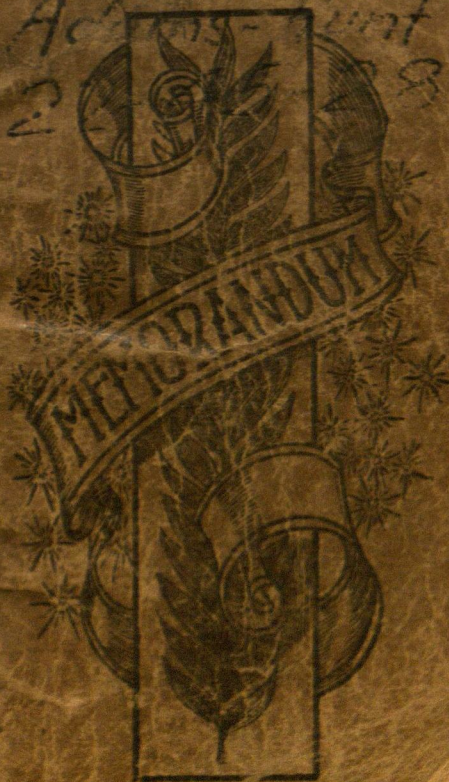


Unit 62

Accessions - Unit  
2 8



Bay Lake  
4.5.28

INDEX

Adams - Hunt Swamp 27  
Old Vale 2.

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

2 Sec 22-45-28

Garrett, Va.

Page 170 Book H

Reg @ 14-15-22-23-45-28

OB down - Post in N edge of  
Marsh run

West @ 1620.50

(Feet of Linker?) fat

MC on E shore Bay Lake

OB Mumps set foot from  
same pt

Then using this for a bore

A meander took shore as follows

S  $7^{\circ}15'$  E 450 ft. App

S  $25^{\circ}3\frac{1}{4}'$  W 273

S  $11^{\circ}$  W 157

S  $33\frac{1}{4}'$  W 267

S  $11^{\circ}\frac{1}{4}'$  W 51.6

Then East parallel to

bore line 1848.3 to

intersection of sec line

Bet 22-23

Then N on sec line 1070.2

ft. place of bay

Containing 40.04 acres

Buy @  $\frac{1}{4}$  port OB for this  
corner bet 22-23 - 75-78

So on sec line 405.7

To MC. OB found using  
this line for base & run

N  $73^{\circ} \frac{1}{4}^{\circ}$  W 300

N  $51^{\circ} \frac{3}{4}^{\circ}$  W 159

N  $73^{\circ} \frac{3}{4}^{\circ}$  W 200

N  $64^{\circ} \frac{1}{4}^{\circ}$  W 156

N  $46^{\circ} \frac{1}{2}^{\circ}$  W 114.

N  $42^{\circ} \frac{1}{2}^{\circ}$  W 471

N  $64^{\circ}$  W 300

North 10.3

East 1412.3 to sec line  
bet 22-23

So on sec line 460 to

place of beg = 16.20 acres

Chain

W. Hunt and

Ira T. Ory

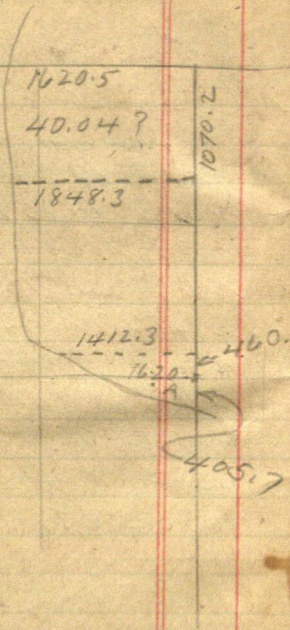
Surveyed Jan 13-14-1911

Rec Jan 30-1911

Lewis E Garrison

Cs Surveyor BS

4



Garrison  
Jan 13-14-1911  
B.S.

July 19-1921

Curo and Co. with  
Gerald Curo and I over  
Babcock to Beaumont

7. am to work for

Adams L.

run E + W  $\frac{1}{2}$  acre 22-  
45-28

6

521.00

759.00

N 1/16

1320.00

114

7160 = 4719.00

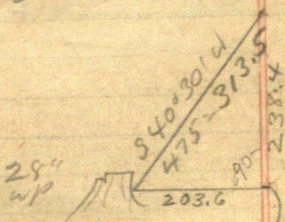
$$\begin{array}{r}
 759 \\
 1320 \\
 \hline
 2059 \\
 1320 \\
 \hline
 3379
 \end{array}$$

$$\begin{array}{r}
 3379 \\
 1320 \\
 \hline
 4699 \\
 4719
 \end{array}$$

$$\begin{array}{r}
 759 \\
 3960 \\
 \hline
 4719
 \end{array}$$

5280.  
4719  
 501  
 759.00  
561.00  
 192.00  
475  
 2850  
2850  
 313.50

7150  
42900  
 42900  
4719.00  
 2440  
 2079  
1320  
 789



40°30'

Since  $64945 \times 313.5 = 203.60$

Corr:  $76041 \times 313.5 = 238.39$

76041  
3135  
 0205

76041  
313.5  
 380203  
 228123  
 76041  
228123  
 238388535  
 64945  
313.5  
 3247252  
 194835  
 64745  
194835  
 203602573

8

45-28  
US Nales

Nabla 21-22 ✓ 11:30

21-22-27-28

Town 75 19W 33

6541E8

8N 47 1/2 W 14

Bank 7N 52 1/2 E 53

Net

N 61 21-22 ✓ 11

1500 L V Turn E W

2950 of run N W E W

3600 L same

4000 = 1/2

B O N 72 W 52

Auger - N 31 E 77

6100 Creek bottom NE SW

6450 Cross Creek 15 and  
NW

7150 N E

WP 2 PS 40° 30' W 475 =

No other can be

East at 15-22 & 11'53

Temp line

2050 Lake temp MC.

2850 Same Lake Temp MC.

5516 our Lake Temp MC.

