

292

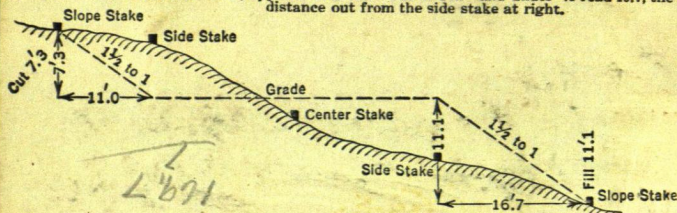
K&E  
FIELD BOOK  
W 360



# DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes  $1\frac{1}{2}$  to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut or Fill
	Distance out from Side or Shoulder Stake										
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

KEUFFEL & ESSER CO., N. Y.

For Curve Tables see end of book.



N<sup>o</sup> 292

185

Note:

Private property  
of JACK Curo<sup>3rd</sup> & Harold  
Curo. Engr's & Surveyors,  
Walker Minn.

Don Curo  
23 19 West Colborne

293, 8 hubert

140.7  
137

91 m 9'48  
9'06

721

98671

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



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57626

Clyde Miller's Green Heaven  
Laporto or Kakkomna L. 6501 from Lake N

Sat. June 1960

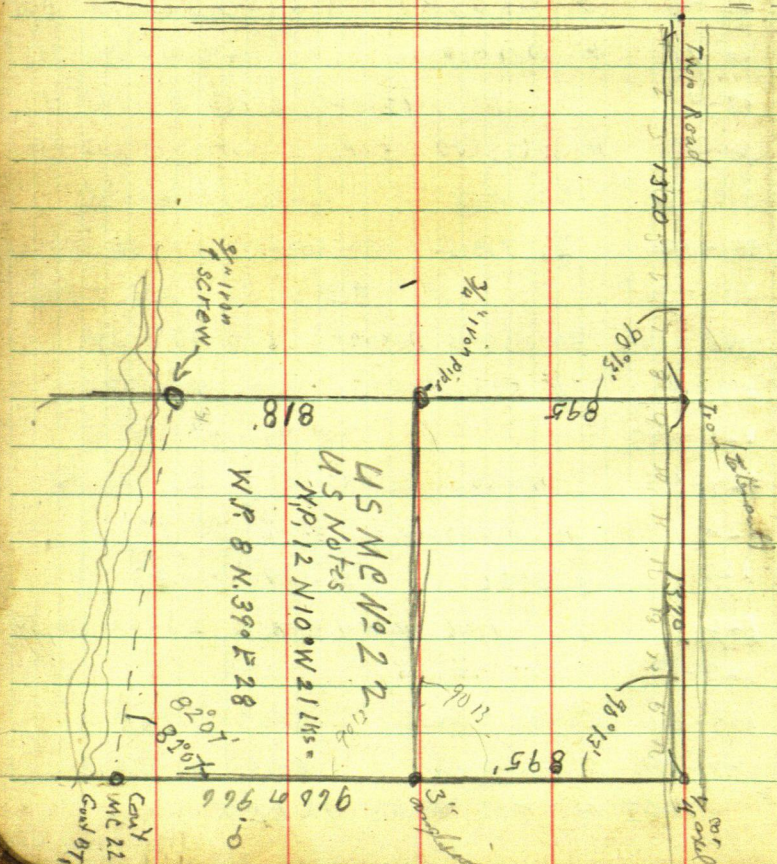
Owens Govt lot 4 Sec 29-143-32  
are find IM cor and  $\frac{1}{4}$  NE cor Lot 4  
set by Dehart-1948 Testies

J.P. 18 S 20° E 24.7

J.P. 10 N 45° W 36.0

J.P. 10 North 12.7

copy Deharts Blue Print





Bob-John-Ed + I Tower IM  $\frac{1}{4}$  E side

see, 29-143-32 mile on BT stop Turn R 20°

Start random Nirs S<sub>i</sub> at 300 pin + 10.05 = 310.05

hub. 300 + 190 = 490 pin + 60.2 - 70 = 543.2 hub

543.2 +

895

1.50

693.2 pin + 60 + 79.9 = 833.1

- 79.9

+ 109.5 hub

60

833.1 hub

942.6

862.3

Tower 942.6 S.I.M Anglon iron bars

S 37°16'E 41.45

Sin 6055.26 X 41.45 = 2510

862.3

32.99

Cos 7958.26 X 41.45 = 32.99

895.29

Z

862.3

2510

32.99

32.99

1.028038 correction

895.29

25,10.0

hub 862.3 S. gr. E 24.18

Have Anglon iron BS on corrected line

+ run S at 300-600 pin + 117.1 = 717.1 hub

offset to get by big W.P. + 100 = 817.1 pin +

170  
9871

996

187

8.9



4

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141-145	F. STEINMETZ	14-141-33
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156-157	C. MAYER	14-140-33
159-160	L. WRIGHT	<sup>FL 4</sup> SW-SL-32 140-34

AUDITOR'S



①

5

Leisey Crossing of Hackensack  
BT SEC 18-19-  
Plot Sept 15 1915 John W. Cress

13° 44'

Tan 24.4 in 100

Fred J. Hughts Lawyer  
210 W. Marys Bldg  
St. Cloud Minn

RR

13° 44'

~~RR~~

76° 16'

USMC 914.90

589° 40' E

NP RR

1 1/4 2 1/4 X 48 IN

1 1/4 1323.30

County Rd 1/2

6

JACKCUTO ② Harold rod

Oct 6-1948 Leisey Crossing  
H x B x Perfect adjustmentSta East of RR  
BM + S HI - S Elev

100.00 1.38 101.38

0.05 Eq 4 of RR 1.80 99.58

+25 E 2.25 99.13

+40 E 2.80 98.58

+50 E 3.88 97.50

9.10

1-00 13.30 88.08

1+60 13.0 88.38

22+50 12.5 88.88

West From RR Crossing

Sta

BM 1.38 101.38 100.00

0.05 1.65 99.73

-45 1.75 99.63

1 6.80 94.58

2 10.00 91.38

Note: Gravel Road 12" wide  
on top



Leisey Crossing  
Herbert Leisey "Lasey"

East Rail B.M. El 100.00  
assumed datum

① Road going East from R.R.

- S 6.70 2/11s 20°N 12.5

20° S 4' 20" 6 ft. full 20°N

② Co Road

③ To Road

N

Rails 11.92.00

Intersection Co Road and RR X

Going West on Co Road

Meet Mrs. Sheldon

also Mr Burgess claims  
adjust for RR Co. Res Brainerd

8

4

October 13-1948 Wed

Court resumes

Mr Hughes called at office  
in Ctho about 9-AM

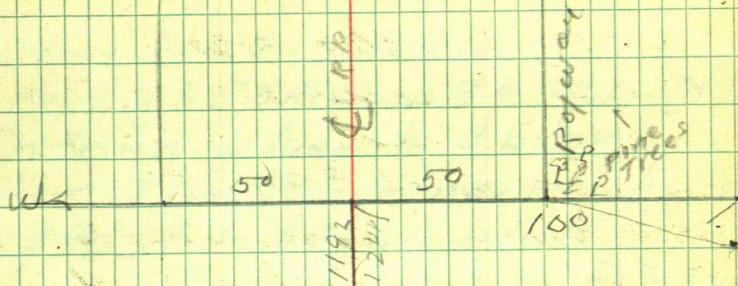
May Call me to the stand  
to ask How far East of track  
is foot of hill - 100.

How high rails above foot of Hill 12

Visibility begins 50 ft E of RR



(5)



N 13° 44' 00"



10

6

Profile of  
Leisey Crossing Hackensack  
Cass Co Minnesota



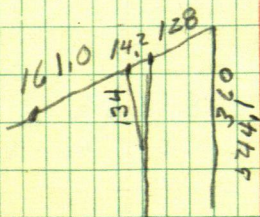
lots 1-2

Stine Sec. 26-139-26

Runs  $N 88^{\circ} 54' E - 544.1$  from Pt  
for corner intake to SE Cor  
from Pt for Sec. Corner intake  
 $184.1$  ft to IM on bank  
from IM on Bank to SE Cor  
 $360$  ft.

from SE Cor run  $N 10^{\circ} 51' W$   
@  $128$  ft IM NE cor lot 1 run  
 $S 88^{\circ} 54' W$  parallel with South  
line ——— ft.

from NE cor Lot 1 run  $N 10^{\circ} 51' W$   
 $14.20$  ft to NE cor lot 2 run  
S - - - thru IM on R of Wayline  
to  $\Phi$  State Highway No 6 @  $134.8$  ft  
from IM NE Cor lot 2 to IM on  
R of Way +  $69.9$  to IM W side  
of road.



Tower IM NE ~~NE~~ cor Lot 1 site  
 N 88° 54' E on SE cor  
 at line of apices @ 69.9 from  
 IM E end. St. Hy. N° 6

find a  $\frac{1}{2}$ " rod iron

Tower  $\frac{1}{2}$ " iron rod site N 88° 54' E  
 on IM NE cor lot 1

Cor. rock. 4 E of 90°

18" x 18" 1.3 S  $\frac{1}{2}$  N edge

Sec. rock S 52° 30' W 4.5

3rd rock S 78° 30' W 14.6

4th rock S 85° 30' W 17.1

5th " S 86° 45' W 24.3

Pass 3 ft ~~ft~~ of first rock

runs S 7° 15' E 26.3

" S 20° W 41.3

ice house

S 29° 55' W 143.3

S 33° 49' W 129.4

S 40° 58' W 141.8

17.9 x 21.1

Cape



Cape

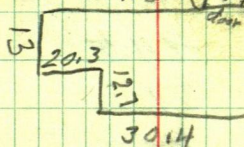
S 24° 37' W 80.8

S 21° 49' W 60. - 2.4

S 9° W 54.5

S 5° 41' W 105.3

51.8



Cas Pumpas

S 2° 03' E 90 - 2.8 = 87.2

S 2° 24' E 80 - .9

(12.5° W)

(-24°)

Run 10. 2° 11' 43  
113° 59' 41

rail

S 11° 14' E 95.4

S 12° 23' E 85.5

S 14° 12' E 76.

From NE cor lot 1 to IM W side of  
road 205.3 + 143.5 to IM NW cor  
lot 1

134  
699  
2039

Tree  $\phi$  8"

N 83° 04' W 41.2

## Narrows Cafe

NE Cor 35° 94.8

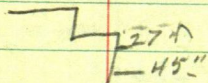
N 35° 37' W 94.8

N 41° 57' W 71.2

N 50° 58' W 78.2

N 56° 55' W 68.6

N 63° 52' W 77



$$\frac{45}{27} = 1.67$$
 window 45 wide

Int IM W of road

Heads across street window

N 29° 20' E

N 28° 20' E

40 ft W of IM N 41° 50' E

N 40° 37' E

Pumps Cas

N 32° 04' E 92.8

1.8 x 13

N 37° 41' E 88

Ante Pump O N 34° 26' E 91.7

1.2

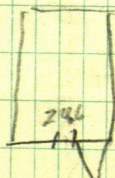


## Road Curve.

S 21° E	140 - 2.8	
S 23° 10' E	130 - 1.4	
S 25° 33' E	120	
S 28° 27' E	111.4	✓
S 31° 12' E	103	✓
S 34° 15' E	94.4	✓
S 37° 55' E	86.3	✓
S 41° 52' E	78.	✓
S 46° 30' E	70	
S 52° 00' E	62.3	
58° 33' E	55-	
67° 20' E	48.7	
78 18	42.7	
	4.2	

## House -

S 73° 16' E	104.6
S 87° 18	100 - .4
S 88° 52	140 - 1.9



12.3 ft door

From NE corner of  
Cape. chain South

@ 9.8 door - @ +18.5 door

+ 5.6 <sup>32" door</sup> end of rock, lat door  
rock start ft 3 of cor.

2 ft out from N end

2 1/2 along E side

rec'd \$50.00 on account

Wm Riley  
of Riley's Motor Inn  
Outing Minn.



Book 92 pg. 316

Warren P Ballard  
to

Arnold Schoon & wife Q.C.D.

The S 20 rods of Gov't Lot 8 Sec 7-140-33

Book 106 page 27

NE  $\frac{1}{4}$  of NE  $\frac{1}{4}$  all of Gov't Lot 8 except  
RR R of W Lot 1 all that part of  
Lot 2 and W  $\frac{1}{2}$  of NE  $\frac{1}{4}$  lying N  
of RR R of W

Norma A Johnson Q.C.D.

Lot 7 Sec 7 & Lot 5 Sec 8,

Apr. 27-1916 - Todd

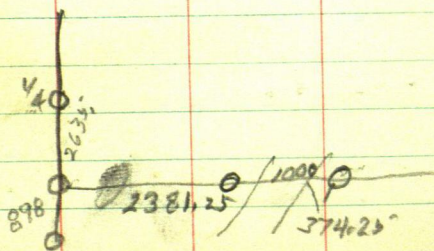
$\frac{1}{4}$  W. 1/2 Sec 7-140-33

NP 18 N 82° W 31.50

2635' S. to cor Sec. 7-12-13-18

NP 12 N 20° 30' W 109.80

NP 10 S 51° 45' E 93.75



333 4P.6

K.P. 827

Sav. 19

Apr. 16-1958

Bruno Shwarzec

Ed + I to Noris where we meet

drive to approx NE Cor Sec 7

140-33 where we find Road stake

Marked Sec. Cor. 323 + 415 save 22

drive West to intersection of cross

roads N-S - E-W find Highway stake

Sec. Cor. 285 + 71.9 45

Lars + Edna Rorner  
to

Bruno Shwarzec

approx 214 acres  $\pm$  22 acres on Beltsin

Lake about 1300 ft of Lake shore

508' from Tract to N<sup>1</sup>/<sub>4</sub> bet 7-8

Elbow Lake



Kenneth W Casey  
Louise N Casey

21

Description

The  $E\frac{1}{2}$  of the  $SE\frac{1}{4}$  of the  $NW\frac{1}{4}$  Sec. 21  
Twp 140-R9c34

Except that portion thereof bounded &  
described as follows to-wit

Commencing at the NE cor. of the  $E\frac{1}{2}$  of said  
 $SE\frac{1}{4}$  of  $NW\frac{1}{4}$  (Note this cor is  $\frac{1}{16}$  Center  $N\frac{1}{2}$  Sec 21)  
thence extending S- (on NTS  $\pm$ ) approx. 715 ft  
 $\pm$  to the Northerly edge of Long Lake. thence  
following meander line of the N. edge of  
said Long lake (No such thing here) in a  
generally Southwesterly direction to the  
West line of said  $E\frac{1}{2}$  of  $SE\frac{1}{4}$  of  $NW\frac{1}{4}$   
thence Northerly along said W line to the N  
line. Thence E. along N line to place of  
beginning

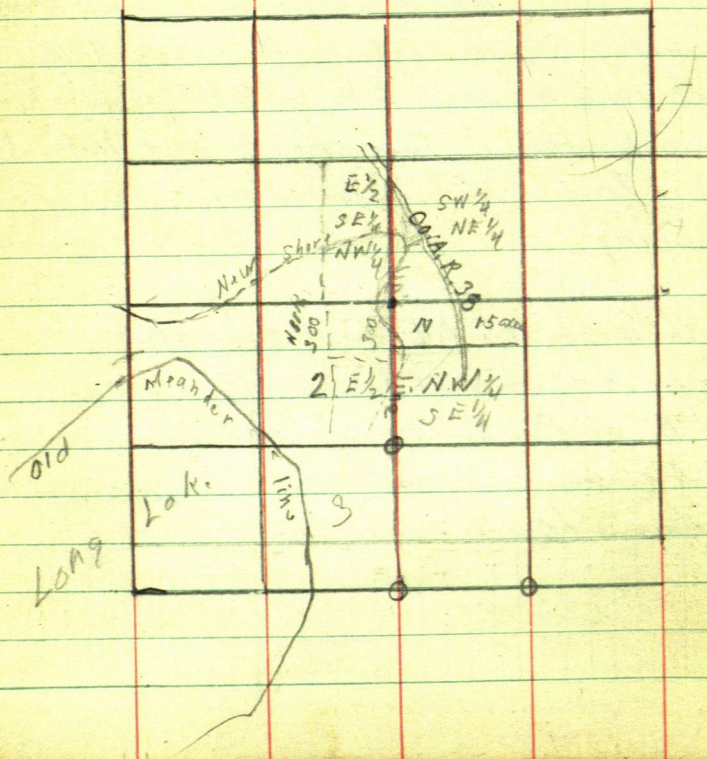
$SW\frac{1}{4}$  of the  $NE\frac{1}{4}$  of sec. 21-140-34  
except that part thereof lying & being  
N+E of Co. Aid Road N<sup>o</sup> 38 as now located  
over & across said land. The tract conveyed  
contains 16.07 acres  $\pm$

## Description Continued

The N 15 acres of the NW  $\frac{1}{4}$  of the SE  $\frac{1}{4}$   
 Sec. 20 - 140-34 except that portion  
 thereof lying North and E of Co. A. R. 38  
 containing 12.3 acres  $\pm$

That part or portion of the E  $\frac{1}{2}$  of  
 Gov't Lot 2 Sec 21 - 140-34 which lies  
 within the North 300 feet of said  
 Gov't Lot 2

Sec 21-140-34





45.1 190.3  
70 4 (23)

April 16 - 1958

Ed + I drive to Park Rapids  
where we meet Kenneth + Louise Casey  
We go to court house check deed drive  
to sec 21 find I M Center Sec 21.

Mrs Casey gives me \$40 on account  
I am to be back tomorrow

April 17 1958

I Lr walker drive to Sec 21-140-34  
where I meet Kenneth Casey +

Town NE Cor Govt lot 3 site Son  
iron and run N  $49^{\circ}37'E$  115.1 to ①  
Town ① B.S.S  $49^{\circ}37'W$  run  
N  $35^{\circ}33'E$  153.0 to sta 2

Town 2 B.S.S  $35^{\circ}33'W$  run 153.0 to sta  
N  $7^{\circ}35'E$  186.3 to sta 3

Town 3 B.S.S  $7^{\circ}35'W$  run  
N  $24^{\circ}57'W$  242.2 to sta 4

Town 4 B.S.S  $24^{\circ}57'E$  run 242.2  
N  $2^{\circ}18'E$  284.8 to sta 5

Tower 5 BSS  $2^{\circ}18'W$  run

I.M. set by Wilsey for S line  
of N 15 arc strip bears  
S  $67^{\circ}04'W$  77.8.

Still at 5 run

N  $12^{\circ}21'W$  143.25 to 6

Tower 6 BSS  $12^{\circ}21'E$  & run

N  $12^{\circ}17'W$  334.8 to I.M.

Center of sec. 21.



