Harold J Skarolid

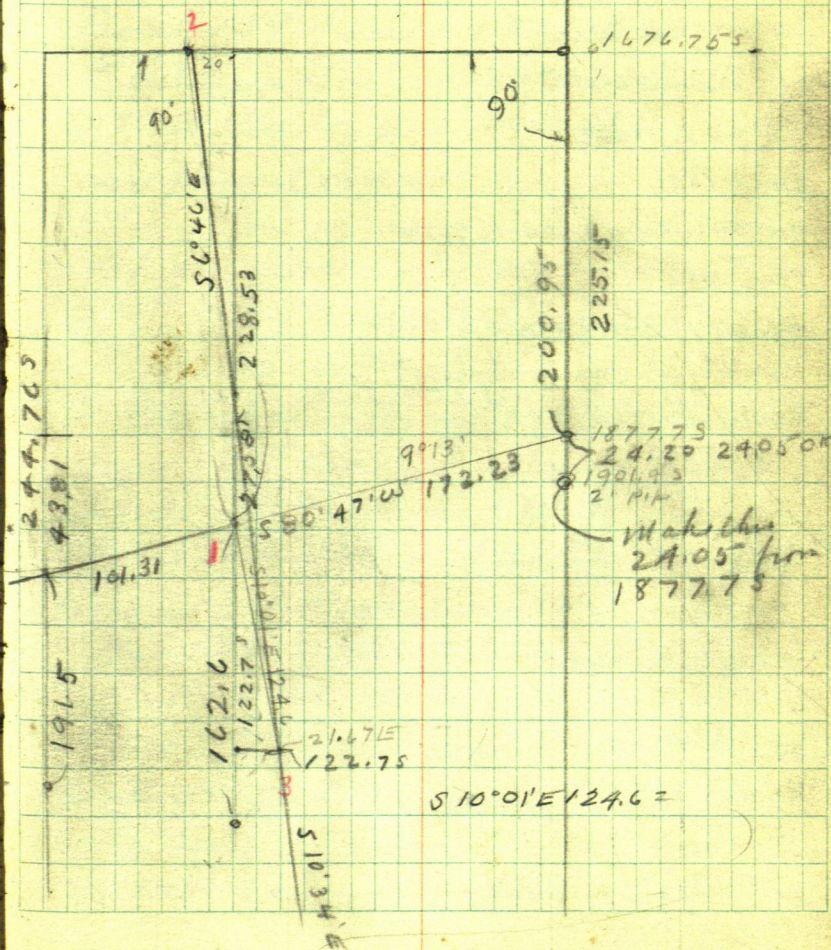
$$\begin{array}{r} 150 \\ 275 \\ \hline 425 \end{array}$$

2167

2000

228,53147

122,709

$$7 \overline{) 351.23}$$
$$351.23 \cdot 41.67 \cdot 1186402 = 10^3 \cdot 34 \cdot 6^0 40$$


78

$9^{\circ}13' \quad S 80^{\circ}47'W$

Sine 160168

Cos 987043) 170 = (172.23

Tang 162263

Cos 987043) 100 (= 101.31

~~941000~~

~~1622~~

$S 6^{\circ}46'E \quad 168.56$

Sin 117826

Cos 993034) 168.56 = 169.74

Tang 118653

993034) 351.23 = 353.69

169.74
183.95

Sl. + Deed WD N^o 126937

79

Charles O Smith Anna T Smith
To Allen W Mothersill Rose
Mothersill Husband + wife
Joint tenants

Dated October 10 1941

Filed October 22 1943 9 o'clock AM

Book 109 of Deeds Page 535

(Address then RV Mothersill
2199 Wellerley Ave St Paul)

in pencil on deed

A part of Lot 1 Sec 7-137-27
5 PM Crow Wing Co Minn

Reg & SECOR of said Lot on shore
of Rush Lake; thence 225 feet due North
thence 170 ft due West; thence 356 ft
due South to shore of Rush Lake
thence along shore of the lake 200 feet
to the point of beginning

According to the Government Survey
thereof

And is further agreed that Charles
O Smith and Anna T. Smith his
wife said parties of the first part
or their heirs, have first Over

option to purchase the above described property: The purchase price not to exceed \$3.75 per lake front foot plus the appraised value of improvements
 Subject to United States Government flowage rights of record

Together with right of ingress and egress over existing or future roads running from the above described property to east and west public road on north side of property owned by said first parties

improvements

Geo A Tracy and
 Harold J Skorolick

\$1.⁰⁰ box stamp attached.

Address to-day Oct 7-1947
 is Cross Lake. Que.

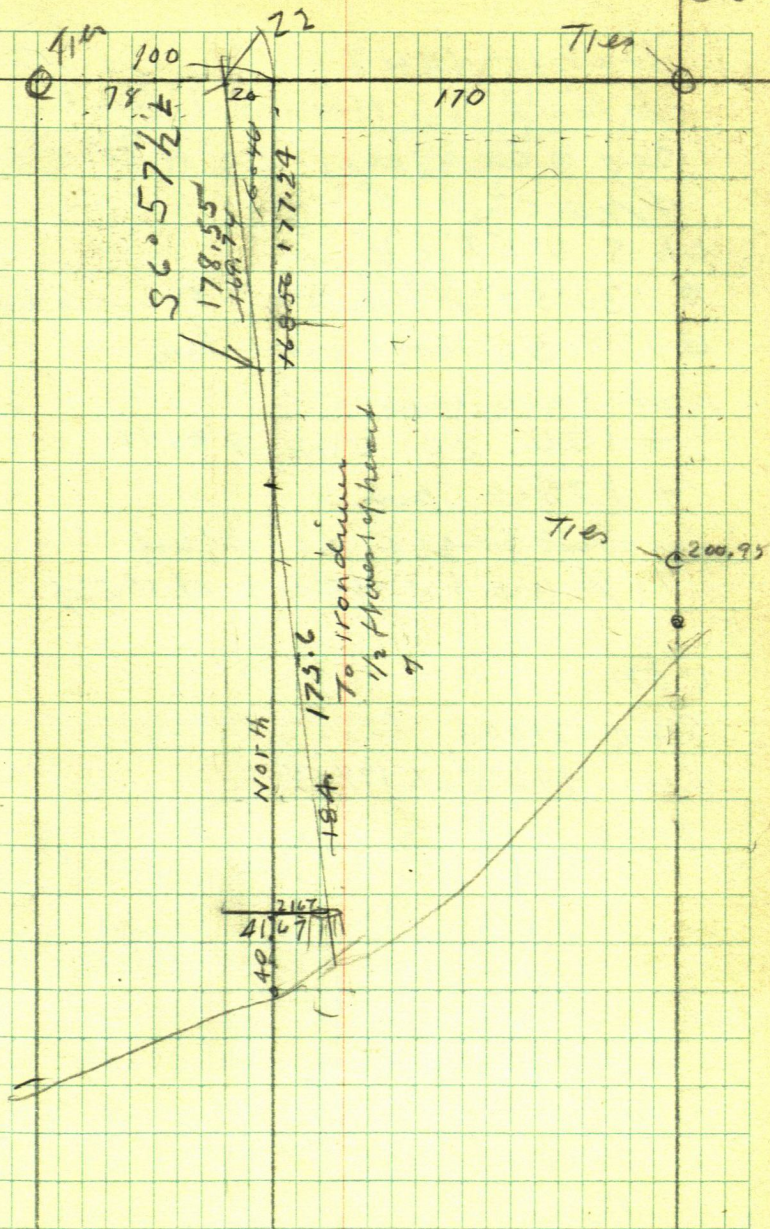
$9^{\circ}13'$

Sin 160168

Co 997043

Tan 162263 X 170 = 27.58

" X 270 43.81



Oct 11-1947

W. Lenfred Harold & Jas

Beg @ 2x16' pipe 22 ft W

of NE Ca

ch 5 6' 57 1/2' W

@ 130.50 pipe 60' on 20' bank

@ 178.55 set from line

set 2x16 pipe

+ 170.30 in 2x10

+ 175.6 pin R

in West edge of 20' stump

1/2 ft West of Heart of stump

6' 57'

Sine 121003

Cor 992652 X 178.55

Tang

$$\begin{array}{r}
 178.55 \\
 177.24 \\
 \hline
 1.31
 \end{array}$$

$$\begin{array}{r}
 992652 \\
 178355 \\
 \hline
 4963260 \\
 4963260 \\
 \hline
 7941216 \\
 6948564 \\
 992652 \\
 \hline
 177.23805460
 \end{array}$$

Continued from page 71

Run 507.7 $\times 417$ E @ 16.75 set spike
 for lot cor @ 361.4 spike @ 383 $\frac{1}{2}$ to road
 @ 420 spike @ about 520 enter cross Lake
 Run still @ 507.7 run W @ 16.75 set spike
 for lot cor @ 386.7 spike for lot cor
 @ 402 brink @ 437 enter north Lake
 continue N 10° W @ 609.24 spike
 Run 609.24 $\times 417$ E @ 16.75 spike
 for lot cor @

Lot 7 Sec 8-137-27

88

① 1543.34

18

17

357.55

388.1

15

553.8

14

13

434.2

12

369.95

11

317.65

10

283.55

9

246.65

8

222.45

7

199.5

33.3

M5201

154.45

170.55

219

260

305

335

362.8

347.8

57706E 190+1

30 Scale

Halls Cross Lake 89
Lot 7 - Sec 8 - T137 - R92.27

Dec 12-1947.