7927 intervals 140 W of post  
W

West on line Lin

Back 15-22 - & 10'53'

2411 MC. E incl

WP 125 4.2 E 40 =

Turn 18 N 15 W 48 =

50-77 MC W. incl. Core

Brack 85 76

W 0 6 N 10 1/2 W 70

5927 MC E incl Core

Brack 8 N 17 E 154

WP 185 71 E 230

8000

10

West bet 16-21 of 1021

521

535 MC.

Pr Oak 85 51W 125

WPGN 61W 170

4037 1/4

Exp 4N 68E 23

3 South 45.

8075 Cor

Charles Coleman

Don't woman who sold Mr. Adam  
his land. Lives in Glenwood

45-28

11

Joe Nelson son of Tom  
never sold SW cor 22. but chain  
up north from the NE cor to road  
south; also know the  
1/4 Cor bet 27-28

12

$$\begin{array}{r} 520.6 \\ 238.4 \\ \hline 759.0 \\ 361 \\ \hline 1320 \end{array}$$

$$\begin{array}{r} 38 \\ 228 \\ 228 \\ \hline 25.08 \end{array}$$

$$\begin{array}{r} 759.1 \\ 238.4 \\ \hline 520.6 \end{array}$$

39

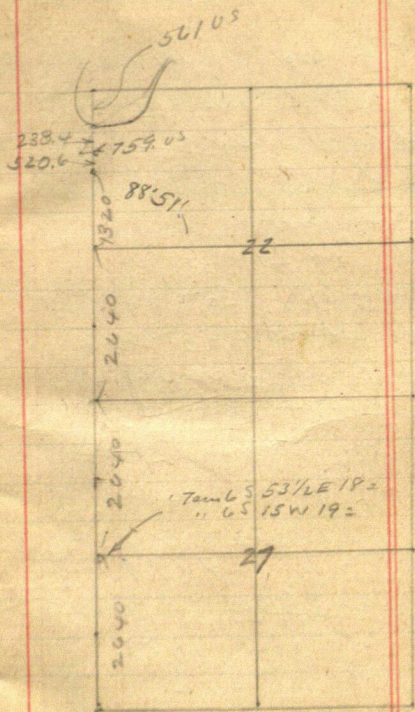
$$\begin{array}{r} 300.0 \\ 238.4 \\ \hline 61.6 \end{array}$$

$$\begin{array}{r} 209 \\ 204 \\ \hline 175 \\ 1020 \end{array}$$

$$\begin{array}{r} 759 \\ 130 \\ \hline 2059 \end{array}$$

$$\begin{array}{r} 1428 \\ 204 \\ \hline 3.670 \end{array}$$

$$\begin{array}{r} 836 \\ 903 \\ \hline 400 \end{array}$$



at 225416 39  
 " 6N 33 1/2 E 10  
 " 14 N 69 W 40  
 WIP 245 32'30" W 38 = 25.09

at 238.4 So on line line  
@ 90° to line line and 203.6  
= of old BT Stump for MC.  
E side of lake - Chan  
random line

South Oct 21-22: Q

238.4 + 61.6 = 300 A of MC.  
pub. date. about 445 cm

ditch 5' wide NESW  
600 slake + 159 = 759

Temp 1/16. about

garnets 1/16. about

West

600 + 187.9 = 787.9 Hdr

in rain 25 ft W of 2nd

900 + 1200 slake 1500

1597.8 Hdr 1800 - 2

2059. slake Temp 1/4

2100 "

2400 "

2700 "

Shanty line  
2011  
2079

$$\begin{array}{r} 2059 \\ 1320 \\ \hline 3379 \end{array}$$

$$\begin{array}{r} 2059 \\ 1320 \\ \hline 3379 \end{array}$$

$$\begin{array}{r} 2059 \\ 1320 \\ \hline 3379 \end{array} \quad 15$$

3000-

3300-8600-89

3379 Temp 5 1/16 inch

3300+152=3452 about.

road turns SW

3474 Hub

3300+286.3=3586.3.

Hub 3.90 ft West of  
Q Old Blazed Line N 1/2

3600 stake 3700-4200

4500 stake + 219 = 4719

Temp Acc Cor

4696.7 Hub

$$\begin{array}{r} 759 \\ 3960 \\ \hline 4719 \end{array}$$

$$\begin{array}{r} 759 \\ 1320 \\ \hline 2079 \\ 1320 \\ \hline 3399 \end{array}$$

$$\begin{array}{r} 759 \\ 1320 \\ \hline 2079 \\ 2640 \\ \hline 4719 \end{array}$$

$$\begin{array}{r} 4500 \\ 196.7 \\ \hline 4696.7 \end{array}$$

$$\begin{array}{r} 3960 \\ 759 \\ \hline 4719 \end{array}$$

Frank A Johnson  
49 acres @ \$75. cash

<u>29</u>	<u>17</u>
177	102
<u>174</u>	<u>102</u>
1917	112

05 Notes

17

22-23-26-27

Linn 10N17E11

Zworn 6N86W1X

Sugar 12S26W10

WP 24S41E 46=

North bet 22-23 & 11°40

1350 m.e.

Brick 10S61W 29-19.1X

WP 7S41E 17= 11.22

3390 over Lake MC

Br Oak 8N26W 1X

" " 6N35E 21

4500 = 1X

Butternut 10S82W17

Brick 6N89E 45

8000 Cor 6

14-15-22-23

Asp 5N75W 6

WP 24N41E 66

Brick 10S29W 11E

Turn 7S6E 237.