## Fig. Travis line

Sta O to IM  $\frac{1}{4}$  Center S  $\frac{1}{2}$ run N  $49^{\circ}37'E$  115.1 to 1Sine  $761727 \times 115.1 = 87.67 E$ Cosine  $647898 \times 115.1 = 74.57 N$ run N  $35^{\circ}33'E$  153.0 to 2Sine  $581413 \times 153.0 = 88.96 E = 176.63 E$ Cosine  $813608 \times 153.0 = 124.48 N$ 

199.05 N

run N  $7^{\circ}35'E$  186.3 to 3Sine  $131968 \times 186.3 = 24.59 E = 201.22 E$ Cosine  $991254 \times 186.3 = 184.67 N$ 

383.72 N

run N  $24^{\circ}57'W$  242.2 to 4Sine  $421827 \times 242.2 = 102.17 W = 99.05 E$ Cosine  $906676 \times 242.2 = 219.6 N$ 

603.32 N

run N  $2^{\circ}18'E$  284.8 to  $\frac{1}{4}$  5Sine  $040132 \times 284.8 = 11.43 E = 110.48 E$ Cosine  $999194 \times 284.8 = 284.57 N$ 

887.89 N

IM sets S  $67^{\circ}04'W$  77.8Sine  $920959 \times 77.8 = 71.65 W$ Cosine  $389660 \times 77.8 = 30.32 S$

26

run N  $12^{\circ}21'W$  143.25 sta 6

$$\sin 213883 \times 143.25 = 30.64 W$$

$$\cos 976869 \times 143.25 = 139.94 N$$

1027.83 N

run N  $12^{\circ}17'W$  334.8 to IM Center Sec

$$\sin 212746 \times 334.8 = 71.23 W$$

$$\cos 977108 \times 334.8 = 327.14 N$$

1354.97 N

IM Center sec 21 sets 8.61 E

$$8.61 \div 1354.97 = 0063543842$$

$$= 0^{\circ}22'$$

 $0^{\circ}22'$ 

$$\sin 006399 \times 1354.97 = 8.67$$

$$\cos 999980 \times 1354.97 = 1354.94$$



Apr 18 - 58

Tower IM Center Sec 21-140-34  
 Site S.  $12^{\circ}17'$  E on sta 6  
 run S  $0^{\circ}22'$  W on N+S  $\frac{1}{2}$  106.7  
 20 N of water  
 run N @ 56.9 hunk.  
 Tower 56.9.

Tower 56.9 Take state of shore  
 N+S  $\frac{1}{2}$  North  
 #30 Lake 10 W of IM. 106.7 S of Center  
 130 S  $34^{\circ}30'$  W  
 173 S  $36^{\circ}15'$  W  
 170 S  $62^{\circ}$  W  
 225- S  $76^{\circ}30'$  W ✓  
 155- S  $84'$  W  
 100 S  $87^{\circ}$  W  
 100 N  $72^{\circ}$  W  
 125- N  $70^{\circ}$  W  
 95- N  $49^{\circ}$  W  
 160 N  $7^{\circ}$  W

Tall as 56.9 continue N+S  $\frac{1}{2}$   
 + 288.2 = 355.1 hunk on map shore  
 100' W 20 N open water 50 N

28

$$\begin{array}{r} 985.3 \\ 141.7 \\ \hline 1127.0 \end{array}$$

$$\begin{array}{r} 300 \\ 408.2 \\ 577.1 \\ \hline 1285.3 \end{array}$$

Tower 355.1 continue N+S & North  
222 stands over lake to hub:

577.1 hub over arm of lake.

Tower 577.1 to be stands of  
arm of lake

180 S 8° E

140 S 74° E

215 N 84° 30' E

400 N 84° 30' E

370 N 70° E

330 N 68° E

190 N 63° 30' E

30.

130

from 577.1 chain N 300 + 108.2 =  
408.2 + 577.1 = 985.3 hub on old  
road. + 141.7 = 1127.0 split in &  
highway 38 C.A.R. Tan.

Tower 1127.0 site S on N+S & run

Tower 1127.0 in & CAR 38 site S

run S 64° 40' E along & road.

300 + 301 = 601

Tower 601 run S 55° 50' E 177.4

Tower 177.4 run S 36° 31' E 229

Tower 229 run S 22° 13' E 679.0

Tower run S 21° 55' E 490.1

to yuh about on Wilsie's 495 ft line



181

165  
165  
330

29

30

Park Rapids

April 23-1958

Mileage Gas Station

Frank A Motley & Melinda T.  
to

Frank Donnay &amp; Barbara

WD filed May 10-1956

Lots 8-9-10 and 11 of B1K-1

Auditor's Plat No 2 in the

Village of Park Rapids

50 | 39.5

Second St. North

80

36

140

20

20

50 50 50 50 50 50

14 13 12 11 10 9 80

+ √ √

50 50 50 50 50 50 285 33

First St  
178.5  
23.1  
IM19.4  
128.41/4  
Stone house



$$\begin{array}{r}
 02894737 = 6751^{\circ}40' \\
 395 \quad 380 \overline{) 11.0} \\
 \underline{295} \phantom{0} \\
 11 \phantom{0} \\
 \underline{285} \phantom{0} \\
 175 \phantom{0} \\
 \underline{33} \phantom{0} \\
 211.5
 \end{array}$$

(31)

Tower SE cor lot 8 BIKI Auditors Plot  
 site W on SW cor Lot 11. - BIKI " "  
 Cor of Bldg. bears N  
 N  $0^{\circ}49'E$  N E Cr  
 N  $3^{\circ}04'W$  24.1 S E Cor  
 I.M. R/W " S  $67^{\circ}55'E$  65.6

Tower SW cor Lot 11  
 SW cor bldg. bears N  $64^{\circ}55'E$  72.4

Back at SE cor Lot 8 take  
 ramp platform.  
 W end S  $84^{\circ}23'W$  44.6  
 E end S  $79^{\circ}52'W$  32.8

32

LAVENE VINCENT

Hackensack Minn.

Little Wolf Lake Hubbard

County Minnesota part of

fractional Lot 3 Section 1

Township 145<sup>N</sup> Range 32<sup>W</sup> of the5<sup>th</sup> P.M. Hubbard County Minn.

within the following metes & boards  
 beginning at the NE corner of Lot 3  
 being a 2" capped I.M.; thence Southerly  
 along East bounds of said Lot 3  
 being also the common line between  
 Hubbard & Coos County 1100 feet  
 to the North shore of Little Wolf  
 Lake; thence angling to the Right  
 following and along said Lake shore  
 line as it meanders westerly to the  
 intersection there of with the west  
 bounds of said Lot 3; thence angling  
 to the Right following and along the  
 said west bounds 209 ft to an I.P.  
 Mon.  $\frac{3}{4}$ " in diam. set on said line  
 from which an

Elm tree 9" in Diam bears South  
 $40^{\circ}45'$  W a dist. of  $24\frac{1}{2}$  ft  
 this tree is identified by an as being  
 near the roots



another Elm. tree 16" diam with axe  
blazes bears N  $13^{\circ}$  W 30 ft dist.

a black ash tree 7" in diam marked  
with an axe blaze near roots bears N  $52^{\circ}$  30'  
W a distance of  $19\frac{1}{2}$  ft.

from thence angling to the right  $52^{\circ}$   
on to a right line 290 ft. to an I.P.  $\frac{3}{4}$ "  
of an inch in diam planted at a point  
at the West edge of a cleared ground.  
and being 175 ft North of the aforesaid  
lakeshore line thence angling to the R.  
 $90^{\circ}$  on to a right line 300 ft. to an  
I.P.  $\frac{3}{4}$ " diam planted at a point

from which the S.E. corner of the Kitchen  
part of the residence of Lewis J.  
Lorson bears N  $83^{\circ}$  15' W  $12\frac{9}{10}$  ft  
and a Jack Pine tree 14" in diam  
bears N  $20^{\circ}$  E 38.2 ft. this tree is  
identified by an axe blaze near roots  
from thence angle to the R. on a right  
line 440 ft to an I.P. 1" in diam  
at a point that is 300 ft on a right  
line West of the aforesaid East  
boundary of said Lot and 250 ft  
North of the aforesaid lakeshore  
line

34 Little Wolf Lake

thence angle to the L onto a right line that bears parallel to and with the said East bounds 700 ft to the North bounds of said fractional lot; thence angling to the R. on to and following said N. bounds 300 ft to the place of beginning & containing 11.3 acres & being a part of the aforesaid fractional Lot 3.

Subject to the right of the U.S. of America to construct and maintain ~~a~~ dams for the purpose of creating reservoirs in aid of Navigation act. of June 7-1897 - 30 - Stat 67 also subject to the reservation of Lewis J. Larson for right of way across said premises



July, 15-1958

John - Ed & I drive to Little Wolf Lake where we open up the East line along a fence line we set a flag at the I.M. at the NE corner of lot 3 Sec. 1 Twp 145 - Rge. 32 also a flag at I.M. M.C. on the seawall of Little Wolf Lake

work on line between said flags and set 60 ft spike hubs along said true line being the County line between Cass and Hubbard Counties from NE cor. we chain South along said line being E line of said Lot 3.

at 102 cross wire fence NW, SE along R/W of road.

at 160  $\pm$  said road NW, SE

@ 215  $\pm$  of County road SE NW

@ 242.8 hub 60 ft spike

6 ft N + .5 E of corner post of fence which run S along line & SE along R/W of said County road

36

<sup>599</sup>  
 Little Wolf Lake

$242.8 + 164.8 = 407.6$  hub 65' up  
 $+ 81.4 = 489.0$  hub  $+ 129.5 = 618.5$   
 hub  $+ 239.5 = 858.0$  hub  $+ 40 =$   
 $898.0$  min  $+ 170 = 1068$  min  $+ 50.7 =$   
 $1118.70$  T M M C on seawall of  
 Little Wolf Lake 15 ft from water

127

129.1

858.0 hub

236.1

209

47.1



July 16 - 1958

Ed + I to Cross Lake where we  
stop to see Pete Myer's U.S. Forest  
Ranger who sends us to Hills hand  
ware store for 1 qt of Red Paint

We drive to Little Wolf Lake  
where we check IM 209 N of IM on  
seawall. Deed call for. Tries to IM 209

Elm 9 S  $40^{\circ}43'W$  24.5 ft

Elm 16 N  $13^{\circ}W$  30 ft

B/H Ash 7 N  $52^{\circ}30'W$  19.5 ft

Straighten up IM on seawall  
work on line between IM on  
seawall and IM recorded 209 ft  
N.

from IM on seawall chain N  
127 ft hub on ridge + 129.1 -  
23' 6.1 ft

Tower pt 4.7 ft S of hub 127  
Lake cabin S  $16^{\circ}35'E$

NW cor S  $16^{\circ}35'E$  45.5

NE cor S  $37^{\circ}15'E$  39.8

SE cor S  $40^{\circ}19'E$  57.9

38

$$\begin{array}{r} 100 \\ 399 \\ \hline 401 \end{array}$$

39.9

Little Wolf Lake

Tower I Mon seawall 20 ft N of  
water site North on hub 127  
and run stake line on seawall  
run  $N 53^{\circ} 08' E$  225.6 - pit. A.P. 12 R  
@ 100 spik water 12 R 200 spik water  
@ 225.6 water 15 R

Tower 225.6 BS S  $53^{\circ} 08' W$  run  
 $N 51^{\circ} 37' E$  @ 74.4 spik water 12 R  
@ 174.4 spik water 15 R  
+ 34.9 = 209.3 hub A.P. 15 R

Tower A.P. 209.3 BS S  $51^{\circ} 37' W$   
run  $N 58^{\circ} 43' E$   
@ 60.1 spik hub.

@ 160.1 " " A.P. Water 20 R

July 22 - 1958

Geert & I to Cross Lake stop at  
Pino River supper & show at Pino River  
stop on the way home at Vincent's  
res. he is not home Mrs. Vincent's goes  
to his Office and Hackensack and get  
a key for me to one of the Cabins at  
Little Wolf Lake where I will stay  
over night while working



July 23 1958

Vincent calls me at my home says  
he will be out to Little Wolf Lake  
this afternoon or to-morrow

Ed + I go to court house where I  
get the things I need start for Cass  
Lake remember we have no blankets  
to stay over night drive back to Walker  
for same on to Cass Lake stop at  
Treat get grub for dinner on to  
Little Wolf Lake. The Key Mrs Vincent  
gave some does not fit last cabin  
but I have one that fits  
open windows to let cabin air out  
at 10-30

we go to hub AP 160.1

T over 160.1 BS  $55^{\circ}43'W$  on AP.  
and continue strike line Little Wolf  
Lake

we cut out strike line along shore  
to I M on County line Go eat  
P.M.

T still over AP 160.1 check back on  
hub  $55^{\circ}43'W$  run

over

Take compass to corner of  
main lodge

NW cor.  $N 38^{\circ} 12' E$

SW cor. behind Birch tree about  $N 42^{\circ} 30' E$

SE cor.  $N 50^{\circ} 20' E$  205.13

@ 75' water 12 R

run.  $N 71^{\circ} 13' E$  205.15

@ 75' water 12 R. - @ 205.15 water 20 R

from 205.15 BS  $S 71^{\circ} 13' W$

Take compass to main lodge

SE cor. bears  $N 4^{\circ} 54' W$

SW cor. "  $N 35^{\circ} 23' W$

small cabin on shore

SE  $S 88^{\circ} 21' W$  82.5 103' x 14.3'

SW  $S 86^{\circ} 25' W$  96.5

Tide at 205.15 run  $S 65^{\circ} 23' E$

at 65' water 3 ft R @ 140 to 160

edge of water at 216.7 A.P. water 6 R

From A.P. 216.7 BS  $N 65^{\circ} 23' W$  run

$N 89^{\circ} 48' E$  67.45 A.P. water 4 R

From 67.45 BS  $S 89^{\circ} 48' W$  run

$S 78^{\circ} 52' E$  77.2 A.P. water 6 R



Tower 77.2 BS N  $78^{\circ}5'2''$  W run  
S  $88^{\circ}49'E$  71.1 A.P. water 10 R

Tower 71.1 BS N  $88^{\circ}49'W$  run  
S  $64^{\circ}05'E$  69.2 A.P. water 12 R.

<sup>Tower</sup>  
<sup>to</sup> <sup>the</sup> <sup>line</sup> Tower 69.2 BS N  $64^{\circ}05'W$  run  
S  $43^{\circ}33'E$  114.1 A.P. water 10 R

Tower 114.1 BS N  $43^{\circ}33'W$   
I M MC bears S  $65^{\circ}08'E$  73.3

Tower I M BS N  $65^{\circ}08'W$  hub  
on County line bears N  $3^{\circ}31'W$

We set T over I M 290 ft from W  
line on an angle of  $52^{\circ}R$  from said W line  
turn  $9^{\circ}R$  into I M. 300 ft Distance  
turn  $9^{\circ}L$  Transit telescope and run  
SW to I M on W line of Lot 3

we go to Cass Lake for supper and  
5# 609 spikes & file we had one spike  
left so needed more to run E road

July 24-1958

Vincent come out we look  
over him

Ed + I drove to NE Cor Lot 3 Sec 1  
Tower NE Cor site S on County  
line. IM shown me to be the  
IM 300 ft west bears.

585° 34' W

I M

Tower I M S. 1/4 N 85° 34' E  
4 runs South parallel to West  
line

From NE Cor chasin W @ 20 cross  
road N+S



at 130 ft road North @ 162  
ft main road in curve.

Q 301.

585°34'W 301'

Sin  $99700.8 \times 301 = 300.$

$\cos 77.299^\circ \times 301 = 23.27$

$$\begin{array}{r} 499.27 \\ - 120.0 \\ \hline 379.27 \\ + 10.4 \\ \hline 389.67 \\ + 12.27 \\ \hline 401.94 \end{array}$$

5259

$$\begin{array}{r} 700 \\ 5-2197 \\ \hline 178.03 \end{array}$$



July 25 1958

Take Ed's car to Hackensack Garage  
Ed & Bert + I eat at Hackensack  
back to Walker Bert + I to Bemidji  
Back to Walker stop and get shoes at Car  
Lake

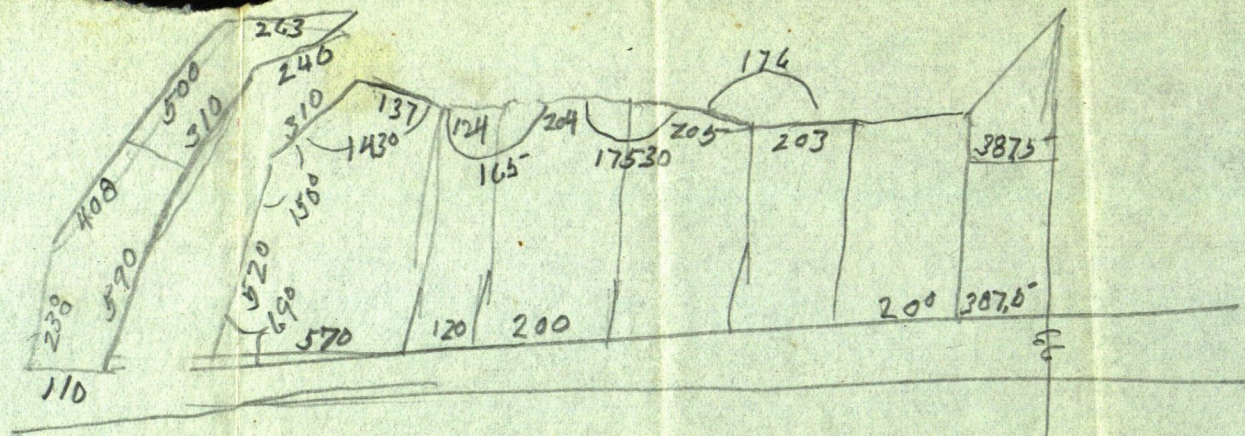
Bert goes to work I go to Court House  
get my things Ed + I to Cass Lake  
where we get supper, on to Little  
Wolf Lake

Tower hub on N + S line parallel  
with and 300 feet W of sec line  
containing hubbing line South  
from IM South of road chain S  
@  $178.3 \text{ hub} + 120 + 200.4 = 498.7 \text{ hub}$

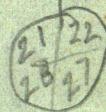
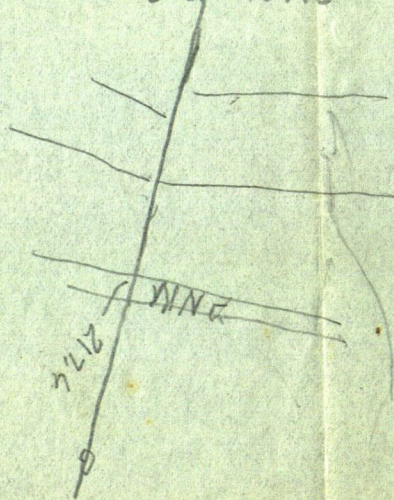
521.97  
178.03  
700.00

over night at cabin at Little Wolf  
Lake





Akeley Industrial Gardens.





196

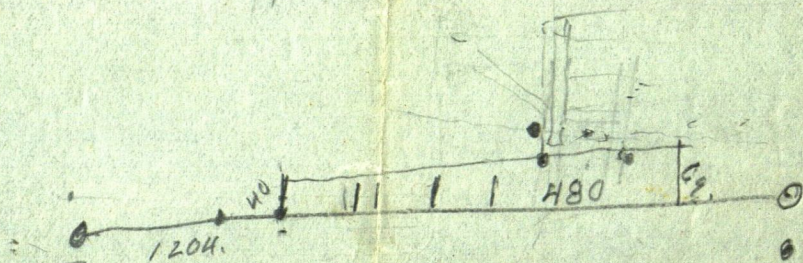
236

sec 3 - 140-33

36

176

F



~~20-29~~

378

143

sec 34 - 147

141-33



44<sup>25</sup>

on Back line of Tract

July 26 - 1958

E &amp; I at Little Wolf Lake

Tower IM NW cor of Tract

Site South on sp. of ridge

run N  $57^{\circ}03'$  E 289.8 to IMNote: IM under Kis 43 ft N  
of old road.Tower IM 289.8 BS S  $57^{\circ}03'$  Wrun. N  $65^{\circ}47'$  E 299.15 to IM

near corner of Larson's house.

Work on line between IM by house  
and IM on line 300 ft W + 700 ft S of NE  
cor. Lot 3,Back on IM by house BS S  $65^{\circ}47'$   
W + run N  $84^{\circ}39'$  E

@ 72.05 hub in line with W side of house

140.5 N of NW cor in line with wall

@ 97.6 hub in line with wall of house

4.7 N of cor. nr of house in line with wall

@ 127.25 hub in line with E side of house

8.9 Nol. cor of house in line with wall

@ 151.95 hub on top

+ 17.3 hub .15 N of I.M.