I pick up Glen Miller &
Clifford Eckman get Mas 300
Oil, 25. drive to Millers camp
2 1/2 miles S W of Hackensack
where I Lv. Glen Miller.

Eckman & I drive back to Hack,
Then on to Pine River. Get lunch
@ P.R. 55¢ drive on to Halls
on the west side of Cross Lake
I give Hall a map showing
a part of his lots in Sout Lot 7 Sec 8
137-27 Mrs Hall gives Eckman
and I coffee & cake.

Eckman & I Take outfit and
Lv. car. @ 1-20 P.M. and walk
West to where we have cut out
the E of street N 10° W From Hub
1025 W on the south side of Sout
Lot 7. We dig up our old spikes
@ 609.24, also 710.78 NW of 1025 W
on south side Lot 7. From spike 609.24
we chain NW 33.50 and set 609 spike
in E of street for the N side of Ave
running East to main Highway

Tower hub 710.78 we B.S. $510^{\circ}E$
 on E of street and run
 West @ 16.75' spike for Lot Cor.
 Cor to Lots 13-14. From Here we
 run West bet Lots 13-14 @ 88
 we cross N & S wood road @ 103.05'
 spike Hub @ 484.80 spike hub
 point for I.M. 15 ft. from Brink
 50 + - from water Rush Lake

Tower hub 812.32 on E of Street
 Y417 West @ 16.75' spike point for E
 Cor to 14-15 - We cut line West
 until we can not see A too
 dark so quit drive to Sam Kiri's
 arrive @ Trailer House @ 5-30
 I get Hub @ Store \$1.55-
 Supper and over night @ T. Ho.

Lot 7 Sec 8 - T137-R 27

Dec. 13-1947

Up early but as Clifford used up the oil last night and did not say anything we have to wait for store to open @ 8 o'clock. as our clock and watch is 2 hrs. slow we do not get our oil until 9 o'clock. We drive to crosslake drive @ Halls @ 10 o'clock continue our line west between lots 14-15-

@ 230.9 spike hub. @ 411.8 spike hub. Tower 411.8 our line hits a tree so I Turn R. $0^{\circ}12'$ and run N $89^{\circ}48'W$ 142 ft and set a 60% spike .50 of a foot N of true point for I M bet Lots 14 & 15 on bank 15 ft from Bank 50 ft - to water Rush Lake.

Tower spike 913.86 in E of street 74 ft W 16.75 set spike for E cor of lots 15-16.

Dec. 13, 1947 Continued
West bet Lots 15-16.

@ 272.60 spike hub @ 388.10 spike
hub, point for I, M. P. P. P.

Over spike 1015.4 on E of Street
B.S. S 10° E on E and run

West @ 16.75 spike E cor of Lots,
16-17. West bet 16-17 @ 263.05
spike @ 351.55 spike point for
I, M. bet Lots 16-17. @ 371 foot

@ 395 edge of ice Rush Lake

@ 418.55 wood hub in ice

Over wood hub 418.55

we take stada of Shore Line

S $73^{\circ}09'$ W 148 edge of ice

S $59^{\circ}04'$ W 162 foot at point. high
cut bank.

S 10° W 85 foot

South 37 ft edge of ice

S 27° E 100-foot

N $17^{\circ}40'$ E 335 edge of ice
about on N line Hon't Lot 7

N 22° E 290 foot.

We go to the N W cor of Lot 1
and chain E bet Lot 1 & Ave

Hall Cross Lake Lot 7 Sec 8-137-27
Dec. 13, 1947 continued 93

@ 362.8 spike hub, 18 ft W
of E. Tar. Road.

From NE cor Lot 12 we chan
West bet Lots 12-13

@ 164.7 spike hub @ 434.2
spike hub point for I, M, bet
Lots 12-13. on bank 15 ft E of
Brink 50 from edge of water
Push Lake

LV for Walker @ 4-30

Piney Crest Hold

Jan. 15. 1948

Windy snow blowing cold.
Glen Miller and I in
Ford get gas 3⁰⁰ drive
to Pine River get grub.
drive to Jenkins to Trailer
House stop $\frac{1}{2}$ mile N of
Jenkins cut some wood and
put in car for Trailer House
cold as hell.

Arrive at Trailer house build
fire get warm I go for water
Glen tries to shovel road to
Trailer house from State Highway
snow blows faster than he
can shovel so we leave
the car on the other side of
street by the Post office after
unloading it stay in
Trailer house over night

Harold Curo

Jan. 16-1948 Friday

I was up late keeping fire
so we do not get up very early
cold as hell

Car will not start Battery
down I take Battery to Bill
Rings Gas Sta. and have
it charged The Gen on the
Ford does not work J.W.C.
paid \$12 to get it fixed Three
days ago it has not worked
since

all day in Trailer Ho @
Jenkins

J.W. Curo calls and says
to come back to Walker if
it is too cold to work.

Harold Curo

June 17 1948 Sat.
Still cold.

get Battery from Bill King
75¢ put into in the ford
Lv Jenkins @ 12-30 drive
to C J Hall's @ Cross Lake show
him the plat and he marks
changes he wants.

He says to call the Plat
Piney Crest Hdd. as the
place has always been know
as Piney Crest

Glenn & I take axes and
go and cut tall stakes and
drive them in at all the
corners of the first 12 lots
so Hall can find them

We set X over the NE cor
Lot ① Hall goes to the point
on Cross Lake where he wants
the ave to be leading to the Cross
Lake. From NE cor Lot one to
Hall is standing S 77° 10' E
about 180 ft. Hall gives me
a check to John W Curo

Harold Curo

Jan 17. - Continued

for \$25.00 Glen & I drive to
Jenkins lock up Trailer Ho
and drive to Walker.
around 7 o'clock. I am
froe stiff by the time I get
home.

Jan 18. Sunday all day @ Home

Jan 19. - Work on Halls map @
court house

Jan 20 - Kid sick Gent sick
work on Halls plat I think
there is a plat of Piney Crest
so will have to wait until
we find out from Earl Jenkins
at Brainerd
Windy snow blowing

Harold Caro

Jan. 25-1948 Sunday

I check over Halls Plot.
in A.M.

P.M.

I pick up Glen Miller
J.W.C. says to wait until
Monday to go to Jenkins.
But we leave Walker Sunday
P.M.

5 gal. Gas \$1.40

We stop $\frac{1}{2}$ mile N of Jenkins
and cut some wood for
Trailer House.

Supper & overnight @ Trailer
House

Harold Cross

Jan 26-1948 Monday
Cold.

Glenn & I Lu Jenkins @
10:45 drive To C.J. Hall's
@ Cross Lake

Over Hub 263.0 bet
Lots 16-17 chain East 121.55-
and set 60° spike on line for
E side of New Street

Cold we build a fire a little
SE of this hub.