18

East Random bet 22-27

1000' LV Tan NWSE

1600 open Work Circular

2300 LV

3900 Temp MC W

4000 in lake

5400 over lake Temp MC

8000 hit line 2115 off point

Work line line 0 11' 53'

2350 QUC. E

Bich 6565 W 10

WPGN 73 1/2 E 25

4000 in lake

4175 over LMC

of 9533 E 55

Am 5 N 50 W 50

8000 in

21-22-27-28

Mail P.O. to  
H.W. Adams  
Co. Rhalygroff  
near Deerwood  
R.H.

20

225

45-28

April 20-1  
1922

✓ Lot 1- 16.0 343

✓ 38-D-414

✓ 67 D 286

2- --

✓ 3- Y-D-571

4 --

5 --

6 --

✓ 7- 43-D-162

✓ 39 .. 492

✓ ~~43~~ 162

✓ 46- 248

✓ 39 D 551

22  
45-28

April 21  
21-1922

8 42-0-28/✓

48 46 " 2x8✓

R

22  
T45-R28

Gout

Lot 1-16-D-343

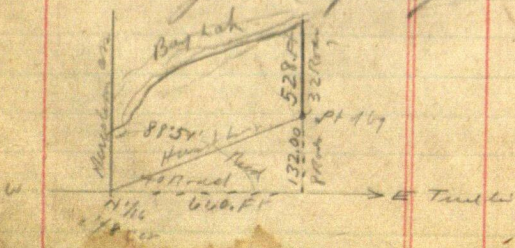
Instrument N<sup>o</sup> 18037

June 26-1902

Geo Willor Hunt and Lou  
Ella Hunt his wife To  
Ollie A Hunt \$50.

Reg @ MC N<sup>o</sup> 30 - Sec  
22- T45 R28 Thence  
South to 8<sup>th</sup> line "

on an angle to a point  
8 Rods North and 40 rods  
East Thence North 32  
rods to shore of Bay Lake  
Thence Westerly along lake  
shore to place of beginning



Sec 22 T45 N28 23

front

Lot

1- page 414 - of No 38 Deeds  
Instrument 37367

Filed <sup>via</sup> Sept 27 1909

Ollie A Hunt & Husband

To

J J Waffensmith & Co.

same description as  
N 18037 except that it  
first says "Lot 8" and ends  
by saying "Lot 1"

16.5	16.5	16.5
32	8	4
330	132.00	660.00
495		
528		

24

Sec 22

45-28

Govt. Lot

1-N:67-Deeds Pg 286

Instrument N:72775

Filed April 22-1921

J J Woffensmith and Emma A  
his wife To Anna H.

Johnson. Takes in Lot 8  
of sec 21- also part of  
Lot 1- sec 22 &

Reg @ MC N:30 The As 11/18.

or There is same or

Instrument N:18037 and

37367

WAF SMTH

22-45-28

25

Gout

Lot

3. - See of Deeds Page 571

Instrument No 11462

recorded July 18-1899

Geo A Hunt &amp; wife -

To

Geo W Hunt

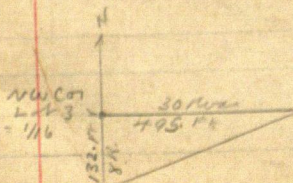
Lots 1 &amp; 2 and 75/100 acres

of Lot 3 viz

Lying North of a line  
running from a point 8 Rods  
South of NW Cor of Lot 3 -To a point 30 rods E of the  
NW Cor of Lot 3 -

in sec 22-45-28 -

\$200.

$$\begin{array}{r} 165 \\ 3 \\ \hline 495 \end{array}$$


24

See 22-4528

Hunt  
 N 7. N=43-Deeds p. 762  
 instrument N=42102

Recorded: Feb 1-1911

Ira Torrey

To

Geo. Wilbur Hunt \$288.

Bdy @  $\frac{1}{4}$  bet 22-23 - ThenceSouth 405.70 ft to M<sup>c</sup>N<sup>o</sup> 22 - ThenceN  $73\frac{1}{4}^{\circ}$  W - 300 ftN  $51\frac{3}{4}^{\circ}$  W 159 "N  $73\frac{3}{4}^{\circ}$  W 200 "N  $64\frac{1}{4}^{\circ}$  W 156 "N  $46\frac{1}{2}^{\circ}$  W 114 "N  $42\frac{1}{2}^{\circ}$  W 471 "N  $64^{\circ}$  W 300

North 10.3 feet

East 1412.3 ft to sec line

South 460 ft 1. place of bdy

See plat p. 27.

141213

12-10.3

90

094

16 20  
acres

Base Line  
72.504

N 61° 19' W 73 1/2 ft  
159

300

N 122

Surveyed By Lewis E Garrison  
Co. H. 1st Regt. Cal.

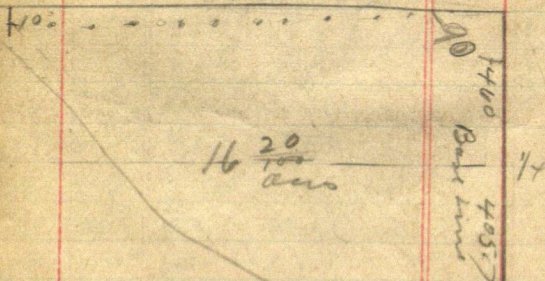
Jan 14-1911

28 Sec 22 - 45-25  
Grant LA 7 - N<sup>o</sup> 39 of Deeds  
Page 492 Instrument N. 45192  
recorded Jan 29-1912  
\$1. etc

Geo Wilben Hunt & wife  
To

Henry J. Corns  
Same or back Page  
N<sup>o</sup> 42102.