+ 91.8 hub

x



hub 151.96-

+ 17.3

169.25 + 110

110

279.25

+ 140

439.25

+ 115

440.40

point of intersection of W300  
ft. line on back line of Lots

2.6 N of 700 South

## Run road

Tower hub on E line lot 3 at hub

242.8 S of NE Cor. site N 3°31'W on IMNE

at hub N along E line 39.3

Tower 39.3 site N 3°31'W along line + run  
road (in curve)

S 85°30'W @ chain along 150 L &amp; E

at 193.4 hub 10 ft L

Tower 193.4 BS N 85°30'E run

S 44°33'W @ 95 L @ 55 L R 1.5 @ 73 L

92.5 hub 5 L

Tower 92.5 BS N 44°33'E run

S 1°26'E 187.3 hub in L @ 20 ft L

@ 312.95 = P.I.

Town 187, 3 BS N  $1^{\circ} 26' W$  run

S  $0^{\circ} 14' W$  @ 240 - B.C. @ 300 m

@ 312.95 = P.I. of Road

pt. 700 S  $9^{\circ} 11' W$  300 W of E line beam

N  $20^{\circ} 57' W$  42.3 @ @ 32' E

27' E P.I. to Curve

run S  $82^{\circ} 59' W$  171.85 @ 80 E.C.

N Stado

S  $76^{\circ} 41' W$  175.

Town 175 - run S  $82^{\circ} 33' W$  96.5 <sup>E side road</sup>

208. S  $77^{\circ} 56' W$

Town 208 BS N  $77^{\circ} 56' E$

pt 96.5 beam N  $73^{\circ} 58' E$  113

run S  $50^{\circ} 19' W$  615

S  $50^{\circ} 19' W$

5-13

Swamp



Monday

John - Ed & I drive to Little Wolf  
lake Check & re-run shore line  
Tower I.M.M.C. SE corner of Govt  
Lot 3. Accl-145-32  
Site N along E line of said Accl  
being the County line between Cass  
and Hubbard Counties

run

N. $61^{\circ}38'W$	73.3	total Tower 1 BS $S61^{\circ}38'E$ run
N $40^{\circ}00'W$	114.1	" " 2 " " 2 " $S40^{\circ}00'E$ run
N $60^{\circ}31'W$	69.2	" " 3 " " 3 " $S60^{\circ}31'E$ run
N $85^{\circ}15'W$	71.1	" " 4 " " 4 " $S85^{\circ}15'E$ run
N $75^{\circ}17'W$	77.2	" " 5 " " 5 " $S75^{\circ}17'E$ "
N $86^{\circ}41'W$	67.45	" " 6 " " 6 " $S86^{\circ}41'E$ "
N $61^{\circ}49'W$	216.7	" " 7 " " 7 " $S61^{\circ}49'E$ "
S $74^{\circ}46'W$	205.15	" " 8 " " 8 " $N74^{\circ}46'E$ "
S $62^{\circ}15'W$	160.1	" " 9 " " 9 " $N62^{\circ}15'E$ "
S $55^{\circ}07'W$	209.3	" " 10 " " 10 " $N55^{\circ}07'E$ "
S $50^{\circ}21'W$	225.6	to IM ME SW cor Lot 3
Tower SW Cor lot 3		BS $N50^{\circ}21'E$ run
N $3^{\circ}28'E$	256.1	to IM NW cor of Tract
Tower NW Cor.		BS $S3^{\circ}28'W$ run
N $60^{\circ}29'E$	289.8	to IM. on back line
Tower IM on Back line		BS $S60^{\circ}29'W$ run
N $69^{\circ}12'E$	299.15	to IM. Near cor of house

48

Town IM near corner of house

BS 369°12'W run

OK N88°04'<sup>05</sup>E to P for IM 300 ft  
W and 700 S of NE cor.

Town said pt our random line  
runs N0°04'W 700 ± to N line Lot 3  
~~run N81°58'W~~



Thurs July 31 - 1958

John - Ed + I to Little Wolf Lake  
 Hunt goes along. We lv Hunt at  
 cabin and go E lv car go to hub on  
 E line in  $\Phi$  road @ 203.5' S of NE Cor.  
 Tower 203.5' site Non IM NE Cor run  
 run N  $81^{\circ}58'W$  run S  $48^{\circ}05'W$   
 run S  $2^{\circ}05'W$  run S  $3^{\circ}44'W$

At first IM bears N  $17^{\circ}28'W$  42.3'  
 run. (175.45 S of hub Marked  
 run S  $86^{\circ}29\frac{1}{2}'W$  run S  $80^{\circ}11'W$  &  
 run S  $86^{\circ}04'W$  & run T. IM near house  
 bears N  $9^{\circ}44'W$  73.9  
 sta on shore bears S  $38^{\circ}20'W$  118.3  
 run S  $77^{\circ}28'W$  run S  $54^{\circ}W$

Tower IM by bears BS

Aug 3-1958

John - Ed + I to Little Wolf  
Lake run out a 50 ft Street  
along back line

Lot 1 is ~~100~~ ft along Lake shore  
30 ft along back line = Property  
Line

from IM NW cor tract  
chain S along West line  
59.6 to S line of street =  
NW cor lot 1

Work Kern line bet stake on  
Lake shore and stake 30 ft E  
of NW cor of tract

distance from NW Cor of Lot 1  
to intersection of line between  
Lots 1 + 2 with south line of  
50 ft street 44.6 to cor bet  
Lot 1 + 2.

bet Lots 1 + 2 chain S at 50.7 line  
and ridge @ 51 min + 105 cor bet  
Lots 1 + 2 @ 51 + 44 & road.

from NW cor lot 2 chain E along  
S line of 50 ft street 60 ft  
up pt for cor bet Lots 2-3



91.9  
38.6  
15.85

89.9

67

from NE cor lot 2 chain S bet lots 2-3  
chain S 38.6 hub on ridge + 91.9 = 130.5  
Corks lots 2-3 on Lake shore 38.6 + 35 = 73.6  
bet lots 3+4 chain S @ 24.5 hub  
on ridge + 45 = 69.5 24.5 + 93.6 cor. 3+4 Lake shore  
Lot 3 and 4 is 91.7 along street

from 45.5 on shore chain N @ 90.8 hub  
on ridge - 40 = 50.8 + 17.6 lot cor bet 4+5

52

Aug 4<sup>th</sup> 1958

Ed &amp; I to Wolf Lake get spikes. 90

Tower I M A P. N 60° 27' E 289.8

~~N 60° 29' E~~ ~~N 69° 12' E~~

68° 72'

180° = 179° 60'

60° 27'

8° 43'

8° 43'

2171 17° 21' 07"

85

85° 37'

85° 39' 50'

Sine 997119 into 50' = 50.14

Cosine 575849

30.45 ft from NW cor lot 6  
to A.P.

1174° 08'

87 04

Sine 994643 into 10 = 10.04

Cosine

994643 into 15 = 15.05



Travel hub on North or back line  
by lodge 151.95 from I M at cor of house

$$\begin{array}{r} 145 \\ 25 \\ \hline 170 \end{array}$$

$$\begin{array}{r} 151.95 \\ 1.8.05 \text{ net split} \\ \hline \end{array}$$

as the next 100 feet corner in toilet  
I turn R. 1°51' - 118.05

57m

$$\text{Cosine } 999479 \text{ in to } 118.05 = 118.11$$

Aug 11-1958

Ed - John &amp; I to Little Wolf Lake

Tower TM 700 S &amp; 300 W

rite ~~W~~ Tann 90 set hub 33 ft S

also set lat corner 70.4 W

Tower 70.4 rite on lat cor at  
shore line

set spike for S side of road AP

Tower AP set W and S side road

swing angle  $169^{\circ}26'$ 

$$169^{\circ}26' \div 2 = 84^{\circ}43' = 5^{\circ}17'$$

sine 092081

$$\cosine 995752 \text{ into } 33 = 33.14$$

N side of sheet vein W  $18^{\circ}14'S$ 

Tower hub 618.5 + 79.25 =

hub on Co. line chain W 20 ft  
+ 70.15 to lat cor

SW cor lot 14 is 321.09 S and 484

W of NW Cor lot 14 and lot line

run S

$$\frac{11}{321.09/484} 507789 = 8^{\circ}34' W^P$$



SW corner lot 13, 3 205.5W + 156.92W

NW " " " " 264.08N 170W

$$170 - 156.92 = 33.08$$

$$13442896 \div 7039 = 1910$$

$$264.08 / 35.5 = 7.44$$

$$\sin 541464 \times 314.11 = 170.08$$

$$\cos 840724 \text{ in } 264.08 = 314.11$$

36

Aug 12-1958

Geert + I drive to Hackensack  
to see Vincent back to Walker  
pick up John + Ed. drive to  
Little Wolf Lake Geert sleeps  
in 2nd Cabin

John Ed + I work

Town hut approx 733 ft S and  
300 W of NE cor. lot 3

go N and run S line of street

Fig

S W cor lot 12 is 304.09 W 171.42 N  
of SE cor Tract

NW cor lot 12 is 421 ft N 270 ft W  
of SE cor Tract

$$421 - 171.42 = 249.58 \text{ N 45}$$

$$304.09 - 270 = 34.09$$

$$13658947 = 57^{\circ}47'W$$

$$249.58 / 34.09$$

Town 733 S - 300 W of NE cor

at N S side street west blavo

S  $70^{\circ}54'W$  100.50 AP @ 27.25 cross blavo

$$\text{run S } 58^{\circ}41'E \text{ } 82.6 \text{ } 23.09 = 164.25$$

S  $49^{\circ}18'E$  88.54 to point at line

bet 13-14



Then  $AP 55^{\circ}41' E$  angle at AP  
 $170^{\circ}35' \div 2 = 85^{\circ}17\frac{1}{2}'$

Since

Cosine 996614

996637

~~9993251~~

996625 into 33 = 33.11

Then from lat line BS  $N 49^{\circ}18' W$   
 run  $S 60^{\circ}01' E$  to Co. line

Since

Cosine 866025 into 20 = 23.09

866025 into 33 = 38.11

along shore

$61^{\circ}38'$

Cosine 879925 into 20 = 22.73

From pt 300 W and 733 S of NE Co  
 run  $S 70^{\circ}34' W$  87.25

Then 87.25 run  $S 81^{\circ}29' W$  252.3

Then 252.3 run  $S 86^{\circ}01' W$  87.3 to  
 pt on lat line

N. angle  $175^{\circ}28' \div 2 = 87^{\circ}44'$

Cosine 999218 into 33 = 33.03

Then 87.44 run  $N 50^{\circ}50' E$  55.3

N. angle  $144^{\circ}46' \div 2 = 72^{\circ}23'$

Cosine 953103 into 33 = 34.62

100.8 along S side street lot with last  
cabin on

John-Ed-Heil & I to Little Wolf  
Lake

Tower IM 733 S and 300 W  
of NE cor lot 3

Site N on line and run  
South side of 33 ft street

S  $70^{\circ}54'W$  83.2

Tower 83.2 BS N  $70^{\circ}54'E$  run

S  $81^{\circ}29'W$  250 + 3.15

run S  $86^{\circ}02'W$  84.3

N  $58^{\circ}47'W$  55.35 to plat flag pole

IM angle pt of Tree bears  
N  $16^{\circ}16'W$  93.7

77.45 from lot 4.7 to IM at flag pole



100 ✓  
150  
212  
2530

59

Lavene Vincent and  
Martha L. Vincent

John Hauska  
2337 Park Ave  
Bemidji Minn  
Plaza-1-2177

I think bought Lot 5-6 Bk3  
of Rico & Cutler's 2nd Add  
to Village of Park Rapids Minn



# Rieu & Cutler's 2nd Add Park Rapids

63

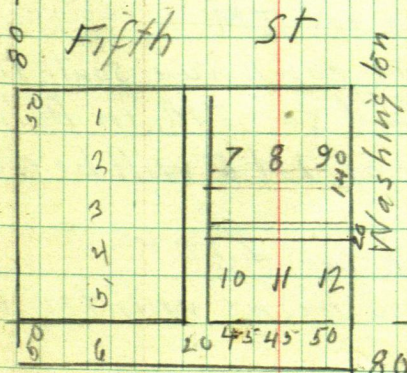
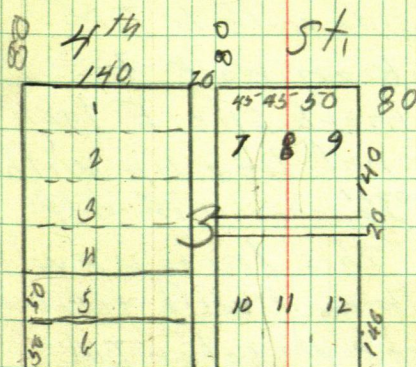
23 24 stone

24 25

100

M E Smith  
Park Rapids  
Lot 5-6 B1K3

1870  
July 4 Aug 71



We find IM at NE cor Lot  
5 Bk. 3 chain w at 140.4  
edge of ~~con.~~ wall

Turn IM NE cor Lot 5 Bk 5  
site W on flag held in center of  
6" cement curb Turn 90° and  
chain S 100 feet set spike hub  
Turn spike hub site N chain West  
140.4 the same distance chained  
from edge of sidewalk to IM  
put blue mark on walk +

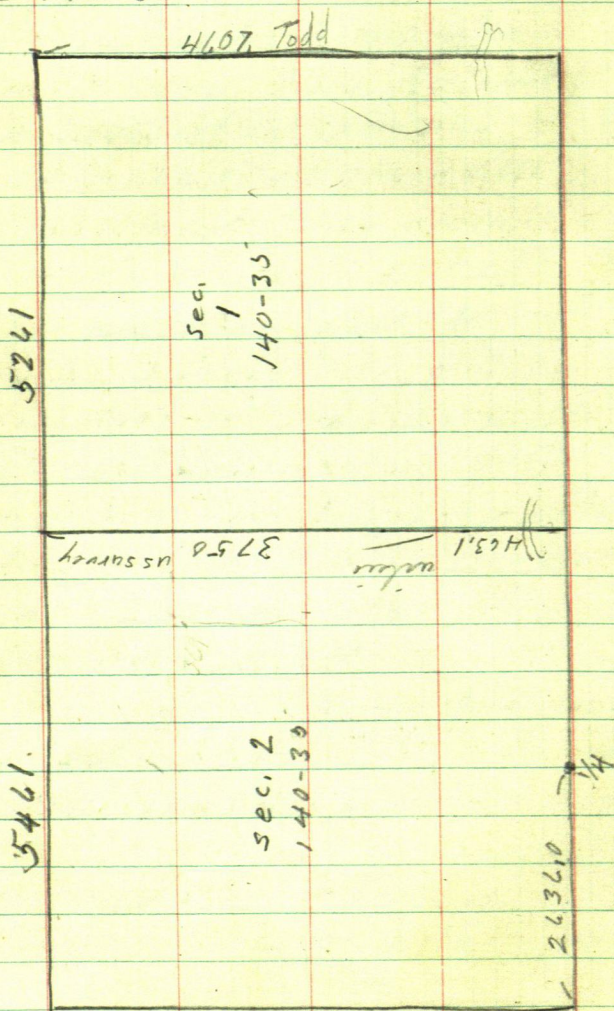
Turn blue mark site E turn  
90° this does not line up with  
the street 0°36' some min off

Try again this lines up with  
buildings North and with sidewalk  
South at SE cor we set on IM  
at NW cor we set IM  
at SW cor we continue south line  
West 40 feet and set IM in Bulvard  
as this corner of Lot 5 will be dug  
up.

get check for \$50.00  
John Caro helps with this work



Walter Wermerskirchen  
owns Lots 1-2 Sec. 11-140-35-  
SE of SE - W  $\frac{1}{2}$  of SE  $\frac{1}{4}$  + N  $\frac{1}{2}$  of SW  
Sec. 2-140-35-



Record No. 123 - Book A page 269 67

Hubbard County Park Rapids Minn

Field Notes of Survey of Town line bet  
Sec. 1 & 6-140-34-35 Made by Gay Todd for  
L.H. Rice to locate town line

April 17-1918

Look for NE cor. Sec. 1-140-35 cannot  
find it go to N.C. # 8 T40-R35 where  
the town line intersects the N shore of  
Fish Hook Lake where we find an old  
MC stake which we use and run  
North on 9° Var

at 250 cross road NW SE 602.5-800 hubs  
813 cross NW-SE road at 1200-1500 hubs

Apr. 19-1918 @ 1800-1953 hubs

@ 2100 bottom of deep ravine

2348-2561-3302.5-3587 hub on hill

enter J.P. Timbly 3754 hub 3850

bottom of deep ravine

at 4607 the True NE Corner of sec 1-140-35  
beams East 56 ft

We locate this corner by chaining 1320  
S E of the iron pin at the NW corner  
of the NE-NE sec 1-140-35 set by  
O.S. Heay - 1094.8 I.P. 56 lbs  
set co. iron 1068.7 S oak stake



68

(3)

7-18-140-34

Record

Book A page 286-287 - Sec 12-13-14-35

Guy A Todd May 23-1918

bag at  $\frac{1}{4}$  cor. bet. Sec 12-13-140-35  
 set from old Gov't B.T.s by Harry S Todd  
 in 1915 run East on  $9^{\circ}10'$  Var.

@ 1320 Temp  $\frac{1}{16}$  at 26.5-2 the true  
 Sec cor to Sec 7-8-12-13-140-34-35  
 bears South 18 ft

New B.T.s to NE cor Sec 13-140-35  
 are. J.P. 10 S  $58^{\circ}45'$  W 61.10'

" " 12 S  $73^{\circ}45'$  E 50.70

Record, Book A

Record No 161 - page 346-347

Field Notes of Survey of line  
 bet sec 6. 2-11-140-35 and line  
 around Lot 3 Sec 11-140-35

as surveyed by Harry S Todd in  
 June 1914

O.S. Heay - L. Stokes Thos D. Nasy  
 Harry S Todd. We go to the corner to  
 Sections 2-3-10-11-140-35 where  
 US Notes call for a stake and following  
 B.T.s. As per 6 S 11 W 18'

" 10 S  $61^{\circ}$  E 20

" 6 N 60 E 26

" 4 N  $82^{\circ}$  W 30

No find. of B.T.s

find a stake set for the corner by O S  
Keay some years before so another  
for the corner Warun E Var  $10^\circ$

at 1320 set stake for Temp  $\frac{1}{4}$  on Nail  
of NW  $\frac{1}{4}$  Sec 11. 140-35 at 2636

intersect  $\frac{1}{4}$  corner Nail Sec 11.

How MS Notes call for stake and B.T.

Apr 20 S  $79^\circ$  E 22

B Oak 18 N  $31^\circ$  W 48 we find the  
stump of NW tree plainly marked and  
rotten stump of SE again from which  
we set the  $\frac{1}{4}$  corner bet Sec 2-11-140-35  
by flat measurement Turn  $90^\circ$  to  
true E & W line run South Var  $9^\circ$

at 945 set MC iron on high-water line  
on Nahav of Fish Hook Lake the correction  
for the line bet Sec 2-11 at 1320 W 2 ft  
to 1318 drive stake for W  $\frac{1}{4}$  Nail Sec 11  
run South at  $90^\circ$  Var  $10^\circ$  at 1109 set  
MC iron on high water line on N  
shore Lake





Book A Record No 247 - page 522-523

May 23-1918

Fred Knoblock + I go to the 1/4  
cor bed sec 12-13-14-35 and find  
stake set by New B.T. set by H.S. Todd  
in 1915 began 14 cor run road lines  
as follows

North 1104

@ 355 hut

568 "

480 E + W fence

874 hut

1104 sta 2 run

N 41° 26' E 580' sta 3 N 50° 41' E 800

sta 4 N 69° 30' E 579

at 100 intersection of old NE + SW road

@ 240 cross fence 519 sta 5

N 58° 51' E 790

@ 404 center of Conroy + Witsan logging

spur bears N + SE @ 790 sta 6 run

N 49° 15' E 774 sta 7 N 36° 09' E

583 sta 8 N 21° 00' E 174

212 - hut

9 North 1415 H.S. Todd

Page 134

8/22/24 E B Miller Transit

Start at  $\frac{1}{4}$  cor. N side sec. 13-140-35a concrete Mass in road bed run N Var  
9°30' at 969.6 hub at 1802 set  $\frac{1}{4}$  MC.