Over hub. 230.9 between
Lots 14-15 site E on old NE cor
lot 14 and chain E 89.4 and
set 60° spike on line for East
side of New Street line

C.J. Hall comes out and keeps
fire going

Over 60° spike just set
between lots 16-17 BS on
hub just set between 14-15-
and run N10°W 50.77 set
60° spike

Over spike 50.77 BS S10°E on
spike just set bet Lots 14-15

CJ Hall, Cross Lake
Lot 7 Sec 8-137-27

Jan. 26-1948 Continued
and run East @ 270.55
spike hub @ 403.55 set
60% spike Angle point for
out Lot, quit @ 5:30
drive back to Trailer House
@ Jan Kins Supper & overnight
Note

as we find New Street Line
will miss pond o.k.
We chain W 33.50 From
spike bet. Lots 16-17 and
set 60% spike for new NE
Cor Lot 16 & SE cor lot 17

H.C

CJ Hall Cross Lake
Govt Lot 7 Sec 8-7137-R27

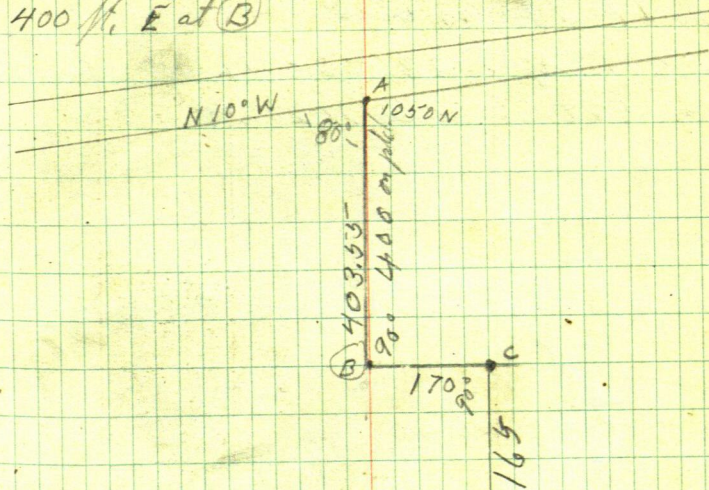
101

Jan 27-1948

30° below this morning
up late

Allen and I by Trailer House @
Jenkins @ 11 o'clock in Ford Coup
drive to CJ Halls @ Cross Lake

Travel spike 403.55 E. of point 1050 ft
N of S line of Lot 7. on East side of
street we run N 170° and drive
@ 60° spike. We figure to set these
points back W 3.55 so they will be
400 ft. E at (B)



H Caro

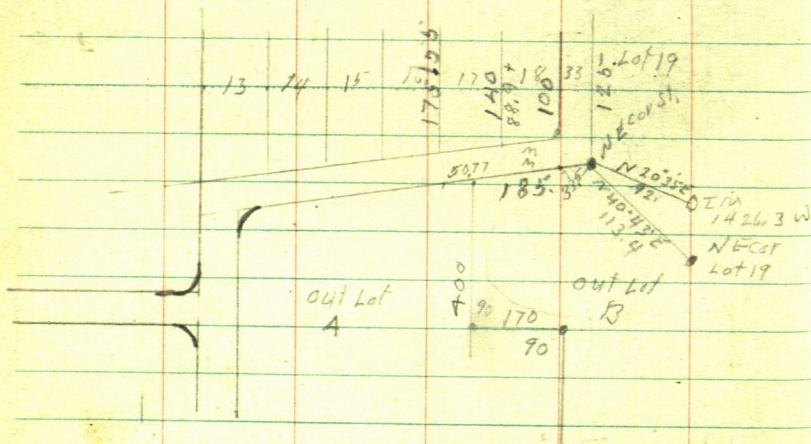
Jan. 27 1948 Continued

OT backover spike on E side
of street 1000 ft N of S line of Lot
7-sec 8-137-27

B.S. S 10° E on E side of street
and run N 10° W along E side
of street @ 236.58 set 60' spike
for NE Cor of Street

Tower NE cor of St. BS S10°E
and run N. 40°43'E 113.40 ft to
N.E. cor Lot 19 on E & W E 41.90 ft
E of IM 1426.3 west

From spike 236.58 = NE corner
I.M. 1426.3 bears $N 20^{\circ} 35' E$ 92 ft



C. J. Hall Phone Cross Lake 976
976 Cross Lake

Dedication

Plat of MINNOWA

Know all men by these presents That
C. J. Hall and Mabel E Hall
husband and wife of Crow Wing Co.
Minn. are the owners of the tract
of land situated in the Co. of Crow Wing
and State of Minn. described as follows
to wit: - All that part of Govt Lot 7
Lying West of Cross Lake in sec 8
T 137 N Rg. 27 W of the 5th 10 PM.

Have caused the same to be surveyed
and platted to be known as MINNOWA
and we hereby donate & dedicate to
the public use forever all St. Ave
and roads as shown by the annexed
Plat

All subject to flowage rights of the U.S.
of A subject to mineral rights and
mineral reservations if any of record

104 July 6 1949

Ace. Bajubia

Ace and I LV his place
@ 9 o'clock drive to Jenkins
Then out to fisherman's
Point Cooper gives me
check for \$100.00 and
Case of Brandy.

We drive to Halls
Turn Hub 170 on S side
of small Lake
Site W on I.M. 400 S of
Street on W side of small
lake Turn 90° L and
run 165 ft to R of Way of
Highway set I.M. @ 165
also at 170 under T
finish setting I.M.s
on Halls Plot

drive to Hunter-Fox Recort
Work on Fox Grove see page
121 this book-279

Glenn + I Lu Walker @ 9:40
drive to Jenkins arrive @ 10:50
get dinner @ Curo's Cafe

drive to Fox resort Lot 4 Sec. 13-137-28 arrive @ 11:45 We go to cor to Secs 13-14-23-24 established by JWCuro in 1929. See book 221 page 7 says 1. X 20" iron belt

New Ties Viz

Oak BN $62^{\circ}20'E$ 42.30 to dim spot at base ^{1st up}
SE cor Cem foundation Ramaley main house
N $6^{\circ}10'W$ 51.35

Cem at SW cor bears N $39^{\circ}36'W$ 65.10

2 X 48" Iron pipe North 12.00 ft

J.P. 10 N $60^{\circ}10'W$ 20.15 ft spot at base

Oak 12 S $0^{\circ}45'E$ 59.20 ft to spot 1 ft up

N.P. 10 S $28^{\circ}20'E$ 31.65 ft dim " 1 ft up

Oak 10 S $87^{\circ}02'E$ 79.50 " " " " "

Iron pipe set by Ramaley bears

Southly 32.25

one tenth (0.10) of aft. east of sec line

2 X 2 stake bears South 33.00 ft

We chain SE 51.35 from SE cor of Cem found
set pin - chain 110 ft from IM set

in plat. of Black Pine Beach
 through pin 5135 Then W chain
 31.65' NW from 18" N.P. Through
 the 110 ft pin and set pin in E of 4" cap of
 I.M. sec. Cor. Most of the old ties are
 gone. The corner is about $\frac{1}{2}$ inch
 below the ground.

We drive E 1000 ft + - To a Chuck
 I.M. SW Cor of 300 ft strip with the
 old Ties Vig book 221 page 29
 Ties to SW Cor 300 ft Benner Tract
 J.P. 6 N $43^{\circ}10'$ E 42.5' to spot 4 ft up
 J.P. 8 N 42° W 35.3' " " @ Base
 We find both ties standing green
 and check perfect for distance

We go to W $\frac{1}{16}$ Cor Book 221 page 30
 rays New Ties Vig W $\frac{1}{16}$ lot 13-24. 137-28
 40' spike in top of 4" J.P. stump
 bears N $0^{\circ}03\frac{1}{4}'$ E 32.92' pt on True $\frac{1}{16}$ line
 40' spike in so. edge of 15" green J.P. stump
 S $88^{\circ}58'$ W 140' pt on True sec line
 Pop stump N $79^{\circ}37'$ W 5.3' over

9 inch Iron pipe bears $N 13^{\circ} 30' W$
5.3 ft

The only thing we can find here
that might be a tie is an old
stump west but as it is
rotted away we do not use it
but go look for I-M at NW
Cor of Benner Tract

where book 221 page 34 says
N. on W side of Benner Tract

Beg @ SW Cor. 24 ft N of main road
Reed & I chain

North on True line @ 136.8 stake
on true line @ 147 & old road NESW
@ 255.0 hub under T @ 359.0 stake
on line in draw @ 482.7 stake on line
@ 555.0 stake on line @ 584.5 N hub
@ 884.5 stake on line 1184.5 on line
@ 1229.2 oak hub 2x12 @ 1340 low
new wall @ 1440 hub

Oak 55 about $20^{\circ} E$ 3.90

Twin oak 3-3 NW oak 5 about 70W 7.0 ft
spot @ bar

We rough chain North and look
for old hubs they must of been

wood as we can not find them
@ 1440 we find old Iron.

which checkout with the Ties
on page 34 book 221 are copy
of same on page 108 this book 279
we find 2" iron pipe set by some
one else 14.80 ft N of our I.M.

Tower SW Cor Bennis 300 ft X 1440
Tract now owned by John Bye
B.S. E on I.M. W $\frac{1}{16}$ Cor bet Sec
13 + 24 - 137 - 28 and run West
duble center hub Heller & Brightley
A Chicago steel 300 ft chain
plumb bob chain @ 216.85' hub
60° spike

Ties to 216.85'

JP 7 N 31° 17' W 9.86 spike @ back

JP 9 N 74° 24' E 9.07 " " "

@ 487.35' hub 60° spike

quit @ 6 P.M.