1412.3



Same or  
back Page 27  
Note: Back plat's say  
"61 3/4° W 159 Feet"  
while both sets of notes say  
"51 3/4° W 159"  
We will check this mathemati-  
cally to see which is right  
C

Dec 22-45-28  
Grant Lot 7-Book 39 Deeds  
Page 551. Instrument  
No 54602

29

Recorded - Jan 2-1915

Henry J. Ernst & wife  
To Mercia Patten & 1. Co.  
Nali.

Description same as on page  
26 - of this book but no  
plat submitted

Receipt 16225  
Mercia Patten Toss  
Atkin

Wm

(30) Sec 22-45-28

Govt Lot 7.

Book 46-Deeds Page 248

Instrument N: 47134

Recorded Sept 20-1912

Cha Tarrey Single

To FL Pitt \$1.00.

Beg @ NE Cor Lot 7

Thence Due North along Sec  
Line 258.8 Ft

Due West 386.2 Ft

Due South across part of Lot  
8 and 7- 1127.8 ft

Due East to sec line 386.2  
ft.

North on sec line 869.10  
ft of big containing 10  
acres of land

See 22-45-28

Goutlet 7.

Book 46 Dec 1879 248

same thing just copied  
see page 3

31

22 Sec 22-4528

Lot 8

Book 42-Deeds Page

281. Instrument 41763

Recorded Dec 21-1910

Ira Torrey Thurnwald

To Alfred W. Uhl \$800.

North 40 acres of Lot 8

Sec 22 - T45N2E

according to plat survey

# Checking Garrison's

33

see Page 2

Reg @ Cor 14-15-22-23-45-28

1620.50 W T. Me. Using this face

S 7° 15' E 400

Sine - 126.20 X 400 = 50480.00 ✓ E

Cosine - .99200 X 400 = 39680.00 ✓ S

S 25° 45' W 273

Sine 43.445 X 273 = 11860.485 ✓ W

Cosine 90070 X 273 = 2438910 ✓ S

S 11° W 157

Sine 19081 X 157

Cosine 98163 X 157

2995717 ✓

+4329881

9991541159 ✓

S 33° 15' W 267

Sine 54829 X 267

Cosine 83629 X 267

14639343 ✓

22328943 ✓

S 11° 15' W 516

Sine 19519 X 516

Cosine 98079 X 516

10071804 ✓

50608764 ✓

East parallel with base 1848.3

North on rec line 1070.2

To place of Reg

S E W

S 7° 15' E 400

273

S 25° 45' W

W

S

396.80

50.43

118.60

24589

642.69

68.12

S 11° W 157

29.95

154.12

796.81

98.07

S 33° 15' W 267

146.39

223.29

1020.10

244.46

S 11° 15' W 516

10.07

50.66

1070.21

254.53

34 Figuring overage  
as per Harrison's Survey  
Checks viz  
1070.71 dup only figures  
1070.20 Harrison's value  
.51 ff. O.K.

North strip @ 90° angle @ NE Cr  
 $1620.5 + 1570.02 = 3190.52$   
 $- \times 2 = 1595.26 \times 396.80$   
 $= 6329.99.1680 \text{ Feet sq ft}$

Second strip  
 $1570.02 + 1688.62 = 3258.64$   
 $- \times 2 = 16293.2 \times 245.89 =$   
 $= 400.633.4948 \text{ Sq feet}$

3<sup>rd</sup> strip  
 $1688.62 + 1718.57 = 3407.19$   
 $- \times 2 = 1703.595 \times 154.12$   
 $= 262,558.0614$

4<sup>th</sup> strip  
 $1718.57 + 1864.96 = 3583.53$   
 $- \times 2 = 179176.5 \times 223.29$   
 $= 400.083.20685$

$$\begin{array}{r}
 1570.02 \\
 1688.62 \\
 \hline
 23258.64 \\
 162932 \\
 \hline
 2458.9 \\
 1466388 \\
 1303756 \\
 814660 \\
 651728 \\
 325864 \\
 \hline
 400.633.4948
 \end{array}$$

$$\begin{array}{r}
 1620.50 \\
 1570.02 \quad 35 \\
 \hline
 23190.52 \\
 1595.26
 \end{array}$$

5<sup>th</sup> trip

$$\begin{aligned}
 1864.96 + 1875.03 &= 3739.99 \\
 - \times 2 &= 186.9995 \times 50.61 \\
 &= 94.640.44695
 \end{aligned}$$

46-D 248

36

1329.60	1329.60
<u>259.40</u>	<u>1070.20</u>
1589.00	259.40

Then W

2059.20

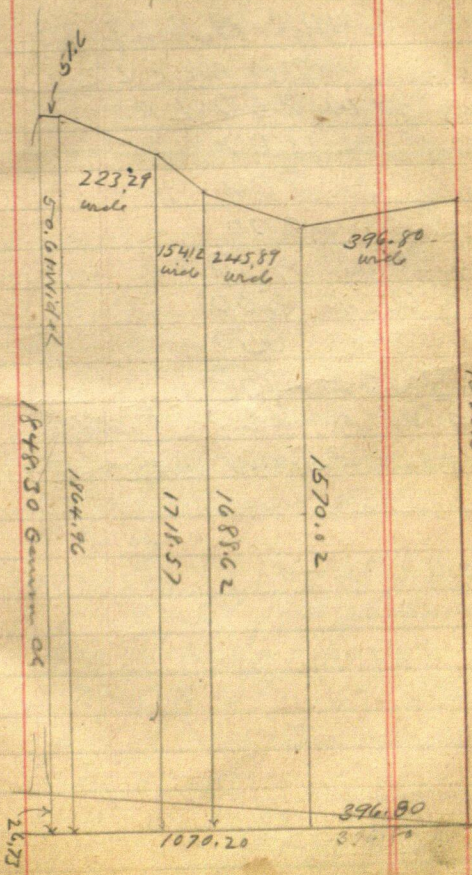
Apr 21-1922

April 22  
1922

37

7.9

1020.50



38 T 45 R 28

# Meander lines

----- to M.C. Bet 22-23

Thence In Sec 22

N 65° 30' W 750 LKJ

N 48° W 1100 "

N 78° W 700 "

N 45° 30' W 200 "

N 4° 30' W 450 "

N 19° W 500 "

N 10° 30' W 650

N 24° 30' E 1050

N 15° W 800 To M.C.