8/22/24 same crew:

Start at W  $\frac{1}{4}$  cor. NE  $\frac{1}{4}$  of Sec 13, run E

9°30' at 2730 intersect N + S section

Miss  $\frac{1}{4}$  cor 52.9° N Miller

pg 243 Book B June 26-1934

at  $\frac{1}{4}$  N side Sec 13-140-35 we find  
NP, S 53°W 61.6 OK.run W. 89°5' 0+72- I.M. set by Hy. Eng. E boundary  
of S A R #1 at 105 ± S A P.

@ 1650 find cedar fence post

MC #5 run South at 1564 find  $\frac{3}{4}$  I pipe  
set over said I P, continue 1 mi S

at 436.3 find iron shaft at cor. of Fur farm

Cor. to 13-14-23-24 we set  $\frac{1}{4}$  cor 13-74

+ Mark B.I.

NP 16 S 84°W 5'

JP 12 N 84°E 10'  $\frac{13}{4}$ " gas pipe



72 Book B page 266

Dec. 28-1934 W L Dehart,

I went to W 1/4 Cor. Sec 2-140-35  
I find I.M. in  $\Phi$  road Reference by  
I.M. 33 ft out each side

I go East on Randon Va 7°30'

Conclusion more North

300	8.3
1000	16.6
15	24.9
20	33.2
25	41.5
2640	44.0 iron pipe
3960	66.4 iron pipe

5280 I set 1/4-1-2 88 ft N of the pt  
ash Post 4x4x6

Eagle Nest Resort

Check this Record book pg. 266  
for more if needed

Wilsie ties to NE Corn Sec 2 - 140-35

NP 12 S 28° E 48.6

JP 12 S 50° 10' W 65.5'

N  $\frac{1}{4}$  Wake line S of NW Cor

Ties Tamm 8 S 35° 30' W 52'

JP N 49° 40' W 34.2

N  $\frac{1}{4}$  on N 45° E

Tam 8 S 90° 05' W 9.7

Sprio 8 S 61° 30' W 26.2

Center Sec 2.

Pop 10 South 29'

" 12 S 47° 20' E 42.7

E  $\frac{1}{4}$  on E & W E

Birch 6 S E 12

" 8 W 14

Pop 10 stump S W 15'

$\frac{1}{4}$  bet 12-13 - 140-35

TM 33' E & 33' W - corner E



74 Book C, pg 21

Sec 11-140-35

Locate IM 33 ft E & 33' N for  
see cor. 2-3-10-11 set by Todd  
from BT<sub>2</sub>

BT<sub>2</sub> for W  $\frac{1}{16}$  N line sec 11

Turn 7 S  $32^{\circ}10'W$  21.8

10 7 N  $19^{\circ}45'W$  1.3

Jan 30/1959,

300  
140.1  
-31

75-

Don Bethel comes over 13° below  
go to court house look over old record  
Notes

Todd's Ties of 1918 to SE cor Sec 12  
140-35-

JP 10 S 58° 45' W 61.10

" " 12 S 73° 45' E 50.70

1/4 bet Sec 2-11-140-35-

US BTs Aspen 20 S 79° E 22

B. Oak 18 N 31 W 48 - 31.68

Todd's survey of W 1/2 of S line  
Sec. 2-140-35-

Don + I Lv court house at 10 AM  
arrive at 11-15 Tower I M shows  
to me as the 1/4 S side Sec 2-140-35-

ran East assumed @ 5-80 pin +  
105.5 sta ①

$\begin{array}{r} 105.5 \\ + 5.0 \\ \hline 105.5 \end{array}$   
685.5 hnt

Tower ① BS W run E

265.1 sta

Don spike hub on  
seawall chain west 300 pin + 12 W wrap

5-80

300 + 137.1 = 437.1 hnt on seawall

$\begin{array}{r} 105.5 \\ + 5.0 \\ \hline 105.5 \end{array}$

685.5 hnt

265.1

950.6 hnt

437.1

1387.7 hnt on seawall



Feb. 4, 1939

Larry Oliver + I to Park Rapids  
get dinner drive to Fishhook Lake  
arrive at 1:00

Tower 60% up on N shore of  
said lake site E + run

Tower 1387.7 <sup>E</sup> W. Hubbard

run N  $71^{\circ}24'$  <sup>E</sup>  $1200 + 18.2$  W  $1218.2$  <sup>W</sup>  $1218.2$  <sup>on ix</sup>  $1218.2$

Tower 1218.2 BS S  $71^{\circ}24'$  <sup>E</sup> run

N  $13^{\circ}10'$  <sup>E</sup>  $1074.8$  to stake  $1/4 \times 2$

on sawall set by Wilsie

on his random sec. line between  
Res. 1 + 2

Tower Wilsie's stake

BS S  $13^{\circ}10'$  <sup>E</sup>  $1074.8$  + run

S  $84^{\circ}30'$  <sup>E</sup>  $1598.7$  to stake

run N  $46^{\circ}16'$  <sup>E</sup>

called quit at 400

278709

2640

147.00

一

Sec 11  
140-35

1387.7

2542.27

$$71024' = 18036' \quad 7218.2$$

Sine  $318959 \times 1218.2 = 388,56 N$   
Cosine  $947768 \times 1218.2 = 1154,57 E$

$N 13^{\circ} 10' E \quad 1674.8$

$$\begin{aligned}\sin e & 227784 \times 1074.8 = 244.82 \text{ E} \\ \cos in & 973712 \times 1074.8 = 1046.55 \text{ N}\end{aligned}$$

142511N  
1301N

21218.2

1154,57

7602817

$$2844.82$$

4378.43E

$$584^{\circ}30'15'' = 5^{\circ}30'15''$$

3m	095846	$\times 15987 = 153.235$
casine	995396	$\times 15987 = 1591.84$

Willis stake on seawall  
1591.34

584030'E-1598,7

$\sqrt{128/88} \approx 1.21$

77



$N 66^{\circ} 16' E = E 23^{\circ} 44' N$   
 Sine 402480 x  
 cosine 915429 x

Note: 901.57 E would make 1 1/2 miles 901.57 E would be, 984.86 along line  $N 66^{\circ} 16' E$

$N 66^{\circ} 16' E$

Sta

1281.88 x

4378.43 E

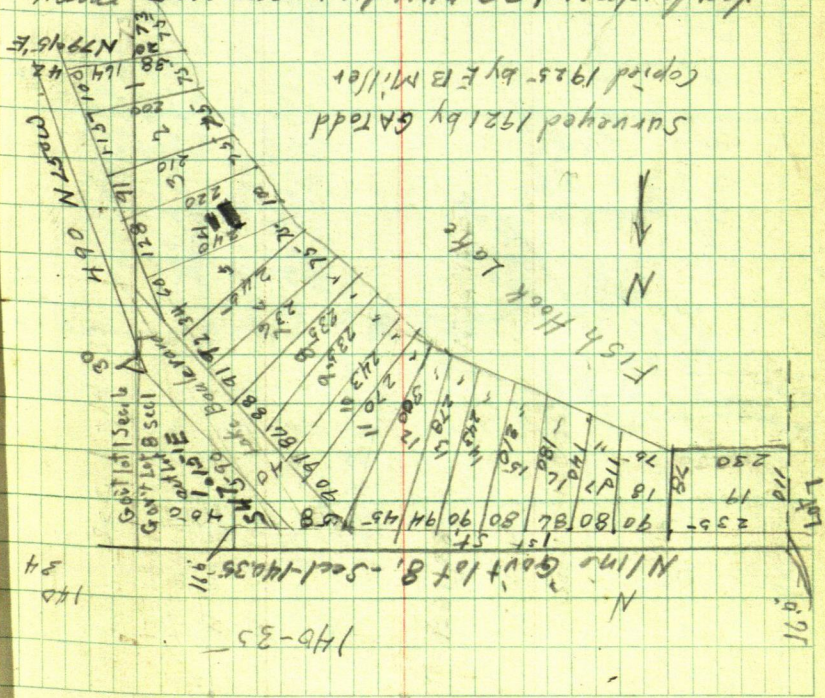
of 1/4 S. side

Sec 2, 140-36

# Plat of Ojibway Beach

Guy A. Todd surveyor of Hubbard Co. Minn. do hereby certify that the following field Notes are a full and true description of the tract of land to be known as Ojibway Beach. described as follows Ojibway Park is situated in all of Gov't lot 8 Sec 1-140-35 and all that part of Gov't lot 1 Sec 6-140-34 described as Beg. at a point on Trp line bet. sec. 1 & 6-140-35 & sec 6-140-34 that is 73 ft N of SE cor. of Gov't Lot 8- Thence N 79° 15' E 208 ft. to a stake thence N 25° W 490 ft. to an intersection of the Trp line bet 140-34-35 thence S on said Trp line 554 to apt of beg

Surveyed 1921 by G. A. Todd  
 Copied 1925 by E. B. Miller





1  
↑

5261

T

2

1958 Survey

This survey recorded in Book 8 page 224-225  
Plot of Eagle nest

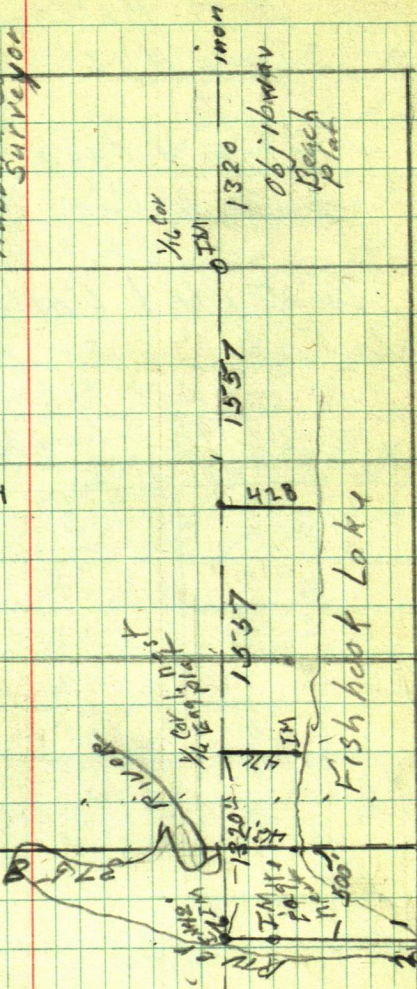
I think it is in error as Gov. field notes of S. line  
Sec. 2 puts river 792 ft. West of Sec. cor. 3112, while  
Eagle nest plot puts it partially on section

No doubt the Gov. Sec. Cor. 1+2 was destroyed by  
avalution which is now under water  
My Survey 1958 checks OK with it on river and also  
for distance on S. 1/4 line C Sec. 1

E. M. Wilsie  
Hubbard Co.  
Surveyor

1-140-35-

sec 2



according to Plot of Engle nest

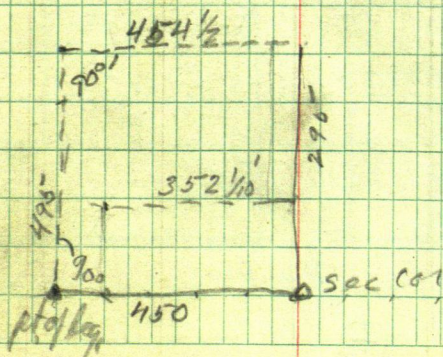






The Tract of Land designated on this Plat and to be known as Cutlers Add. to Park Rapids is located in the SE  $\frac{1}{4}$  of the SE  $\frac{1}{4}$  Sec. 23 - Twp 140 N Rge 35 W of the 5<sup>th</sup> PPM, and further described as follows to Wit:

Beg. on a point on the Sec. line 450 ft West of the cor to Secs 23-24-25-26 of said Town & Range Var  $10^{\circ}28'$  thence at right angle N 495 ft thence East at right angles  $454\frac{1}{2}$  feet to the Sec. line thence South following the Sec. line 295 ft Var.  $9^{\circ}56'$  thence West at an angle of  $90^{\circ}32'$   $352\frac{1}{10}$  ft. thence S 200 ft at right angles to Sec. line thence following Sec. line 100 ft to place of beg



84

430  
75 $\frac{1}{4}$  N bet 23-24 sta 2169, 30.4

Ties

Disk in 8" J P SW 73.50

" " 30" Maple SE 85.88

" " 8" Elm NW 52.14

Old ties sta 2169, 30.4

Power Pole SE 38.2

" " NE 49.8

Tele " SW 64.2

North St

30

38

52.5

70

70

300

70

300

70

300

70

300

70

300

70

300

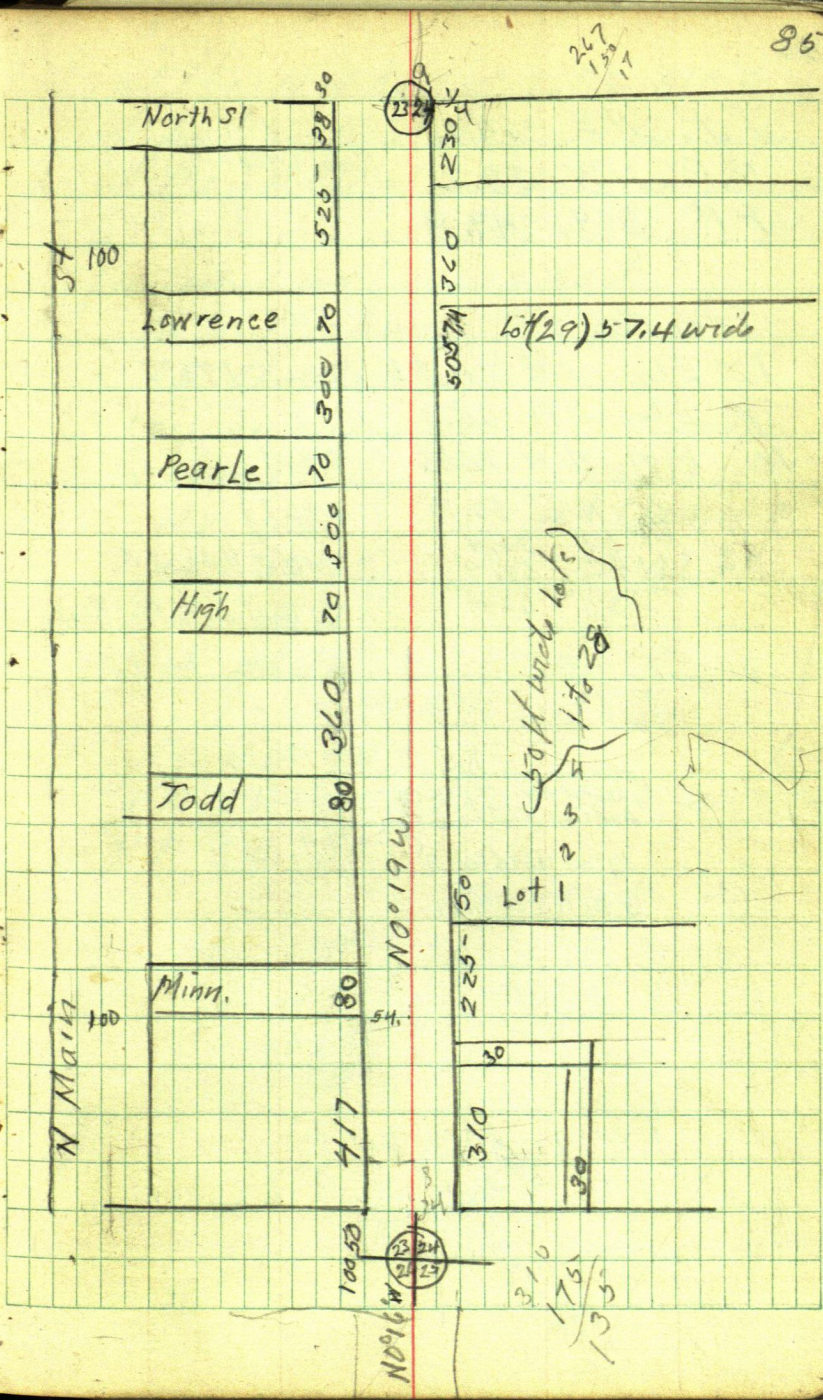
70

①  $\frac{1}{4}$ 

⊕



267  
133  
11



T.P. NE 64.2

P.P. NW 38.2

See insert

P.P. SW 49.8

Sec. Cor.

12" Elm. SE 74.85 Jan. 1935

3x8" Elm. SW 65.7

10" Elm. NW 71.55

2901

34-34

NE 50.15

2902

5 to 21 69 30.4

2142 + 67.9

26 62.5

M.D. 3 Hubbard Co

W Cor line to Park Rapids

(New Map)

38 30

8.5

Insert →

<sup>Cor</sup>  
 1/4 used for  
 Auditor Plat 3

1/4 Cor. used for →

G. H. Rices Add.

20.4

8

Rices Add.

stone 1/4

IM 58.2

IM 1/4

39.4

IM



at the NW cor of Lot 3- B1K 2  
 of Auditor Plat No 3 we find a pipe  
 at the SW cor of said Lot 3 we find  
 a  $\frac{1}{2}$  inch iron rod 35 $\frac{1}{2}$  inch W of 3" Elm  
 from which we chain S. 50 ft

go to Highway Office at  
 15 St Benidji

information at Park Rapids

Signal Base

526433.65-

NW 63.0

514+24.4

NE 51.95

12.09.25

SE 58.7

SW 62.76

1209.25 W of Sec. Cor.

P.P. NE 94.3

PP SE 75.0

PP SW 64.1

Court St.

E cor

SP.

34

IP / S  
 Cor /

Sec 23  $\odot$   $\frac{1}{16}$  140-35

sec. 24

Auditor Plat  
No 3

Fish Hook

Lok

452

321

322

154.7

162

Curve

Sec 23  $\rightarrow$  N 20° E

North

2.4

2.5

235.5

IM found

12

12

143

153.6

159.4

33

20

149.9

144

140

46

34

40

14

North St.

but sec.

23-24

140-35

31

2

3

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322



1/4 bet Sec 25-26 - 10.1 W of E

Cor 25' E of line  
50° 16' W

1/4 bet 23-24  
Rice Add.

774 ST

1 story house

SE cor house NW

2 66.21 S of P.I. 91.87

3° + 10cl

NE cor. W 1/2 story

7439

2120 + 76 = 47:4 pin to E 6702

2118 + 38.74 = pl 3° N.

1/4 bet Sec 24-25 iron pin

Two P.P. E. 22.87

73.5 S of P.I.

TP NW 30.56

Two to P.I.

PP NE 31.5

TP SW 64.95

Sug P. NW 68.45



Dr. Paul T. Grimes

Park Rapids Minn.