Supper @ Amos cafe

over night at Trailer house

140

Fox Lot 4 ² See 13-137-28

May 24-1927 Tues

Breakfast with at Enos Cape
drive to Fox Resort arrive @

drive to Fox Resort arrive @

59-30-

Tower hgt. 487.35 on south line

Sec. 13-137-28 continue Line

West

Ties to hub 487.35-

S.P. 14 N 11° 15' E 27.5' apt @ Base

J.P. 10 N 66° 37' W 38.25', 2 ft up

$$487.35 + 108.5 = 595.85 \text{ hub}$$

60° north

$$\approx 487.35 + 129 = 616 \text{ edges of water}$$

✓ 487,35 + 70,65 = 558,00 *rest 60% paid*

A.P. SW Cor Lot 17-

came out to be set over bay on

N. edge of road.

π over hut on N edge of road

The SW corner 13 is behind a

8" White Pine set two flags

they run to line up with con

by eye cannot see with π

Too many trees with limbs clear to the

gravid

Harold Cure

we set a spike on west of bay.
 $595.85 + 83 = 678$ over bay water
 $595.85 + 93.5 = 689.35$ but 60' spike
 water extends about 10 ft north
 of the line about 71 over water

Take hub 558.00 W pt for IM
 SW Cor lot BSE on 90° and run $N40^\circ W$
 36.4 - but 60' spike pt for I.M. lot cor
 on rear wall 12 ft from water under
 floating bog 75 to 100 ft over floating
 bog N edge of floating bog lies N about
 $10^\circ E$ 30 ft.

Take SW Cor of John Bye 300 x
 1440 ft Tract chain West 33 ft
 set 60' spike for lot cor & west
 side of street

Still @ SW Cor. Bye's Tract
 Site E on $W\frac{1}{16}$ Cor lot 13-24-137-28
 Run on 00° Turn L $88^\circ 54' 45''$

See page 28 book 221-

@ 100 N set 60' spike hub 33 ft E of pt. for lot cor

@ 200 N " 60' " " 33 ft E of point for lot cor

@ 300 N " 60' " " " " " " " " " "

Note: We will run the West Line of Byes 300x1440ft Tract setting spikes every 100 ft on line the entire distance and correct the same to hit J.W. Curo's old Cor I.M. if we do not hit it as the angle is $88^{\circ}54'45''$ and hard to read, and J.W.C. checked his line by chain across each end to be sure.

We find the I.M. 9.60 ft Short

Turn 60° spike 100 N
BS St Turin R $88^{\circ}55'$ and
run N Line of Lot 1 @
33 pt for Lot Cor - 20° spike
in spot of 5" I.P.

quit @ 6 o'clock

Supper at Curo's cafe

Then + I go to show in Peguot

Note. I check fig in Book 221 page 34 and find mistake in addition of 4 measurement 10 ft.

W. J. Curo

May 25-1949 wed

Up early Breakfast at Curo's Cafe

Shen & I drive to Lot 4 Sec 13-137-28

Fox - and run lot lines to Lake

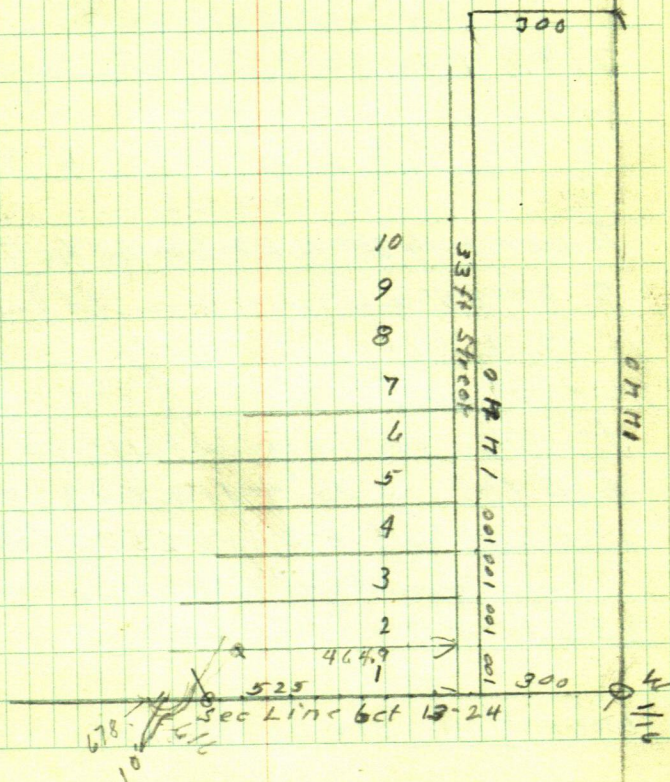
@ 33 spike in roof of SP. Tree + 100 old
road NE-SW.

$$33 + 2.40.1 = 273.10 \text{ feet under } \pi$$

$$273.1 \text{ W.} + 191.8 = 464.9 \text{ spike } \pi \text{ for IM lot cov}$$

$$273.1 + 205 = 478.1 \text{ foot of new wall}$$

$$273.1 + 214 = 487.1 \text{ edge of Water}$$



114

Over hub 200 N BS S on $\frac{1}{16}$ Cor

Turn R $88^{\circ}55'$ and run W -

@ 33 spike hub Lot cor by chain @ 33 spike

@ 101 $\frac{1}{2}$ old road NW-SE

@ 113.9 spike hub 60' spike in $N\frac{1}{2}$

7" green J.P. stump

@ 279.8 hub 60' spike - 1. N of center 5'

green J.P. stump

$279.8 + 40 = 319.8$ - hub 60' spike
point for lot cor.

$319.8 + 43.2 = 363$ Waters edge

Over hub 300 N BS S on $\frac{1}{16}$ Turn

R. $88^{\circ}55'$ and run W on lot line

@ 33. hub 60' spike wedge of road
and lot cor.

Begin @ 33 W chain W @ 112.15

hub 60' spike + 113.8 = 225.95

spike hub 60' + 31.1 = 257.05 - hub
60' spike point for lot cor. +

$257.05 + 29 = 286$ water edge

Dinner 90¢ one hour for noon

Tower 400 BS-S on W $\frac{1}{16}$ Cor
 Turn R 88.53° and run W @ 33
 60' spike hub W. side street pt.
 for lot cor beg. @ 33 chain N
 @ 84 hub 60' spike @ 204.8 hub 60'
 spike @ 221.9 hub 60' spike hub point
 for I.M. Lot cor water 27 ft.

Shore line curves South of line
 runs N about 200 ft straight

Tower 500N BS-S on W $\frac{1}{16}$ line
 Turn R. $88^\circ 55'$ and run West
 @ 33 spike 60' hub for Lot cor
 W side of street beg. @ 33 W-chain
 West. @ 207.5 hub 60' spike point
 for I.M. Lot cor 12 ft above water
 207.5 + 23 water edge

N. 1'

Tower 600 BS-S on W $\frac{1}{16}$ Line Turn
 R $88^\circ 55'$ and run W @ 33 hub 60' spike
 W side of street & Lot cor starts chain @ 33
 @ 177.5 hub 60' spike pt for lot cor.
 @ 188 point 10 ft cut bank
 @ 202 water edge

Tower 700 BS-S on $\frac{1}{16}$ line
 Turn R $88^{\circ}55'$ run West
 @ 33 hub 60 d spikes wide of
 street lot corner Start chain @ 33
 @ 122.8 hub 60 d spikes
 @ 156.1 spikes hub 60 d spikes hit
 point for IM lot cor
 @ 182 water edge.

Tower 800 BS-S on $\frac{1}{16}$ line
 Turn R. $88^{\circ}55'$ and run West
 at 33-60 d spikes hub lot cor
 wide of street beg @ 33 chain
 west @ 127.5 hub 60 d spikes
 $+ 38.2 = 165.7 + 13$ bank cut bank
 $165.7 + 27 = 192$ water edge
 quit 3-45

Tower 900 We run a line West
 to the lake and as it splits the
 sand point beach we move this
 line N 15° to L to the point on
 Lot 9.

Fox Lot 4 Sec 13-137-28 117
May 26-1949 Th

Mr & Mrs Fox says to call plat
Fox Grove o.k.

Tower 915 N B.S. on Vic Line Turn
R. $88^{\circ}55'$ and run West

@ 33 hub 60^d spike Lot cor. West
side of street leg @ 33 chain W

@ 113.5 spike hub 60^d + 56.9 = 170.4
spike hub 60^d point for I.M. Lot cor

Note! We had to offset this line
1 ft. N. To get by big Pines

$113.5 + 100.5 = 214$ water edge

Tower hub 170.4 W and 1" N

B.S. N $88^{\circ}55'$ W and run point of
sand beach

flag Near Lot Line S bears 59° W
115 ft.

flag on sand point bears $561^{\circ}50'$ W
80 ft.

N $88^{\circ}55'$ W 45 ft.

Tower 1015 B.S. on W $\frac{1}{16}$ Line

Turn R. $88^{\circ}55'$ and run West @ 33 Hub

60^d spike Lot cor. Wedge of street from 33 ch W

@ 74 hub @ 112.8 hub pt. for I.M. over

@ 120 brink of 6" cut bank

@ 136 water's edge.