Bet 15 and 22

April 23-  
Sunday 1922

39

Harald-Bat-Harald  
+ J. L. Bed 10- QM

Haralds Ford 2 doz doughnuts  
@ 20¢ = 40¢ Lunch.

drive to E side Bay Lake 30  
miles. We find the N. 1/4 is  
1/2 ft to 1 ft so so set 1/2 ft  
N to place

@ 1329.60 N of 1/4 on set  
U.S. Mon 3 1/2 " oval top 2.35 W

Big stone around same  
and 4 ft mound 18" H

BTS Uj

15" Oak stump N 72° 45' W 26.80  
ft to 10" nail flat spot at base

12" WP stump S 40° 35' E

27.45 to 10" nail in flat  
spot at base Turned from  
line N to line = N 1/4

Bed 22-23- 745 N 28

Jahm W Curd

40

Correction

@ 1500 v chain v 89.00 ft  
 to 1589.00 N Then West 2.80  
 ft and set 2x48" iron filled  
 with cement  $\frac{1}{2}$ x8" anchor rod  
 2.3/4" flat cap wheel

(SE Cor  
 40  
 1070.20)

gan. W 2.81 l. ft  
 1070.20 4. of NE Cor

See 22 -

20" WP slp N. about 45° W 2405

40" WP slp N. about 50° E 61.35

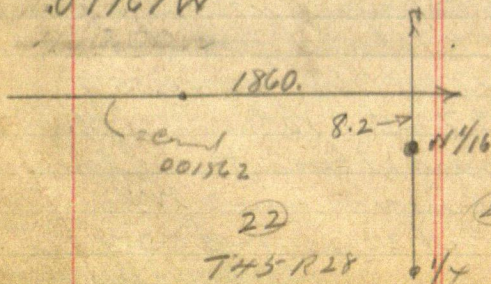
flat spot on soil

3. big stones sand etc  
 1. ft N of so. wheel track of  
 new road W & NE

vali - we drove this  
 iron

Correction =

.01767 W



Ht 2 ft 460 N. of

41

1/4 Cor bet 22-23 45-27

turn 90° to random and

look West Then 0° 06' L

SW angle of line W line with  
random section and run

West 90° to line section

valid as our N + random

cut 0.20 of E 7 1/2 in

chain  $460 \times .01767 =$

0.81 of a foot + 0.19 = 1.00

West set 2 in. flat top 2 1/2

Cap 4' long Cement core

1/2 x 8" anchor rod

460  
FT. N

Berwood 14 N about

50° E 31.3

+ 2 1/4' Oak stump

South 3.80 ft

5245.40

5229.64

21° 47510.7

5237.52

235

5239.87

42

Wit MC N 26° E 9.24

Course run and set

Wit MC  
22/23

Course run  
NE from oak VIST.

At Hub outd 2386.2 N which  
is 2385.70 N Wit MC

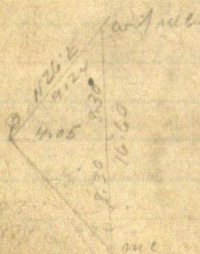
Rel 121.9 S and 1.05 E

BT 5.4

14° Oak at about 50° E 20.90

16° WP 1X " 35W 46.50

stones and light mound  
No circle trench



26°  
Side 4383.7 x 9.24 = 405  
or 8987.9 x 9.24 =

Notes: 1, 20 6.0 or 14.0 2. 10 of mound

25  
 Apr 26 Tuesday  
 Harold & Ford  
 Bab & J.

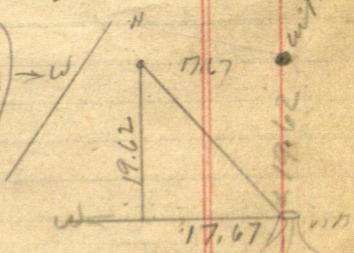
S 42° E 40.26' 40"

sin 66913 X 264 = 17665032

cos 74314 X 264 = 19618894

$$\begin{array}{r}
 264 \\
 297254 \\
 445884 \\
 148628 \\
 \hline
 19618894
 \end{array}$$

$$\begin{array}{r}
 66913 \\
 264 \\
 \hline
 207652 \\
 401478 \\
 133826 \\
 \hline
 17665032
 \end{array}$$



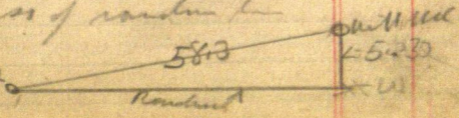
π @ Hub 1545100 W

Wit MC. reb

SW 58.30 and 5.30

as of random for

K 5000



44

$$\begin{array}{r}
 300.0 \\
 175.3 \\
 124.7 \\
 \hline
 1500. \\
 1624.7 \text{ Hahn's Lot of Ball}
 \end{array}$$