Oct 29<sup>th</sup> 1959 I get a Phone  
call from Dr. Grimes wants  
Elevation on his place North  
of Park Rapids

I tell him I will be over to see  
him to-morrow

Oct 30<sup>th</sup> 1959

Bobby & I drive to Park Rapids  
stop at Med. Art. Building

Dr. Grimes takes his car & we  
follow him out to look over his  
property he shows me all the  
iron at the corners.

drive back to his house where  
he gives me the deed to copy

Deed copied

Agreement entered into this  
18<sup>th</sup> day of Oct-1957 between  
John & Joan Peden parties 1<sup>st</sup> Part

Paul T. Grimes party 2<sup>nd</sup> Part  
That part of the SW  $\frac{1}{4}$  of the SE  $\frac{1}{4}$   
Sec. 14 Twp 140 Rge 35

containing  $\frac{1}{100}$  of an acre ± and



573.9  
164  
409.9

320.9  
23.9  
89.1

409.1  
320  
89.1

91

Bounded & described as follows  
commencing at the E  $\frac{1}{4}$  cor on the  
S line of said sec. 14. Thence North  
on the E  $\frac{1}{4}$  line a distance of 320 ft  
to the point of beginning

Thence West (Deflected Left  $100^{\circ}30'$ ) a  
distance of 196.1 feet to a point on the  
E Boundary of US Highway #71

Thence North on the E boundary of  
said Highway (interior angle  $106^{\circ}30'$ )  
a distance of 30 feet Thence Easterly  
(interior angle  $73^{\circ}20'$ ) a distance of  
205.2 feet to a point on the E  $\frac{1}{4}$  line  
thence S. on the E  $\frac{1}{4}$  line a distance  
of 30 feet to the point of beginning

That part of the SE  $\frac{1}{4}$  of the SE  $\frac{1}{4}$   
Sec. 14 Twp 140 Rge 35 containing  $\frac{45}{1000000}$  I  
bounded and described as follows  
commencing at the E  $\frac{1}{4}$  cor. on the S  
line of Sec. 14 Thence North on said  
E  $\frac{1}{4}$  line a distance of 320 feet to the  
point of beginning; thence continue  
North on the  $\frac{1}{4}$  line a distance of  
253.9 feet to a point on the water edge  
of Fishhook River over



Thence Easterly on and along the  
 water edge (interior angle  $55^{\circ}20'$ ) a  
 distance of 53 feet Thence (Perfect  
 Left  $16^{\circ}45'$ ) a distance of 47 feet  
 Thence Westerly (interior angle  
 $113^{\circ}$ ) a distance of 75 feet to the  
point of beginning

This Agreement entered into this  
 11 day of June 1957 between  
 Rubart & Emma Howkins parties  
 of the 1st Part and  
 Clarence F. & Pansy A. Krenz  
 parties of the 2nd Part

All that part of the SW  $\frac{1}{4}$  of the  
 SE  $\frac{1}{4}$  of Sec. 14 Twp 140 Rge 35  
 lying East of US Highway #71 as now  
 located and bounded on the North  
 by the Tract heretofore conveyed to  
 second parties by deed dated and  
 filed Dec. 31 1948 and recorded in  
 Book 89 of Deeds page 274 in the  
 Office of the Reg. of Deeds for said Hubbel  
 County and Bounded on the South  
 by the property conveyed to John



Peden by Deed Dated April 5<sup>th</sup> 1950  
filed for Record May 27, 1950 in Book 80  
of Deeds page 638 in the Office of the  
Reg. of Deeds for said Hubbard County  
Office of Reg of Deeds  
Hubbard County. Minn

filed for Record on the 30<sup>th</sup> day of July  
1957 at 5 o'clock P.M. and was Recorded  
in Book 102 of Deeds on page 515  
dated April 1950

Nov. 4-1959

Don - Ed & I to Park Rapids  
Sec. 14 - 140-36

Corner I M S W Cor of Tract

Site  $N 16^{\circ} 30' W$  on I M

NW Cor along East Boundary Highway # 71 - a distance 92 ft. but I M's  
run  $S 88^{\circ} 13' E$  (Interior Angle  
 $107^{\circ} 47'$ ) 191.1

set 60' spikes every 25 ft from SE Cor

from SE cor along Road 25 ft. put 22 spikes  
20-25 spikes along w. line

from NW cor chain along fence  
set spikes every 25 ft

Corner 191.1 E ~~with~~  $N 88^{\circ} 13' W$

then  $N 12^{\circ} 40' E$  88.7

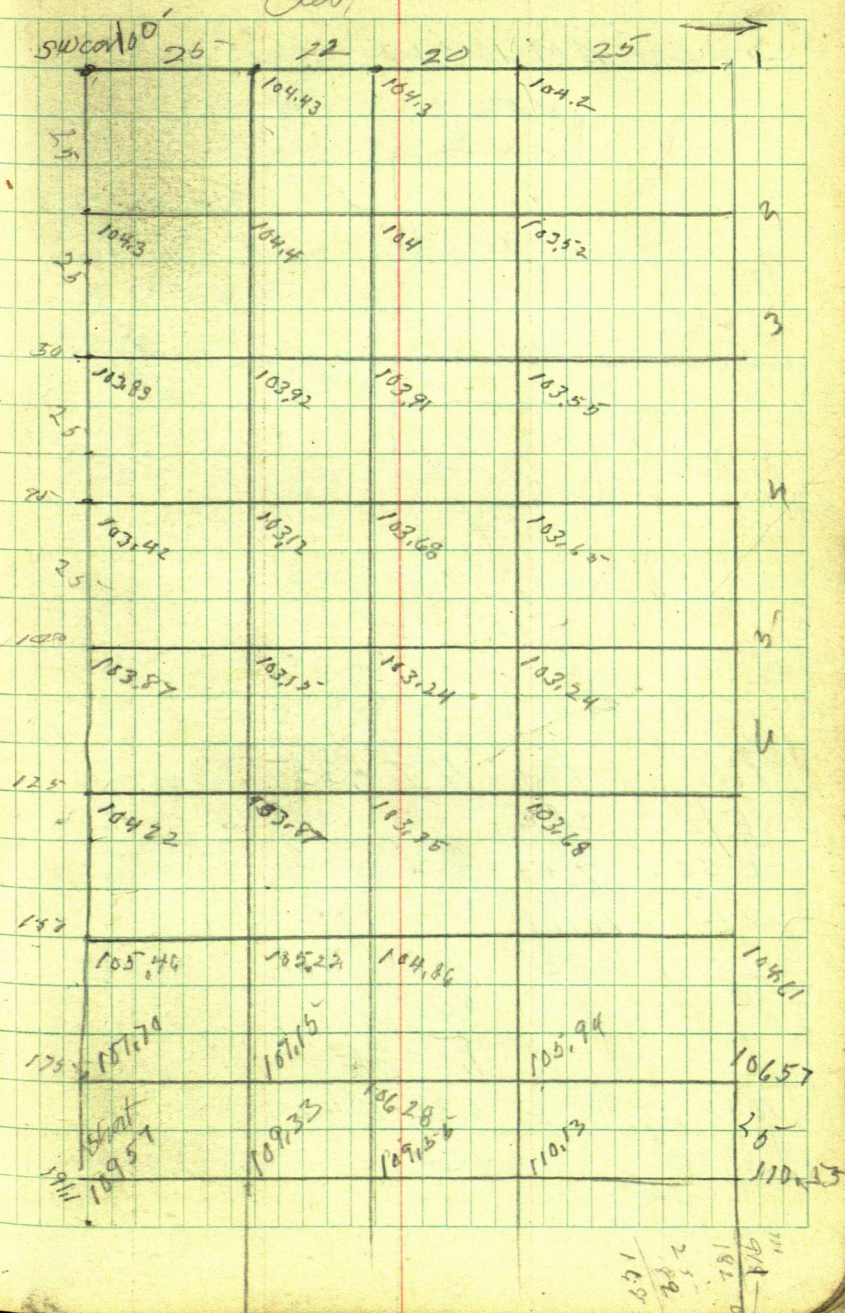
set spikes every 25 ft

S W Cor. 100

High of T, 104.36

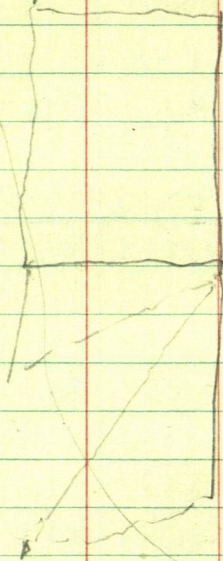


Elew,



SW Cor BM-109.19

NW Cor



T.P. 109.9 - H.I. 9.33 = 94.79

E 25° 3.26

E 50° 7.53

N Cor 10.21

25. N 11.75 W 25. 9.19

50° 6.4

1.40 on E line

N 25° 3.3 E 6.80 - 10.42



Tron A H on V/L line SE cor

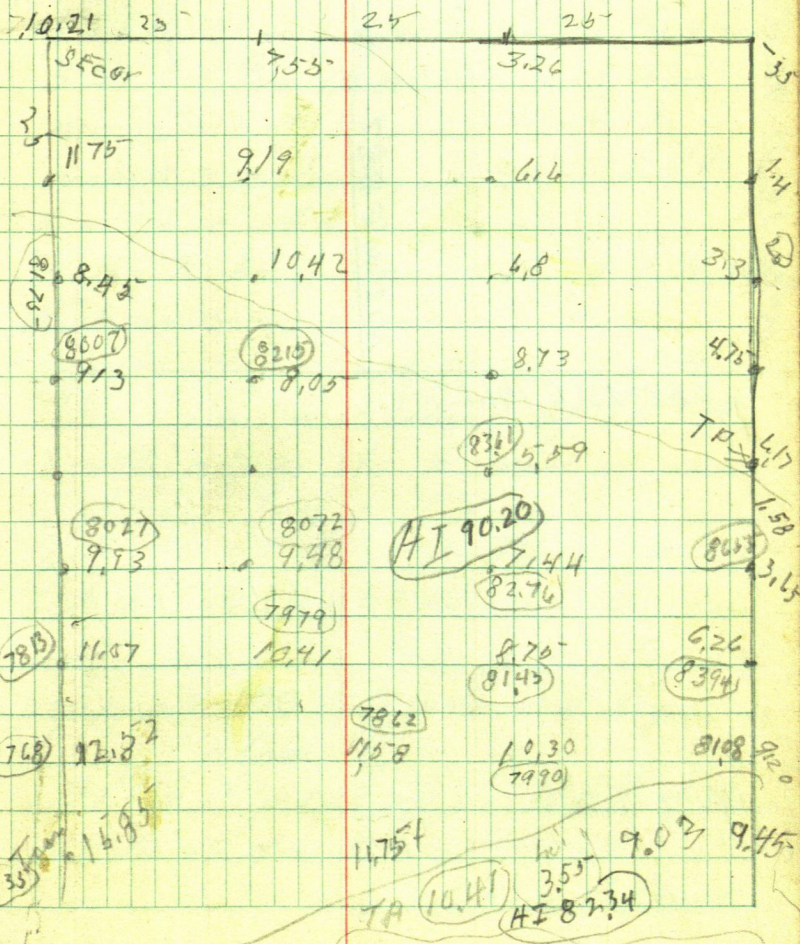
Sub S 32° E 104.8

N cor at N 12° 23' <sup>E</sup> W 165.2

SE cor sets

Tron SE cor NE cor bears

N 16° 44' E 1858



N 16° 30' W 92 ft

S 88° 13' E 191.1

N 12° 40' E 88.7

N 12° 23' E



Book 80 page 638

W.D. Mirmie C & Carl L. Mittelstadt  
to John Pedem

All that part of the SW $\frac{1}{4}$  of the SE $\frac{1}{4}$   
Sec. 14 Twp 140 Rge 35 Hubbard Co.  
described as follows

Beg. at the SE corner of said SW $\frac{1}{4}$   
of SE $\frac{1}{4}$  thence North on the  $\frac{1}{16}$  line  
350 feet to a concrete and iron  
monument. thence Westwly  
direction a distance of 305 ft  $\pm$   
to a concrete & iron monument  
on the E boundary line of US Highway  
#71 as now located over and  
across the above described 40 acres  
thence run a distance of 350 ft  
South along the E side of said  
Highway to a point where said  
Highway intersects the section line  
bet Secs 14 & 23 thence East on  
said section line a distance of  
approx 100 ft to place of beg.  
also

All that part of the NE $\frac{1}{4}$  of the  
NE $\frac{1}{4}$  of Sec 23. - 140 - 35  
bounded & described as follows

beg at a point being the N.E. cor.  
bet Sec. 14. + 23 thence east  
on the Sec. line a distance of 289 ft  
to the Mill pond thence South along  
said mill pond shore line a  
distance of  $84\frac{1}{2}$  ft S of said sec.  
line. Thence West 202 to the  $\angle$   
of Itasca Road thence NW along  
 $\angle$  of said Road a distance of 103 ft  
to the pt. of beg.

Dated Apr 1950  
Filed May 27 1950



Book 89 page 274

Jessup Taig + Dorothy Taig

Filed Dec. 31<sup>st</sup> 1948

to

Clarence F & Pansy A Krenz  
That Part of the SW  $\frac{1}{4}$  of the SE  $\frac{1}{4}$   
Sec 14-140-35 described as follows  
Commencing at a point of intersection  
of the S sec line of said Sec. & the  
E R/W line of US Hwy # 71 where  
it crosses said sec line thence  
Nely along the immediately adjacent  
to said E R/W line of said Highway to  
a point on said R/W a distance  
of 418 ft from pt of Commencement  
as the pt of begi of the land survey  
converged thence in a Eely direction  
to apt on said E  $\frac{1}{4}$  line of said Sec.  
at apt 440.30 ft directly North of  
said S. sec line thence extending  
directly North along and upon said  
E  $\frac{1}{4}$  line a distance of 132 ft to the  
water edge of Fish Hook River thence  
extending NWely along said water  
edge to a point 15 ft directly W of  
said E  $\frac{1}{4}$  line of said Sec.



thence directly South & parallel  
with said E  $\frac{1}{4}$  line to a pt A  
directly West of the intersection  
of said E  $\frac{1}{4}$  line & said Fish Hook R.  
thence continue S. along a line  
15 ft W of said E  $\frac{1}{4}$  line a distance  
of 57 ft thence in a Wely direction  
to a point on E R/W of  $\text{TD}$  to a  
pt 75 ft Nely from pt of beg.

It being the intention  
to convey a strip of land 75  
ft in width extending from  
said Highway #11 to said E  $\frac{1}{4}$   
line, together with a strip of land  
15 ft in width in add. to said 75  
ft. to conveyed therewithly to  
permit the grantee a 15 ft R/W  
from said 75 ft strip to Fish  
Hook River.

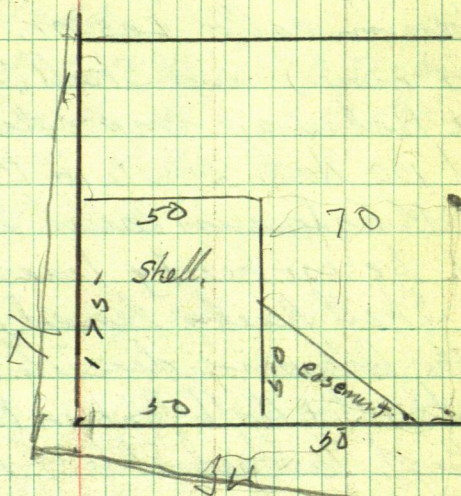


BLK 3  
C.H. Rice ADDITION to  
Park Rapids

103

Taper had  
all of BLK 3 except  
The E 20 ft.

IM 58 1/4 Cor  
39.8  
21.5  
IM 120  
sec 23  
sec 24



26 60.4

30 225

130

140

50

75

90

310

1733

BLK

5

23

26

40° D  
24° 140  
25° 50

30 All 1/4 recotted

BLK 2

310

80

100



This Lease dated July 1<sup>st</sup> 1951,  
between Donald E King & Olive King  
his wife of in Park Rapids Minn  
(herein called Lessor, whether one  
or more) and Shell Oil Company  
a Delaware corporation with offices  
at 100 North 7<sup>th</sup> St. in Minneapolis  
3 Minn. (herein called Shell)

1. Lessor hereby leases to Shell &  
Shell hereby leased from Lessor  
the following described land  
at 1<sup>st</sup> & North Park in Park Rapids  
Co of Hubbard State of Minn.

The West 50 ft of the S 175 ft of  
Blk 3 G.H. Rice Add to Park Rapids  
together with a driveway easement  
over that property as beginning at a  
point on the South line of Blk 3  
50 ft East of the SW Cor. of Blk 3  
Thence E along the S. line of Blk 3  
50 ft Thence Northwesterly to a point  
50 ft E of the W line of Blk 3 and  
50 ft North of the S line of Blk 3 Thence  
S to the pt of beg.



Feb. 15-1960

I go to Park Rapids and check plot of  
C.H. Rice Add. to Park Rapids

Feb. 16<sup>th</sup>/1960

Don - Ed & I to Park Rapids to try and  
locate the S 175 ft of the West 50 ft of  
BLK 3 of CH Rice Add. with  
easement as described on page 184 this  
book, 292,

accord to Highway Notes & plots of  
Highway 71 in survey of Auditor's Plot  
#3 the surveyor used one point for  $\frac{1}{4}$  cor  
Sec. 23-24 and in survey of Rice's  
Add they used a different point for  $\frac{1}{4}$   
cor.

230	50	
360	50 -	1400
57.4	50	230
50	50 -	360
50 -	50	<u>1990</u>
50	50 -	225
50	50 -	30
50 -	225	310
50	30	<u>2555</u>
50 -	310	57.4
50		<u>26124</u>
50 -	1400	<u>26604</u>
50	230	26124
50	<u>1430</u>	48
50 -	360	
50	<u>1990</u>	
50	225	
50 -	<u>2215</u>	
50	30	2660.4
50 -	<u>2245</u>	26124
50	310	48.0
50	<u>2555</u>	
50 -	57.4	
50	<u>26124</u>	
50	We look for IM at SW cor BLK 3	
50 -	auditor's Plat No 3 donot locate	
50	it	
50 -		
50		
50 -		
50		
50 -		



Feb. 17<sup>th</sup> 1960

Don Ed. & I to Park Rapids go to  
Hotel Bldg. look for IM 35 1/2 inches w of  
3" Elm and chain South 50+181.5  
we found three IM's Last summer.

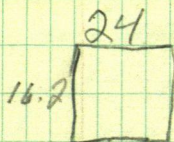
Take pt on W line BIK 3 River  
Add .20 S of cor. Kings Oil Sta.

Take Lunch Bldg.

SW cor S 10° 05' E 19.3

NW cor S 47° 36' E 4.7

NE cor S 83° 39' E 27.5.



Pumps 2'

N 58° 30' E 1731

N 78° 14' E 370

Take SW cor BIK 3 -  
site North take station

SE cor N 52° 24' E 52.4

SW cor N 44° 45' E 39.7

SE-E side N 10° 55' E 79.5

NW cor N 7° 57' E 109.35

N 20° 38' E 41.4

N 15° 20' E 53.4

Tank W line

N 57° 21' E 57.1

SW

16.2

sign 3' 0

N 48° 13' E 51.0

pt 60 ft S of NW cor.  
Take gas tanks

N  $74^{\circ}32'E$  21.1

S  $88^{\circ}39'E$  20.8

from SE cor of 50 ft trait chain  
15 ft to edge of driveway curb



April 11<sup>th</sup> 1960

Get a long distance phone call from Park Rapids Minn.

Jackson's Resort on West side Long Lake wants survey - I tell him \$5<sup>00</sup> per day. Resort about  $\frac{1}{2}$  way down on West side Long Lake will be over tomorrow or next day.