Tower 1105 N BS-S on $\frac{1}{16}$ line

Turn R $88^{\circ}55'$ run west

@ 33 hub 60° spike hub Lot Cor

& Street corner beg @ 33 ch W

@ 71.8 hub 60° spike point for

IM Lot Cor @ 77 brink 6 foot cut
bank @ 96 edge of water

Tower 1105 chain N 66 ft

N edge of Street

Tower 66' BS-S-Turn R. $88^{\circ}55'$

run W to lake on N side of

Street @ 84.5 hub. 60° spike

pt for IM Lot Cor & Street line

@ 93 cut bank 4' hi @ 114 water

starting to Rain

Tower 1440 N BS-5 on 1/16/17

\$170

S 89°55'E take study of shore line

S 88°55'E 35' 200 N 64°45'E

N 37°E 100' 205 N 60°45'E

N 46°20'E 188' 180 N 44°30'E

N 60°E 160' 112 N 12°30'E

92 - N 040' VV 70 N 45°40' VV

69 S 78°40' W - 98 S 81°45' W

110 S 73°30' W 115 S 65°W

150 S 24°45' W 250 S 24°45' W

over bay

380 N 89°30'E 330 N 86°30'E

295 N 79°45'E 270 N 71°45'E

280 N 65°10'E 415 N 65°20'E

quit @ 1-30

as I have paid Him \$10
and feed Him I will give
him \$10⁰⁰ more and call
it paid in full.

Lawrence A Fox

Esther E Fox

Ernest A. Eklund

Marjorie B. Eklund

Chester A Eklund

Marjorie H. "

July 6-1949

Ace Bayhwa

Ace & I Finish setting I.M.S.
on Halls Plat see Page 104
This book-279

Drive to Fox Grove Lot 4 Sec 13
137-28 where we set I.M.s.
at all lot corners

Finishing the work according
to our contract with Fox.

as Mr. Fox wants easement
road for lot owners only
over his land to connect with
Charles St. of Plat of Fox Grove
From the taxed County Road #8
we run out the 33 ft roadway

Over SW cor of John Byes
300 ft strip site N. along E. side
of Charles Street and continue
Charles Street south

cut out the line and set
404 spikes for hubs do not chain
to late. drive to Jenkins find
note from Norman Robinson
at Curo's Norman wants to see
me to night so I drive to W side
of Sibley & see him. Will see him
to-morrow

Harold Curo

122

July 7-1949

Pick up Ace ^{Boyd} Drive to Fox
Grove - Lot 4 - Sec 13-137-28
and chain easement Road
across the NW-NW Sec 24

-137-28 From SE Cor Plat of
Fox Grove to the $\frac{1}{2}$ County road
No 8 - @ 24 - $\frac{1}{2}$ old road E+W

@ 91.35 - hub 609 apik

@ 172.5 " " " "

@ 257.2 " " " "

@ 300 pin + 48.4 =

348.4 Hub 609 apik

355 cross bob wire fence E+W

@ 390 $\frac{1}{2}$ County road #8

at each hub we chain W 33 ft

Pat. Dezella^①

Lot 6. Sec 8 - 137-27

125

Sept. 1-1949

at 5 o'clock Mike hooked
onto my ford to pull it
in to Swanberg to have it
fixed.

Pat. Dezella arrives at trailer
house with J. W. Curo. Pat has to
have his lines tomorrow can
not wait until Saturday. Mike
pulls my car to Swanberg
where I leave it to get fixed.

Pat follows us in his Dodge
pickup load survey outfit into
Dodge-pickup + Pat takes us to
his place. John W. Curo did
not bring anything with him
and as he did not have the
old note we have to locate
the $\frac{1}{4}$ cor. bet Sec 8-9-137.27
Viz.

Turn 60° spike on E+W & Sec 8
13S West on flag pole held on I.M.
over cross Lake by Pat. Transit
Telescope and run E to point in line
with light poles running South

Harold Curo

Pat Dezella

Sept 1-1949

dig down and find I.M. $\frac{1}{4}$ Cor
bent way over E. we dig out
+ find where it goes down
straight + set stick in place fill
up hole. from this point
True $\frac{1}{4}$ bet Sec. 8 + 9. chain W
204" set bolt on true line
in tar road. 204 W of $\frac{1}{4}$ Cor
Tower 204. site NE on R.R. spike
in center of tar road by JWCuro
years ago. Pats NW Cor.

From this R.R. spike Pats
Dezella's True NW Cor. chain
SW along $\frac{1}{4}$ tar road.
@ 190 set bolt on Pats True
west line in $\frac{1}{4}$ tar road. +
158.2 set bolt in tar on $\frac{1}{4}$ tar
road. from 158.2 chain SW
228 to bolt under Tr. too dark
to see quit for night. Pat
takes us to Pine River where
he buys us lunch then drives
us onto Walker. Pat is stopped
by Highway cop. No Tail light
Harold Curo

4 Acres - Lot 6 (3) Sec 8 - 137-27 127
Pat Dezella

Sept 1 - 1949

Pat takes us to my house
J.W.C. goes to bed. Gert give
Pat + I a cup of coffee, and
we drive back to Town. Pat
gets his tail light fixed
while I get note at Court
House. Pat + I drive back
to Cross Lake where I stay
over night in Pats cabin

Harold Curo

128

4 Acres +-

④ Lot 6 Sec 8-137-27

Pat. Dezella

Sept 2 - 1949.

Pat call me at 6 o'clock

We have a cup of coffee then
go to Pats N.E. Corner 545.05'
ft N. of $\frac{1}{4}$ Cor bet Sec 8+9-137-27

Where old notes Book 249.

Page 53 calls for the following
ties to this point

Red Oak 8 N 81° 36' E 27.88'

J.P. 7 N 18° 12' W 82.55'

J.P. 10 S 35° 18' W 61.08'

Scrub J.P. 12 S 43° E 40.00

From the stump of the NE
Red oak + the SE scrub J.P.
we chain in + set a 60¢ spike
for Pats True NE Cor

Then over I.M. $\frac{1}{4}$ Cor bet 8-9-
137-27 Pats SE cor site

Now Pats NE cor. True line
from NE cor chain S 175.
set 60 d. spike + 85 = 260 S ut
60 d spike + 285 = 545 OK.

Then over spike 285 N of $\frac{1}{4}$ Cor
site Now true line Turn L

Harold Curo

Pat (5) Dezella

129

4 acres +- Lot 6 - Sec 8 - 137-27

Sept 2-1949

105°47' and run S 74°13'W
@ 35 ft ut 60' spike point for IM
SE cor of land to be sold + 212.25 =
247.25 spike 60' point for IM SW
cor of land to be sold + 30' = 297.25
bolt in tar road.

Turner bolt in Tar road BS
N 74°13'E on hub 285 N of 1/4 cor
+ run N 21°15'W 158.2 to bolt in
Tar road NW cor of land to be sold
Turner bolt 158.2 in tar road
BS. S 21°15'E and run N 87°09'E
@ 50 ft ut 60' spike point for IM.
NW cor of land to be sold, + 259.11 = 309.11
ut 60' spike NE cor of land to be sold
+ 35 = 344.11 spike on true line
370 ft N of 1/4 Cor bet Sec. 8-9-137-27
point of beg.

Pat takes me to Swanberg
my car will be ready to night

Pat takes me to trailer House
at wood lake. Arrive 11:45

Otto take me over to where
Mike is running road line in

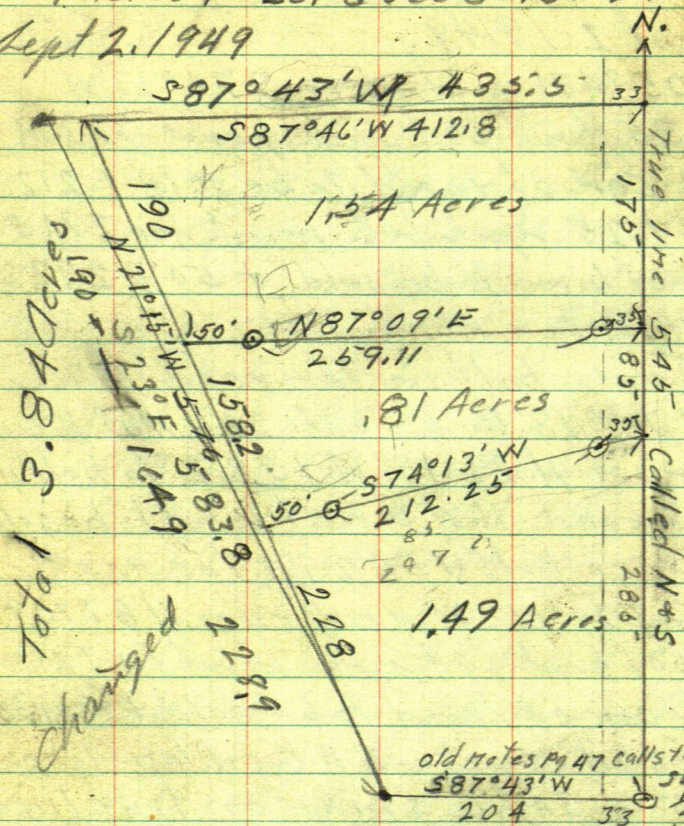
Harold Curo

130

Pat	(6)	Dezella
-----	-----	---------

4 Acres +- Lot 6 Sec 8-137-27

Sept 2, 1949



See plat page 47-55 this book

279. for angle to E & W ∇ through
sec 8-137-27

Harold Curo

Pat

⑦ Dezella

4 acres + Lot 6 - Sec. 8 - 137-27 131

Sept 2 - 1949.