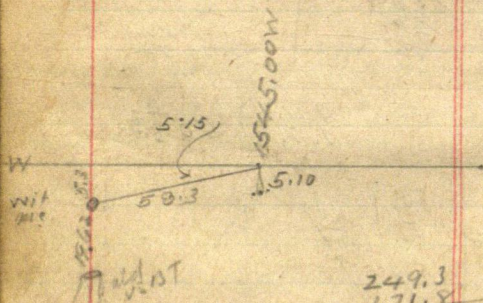
BTS TIME

24' WP abt N about

60°E 31.6 being 8 // N from

Oak 3S about 20°E 21.50

being 9 // from E of 2 old stump



$$\begin{array}{r}
 249.3 \\
 171.8 \\
 \hline
 421.1
 \end{array}$$

$$\begin{array}{r}
 15.45.00 \\
 68 \\
 \hline
 16.03
 \end{array}$$

5°15'  
 Sun.  
 Con 9982 x 583

$$\begin{array}{r}
 9982 \\
 683 \\
 \hline
 46
 \end{array}$$

N<sup>o</sup> 1. Round flat top  $3\frac{1}{2} \times 3\frac{1}{2}$   
 $\frac{1}{2}$ " anchor and No cement  
= 0.5 mm

N<sup>o</sup> 2. Round flat top square above  
No cement 4 ft by

N<sup>o</sup> 3. Flat top No cement  
3 x 4 along 4 ft long

N<sup>o</sup> 4  $23\frac{1}{2} \times 3\frac{1}{2}$  oval Round top  
4 ft long No cement

58) 530 .091385  
522

80.

58

220

174

460

764

0 11' 30"

1545

33

4635

4635

50985

1545.00

58

1603

5.300

4809

4910.

4809

0001

Eat lunch on lake bank  
N @ 1545.00 turn 90°

and run 5.10 S place hub on  
line E & W see line

Chain South 390.60 T. hub

Turn S 18° 11' W

249.3 + 171.80 = 421.10

45. from lake partly along road 250 to lake

40

Thru S 29° 50' W 271.8  
ft from lake

18° 11' =

$$\text{sum } 31206 \times 421.1 = 131.41 \text{ W}$$

$$\text{corr } 95006 \times 421.1 = 400.075$$

$$\begin{array}{r} 95006 \\ 95006 \\ 190012 \\ 380024 \\ \hline 400.070266 \end{array}$$

$$\begin{array}{r} 31206 \\ 4211 \\ \hline 31206 \\ 31206 \end{array}$$

$$62412$$

$$124824$$

$$131.408466$$

$$\begin{array}{r} 390.60 \\ 400.07 \\ \hline 790.67 \end{array}$$

29° 50' W

$$\text{sum } 49748 \times 271.8 = 135.22 \text{ W}$$

$$\text{cor } 86748 \times 271.8 = 235.789$$

$$\begin{array}{r} 271.8 \\ 693984 \\ 867.48 \\ 60723.6 \\ 173496 \\ \hline 235781.064 \end{array}$$

$$\begin{array}{r} 49748 \\ 271.8 \\ \hline 397984 \\ 49748 \\ 348236 \\ 99496 \\ \hline 135.224964 \end{array}$$

Apr 28-1922 cont

South

West

390.60  
400.07  
235.78  

---

1026.45

1070.20  
1026.45  
43.75 South  
W 0°11'S.

W 30.30

our line cuts 1/2 mi of main  
slab

300.00  
280.80  

---

19.20  
~~18.00~~  
1819.20

390.60  
400.07  

---

790.67

790.67  
235.78  
1026.45

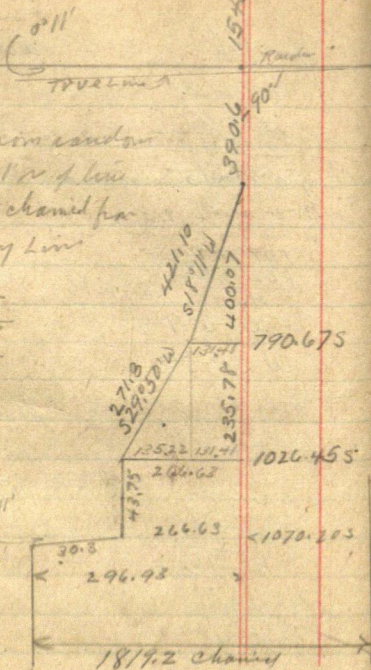
48

all turned from random  
which is  $0^{\circ}11'$  N of line  
N body but changed for  
line N body line

135.22  
131.41  
266.63  
30.30  
296.93  
1545

Bay Line  
 $0^{\circ}11'$   
13'

1841.93  
3.53  
1845.46 W of N body  
N body or line



107  
 33  
 321  
 321  
 3,531

1.5  
 15.0  
 5  
 25

600.00  
 167.20  
 432.80

296.93  
 1545.50  
 1841.93

300.0  
 280.6  
 13.4

Bay @ 0.0. Hub on 2 bank of lake

Earth random N 1/4

300-slate 313.4 Hub + 32.80 fence

600-slate ~~313.4~~ NW-SE

900-slate

899.30 Hub 900-slate

1860.7 IM 2nd S- ~~8.16~~ 8.25

5<sup>th</sup> Beg @ IM 460 N of 1/4 Pa  
line 90° to line line in west  
West @ 298. old stake 1.90 S  
231.6 Hst

300 stake

389.8 old stake 2.00 S

416.1 Hst

517 W old stake 3.00 S

600 stake

733.10 old stake 4.140 S

900 stake

936. old stake 5.80 S

1200 stake

1272.40 Hst

1281.5 Corn 4 wire fence

8. ft N of 80 SE corner

1412.30 W

NW cor of fence is 8.1.5 and  
3 ft west

Our stake 26 ft from back of 209  
wall 35 ft from wall

old fence runs S about 10° E to  
water

Home @ 9-PM-

April 26-1922

Wed-

Checking Garrison  
to see line of the 16<sup>th</sup>  
over Torrey. List  
no check

Herald & I

2. in PM.