April 12<sup>th</sup> 1960

Bob, Ed & I to Jackson's Resort  
Lot 6 Sec. 5 Twp 139 R 34

we find the NW & SW I.M.S. Tower  
NW corner site south on flag at SW cor  
from NW cor run S. 300.45' at 60°  
spike but in road

Tower 300.45' site Nonflag at NW Cor  
and run S 75° 17' E @ 300 pin @ 600 pin  
+ 163.05' to A.P. Tower 763.05 BS N 75° 17' W  
run S 47° 54' E

Tower run North 57.82"

Tower 51.82" site S and run East

From point on bank 9 ft W of Brink  
about 20 from water chain West 135.2 hub +  
293.8 hub + 412. hub + 180<sup>45</sup> pin in  $\frac{1}{2}$  old Highway  
+ 248 hub in powerline + 198.25 to pt 33.75  
E of W line Lot 6 Sec 5 139-34

at intersection hub, from white  
hub 50 ft from E road = 33.75 ft from  
line

434 ft N of SW Cor +

300.45 + 300 + 269.9 =

300.00

269.9

870.35

434

1304.35

870.35  
1304.35

lat.  
90°

434

all that part of Gov't Lot 6  
Sec. 5 - Twp 139 Rge 34 lying  
North of a line running E  
as 90° to the West line of said  
Lot 6 a distance of 870.35 ft  
South from the NW cor of said



$$\begin{array}{r}
 3^2 \\
 135.2 \\
 293.8 \\
 412.0 \\
 180.0 \\
 2480 \\
 \hline
 19825 \\
 \hline
 145723
 \end{array}$$

$$\begin{array}{r}
 135.2 \\
 293.8 \\
 \hline
 429.0 \\
 41.2 \\
 \hline
 180 \\
 \hline
 10210 \\
 2480 \\
 \hline
 126925 \\
 119825 \\
 \hline
 1463300 \\
 \hline
 150100 \\
 \hline
 15
 \end{array}$$

Ed. Schubert Nevis

Lot 4 Sec. 9-140-30 33

Commencing at a point 265 ft N. of  
MC No 4. Which is the NW Cor. of  
Lakerview Cemetery thence West  
435 ft along the S line of G.N. RR  
right of way pt of beg. thence S to  
waters edge thence West 150 ft thence  
North to Right-of-way thence E 150  
ft pt of beg.

April 21-1960

Also Village of Nevis

Lot 2 B1K 3 of Halvorsen's Add  
to East Nevis = Village Dump

I go to Park Rapids to check  
old Sawyer records.

April 22-1960

Ed & I drive to Nevis find  
I.M. at NW corner of Lakerview  
cemetery go North look for corner  
to Secs 3-4-9-10-140-33 find BTs  
but have no Notes for them drive  
to Park Rapids Record Book A  
page 331 says Harry S Todd  
set this corner in 1915 from US Notes  
which were as follows



N.P. 10 S 87° W 55' B.P. 10 S 36½' E 54'

N.P. 10 N 61½' E 54' B.P. 10 N 32½' W 114'

Todd found slip of NW B.T.

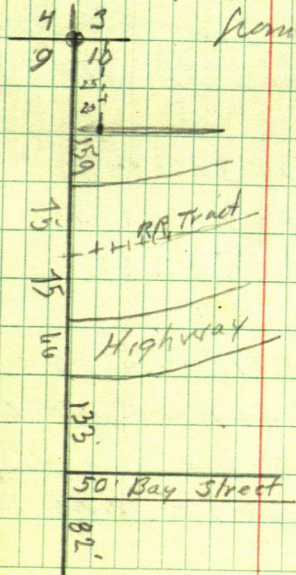
Wilsie in 4/18/44 could not find this I.M. set by Todd. - chain west from ¼ in Nevis 2657 ft (recorded dist) set Temp cor. go S. to  $\frac{1}{2}$  RR Tract & chain N 1552 ft (recorded dist.) + set a 2x48° I.M. for corner to 3-4-9-10 140-33 with Tics as follows.

N.P. 10 S 43° 49' E 47.2

J.P. 8 N 50° 45' E 73.4

J.P. 10 S 87° 03' W 169.4

Note! Map of Nevis shows 1560 from  $\frac{1}{2}$  R.R.T. N. to cor.



April 23 1960

Ed. John & I drive to the cor to  
Sec's 3-4-9-10 - 140-33 set flag  
set flag at IM NW cor Lakerview  
cemetery try to work a line  
between flags because of hills  
and trees we can not so run  
a random line S from sec. cor,  
from spike hut on Random line  
near N.R/w G.N. RR, chain N. at  
286.9 spike hut at  $290 \text{ pin} + 300 =$   
 $590 + 230 = 820 + 300 = 1120 \text{ pin} +$   
 $300 = 1420 \text{ pin} + 64.8 = 1484.8$  to IM  
Sec cor.

Tower hut 1484.8 S the IM NW cor  
cemetery bears L.  $3^{\circ}42'$  204.3 ft  
 $3^{\circ}42'$

$$\sin 3^{\circ}42' 064532 \times 204.3 = 13.18$$

$$\cos 3^{\circ}42' 997916 \times 204.3 = 203.7$$

$$1484.8 + 203.7 = 1688.67$$

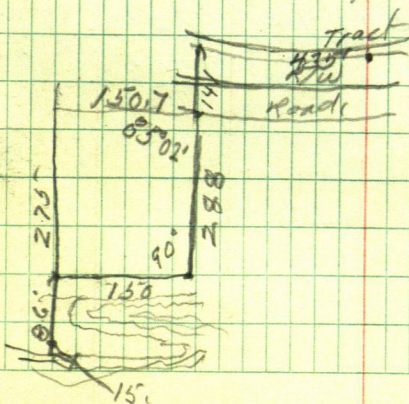
$$13.18 \div 1688.67 = 00780496$$

as we set a hut on Random at 1520.05  
S to get out of trees we correct this  
hut, 1520.05 S. goes E 11.86. to line



April 24-1960

Ed + Bob. to Nevís they correct  
 hut. 15-20.05<sup>-</sup> Tower corrected  
 hut into Son IM NW cor cemetery  
 and mark S-rail of RR Tract  
 30.7 S of corrected hut 15-20.05<sup>-</sup>  
 Tower RR Tract rail run  $S 81^{\circ}00' W$   
 along S-rail 435 ft. to pt on rail  
 Tower #35 BS  $N 81^{\circ} E$  and run  
 S parallel to rec. line at 141,  
 set spike for IM + 288 spike on  
 bank of Lake 10 ft from water  
 Tower 288 run west 150 ft set spike  
 For IM Tower 150 run N parallel  
 to rec. line 275 ft set pt for IM  
 run S 86 ft to pt 15 ft from water  
 distance from points on S side of  
 road 150.7' angle  $85^{\circ}02' W$



Ed Schubert  
 Nevís

Tues. Ed & I to 3<sup>rd</sup> Crow Wing  
Lake Hubbard Co.

Torin Site N  $33^{\circ}45'E$  on I M  
run N  $69^{\circ}51'W$  200 Tower 200  
BS S  $69^{\circ}51'E$  run

N  $33^{\circ}08'E$  203.8 to riparian meadow  
6 ft from water's edge.

T still at 200

I M bears N  $32^{\circ}47'E$  153.0

I M at cor. bears N  $20^{\circ}09'E$  11.5

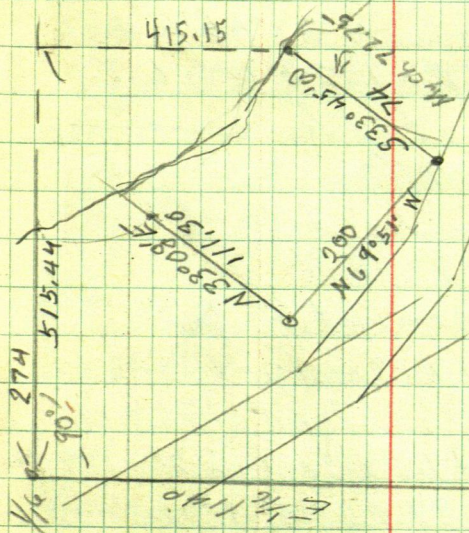
Frank Carroll

Nevis

fig description of W 100 ft of tract  
his property comes out of

See Book 254 page 731



$$\begin{array}{r} 3.7 \\ 745 \\ \hline 111.5 \end{array}$$


Ed - Bob & I to 3<sup>rd</sup> Crow Wing  
Lake

Tower I Mon Lake shore

415.15 S 515.44 E of E  $\frac{1}{16}$  Cor

Sec. 20 Site S 47°45' E on I M

run S 33°08' W 111.3

Then 111.3 BS N 33°08' E & run

N, 63°20' W 100.20 Tower 100.20

BS S 63°20' E run N 33°44' E @

141.5 IM + 51 ft = 192.5 water 6 ft

Tower 192.5 pt of beg bears

S 21°13' E 120.10 ft

from pt of beg in line with stake E  
about to I M is 99.95 ft

I write description for

Tract 2, of Lot 1 Sec 20-139-33

A Tract or parcel of Land situated in  
that part of Gov't lot 1 Section 20-139-33  
lying N of H & N<sup>o</sup> 87 & West of Crow Wing  
River as described in Book 94 of Deeds  
on Page 525 in Office of Reg of Deeds  
Park Rapids Minn and  
described as follows to wit

Beg at an I R Mon on the shore of  
3<sup>rd</sup> C W Lake placed at a point



441.42 ft East and 347.91 ft South  
 from the E  $\frac{1}{16}$  cor on N line said Sec 20  
 and running thence S  $33^{\circ}08'W$  74 ft  
 to 2<sup>d</sup> I.P.M. on the R.-of-W. line of said  
 S.H. N<sup>o</sup> 87 thence N  $63^{\circ}20'W$  along said RofW  
 a distance of 100.20 ft to 3<sup>rd</sup> I.P.M. thence  
 N  $33^{\circ}44'E$  141.50 ft to 4<sup>th</sup> I.P.M. and  
 continue N  $33^{\circ}44'E$  51. ft to point on  
 shore of said 3<sup>rd</sup> C.W. Lake Pt for I.P.M.  
 thence S  $21^{\circ}13'E$  120.10 ft to the place  
 of beg.

The land herein described extends  
 N Eerly to waters edge of said 3 C.W.L  
 and S Werly to the E of State Highway  
 87. The E  $\frac{1}{16}$  line said Sec 20 considered  
 true N+S line for this description

Gov't Lot 6 Sec 34  
Twp 141 Rge 34

Sec. 15, N $\frac{1}{2}$  SE - 140-33-

Gov't Lot 6 Sec 34 Twp 141 Rge 34  
June 3rd 1960

Bob & I to Dorset then on to Sec. 34  
old Notes by Miller copied at Port  
Rapids says on June 30<sup>th</sup> 1926

Miller T start at cor to Sec. 26-27 34-35  
run S. 11° 0.7' W. at 7659.6 hub  
at 766.1 intersect MC #4 set from  
old B.T. stamps use hub 659.6 for  
triangulation over lake at pt 1981.2  
hub which is opposite Triangulation pt  
No. B.T. at MC No 5 at 2176 hub at 2283.2  
hub at 2352.1 hub No trace of  $\frac{1}{4}$  cor.

July 19<sup>th</sup> 1926

at 3158.5 hub 3309.8 hub 3878 hub 3991.3 hub  
at 4199 hub 4386.1 hub 4456.4 hub 4733.9 hub  
4793 MC #46 at 5305.4 a hub which is opposite  
triangulation point and at right angles to MC #45  
at 5305.4 Miss 30.7 Random line is west of true  
line found SE US BT stub a US land office  
mon. set for cor. The S $\frac{1}{4}$  at 4001.5 goes E  
2668.4 -  $\frac{1}{4}$  goes E MC No 5 in 1935.9 goes E



Tower MC N<sup>o</sup> 46 run a random line  
 North at 98.8 hnt + 191.8 = 290.6 hnt  
 + 295.4 = 586.0 hnt go for lunch.  
 + 174.2 = 760.2 hnt

We can not find any  $\frac{1}{4}$  Corner  
 We go back to MC N<sup>o</sup> 46 Tower MC # 46  
 site Non our random line and set pt  
 Sover lake goes south side of lake and  
 at a pt 26 ft S we find IM pipe  
 $1\frac{1}{2} \times 24$  two Pine trees have been Blazed  
 but grown over Back to T at MC # 46  
 site S on flag at IM sec. cor.  
 IM SE cor on lake shore of tract sold  
 bears S.  $39^{\circ}39'W$  42 ft.

IM at NE cor tract sold bears N  $79^{\circ}26'W$   
 184.15 ft Tower N<sup>W</sup> cor tract sold  
 BSS  $79^{\circ}26'E$  run S  $18^{\circ}42'W$   
 172.7' to SW cor Tower SW cor  
 (work T on line bet. SE & SW cor of tract  
 sold at 408 spk on line)

Tower SW cor tract sold site N  $18^{\circ}42'E$   
 SE cor tract sold bears S  $69^{\circ}12'E$  157.75



Still over SW contract sold  
 run S  $43^{\circ}32'W$  65.15' to Ap. edge  
 of road. Tower 65.75 BS N  $43^{\circ}32'E$   
 run S  $4^{\circ}50'W$  98.90' to Ap. edge of  
 road Tower 98.9 BS N  $4^{\circ}50'E$  run  
 S  $6^{\circ}39'W$  178.45' AP edge of road  
 SW cor New tract

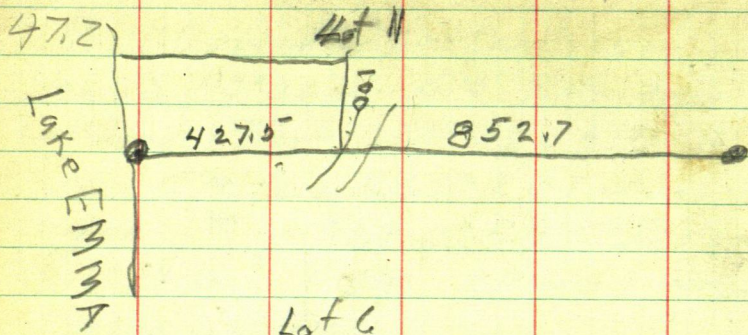
Tower 178.45 BS N  $6^{\circ}39'E$  run  
 S  $79^{\circ}55'E$  129.65' - 12 ft from

Water **Note This belongs on pg. 142**

We go to Park Rapids to check Notes  
 & get description Page 502 Book 94  
 Ethel Bell to Frank J + Blanche L Steinmetz  
 A parcel of land in Lot 8 Sec. 14-141-33 described  
 as follows Commencing at the E Co. Iron  
 on S. line of said Sec. 14 thence N  $74.5^{\circ}$  ft to  
 a pt. on N line of Co. Hy. thence West on  
 said N line 244.5 ft to the Pt of beg.  
 thence NW by (Int. Angle  $74^{\circ}45'$ ) 312 ft Iron  
 to a pt on E shore of Crooked Lake thence  
 SW by (Int. angle  $76^{\circ}05'$  on meandering  
 on shore of Crooked Lake distance 357 ft thence  
 (dep. R.  $9^{\circ}22'$ ) distance 379 ft to Pt. on N line  
 of Co. Hy. thence East (Int. Angle  $19^{\circ}48'$  on  
 N line of said Hy. dist. 750 ft to Pt of beg.



124 Jun. 17 1960 Sec. 23 - 141-34



### Hurd's Acres Resort

Vera Hurd Simpson & Mason A Simpson  
Park Rapids Minn RFD 3 Telephone 641 M.

John & I to Hurd's Resort Mr. Simpson  
take us to cement Mon. on N  $\frac{1}{4}$  line sec  
23-141-34 M.C. shows us a stake  
set on line in survey of lots South  
of said N  $\frac{1}{4}$  line

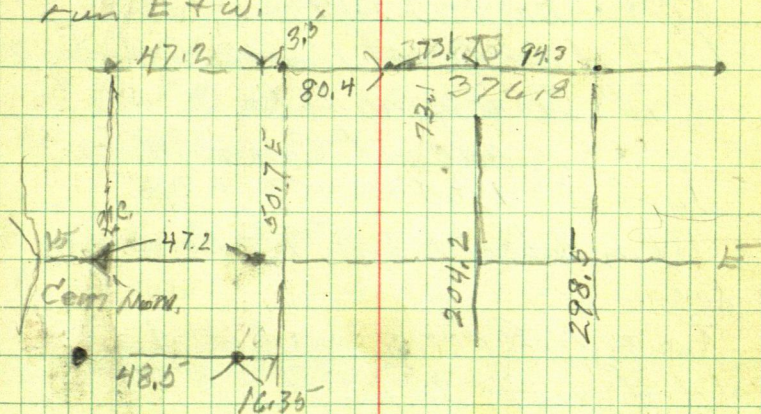
Tomer said stake but site W on flag  
at cement Mon. turn  $90^\circ$  (as there is  
a New Cabin being built which is  
on the line) but then turn  $2^\circ$  from  
N  $88^\circ$  W.

$$\sin 1.0349 \times 100.06 = 3.49$$

$$\cos 1.0349 \text{ into } 100 = 100.06$$

from hub under T chain W 47.2 to  
Cement Mon 15 ft E of water edge

from hub under T chain  $N 2^{\circ} E$   
 100.00. Tower 100.00 site  $S 2^{\circ} W$  &  
 run E + W.



129  
 94.3

298.5  
 129  
 427.5  
 14.35  
 48.5  
 492.35

LoF 25 DIA C



12<sup>h</sup>

Henry Munson

824 Washington

Anoka Minn.

Phone Ha 1-5749

Part of Gov't Lot 1 Sec. 6-140-32  
on 9<sup>th</sup> Crow Wing Lake

Habbarard County Minn

June 18<sup>th</sup> 1960

John, Robert + I to 9<sup>th</sup> Crow Wing  
Lake

Tower NE cor of said lot 1

a distance of 291.2 ft E of MC. on  
the shore of said lake site W on N  
line lot 1 and run S  $29^{\circ}50'W$  206.5  
ft to pt Tower 206.5 BS N  $29^{\circ}50'E$   
and run S  $77^{\circ}51'W$  158.35 ft to pt  
at edge of old road Tower 158.35 run  
S  $77^{\circ}37'W$  193.70 ft to I Mat NE  
cor of tract. Tower NE cor Tract BS  
N  $79^{\circ}37'E$  and run N  $46^{\circ}24'W$  88.00  
ft to NW cor of tract 6 ft from water  
X still over NE cor the SE cor bears  
S  $37^{\circ}22'W$  124.6 ft

Tower SE cor BS N  $37^{\circ}22'E$  the SW  
cor bears S  $81^{\circ}41'W$  117.4 ft 10 ft from  
water.

$$\begin{array}{r} 90 \\ 3 \\ \hline 210 \end{array}$$

$$\begin{array}{r} 20 \\ 3 \\ \hline 225 \end{array}$$

Wilsie 1950

Lots 8-9 Acc 14-141-33

Went to & located Sec. Cor  $\frac{14}{23} \frac{13}{24}$  set by Todd  
 & Reset by Wilsie in 1949 Book B - pg. 532  
 sight & chain North to  $\frac{1}{4}$  cor set by Todd  
 & Reset By Wilsie R. - 532 - 2654 ft

Set  $9\frac{1}{4}$  on E line Acc 14 at 13 27 New BT.  
 18" NP. N  $74^{\circ}$  W 148

R.  $\frac{1}{4}$  West at 33 ft. W. bdy. Trap road

1050.5 ft MC for S.  $\frac{1}{4}$  line on E shore E  
 Crooked take set Oak stake & BTs  
 16" NP East 19 ft 6" NP SW 7.2 ft

Survey in Lot B Acc 141

This is re-tracement shows page 215  
 Went to cor. N of Co Ry. 2441.5 ft W of  $\frac{1}{4}$   
 thence N. Int. Angle  $74^{\circ}45'$  distance  
 312 ft High water changed this dist to 300'  
 for preservation of cor. I.M. thence  
 westerly on Pleander line distance 357  
 continuing West had to change Def. R.  $4^{\circ}10'$   
 379 ft to change for this corner acct.  
 Highwater Non 15 ft S. 18 ft N & Ry.  
 thence E to pt of beg.