Cass Co. I get my books + Otto
takes me back to trailer House
to figure angles on the lines
Mike + I run yesterday
Mike continues work what
ever he is doing.

I write up these notes on
Pats survey. Then check
figures on Kalvi plot.

Harold Curo

Walker Minn
Sept 3rd. 1949

Mr. Pat DeZella

Cross Lake Minn

Dear Sir:

Here is the description of
the land we have just staked out.

A part of Government lot 6 Section
8 Township 137 N Range 27 W of the
5th P.M. Crow Wing County Minnesota
described as follows. To-wit:

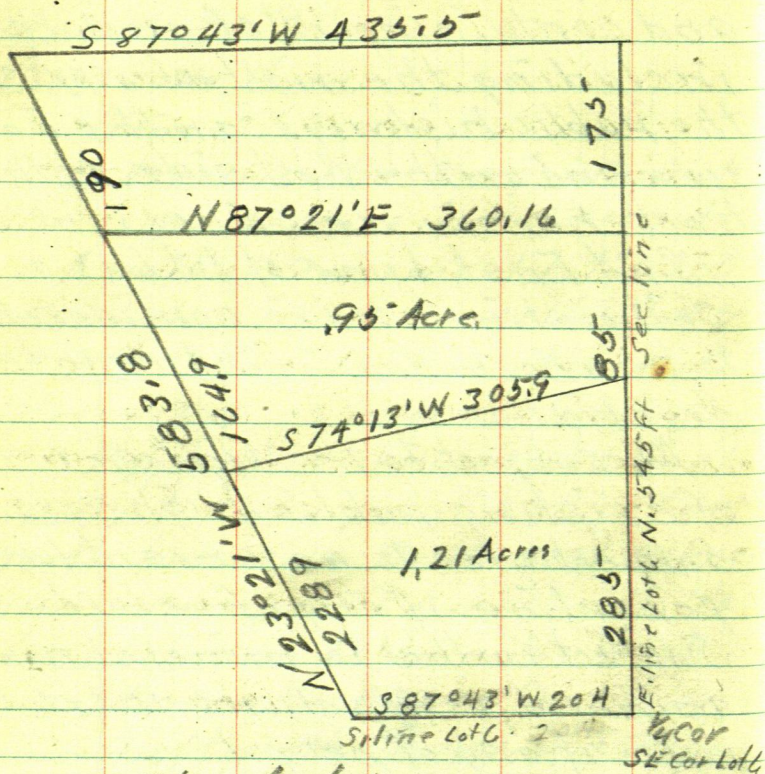
Beginning on the East line of
said lot 6 at a point 285.00 feet
North from its South-east corner
and running Thence South 74°
degrees and 13' minutes West
a distance of 297.25 feet to an
iron bolt in the center of State
Aid Road. Thence North 21° degrees
and 15' minutes West a distance of
158.20 feet to a second iron bolt
in center line of said State Aid Road.
Thence N 87° degrees and 09'
minutes East 344.11 feet to the
East line of said Lot 6. Thence
South following said East line

85.00 feet to the place of beginning and containing .81 of an acre including the right-of-ways of the public highways on the East side and on the West side of the tract herein described.

Said East Line of Lot 6 is a Section line and is considered to be a North and South line in this description.

All subject to the right-of-ways of existing public highways
Subject also to easement for power line if any of record
Subject further to mineral rights, mineral reservations, and flowage rights if any of record.

Change



OK, copy in part

A part of Gov't lot 6 - Sec 8 Twp
137^N Rg. 27^W of the 5th P.M.
Crow Wing Co. Minn described

Begin at an iron pipe on the E
line of said lot 6 at a point
285 ft N from its SE cor & running
Thence S $74^{\circ}13'W$ 305.9 ft
to 2nd iron pipe thence N $23^{\circ}21'W$
164.9 to 3rd iron Pipe Thence
N $87^{\circ}21'E$ 360.16 ft + - to a 4th
iron pipe placed on said E line
of said lot 6. Thence South 85 ft
to place of beg.

Containing 95/100 A. as near as
may be. All subject to right-of-way
of existing public highways
Subject also to mineral rights &
mineral reservations
Subject to flowage rights & power line
easements if any on record
E line is N-S

Freed Lodge
Nov 26-1949 about

I get a phone call from
Richard C. Ebert of
Ryan Ryan Ryan and Ebert
Law office Brainerd Minn
Wants a plat made I tell him
to send a description and
I would try to make it for him

Nov. 27 I get Ebert's letter
In accordance with our
recent conversation, I enclose
here-with a description of the
land known as Freed Lodge on
Rush Lake. We request that in
accordance with our conversation
you prepare a plat showing the
actual boundaries of this property
the amount of shore on Rush Lake
and indicating the description
does not include any shore
line on Cross Lake. We will
appreciate also your including
a statement as to the acreage
contained within this des-
cription

yours very truly

RCE:ml

RC Ebert

The description Ebert sent
Pick up Bill Johnson drive
All that Part of lot six (6) i.e.
Section Eight (8) Township
one-hundred and Thirty-seven
(137) Range 27 described
as follows: Beginning at a
point on the shore of Rush
lake 180 feet North of the
South line of said lot six (6)
Thence in a general
Northerly direction along
the shore line of said Rush
lake to a point where an
artificial ditch intersects
said shore line; Thence
East to a point 320 feet
West of that certain highway
known and described as
Cooley Highway; thence south
along the East side of that
certain road now known and
described as Jenkins - Cross-Lake
road to that road now running
Easterly and Westerly from
Cross-lake to Rush Lake (own)

Description Continued

Thence in a general
Westerly direction along
the N line of said road to
the place of beginning.

Together with an easement
for the purpose of travel
over and upon that certain
road one rod in width
running Easterly and Westly
from Crosslake to Rush Lake
as the same is now located
and used

Nov-18-19-1949

I check over old plats
and old field books and
try to put said Plat
to gether but do not
seem to get any where
I call Ebert. He says to
go ahead and go out
to Rush lake if I have
to.

He wants the plat right

Nov 26 1949

Cold + Windy roads icy
 I Pick up Billie Johnson
 and we drive to Rush
 lake. as building + Trees
 are in the way I set up
 Tower IM 1330.6 W of
 SE Cor of said lot 6 on the
 true S. line of said lot 6
 site E on true line and run
 West 97.1 feet = 1427.7 ft
 west of SE Cor said lot 6
 Tower 1427.7 site E on true
 S line Turn L 90° and
 run N 280 feet
 Tower 280 ft N of S line of
 lot 6 site S on hub 1427.7
 Turn R. 90° and run West
 parallel to S line of said lot
 6. @ 85.03 at hub on brink
 35 feet E of water
 Tower 85.03 site W on hub
 280 N of S line of said lot 6
 and run N $24^\circ 35' W$
 469 ft to a point on S side
 of Canal 22 feet South

of S side of said canal at
100 ft edge of water of Rush
Lake

Traverse 469, which is 10 ft E of water
Take station of Mud Lake N $51^{\circ}30'E$
26 ft S $40^{\circ}30'E$ 35 feet S $42^{\circ}E$
100 feet S $56^{\circ}30'E$ 150 feet S $65^{\circ}30'E$
200 S $86^{\circ}E$ 250 N $79^{\circ}50'E$
275

Point N East RR 5 mi 12½
feet W of Φ far road known
as Jenkins Cross Lake road
run N $13^{\circ}W$ along W side of road
12.5 W of Φ 367.4 feet to A.P.
50 ft West of Cross Lake

Traverse 367.4 + 417 N $11^{\circ}05'W$ 275.3
to A.P. 14 ft W of Φ far and
70 feet W of Cross Lake

Traverse 275.3 + 417 N $11^{\circ}31'E$ 197.75
to A.P.