Set IM on Hunt pt

1/16 also MC NE 7

Hunt House

Home late

Call this 1/2 day

52 Ira Torrey (Single)  
T. FLPitt Filed Sept 20  
1912.

10. acres

Book 46-Deeds Page 248

Instrument N<sup>o</sup> 47134

\$1.00 Sec 22-45-28

Beg @ NE Cor Lot 7-

Run North along sec line

258.8 - Run West 386.2

Run South across Lats 8 and 7  
a dist of 1127.8 ft -

Run East to sec line 386.2

ft North along sec line

869. 10 ft of beg containing  
10. acres of land.

Apr 27-1922

From N 1/4 Run N  $13^{\circ}46'W$   
 213.3 ft. - Can construct bridge  
 over NE & SW ditch 6 ft 8 ft wide  
 From which ditch run  
 N  $26^{\circ}22'E$

@ 135 ft. solid swampy silt  
 swamp meadow

@ 600 ends silt

Sand bottom runs 500 ft out

First 200 ft gravel bottom

swift current 16" deep

Runs NE

Herald & Co

Bob & J. work

Dinner with Hunt

54 April 27 1922.

$$\begin{array}{r} 300 + 188 = 488 \\ 188 \end{array}$$

528

40

$$300 + 128 = 428$$

From N<sup>1</sup>/<sub>16</sub> run N 88° 51' E  
along line <sup>1</sup>/<sub>16</sub> line 660.00 ft

Then north parallel to West sec  
line 8 rods = 132.00 ft at I m

2.3/4 flat top still

$$\text{north } 300 + 128 = 428.00 \text{ Ft}$$

height 100 ft so of lake, still

I m 2.3/4 flat top

$$\text{Still } \sim 100 \text{ ft to lake} = 528 \text{ ft}$$

with on 100 ft S-

NE  
COR  
3/4 A

N

E  
LINE  
WAFSMTH  
TRACT  
WTT COR  
100 S

SE  
COR  
WAFSMTH  
TRACT

SW  
COR  
 $\frac{3}{4}$  A

54

WIT	
US	MC
100	FTS
SEC	SEC
21	22

From 4 $\frac{1}{2}$  Chin E  
plus 22-

300-600-900-1200  
+ 249.3 + 0.70 =

1450 E set H. 0.74 ft.

12 ft W 9 sea wall 15 ft T. walls

WIT	
1A	C
1450	FTLE
Lot	Lot
3	4

set H. 0.

$$\begin{array}{r}
 1450 \\
 941 \overline{) 3} \\
 527 \overline{) 5000} \quad 4350 \\
 \underline{4743} \\
 2570 \\
 \underline{2108} \\
 4620 \\
 145 \overline{) 145} \\
 \underline{2310} \quad 941 \\
 78 \quad 145 \\
 \underline{4705} \\
 3764 \\
 \underline{971} \\
 .1364748
 \end{array}$$

Apr 27-1922  
 L. Bed 9 am  
 On 10 am  
 L. for home 7-30  
 on Bed 8-30

54

April 28 - 1922

LU 8-15 am

Herald & Fred Boat in  
I pick up Gus Peterson  
at 8-50

Put in SW on

Track See Page 55. This book  
9-9 AM Herald & I go back  
up Hunt boat  
Take IWS across  
lake

← (S. Lim 40 am  
27 to 40)

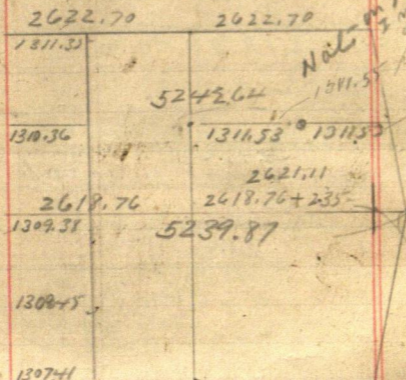
LINE  
40  
ACR

23 x 48  
Pick up

Correcting  
E x W E N 1/4

59

on July 19, 1922  
I made a 1/4 acre  
deal and figure  
to be 1312  
MW



2614.82 2614.82

1311.35

1307.41

2622.70

2617.82

2614.82

2622.70

2523.7152

2618.76

2

3381.94

5243

5237.152

11860

3383

5243) 8.200.

1.001562

5243

29570

26215

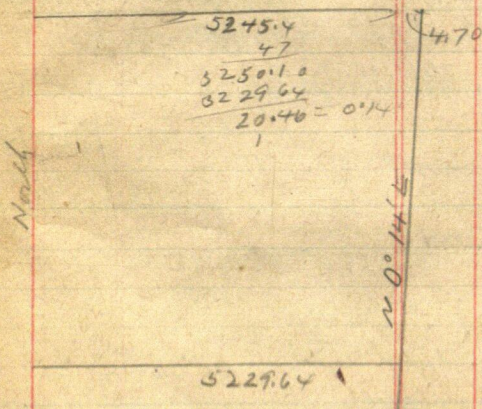
33550

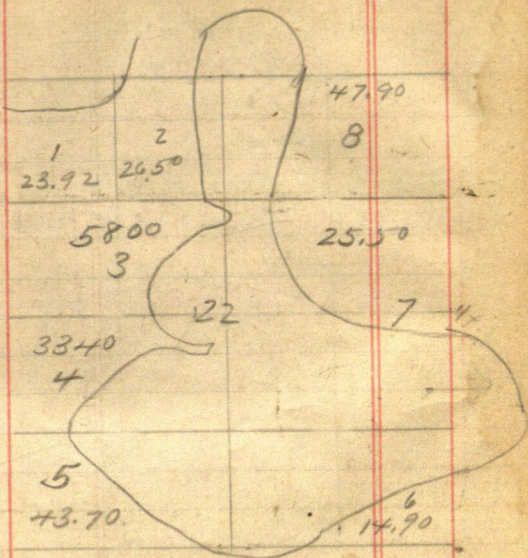
31458

10920

3383  
1562  
 6766  
 20298  
 16915  
3383  
 5284246

1562  
6243  
 4686  
 6248  
 3124  
7810  
 8189466





Apr 28 1972

~~James and Hunt~~  
Gus takes bottom samples

### Taking *Aladia*

$\pi$  @ random Hut 670.5 N  
of S.E. cor rec 22 looks N 0° 13' E  
along random line