Welsie 1950

Lot 8 Sec. 14 - 141 - 33

Went to S  $\frac{1}{4}$  Cor set by Welsie in 1947  
run line East to Sec. Cor.

R. angle N 33 ft to use Highway

hub + pt. too Hub & pt. 1100 hub + pt

1358.8 No 2 hub & pt. 2553.7 Sta 3

Hub & pt. 2686  $\pm$  N & S road & Right  
Angle to cor Random 50 ft North of  
line

I.M. set for E  $\frac{1}{4}$  S. side Sec 14

BTs, tied in 10" I.P. NE. 5.3

IM 1' x 24"

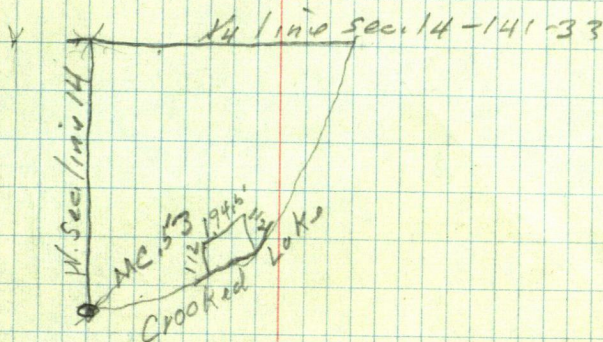
6" I.P. South 12.3 ft

Begat E  $\frac{1}{4}$  Cor. thence N 74.5 ft to N boundary  
Co. Hy. thence west on said N. boundary

244.5 ft to pt of beg. of Motes + Bounds  
parcel thence Int. Angle 74° 45' distance  
312 ft to pt on Meander line on S shore

E Crooked Lake thence on said Meander  
line Int. Angle 76° 05' distance 357 ft

thence def. R. 9° 22' distance 379 ft to Pt.  
on N Boundary Co. Hy. Thence Int Angle  
19° 48' distance 730 ft to pt of beg



Survey of parcel of land Metes & Bounds in  
Lot 6 - Sec. 14 - 141 - 33

Went to and tried to find MC N 2 53 & W 1/4 Cor's  
No evidence at 1/4

Found 2 stumps at MC 53 which check  
for distance and angles  $12''$  NP N 55 E 25.10  
 $8''$  BP. N 45 W 44.8

Set MC 53 from these stumps & tie in  
New RTs NP 10 S 84° E 22.7  
JP 8 N 51° E 13.0

set up on MC 53 run couden line on  
N shore Crooked Lake distance 479 ft  
thence North Var  $8^{\circ}20'$  parallel to west line  
Sec. 14 distance 112 ft thence (inter angle)  
 $113^{\circ}20'$  distance 194.5 ft thence S. Var  $8^{\circ}20'$   
parallel to west line Sec. 14 to pt on meander line  
N shore Crooked Lake thence west on said  
meander line 194.5 ft to pt of bed



12-9-94

Bock C. - 115' - 225'

2717.6

1358.8

X 1/2 S 1/2 7-18-47

Survey Lot 7- Sec 14- 141-33

Went to W 1/4 IM. on S. section sec 14 +

run random East Var. 8°30' set up here

Sta 1 hub + Pk. 171.8 Sta 2 hub + Pk. 457.4

Sta 3 hub + Pk. 856.5 Sta 4, hub + Pk. 1147.56

Sta 5 hub + Pk. 1280 Sta 6 hub + Pk. 1419.0

S 1/4 Cor Range N 50' to use road for Random

line Sta 7 hub + Pk. 2900.0 Range N 79'

to continue on road. Sta 9, hub + Pk.

3960 Temp E 1/4 Cor. Sta 9, hub + Pk. 4046.3

E N + S Road and Right angle to Sec Cor

$$\begin{array}{r} 14 \overline{) 113} \\ 23 \overline{) 24} \end{array}$$

R. angle S, for 60 ft offset + random

was 7 ft N. found Todd's B.T.s

20" W.P. S 32°15' 63.50 found + script legible

with tree found down

$$\begin{array}{r} 14 \overline{) 113} \\ 23 \overline{) 24} \end{array}$$

+ new B.T.s

20" W.P. Sta S 4°30' W 55.2

5" Wash S 4°30' E 73.

1 X 24" iron pipe set correct all pt. according to 7 ft N calualstair

Old RR grade was built where this road is

Not located MC 75 + MC 76 gone for RR grade filled in here. I set 1/4 bet Sec. 14-23

Bts. ties to 1/4 Cor Sec 14-23 - + iron set

12" W.P. S 80°30' W 116-18" W.P. S 43°50' W 96.0

E 1/4 was met at 2717.6 + S 1/4 cor at 1358.8 for

pro-rata distance of total 4046.3

$$\begin{array}{r} 954.55 \\ 770.7 \\ \hline 1838.5 \end{array}$$

$$\begin{array}{r} 382.855 \\ 267.34 \\ \hline 115.49 \end{array}$$

$$183.85 \sqrt{115.49} = 32.08$$

$$\sin 531891 \times 217.11 =$$

$$\cos 846813 \text{ into } 183.85 = 217.11$$

$$\begin{array}{r} 194.7 \\ 310.9 \\ \hline 3105.6 \\ \hline 252.8 \end{array}$$

$$\begin{array}{r} 2 \overline{) 21711} \\ 408. \end{array}$$

$$\begin{array}{r} 194.7 \\ 310.9 \\ \hline 3105.6 \end{array}$$

$$N 3208'E$$

$$\begin{array}{r} 21711 \\ 109 \\ \hline 10911 \end{array}$$

$$\sin 5318.91 \times 109.11 = 58.03 \text{ EN}$$

$$\cos 846813 \times 10911 = 82.40 N$$

$$770.70 E$$

$$382.855$$

$$\begin{array}{r} 471.1 \\ 4846813 \\ 10911 \\ \hline 86310 \end{array}$$

$$\begin{array}{r} 89060 \\ 32.48 \\ \hline 57.52 \end{array}$$

$$\begin{array}{r} 846813 \\ 846813 \\ 7401317 \\ 846813 \\ \hline 923757 \end{array}$$

$$\begin{array}{r} 770.70 \\ 92.40 \\ \hline 86310 \\ 382.855 \\ 58.03 \\ \hline 324.82 \end{array}$$

$$89.60$$



25037'E 100

Sine 436017 x 100 = 4360 E

Cosine 899739 x 100 = 89.97 N

$$\begin{array}{r} 274,77 S \\ 8997 N \\ \hline 18480 \\ \hline 27477 \end{array}$$

$$\begin{array}{r} 608.74 E \\ 4360 E \\ \hline 65234 \end{array}$$

$$\begin{array}{r} 324,82 S \\ 18480 S \\ \hline 140,02 \end{array}$$

$$\begin{array}{r} 863,10 E \\ 65234 E \\ \hline 210,76 \end{array}$$

$$210.76 \overline{) 140.02} \quad .6643575-$$

$$\begin{array}{r} 560 \quad 24' \\ 217 \\ 119 \\ 05 \\ 07 \\ 10 \end{array}$$

011

$$\begin{array}{r} 2379 \\ 1045- \\ \hline 11302 \\ 100 \\ \hline 11302 \end{array}$$

$$\begin{array}{r} 23378875 \\ 4049 \\ \hline 223375 \\ 4475- \\ \hline 1947 \\ 2528 \end{array}$$

Ethel Bell to  
 Frank J. Steinmetz & Blanche L  
 description

A parcel of land in Lot 8 Sec. 14  
 Trip 141 Rge 33 described as follows  
 Commencing at the E 1/4 corner on iron  
 on the S 1/4 of said Sec. 14 thence  
 North 74.5 ft to a point on the N boundary  
 of County highway thence West on said  
 N line 244.5 ft to the pt of beginning  
 thence N W by interior angle  
 $74^{\circ}45'312$  ft (iron) to opt on E  
 shore of Crooked Lake thence S W by  
 Int Angl  $76^{\circ}05'$  on meander line  
 on shore of Crooked Lake dist.  
 357 ft thence deflect R,  $9^{\circ}22'$   
 distance 379 ft to opt on N  
 line of County highway thence  
 East Int Angl  $19^{\circ}48'$  on N line  
 of said Co. highway 750 ft to pt  
 of beg approx 2.69 acres

See Book C page 215-





Copied Sept 7 1960 at Park Rapids M. 129

Witsie 8-8-51

Survey Lots in BKK A & B. Pine Haven Beach

Found IMs at NW + NE cor's of plat

Set up at cor Lot 9 - 30 ft S of N line, Gov't Lot 3  
thru def. L  $45^{\circ}$  at pt at 100-50-60  
+ 67 laid out line for lots 12-13. Thru S  
135 ft thru def. L.  $45^{\circ}$  210' pins  
25 ft street 240; 26 ft to SW cor Lot 7  
BKK. B

Called out for survey of lots  
1 & 2 of plat of Pine Haven Beach  
by F L Hale

Tel. 702 W on West side of  
Long Lake

Sept 8<sup>th</sup> 1960 Bert & I to Runner  
home at 10. rain wait until  
rain stops Bob & I drive to Park  
Rapids arrive at 11-45 get gas drive  
to Long Lake 2 miles from Hubbard +





Tower cement man Louis give to Dr  
NE cor.

Work on N line Louis tract between  
IM chain E @ 170 pin + 102.6 IM AP  
Tower IM one  $\frac{1}{16}$  line MC side N run  
S 55° 20' E 25 ft

Still at MC 7 m on lake bears N 67° W  
16.65 IM angle pt bears S 17° W 52.7

Tower AP ps 17° E the N line of Louis  
tract runs S 73° 09' W 170 + 102.6 = 272.6

Back on cement mon. 50.7 ft N of cor  
BSN the stake along shore 25 ft from MC  
bears. N 12° 10' E 97.7 W 7 ft



C.V. Goetchius on Potato Lake  
Sept 11<sup>th</sup> 1960 Sunday

Goet Lot 2 Sec. 23 Twp 141. N 36

Hubbard County

As Goetchius has been after me  
to run out and write description  
for part of said Lot 2 -

He says he sold the E 200 ft and  
W 100 of E 300 I check descriptions  
in Reg. of Deeds Office find that is  
not so they are met & bound  
descriptions the E 200 ft do not  
close by over 9 ft.

John & I to Park Rapids at  
Smith's Trailer Park we pick up  
Goetchius and drive to Potato Lake  
try and work T on line but can not  
as a fence is in the way we set T  
on top of bank with Nor flag at 1 M  
355.7 N of MC and run S at huber  
shore MC sets S 82° 18' E 2.20

Corrections using Wilsie's list  
as 355.7 as correct.

S 82° 18' E 2.2

Sine  $990983 \times 2.2 = 2.18$

Cosine  $133986 \times 2.2 = 1.29$

$$.00612876 = 0^{\circ}21'$$

353.7 into 21802

Tower hub on shore BS N  $0^{\circ}12'E$   $00^{\circ}00'$  in  
parallel to  $\frac{1}{16}$  line run S  $66^{\circ}49'W$  200.7  
mils cor. 6 -

Tower pt. 6 S BS N  $66^{\circ}49'E$  on ME  
and run S  $79^{\circ}30'W$  100.2 to place  
of beginning

run N  $73^{\circ}44'W$  200 ft. W 10 ft S

Tower 200 BS S  $73^{\circ}44'E$  run

N  $63^{\circ}33'W$  200 ft W 7 ft S

Tower 200 BS S  $63^{\circ}33'E$  & run

N  $64^{\circ}44'W$  170.10 to IMA end of survey

The rest of lot being sold and survey by  
Wilise

Chuck Cammer

Tower first 200.7 ft hub BS N  $66^{\circ}49'E$  200.7  
run S  $79^{\circ}30'W$  line runs N  $2^{\circ}45'W$

IME lens N  $77^{\circ}55'E$

BS N  $79^{\circ}30'E$  run N  $73^{\circ}43'W$  200

N  $63^{\circ}34'W$  200

N  $64^{\circ}44'W$  W to L

Tower W line of E 300 ft back S & W  
BS N  $79^{\circ}30'E$  the W line runs N  $2^{\circ}03'W$



136

1298

797 159.65

129.6

Taper at 500 ft from Yellow

BS S  $73^{\circ}43'E$  & run North parallelto E line  $36.35^{\text{had}} S + 125.8^{\text{had}} S + 60 + 87.20^{\text{had}} + 151.65$ 

Taper 1 4610 IM NW corner tract 2

bears S  $69^{\circ}52'E$  187.00 to yellow

IM

151.65

87.20

20

1258

36.35

46100

Taper 200 BS S  $63^{\circ}34'E$ run, N  $1^{\circ}W$  No offset road S  $120 + 125.6$ Nonnormal, then S.  $130 + 77.7$  ironrun S.  $66^{\circ}25'E$  203.3

110 + 89.1 + 13 &amp; 32.3.

Site S + run S.  $89^{\circ}58'E$ 

146.1

Sec. 15- 141-32 Lot 6.

Sept 26-1960

Bob. & I to Sec. 15 where we meet John Horstman who shows us the cor to Secs 15-16-21-22 set by Gay Todd  $2\frac{1}{2} \times 48^\circ$  I.M.

we drive North  $\frac{1}{2}$  mile the  $\frac{1}{4}$  iron cor has been pulled out by road grader

we chain in from B.T.s which are WPine stump old BT  $24 N 67\frac{1}{2}^\circ W 40.7$

New B.T. twin Oak 24 - NE  $36.5^\circ$  we find

B.T.s and chain distance called for and set a  $40^\circ$  spike set flag drive S to top of hill work T on line bet  $\frac{1}{4}$  & SW cor

Sec. 15. from spike on top chain S

1358.6 to I.M. Sec. Cor.  $16.5^\circ$

1326.

32.6

$\begin{array}{r} 37 \\ 113.5 \\ 49.5 \\ \hline 610.5 \end{array}$

Set spike hub in  $\Phi$  road  $204.4 N$  of Sec Cor to Sec. 15-16-21-22

Then  $204.4$  mile S on Sec cor + run

$\Phi$  road runs  $N 51^\circ 22' E 781.53 = 610.5 E$

sin  $781.57$  into  $610.5 = 781.53$

cosine  $624334 \times 781.53 =$

Then  $781.53$  BS  $S 51^\circ 22' W$  + run

South parallel to W line

cosine  $781.57$  into  $33^\circ = 42.25$



Henry B. Kuckler & Helen J.  
to

John Horstman & Anna M

All that part of Gov't Lot 6 Sec. 15-141-32  
except the West 37 rods thereof lying  
South of the present road now constructed  
over & across said premises

-2-

Lots 1-3-4-5-6-7 Bk. 2 of the Plat of Lakelands  
Outlot 1 of Plat of Lakelands except a part  
thereof bounded & described as follows commencing  
at the NW cor. of said Plat of Lakelands being the  
the W  $\frac{1}{4}$  cor. on the S  $\frac{1}{4}$  line of sec. 15-141-32  
thence E on N line of said plat a distance of 349  
ft to pt of beg. thence S a distance of 578.4 ft  
to N boundary of Co. Road as now located over  
and across said premises thence NE cly on  
N boundary of said road to the NE cor of said  
outlot 1, approx 125 ft W. of the NE cor of said Plat  
thence West on N line of said plat to pt of beg.

Description for deed outlot 1 Lakeland Plat  
A parcel of land in Outlot 1 Lakeland Plat as of record  
in Reg of Deeds Office Par. R Rapids Hubbard Co. in  
Sec. 15 described as follows commencing at  
NW Cor said Lakeland plat also W  $\frac{1}{4}$  cor on S  $\frac{1}{4}$  line  
thence E on said N line said Lakeland Plat 349 ft

46.8 <sup>50.</sup>  
3.2

35-09-4.54:5/39  
<sup>5.5</sup>  
405

To place of beg. Thru S. to N boundary of Co road  
in Lakeland Plat distance 578.4 thru NE only  
on N boundary of said road in Lakeland Plat to  
NE cor said outlat N 91° or approx 125 ft W of  
NE cor said Plat Thru W on N line said Plat  
1st pt of beg. approx 3 acres

Still over pt 610.5 ft W of W line sec  
15 run & road 781.53 ft N 51° 22' E  
of pt on W line 204.4 N of SW cor sec 15  
run. S parallel to W line at hut in  
& old Co road and on bank of 11.7<sup>th</sup> Crow  
Wing Lake. Total at 610.5 run  
S. 24° 00' E 330 + 20 = 350 ft + 27.5 ft  
@ 405. water 10

Thru 405 BS N 24° W + run S. 81° 10' W  
166.6 water 8' 3"

Thru pt in & 46.8 N of run S 88° 16' W  
along & old Co. road 454.5 to station road  
N 51° 22' W 2006 along & new road



Sept 27-1960

Bob & I to Sec. 15. when we pick  
up John Horstmann.

Turn spike hub in & road  
N  $51^{\circ}22'E$  781.53 ft. to S  $51^{\circ}22'W$   
along & road and set spike hub  
from hub in & turn  $90^{\circ}$  run  
N  $38^{\circ}38'W$  200 ft. at 40 ft set spike  
about 2 ft from edge of top of ditch  
more S  $51^{\circ}22'W$  Turn  $90^{\circ}$  at  
42. set spike on top of ditch cut of  
road.