Traverse 197.75 Take station of Cross
Lake shore line

S $63^{\circ}E$ 170 feet S $44^{\circ}E$ 115 feet
S $5^{\circ}E$ 180 feet stone pillars S side
everglades entrance bears

S $83^{\circ}45'W$ 12 ft said
Pillar is on N side of entrance
to Freed lodge

From AP 197.7 it is 134
steps to Φ Cooley Highway
@ 60 ft E of 197.7 = Φ for
@ 33 ft SE = Φ for

See book 214 page
57 for detail of
old survey

Dec-1949 Friday

I drive to Brainerd
with rough plot to see
Ebert "ACE" goes with me

Ebert shows me what
he wants on plot as .

I did not get the road
E + W between Cross + Rush
lakes. I will have to go
see where it is

Dec. 2 1949

Don & I L + Walker in my Car
Drive to Rush lake

Again over RR spike
12.5 ft S of $\frac{1}{2}$ tar road on
S line Lot 6 Site E over
Cross lake on true S line of
said lot 6 and run N $12^{\circ}43'$
W 380.5 feet to spike 12.5
ft W of Tar and in $\frac{1}{2}$ of old
dism road running west
from Jenkins Cross lake
road

Dec 2, 1949

Tower spike 380.5' run
 $S 77^{\circ} 55' W 144.1$ feet to E
 of old dirt road on top
 of hill.

Tower hub 144.1 Take
 stada of old road
 $S 79^{\circ} 30' W 325$ feet to
 E old road where it stops
 with fence across it
 our spike 280 feet N of st in.
 bears $S 80^{\circ} 15' W 400$ feet + -

The pump bears $S 79^{\circ} 30'$
 $W 325$ feet

Deer

I finish Plat & send same
to Ebert showing right of
way of both Jenkins-Cross
Lake road & Cooley Highway
Right of Way

Then make a mother
and leave out the right
of way lines of the Jenkins
Cross Lake road but show
the $\frac{1}{2}$ of same &
right of way of Cooley
Highway

Week 4 - Later send Ebert
Bill for

Plat	\$30
1 day in field	20 00
1 1/2 help in field	10 00
1 c. Car	5
Total	<hr/> 85 00

Pat Dezella.

Received Letter from Pat
He is having a Low suit
over the road.

Ryan-Ryan-Ryam & Ebert
wants a plat showing the
road. South of Pats buildings

Friday Oct, 13-1950 Pat
comes to Walker I tell
him I will be down Sat 14th
if it does not rain

He says Monday Oct 16-1950
would be best.

Sunday Oct 15th 1950

I take Bert & Kids for a
ride shoot one chicken
home for supper take
Bert to work go to Court House
Look up old note of Pats work
and get ready to leave in
the morning for Cross
Lake.

Pat Dezella Cross Lake 147
Monday Oct 16 - 1950

LV Walker gas \$2.00 drive to
Jenkins to get chain from Mike
Mike is in the city his Dad Ramsey
goes to the farm I follow & get
300 ft chain & plumb bob at farm where
Mike left them drive on to Pat's
at cross lake arrive around 11 o'clock
dig up $\frac{1}{4}$ I.M. between sec. 8 & 9
137-27.

Travel $\frac{1}{4}$ I.M. between sec. 8-9
site W on old bolt set in tar road
on true \odot sec. 8 set row of pins
along True \odot sec. 8. from $\frac{1}{4}$ cor
west to Tar Road Highway every
from I.M. $\frac{1}{4}$ chain W 20 ft. road $\frac{1}{2}$
@ 20 ft W road cut N 26. S 15 $\frac{1}{2}$

@ 30 " "	N 26 $\frac{1}{2}$	S 15 $\frac{1}{2}$
@ 40 " W	N 26.75	S 15 $\frac{1}{2}$
@ 50 " W	N 26 $\frac{1}{2}$	S 14
@ 60 " W	N 25	S 13.75
@ 70 " W	N 29	S 14
@ 80 " W	N 29+	S 14
@ 90 " W	N 30	S 13.5
@ 100 " W	N 30	S 16.5
@ 110 " W	N 26	S 19.5

120 W road cut N 24 S 24.5
 130 W " " N 25 S 31.2
 140 W " " N 26 S 42.5
 150 W " " N 26.6 S 20
 160 W " " N Highway ditch
 170 W " " N

@ 204 bolt in Tar Road Pats
 Cor. according to deed.

PM

Tower bolt 204 W site E on
 1/4 Ven @ 00 road ang.
 bolt 4' W of E + 4' E of Wedge of Tar



Tower 1/4 bet. Sec 8-9-137-27
 site S 87°43' W on True E Sec 8
 and run N 87°34' E on True E Sec 9
 E on center line Sec. 9

@ 33 1/2 road cut S 13 N 17
 @ ⁺⁹⁹ 132.5 " " S 13 N 13
 @ ^{+153.5} 288.0 " " S 13 N 13.5
 @ ⁺¹⁰² 390 " " S 13 N 12.5
 @ 494 " " S 12.5 N 18
 @ 484 " " S 12.5 N 18

T @ $\frac{1}{4}$ bet Sec. 8 & 9 - 137-27

Garage

28.4 N + S

NE Cor N $31^{\circ}15'$ W 71.15

+ 22.2

SE Cor N $46^{\circ}41'$ W 47.62

SW Cor N $61^{\circ}34'$ W 64.66

Cement drive SE Cor N $52^{\circ}05'$ W 43.7

SW Cor N $65^{\circ}56'$ W 61.20

Cement 1.46 above road.

" : 6 ft wide

Lot Sec. 8 - 137-27

Pat and I find our old spikes
on line from $\frac{1}{4}$ cor bet 8-9 - south
@ 24.25. on true line 2" N of light pole
also one 25.4 on .6 offset W the one
@ 245.55. one at 549.6 all on .6
offset W we can not find IM at
NW Cor of 125 ft strip We find old
spike @ 600.9 also the one @ 953.8 all
on offset line .60 W of True line

Supper + over Night with Pat
for Notes re page 20-21 this book

Oct 17-1960 Breakfast with Pat
 Pat goes around cross lake set
 flag at I.M. E of road for B.S.
 I go S to hub 549.6 when I set
 T site N on hub. 245;55. Pat comes
 back and we chain N 16.2 f Hub
 549.6 and set pt. all on .60 offset
 west. We chain E.60 and set a
 2 X 12" pipe for NW Cor 125 ft up
 in Tar road 2 ft E of West edge
 of Tar. we correct this line
 by setting the hub 600.9 S. 8 W and
 .9 N to pt 600.3 of $\frac{1}{4}$ on true line
 bet. Sec. 8-9.

T over 600 S of $\frac{1}{4}$ bet 8-9 on true
 Sec. line run stake line

N 61°10'W 366.75 Sta ①

T still @ 600 Sta da of sand point

250 S 17°22'W - 140 S 46°53'W :

pt. = 110 S 56°W - 100 S 46°W

120 S 31°45'W 120 S 18°37'W

140 S 10°W - 100 S 9°W

75 S 21°10'W 50 S 77°30'W

105 N 74°20'W 210 N 73°W

250 N 70°45'W

Run 366.75 BS S $61^{\circ}10'E$ + run.

Stada Lake Shore Sand beach

140 S $42^{\circ}30'E$ - 80 S $36^{\circ}45'E$

35 S $34^{\circ}40'W$ 55 N $79^{\circ}30'W$

140 N $63^{\circ}W$ Tot 366.75 run

N $28^{\circ}23'W$ 142.65 to Sta (2)

Run Sta (2) BS S $28^{\circ}23'E$ + run
Stada of Lake shore

105 S $87^{\circ}30'W$ 145 N $72^{\circ}10'W$

150 N $60^{\circ}45'W$ 115 N $50^{\circ}40'W$

80 N $48^{\circ}W$ 50 N $26^{\circ}40'W$

55 N $5^{\circ}E$ Run Sta (2) run.

N $27^{\circ}E$ 163.52 to Sta (3) 15 ft E of water

Run Sta (3) BS S $27^{\circ}W$ + run N 138.1 spike
+ 1.20 spike on N line Lot 7 Sec 8

Run spike on True Sec. Line
between Sec 8-9-137-27

1001.6 S of $\frac{1}{4}$ cor Take Stada of shore
line 180 N $26^{\circ}30'W$ 80 N $45^{\circ}W$

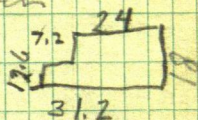
35 S $72^{\circ}35'W$ 105 S $50^{\circ}30'W$