We take rough run of & Co Road  
Turn hub 9 ft Nely from & BS S  $51^{\circ}22'$   
W spike at cor is 56 ft + 781.53 from  
W line sec. 15 turn. Alada  
every 35 steps 105' : N  $67^{\circ}35'$  &  
205' N  $68^{\circ}50'E$   
285' N  $72^{\circ}E$   
400 N  $75^{\circ}30'E$

Cor Road is Hubbard County. 25

Frank J. Steinmetz

1358.8

141

Oct 4<sup>th</sup> Tues. 1960

1358.8

2717.6

I go to Park Rapids talk to County  
Commissioners Look up records of  
Surveys made in Sec 14-141-33

As I have to do some surveying in  
Gov't lot 8 for Frank J. Steinmetz

Vice President White Baking Company of  
Missouri Inc. 4015 Papin St. St. Louis 10<sup>mo</sup>

Oct 15<sup>th</sup> 1960

Bob & I to Crooked Lake we go to SE  
corner of Sec. 14 where Wilkie's Notes  
Recorded in Hubbard Co. Record book C pg 115  
dated July 1947 which call for a

20° W.P. stp. S 4° 30' W 53.2

5° W Obk S 46° 30' E 73

We find both B.T. from which we set a  
stake for corner Sec. 13-14-23-24-141-33

we drive  $\frac{1}{2}$  mile E to where Wilkie's  
Notes say he set the  $\frac{1}{4}$  bet. Sec. 141-23

with trees as follows to 1 x 24" I.P. from which  
12° W.P. S 80° 30' W 116. - 18° W.P. S 43° 50' W 96.0

Steinmetz Description on page 122

Back to Sec 14 - 141-33 we find Wilkie  
E  $\frac{1}{4}$ . We will run a line arising the road  
from that site East on flag at sec cor 347.8'

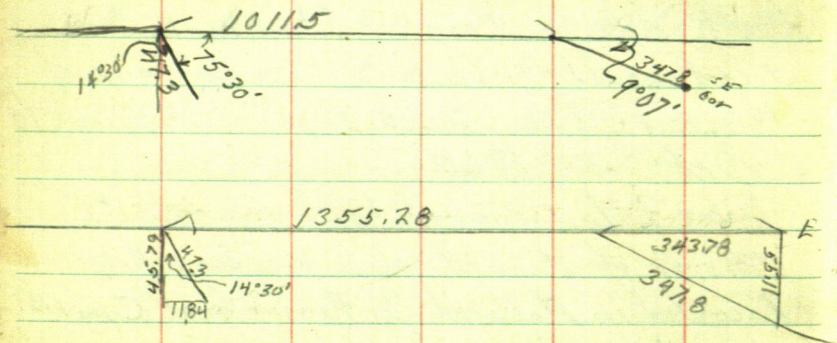
W of cor ran S. 80° 52' W 1011.5 IM  $\frac{1}{4}$

sets S 23° 38' E 47.3



Oct. 6<sup>th</sup> 1960

Robert & I to Sec. 14-141-33 check chain  
 S line Sec 14 from SE cor to E  $\frac{1}{4}$  from A.P. in  
 road to A.P. in road 1011.5



9°07'

$$\text{Sine } 158445 \times 347.8 = 55.11 \text{ E}$$

$$\text{Cosine } 987368 \times 347.8 = 343.78$$

$$\begin{array}{r} 8960 \\ 7530 \\ 1430 \end{array}$$

$$\begin{array}{r} 56.11 \\ 45.79 \\ 9.32 \end{array}$$

14°30'

$$\text{Sine } 250380 \times 47.3 = 11.84 \text{ E}$$

$$\text{Cosine } 968148 \times 47.3 = 45.79$$

$$\begin{array}{r} 1011.50 \\ 343.78 \\ 1355.28 \\ 1184 \\ 1343.44 \end{array}$$

Corrections

$$\begin{array}{r} 1184 \\ 45.79 \end{array}$$

$$1343.44$$

$$45.79$$

$$\begin{array}{r} 45.79 \\ 56.11 \\ 9.32 \end{array}$$

$$1343.44 \text{ into } 9.32 = .0069374144$$

## Corrections East

Each foot E goes S. 0069374144 + 45.79

run West 11.84 + 139.25

hub under T is 11.84 W of E  $\frac{1}{16}$  + 139.25 W = 150.09  
W of  $\frac{1}{16}$

150.09 X .0069374144 = 1.04

Hub, 150.09 W of  $\frac{1}{16}$  goes S 45.79 then N. 1.04 =  
44.75 S = line

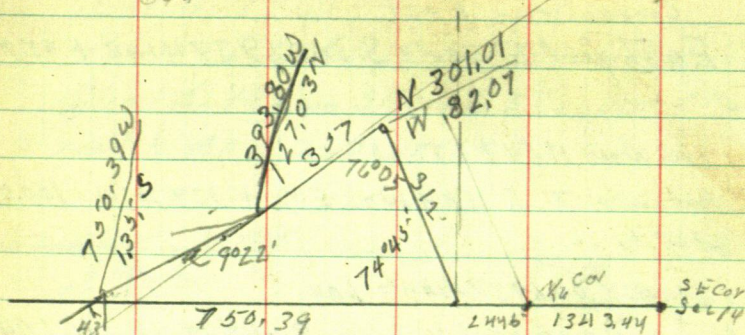
Tower 150.09 W Turn 90° & run S 44.75  
set on line

Tower corrected hub & run on true declination  
244.5 ft W of E  $\frac{1}{16}$  Turn 90° & run North 74.5  
set spike on line cuts 0.40 E of RR Angle iron  
in cement and our point for cor corner 1.8 N of  
IM Tower spike site S Turn 90° R + 74° 45'  
run but true offset E .3 at 120 pin + 160 pins =  
280 (cross section 280.5) 280 + 20 = 300 pins  
+ 12 = 312 call for in Deed

Tower 312 we run according to description  
on page 122 set points IM - 2° page  
Leans L 43° 08' 24.25'



6  
144



Int Angle  $74^{\circ}45' = N 15^{\circ}15' W 312'$

Since  $263031 \times 312 = 82.07 \text{ W}$

$\cosine\ 964787 \times 312 = 301.01\ N$

Int. Ang  $76^{\circ}05' = S 60^{\circ}50' W$  357

Since  $873206 \times 357 = 311.73 \text{ W}$

$\cos 140^\circ 48' 35.2'' \times 357 = 173.985$

Def. R.  $9^{\circ}22' = S 70^{\circ}12' W$  379

$514 + 940881 \times 379 = 356.59W$

$$\cos \alpha = 338738 \times 379 = 128,385$$
$$L 43^{\circ} 08' 24.25'' = S 27^{\circ} 04'$$

Since  $45-5027 \times 24.25 = 11.03$  W + 75039 = 761.42

$\cos 48^\circ 890478 \times 24,25 = 21,59$   
 $5 + 1,35 = 22,94$

from pt of leg fence is 63 ft E  
at N 15° 15' W 300 ft IM is 3' E

N 15° 15' W 300

Sine 263031 x 300

Cosine 944787 x 200

S 60° 50' W 357

Sine 873206 x 357

Cosine 487362 x 357

Change Dep. to 40° 10' N = S 65° W 379

Sine 906308 x 379 = 343,49 W

Cosine 422618 x 379 = 16017 S

393,8 W

343,49 W

737.29 W

16017 S

12703 N

33,14 S



## Harstman

Ed & I to Sec 15 - 141.32 - E  
 Lot 6 = 610.5

Turn pt on E road 37 rods E of

West line into S  $51^{\circ}22'W$  on flag

run N  $65^{\circ}09'E$  300 run

S  $89^{\circ}41'E$  300 run

S  $68^{\circ}07'E$

S  $65^{\circ}09'E$  300

Sine  $907411 \times 272.22 E$

Cosine  $420244 \times 126.07 S$

S  $89^{\circ}41'E$  300

Sine  $999985 \times 300 = 300$

Cosine  $005527 \times 300 = 1.66$

S  $68^{\circ}07'E$

Sine  $891929 \text{ into } 140.97 = 158.05$

Cosine  $452175 \times 158.05 = 71.47 S$

$158.05 + 300 + 59.85 =$  *apix*  
 in Tan.

According to Recorded records

Book C pg 7 Park Rapids Shows

1326 = N line Lot 6

1330 = distance on E + W E

= 4 ft difference

1338 along W line =  $1338 \div 4.0 = 002989$

Wgt. =  $0^{\circ}10'$



**COMMERCIAL CREDIT CORPORATION**

P.O. BOX 190  
112 FOURTH STREET  
BEMIDJI, MINNESOTA

November 17, 1962

PL. 1-1320  
PL. 1-1321

Harold Curo  
Box 66  
Walker, Minnesota

0.1  
555.44  
+  
570  
688.  
108.00  
5280  
5680  
620.80

Dear Mr. Curo:

Please be advised that on Wednesday, November 21, we will be coming down to Walker for the purpose of repossessing your truck which we have been financing for you.

Please have the truck ready for us to take or else we will get the aid of the local law enforcement agency.

Yours truly,

*J. D. Henzlik*

J. D. Henzlik,  
Credit Collection Manager

JDH/dd







North

204.40

487.94

692.34N

127.735

564.61N

56.62

607.998

1338

808

830

South

126.07

166

127.73

56.62

1338.1

564.61

773.39.

002989

830

2.48

1324

248

1323.52

East

610.50

272.22

300

1182.72 E

1323.52

1182.72

1408.0

002989

X 77339

2.31

1324

231

1323.69

1182.72

140.97

Dinner at Horstmanns

Turn pt 1323.69 E of west line

BSN 63°07'W we check this angle

find it to be 68°07'

S 68°07' E

Sine 927945 into 140.97 = 151.73

Cosine 372718 X 151.72 = 56.55

158.05

151.73

6.32



Tower 15-1.70 BS 568°07'E  
 7 run 30°10'W have to offset  
 0.50W

Tower spike on bank 15 ft from  
 shore on 0.50' offset W site N 0°10'  
 E on offset line run

N 83°54'W 109.45 - 15 up shore

Tower 109.45 - BS 583°54'E run  
 308.9 - W 15 good beach 563°54'W

N 78°05'W 162.7

N 83°54'W 109.45

Sine 994338 X 109.45 = 108.83

Cosine 106264 X 109.45 =

N 63°54'W 308.9

Sine 898028 X 308.9 = 277.40

Cosine 439939 X 308.9 =

N 78°05'W 162.7

Sine 978449 X 162.7 = 159.19

Cosine 206489 X 162.7 =

S 81°10'W 166.6

Sine 988139 X 166.6 = 164.62

Cosine 153561 X 166.6 =

150

# Pant of Hurd's Acres

75

80.4

80.4

80.57

732

A F Cox

148.2

472.6

Lot 26

121.9

15°28' E

50.7

21°29' E

852.7

S 90°33' W  
angle fig

N 76 line

427.5

Lot 25

361.7

58°55' W

24

121.8

22.5

275.2

23

248.5

119.4 + 59.5 + 148.2

from hub 227.1 91.1 on shore  
 bears R 11°36' - 43 ft.

1482

1482

59.5

59.5

1077

20.77

1194

1194

227.1

3271



588°57'W

49°30'N

15-1

Sec 20

1115

8857

16.5

339.8

5389

2512.1

581

8162

2044.4

53.2

17.52

470

1706

934

121.9

16.2

21.3

89.3

9.25

50.7

89.3

21.3

16.2

121.9

934

1706

470

53.2

2044.4

8162

581

2512.1

5389

339.8

S 41°23' E

S 18°20' E

S 2°24' W

N 39°21' E

N 0°33'

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

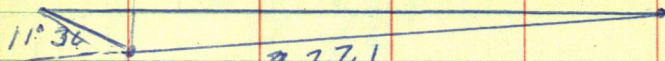
N 39°21' E

N 39°21' E

N 39°21' E

N 39°21' E

89°



$$\begin{array}{r} 327.1 \\ 42.12 \\ \hline 369.22 \end{array}$$

11° 36' 43 ft

$$\sin 20108 \times 43 = 42.12$$

$$\cos 97958 \times 43 = 92.12$$

$$\begin{array}{r} 310 \\ 97958 \\ 43 \\ \hline 293874 \\ 391832 \\ \hline 421219 \end{array} \quad \begin{array}{r} 979 \\ 20108 \\ 43 \\ \hline 60324 \\ 80432 \\ \hline 864644 \end{array}$$

$$\begin{array}{r} 269.12 \sqrt{865.00} \\ 80736 \\ \hline 58640 \\ 53824 \\ \hline 48160 \\ 26912 \\ \hline 124800 \\ 648 \end{array}$$

$$\begin{array}{r} 236912 \\ 4 \\ \hline 147648 \end{array}$$

$$\begin{array}{r} 26912 \\ 32105 \\ \hline 134560 \\ 26912 \\ \hline 53824 \\ 4 \\ \hline 80736 \\ 0.9 \\ \hline 84400.9 \end{array}$$

$$\begin{array}{r} 134560 \\ 26912 \\ \hline 53824 \\ 4 \\ \hline 80736 \\ 0.9 \\ \hline 84400.9 \end{array}$$

$$\begin{array}{r} 36922. \sqrt{865.00} \\ 73944 \\ \hline 125560 \\ 110766 \\ \hline 147940 \\ 547688 \\ \hline 25200 \end{array}$$



Correction are ~~10 32105~~  
 but 148.2 goes N 002349  
 but 148.2 W goes N 3,48  
 \* 207,7 " " " 4,89  
 " 3271 " " N 7,68,

234

$$\begin{array}{r}
 \overset{3}{36922} \\
 \underline{234} \\
 147688 \\
 11,0766 \text{ } 8 \\
 73844 \text{ } 4 \\
 \hline
 86397 \\
 84400
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{5}{36922} \\
 \underline{234008} \\
 295376 \\
 147688 \text{ } 8 \text{ } 0 \text{ } 0 \\
 11,0766 \text{ } 4 \\
 73844 \text{ } 4 \\
 \hline
 33748
 \end{array}$$

$$\begin{array}{r}
 \overset{2}{36922} \\
 \underline{235} \\
 184610 \\
 11,0766 \text{ } 6 \\
 73844 \text{ } 7 \\
 \hline
 86766
 \end{array}
 \qquad
 \begin{array}{r}
 \overset{9}{302298} \\
 147688 \\
 11,0766 \\
 73844 \text{ } 4 \\
 \hline
 84406
 \end{array}$$

Mrs Virginia Thompson  
 a part of Lot 2 Blk 2 of Auditors Plat  
 No 3. - Description from NW cor  
 of said Lot 2 Blk 2 run S. 50 ft E 50  
 N 50 - W 50 place of Beg.

Oct 24-1962 - Snow & Cold.

I get a phone call from Park  
 Rapids - Dwight A Haberman.  
 Minister First Methodist Church -  
 803 Roy Street Ortonville Minn - his  
 Mother-in-law bought a part of Lot 2 Blk 2  
 Auditor Plat No 3 - he is here to see  
 what land the house set on as they  
 have been told different tales about  
 it. tried to get it surveyed other  
 surveyor stopped work before the  
 work was finished.

I check Auditor's Plat No 3  
 find it the same as Plat shown on  
 page 88 of this Book 292.

This should not take long if  
 we can find the I M again which  
 we found while doing the work on  
 page 85 this Book

IF the Rainbow INN is not over  
 the K of W line of highway 71 if it  
 is we will have to affect by it,



Mileage Gas Sta Park Rapids  
Lots 8-9-10 and 11 BIKI Auditors Plat No 2

-1

154

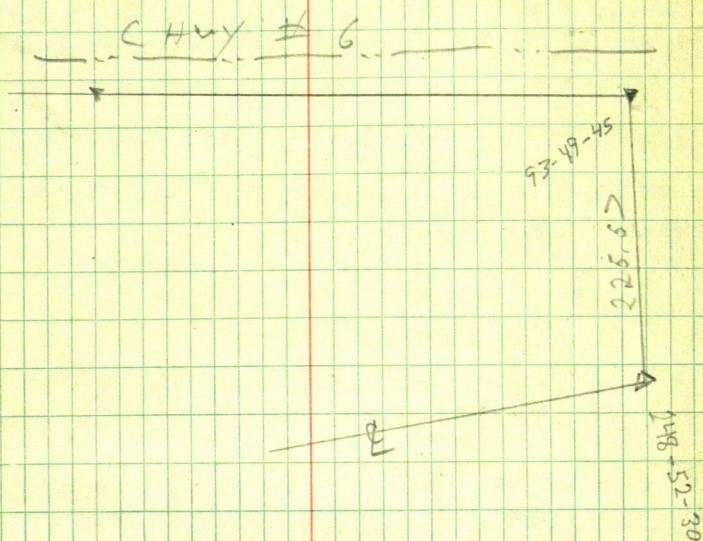
~~DA~~ CHARLY MAYER

93-50

187-39-80

93-49-45





of shore line of lake. Thence Thru East  
parallel to S. line lot 4 - 450 ± To  
shore line Thence S. nearly along shore  
line to top of ledge.

Deveraux to A. Kenson

Book 97 page 167

that part lot 4 sec 32

beg. on Th. S.  $\frac{1}{4}$  cor on NTS & of road  
ac. MK & with IM Thence extending  
S. on road & 196.60 ft Thence E. at  
90° 188 ft Thence NE. E. at a distance  
angle of 100° 15' a dist. of 200 ft Thence  
at natural angle, 79° 43' a dist. 221.50  
to top of ledge, 96/100 over

Deveraux to A. Kenson

Book 102 page 476

that part of lot 4 sec 32 described as  
commence at Th. S.  $\frac{1}{4}$  cor on NTS &  
MK & by IM Thence S on road &  
196.7 to top of ledge Thence continue S  
on road & 45.8 ft Thence E at 90°  
173.5 ft Thence NE. E. at natural angle  
105° 00' 49 ft Thence West at natural angle  
74° 40' - 185.4 ft to top of ledge.



Leonard + John Wright  
 the SW 1/4 of the SW 1/4 Sec 32 -  
 Now to lot 4 Sec. 32 except the  
 following described tracts

Date of Recd date of Recd page

Dec 23 1925	Dec 24 - 1925	D 46	262
Apr 19 1949	Apr 22 49 -	D 87	185
Aug 29 1953	Aug 31 - 53 -	D 97 -	167
June 14 57	June 21 - 57 -	D 102 -	472

Book 445 - pg. 262

Commencing at NW cor lot 4  
 thence West on N. line lot 4 a distance of 300  
 ft thence in a S waly direction and  
 parallel with western edge of Long Lake  
 and back from western edge 300 ft to  
 distance of 907 ft to a pt. thence  
 East to lot show 300 ft thence NE by  
 along shore to pt of beg. intention to  
 convey a tract 300 ft wide by 907 long  
 in the lake thence on NE cor lot 4  
 Rosecrans to Jacobson

Book 87 pg. 186

That part of lot 4 Sec 32 described as  
 leg of Mc Hermann being the SE corner  
 lot 4 thence West on S line lot 4 - distance  
 450 ft thence NE thence NE by direction  
 a dist of 4150 ft to a pt 450 ft west

$$\begin{array}{r}
 189.4 \\
 \underline{6} \\
 2 \overline{) 183.4} \\
 \underline{91.7} \\
 91.7
 \end{array}$$

99.6  
93.4

88  
91.7  
92.8



$$\begin{array}{r} 300 + \\ 190 \\ \hline 490 \\ 223 \\ 310 \\ \hline 842.3 \end{array}$$

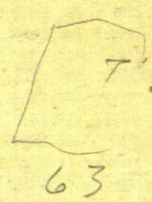
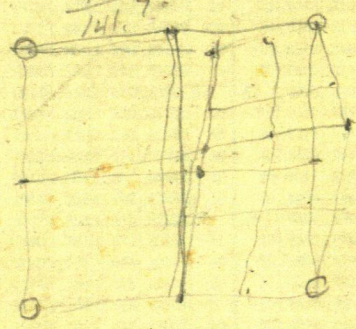
$$\begin{array}{r} 290 \\ 18 \\ \hline 272 \end{array}$$

$$\begin{array}{r} 288.2 \\ 52.9 \\ \hline 235.1 \end{array}$$

$$\begin{array}{r} 797 \\ 30 \\ \hline 109.7 \\ 3 \\ \hline 106.5 \end{array}$$

$$\begin{array}{r} 997 \\ 42 \\ \hline 141.7 \end{array}$$

169.25



$$\begin{array}{r} 50.60 \\ 4 \\ \hline 44.6 \end{array}$$

$$\begin{array}{r} 50 \\ 131.5 \\ \hline 181.5 \\ 42 \\ 253 \\ \hline 198 \end{array}$$

$$\begin{array}{r} 89 \\ 164 \\ \hline 253 \end{array}$$

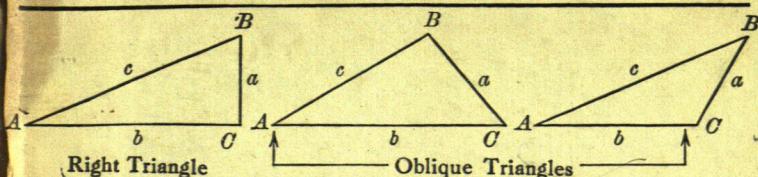
$$\begin{array}{r} 2024 \\ 2024 \\ \hline 253.64 \\ 253.64 \\ \hline 253.64 \end{array}$$

36 LV river  
 2668.3  
 2286.9.  $\frac{1}{2}$  E. 24 ft  
 3750 MC

Park Rapids  
 Wells 256M



# TRIGONOMETRIC FORMULÆ



## Solution of Right Triangles

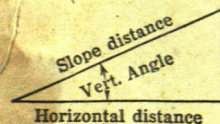
For Angle A.  $\sin = \frac{a}{c}$ ,  $\cos = \frac{b}{c}$ ,  $\tan = \frac{a}{b}$ ,  $\cot = \frac{b}{a}$ ,  $\sec = \frac{c}{b}$ ,  $\csc = \frac{c}{a}$

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	$\text{area} = \frac{bc \sin A}{2}$
$A, B, C, a$	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  $(1 - \cos \text{vertical angle})$ . 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.