Run hub 549.6 Take Cabin

NE cor N $41^{\circ}58'W$ 131. ft

SE " N $48^{\circ}02'W$ 119

SW " N $55^{\circ}52'W$ 144.6

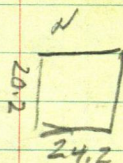


π over bolt in Tar road on E & W
 Sec 8. 204 ft W of $\frac{1}{4}$ Cor. pt
 Sec. 8-9 - 137-27 R.H. S $19^{\circ}26'E$
 216 at spike in E drive way
 3 ft W of Wedge of Tar
 house

NW Cor S $70^{\circ}15'W$ 187.35-

NE Cor S $66^{\circ}41'W$ 166.8

SE Cor S $61^{\circ}17'W$ 178.75-



To do the work I tell Pat
 I will make plat of road
 and Plat of Lots #300
 Oct 17. Pat pays me \$50. cash

$$\frac{33}{26}$$

$$\frac{26}{42\frac{1}{2}}$$

153

1967

April 20 Lr Walker drive to Pals
 at cross lake arriv. @ about 10:30
 I check width of tar on C.A.R. No 9
 and find it 22 ft wide
 Bolt on E+W $\frac{1}{4}$ Sec 8 at 204 ft West
 of $\frac{1}{4}$ Cor. is 7 ft W of $\frac{1}{4}$ of road
 and 4 ft East of West edge of tar
 A bolt in Tar 7 ft W of $\frac{1}{4}$ road
 Site N $87^{\circ}43'E$ on $\frac{1}{4}$ Cor run S $21^{\circ}37'E$
 along Tar road 7 ft W of $\frac{1}{4}$
 Tilt over Bolt in Tar road 7 ft W of $\frac{1}{4}$
 Turn 90° + chain $7+26=33$ W of
 60 ft spike for road right of way + $16\frac{1}{2}$ =
 $42\frac{1}{2}$ net spike
 T still @ bolt in tar 204 W of $\frac{1}{4}$
 run S $21^{\circ}37'E$ 215 ft + set 60 ft spike
 in Tar road 7 ft W of $\frac{1}{4}$ Sta ①
 T over stat in tar road site N $21^{\circ}37'$
 W Turn 90° run SW @ 26 net spike
 = 33 W of $\frac{1}{4}$ @ $42\frac{1}{2}$ net spike = $16\frac{1}{2}$
 ft W of right of way for W side of
 $16\frac{1}{2}$ foot street

Tower Hub 60° spike on E + W &
 243, 15 W of 1/4 bet 8-9 ~ 137-27
 Site W to I Mover Lake turn 90°
 but true Turn R. 6° & run SW
 6°

5174 1045 28

Cosine 994522 into 100 = 100.53 = 105 Kating
Tang 105-104 Sub Lot No

$$99 + 5221 \frac{201.10}{200} = 200 \text{ ft strip}$$
 sub lot No

At 100.55 run E to Street and west
to lake parallel to N line of lot 6.
Over 201.10 run E & W parallel
to E & W of Sec. 8. to Lake and to Street

T over hub $49\frac{1}{2}$ ft from E tar road run W side $16\frac{1}{2}$ ft street following W side of C.A. Road run SW parallel with and $49\frac{1}{2}$ ft westerly of E tar road C.A.R. as there are trees on broad line Iron Viz

Traveler Hub 243.15' W of $\frac{1}{4}$ Cor
on E & W $\frac{1}{2}$ Sec. 8 B.S. E on $\frac{1}{4}$

bet sec 8-9-137-27 and run
 Turn 90° R. hit tree Turn R 60°
 and run 100.55 set pt on line
 between the 2 N Lots

@ 201.10 set spike between
 Lots 1-2 or 6-7

Turn 100.55 BS N 60° E using
 the E & W Φ sec 8 as E & W run
 E and set spikes for string intersection
 with S line of lot and and W side
 of $16\frac{1}{2}$ ft street run west parallel
 with E & W Φ sec 8 and set spike
 on stake line bank of Cross
 Lake

Turn hub 201.10 BS N 60° E
 and run E & W parallel to E & W Φ
 sec. 8. set two spike for string
 intersection of South side of
 lot with W side of $16\frac{1}{2}$ ft driveway
 run West and set spike on stake
 line on lake shore

Turn spike $49\frac{1}{2}$ ft W of Φ
 C.A.R. No site NW to spike
 $49\frac{1}{2}$ ft W of Φ of said C.A.R. No

We set a spike for W side of street
between lots 1-2 or 6-7

also for the corner bet lots 2-3 - or 5-6

We run S E parallel with
C.A.R. No and $16\frac{1}{2}$ ft West
from West side right of way of
said road. @ 60 set spike for

Lot corner + 50 " " "

" " + 50 " " "

" " + 50 " " "

Lot " We run this line
S Westward following C.A.R. No
staying $49\frac{1}{2}$ ft Westward from
same to intersection of
a line run parallel with
and $16\frac{1}{2}$ ft West of the of the E
East Line of Lot 7 or Sec. 8

dinner supper with Pat
over night in one of Pat's
Cabins

All that Part of Gov't Lot
7 section 8-137-27

Lying East of Cross Lake and West of
C.A.R. No 6 -

over night in Pat's Cabin

Margaret D. De Zellar
Patrick C. De Zellar

433-45
3441

27796

389.8

175

19490

2718.6

3898

68,1150

43660

2

87,120

43560

15

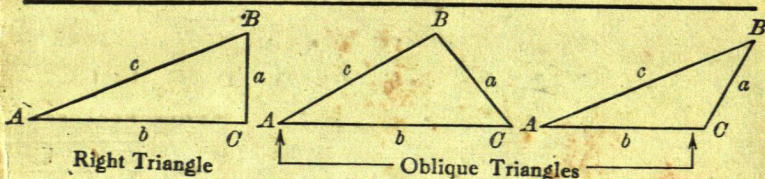
217800

43560

653500

CHAS. R. MURNANE
1106 Commerce Bldg
ST. PAUL, MINN

TRIGONOMETRIC FORMULÆ



Solution of Right Triangles

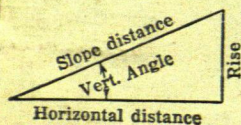
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan = \frac{a}{b}$, $\cot = \frac{b}{a}$, $\sec = \frac{c}{b}$, $\operatorname{cosec} = \frac{c}{a}$

Given a, b	Required A, B, c	$\tan A = \frac{a}{b} = \cot B, c = \sqrt{a^2 + b^2} = a \sqrt{1 + \frac{b^2}{a^2}}$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B, b = \sqrt{(c+a)(c-a)} = c \sqrt{1 - \frac{a^2}{c^2}}$
A, a	B, b, c	$B = 90^\circ - A, b = a \cot A, c = \frac{a}{\sin A}$
A, b	B, a, c	$B = 90^\circ - A, a = b \tan A, c = \frac{b}{\cos A}$
A, c	B, a, b	$B = 90^\circ - A, a = c \sin A, b = c \cos A$

Solution of Oblique Triangles

Given A, B, a	Required b, c, C	$b = \frac{a \sin B}{\sin A}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}, C = 180^\circ - (A + B), c = \frac{a \sin C}{\sin A}$
a, b, C	A, B, c	$A + B = 180^\circ - C, \tan \frac{1}{2}(A - B) = \frac{(a - b) \tan \frac{1}{2}(A + B)}{a + b}$ $c = \frac{a \sin C}{\sin A}$
a, b, c	A, B, C	$s = \frac{a + b + c}{2}, \sin \frac{1}{2}A = \sqrt{\frac{(s - b)(s - c)}{bc}}$ $\sin \frac{1}{2}B = \sqrt{\frac{(s - a)(s - c)}{ac}}, C = 180^\circ - (A + B)$
a, b, c	Area	$s = \frac{a + b + c}{2}, \text{area} = \sqrt{s(s - a)(s - b)(s - c)}$
A, b, c	Area	$\text{area} = \frac{b c \sin A}{2}$
A, B, C, a	Area	$\text{area} = \frac{a^2 \sin B \sin C}{2 \sin A}$

REDUCTION TO HORIZONTAL



Horizontal distance = Slope distance multiplied by the cosine of the vertical angle. Thus: slope distance = 319.4 ft. Vert. angle = $5^\circ 10'$. From Table, Page IX. $\cos 5^\circ 10' = .9959$. Horizontal distance = $319.4 \times .9959 = 318.09$ ft. Horizontal distance also = Slope distance minus slope distance times (1 - cosine of vertical angle). With the same figures as in the preceding example, the following result is obtained. $\cos 5^\circ 10' = .9959, 1 - .9959 = .0041, 319.4 \times .0041 = 1.31, 319.4 - 1.31 = 318.09$ ft.

When the rise is known, the horizontal distance is approximately: - the slope distance less the square of the rise divided by twice the slope distance. Thus: rise = 14 ft., slope distance = 302.6 ft. Horizontal distance = $302.6 - \frac{14 \times 14}{2 \times 302.6} = 302.6 - 0.32 = 302.28$ ft.