2.0 N 31° W - 15' To water

2.6 N 59° 15' W Top seawall 10' To water

4.23 N 88° 40' W

4.23 ft to  $\Delta$  1 20 ft to water

$\pi$  @  $\Delta$  1 runs 60° 56' W 2.64. To

2.64. Hut (2)  $\Delta$

@ 150 top seawall 4' from water

2.64 is on sand beach 2' from water

8 ft from top seawall

$\pi$  @ (2) runs 59° 54' W

@ 150 water 10' E top seawall

25 ft E Rod reads 2.65

= 26.5 ft to  $\Delta$  3 edge of water 10'  
from seawall top

$\pi$  @  $\Delta$  3 runs 58° 03' W

Rod reads 5.05 = 505.00 ft - 3.64

To sta 4 - Cuts 5 ft in edge of  
water and 25 ft from top of  
seawall =

$\pi @ \Delta 4$

63

which is at water edge

15 ft from edge of seawall

From  $\Delta 4$  run

S55°58'W

@ 73 ft water edge 8 ft E seawall

20 ft E

. 250 ft to  $\Delta 5$

rod runs 2.50

in edge of water 12 ft from

seawall

$\pi @ \Delta 5$  IM  $\Delta 5$  S 25°08'W

24.7 ft measured with level

rod. Ver. ang. 90° @ 5.05 PM.

WIT 22

MC 27

Apr 28-1922

go back to w Car 16 21 r

K@Hub 1412.3 W Tan 90°

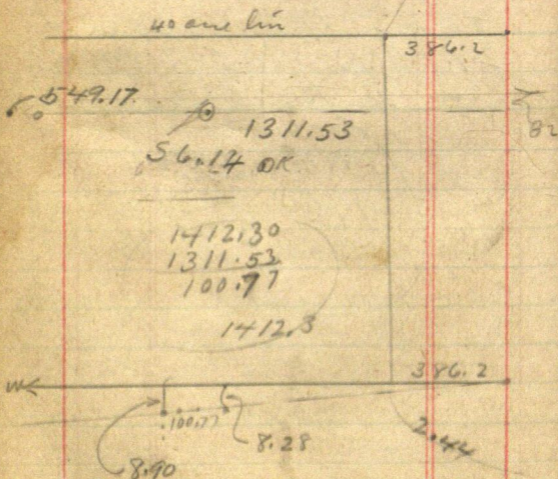
and turn S

@ 8.90 So old stick into W 2.

At E of Post:

From old stick to new one

15 ft 25 to water



Conrad 0063125

141) 890 6.0 312

876  
440  
292

386

631

386

1158

2716  
243566

NW  
COR  
10 ACR

3931.11

1562

7862

23516

19635

3931

6.1.38 2 22  
40

SW  
COR  
10 ACR

April 29-1922 Saturday  
Herald & Ford - Gerald.

Bob L. Bed 8-20

Pick up Gus Peterson  
who works with Bobcock  
setting lions on the 3/4 acre  
Herald & Gerald hunt  
Boat go across lake and  
set points for lions.

Dinner with  
Hunt. P.M.

Alma Reed Junior and  
I leave Baby Island @ 11:30  
at Hunt 12-30

Herald & Gerald go back  
across lake finish setting  
points. Gus & Bob finish  
setting lions on West side.

Alma & I have sat lunch  
at Adams house.

Herald & Gerald come  
back across lake and

help me take readings  
of lake shore

67

Bob and Gus go  
across in another boat  
and continue setting trees  
out side of lake

T @ MC, Bat 3-4-1450  
FLE 1/4. Tilerup turned  
N 89° 01' E as line in  
Trie lat 3.

24" wp N 18° 18'

346 ft dist channel to

Broken top wp 204

N 23° 30' E 681.5

Whit picket on Adams's  
point bears N 44° 51' E  
about half a mile away

346-335-5 = 681.5

T over lake @ Hut on point

Broken top WP Bears 3 57° 03' W

Stadia 561° 20' W 8.21 C 821.1/15 ft bank  
10 ft water 2 ft up

S 64° W 7.67 767.1/10 ft bank  
10 ft water

S 66° 55' W 6.45 C 645.1/10 ft bank

Over

⌘@Hubnpt Continued  
Rod S 70° 55' W Reads 49.2  
= 492 ft 15 from bank - 3 from water

S 75° 25' W 3.72 = (372. <sup>12 ft from water</sup> ft on Red wall  
S 80° W 2.55 = (255 ft) on bank, 15 ft to water  
S 85° W 125 ft on bank  
West 50 ft to bank

N 77° W 25

North 3 ft

Note this is E point of point  
4 ft wide - we taking the inside  
of point

IM on N 1/4 line E  
bears N 50° 21' W 149.7  
bank is 3 ft to the right all the  
way ex. expt. measurement

Then on Lot ?  
N 52° W 200 ft to bank flat  
N 37° 14' W 318 (3.18)  
to Hubnpt of point 10 ft from  
low shoreline  
~~where I set line~~  
IM USMC at Hubnpt N  
N 30° 54' 30" W

Point 318 back right

69

$537^{\circ}14'E$  1 ft flag on pt and  
continues along low wall  
 $N 62^{\circ} W$  115 ft shore (low)  
 $N 53^{\circ}10' W$  175 (= 175 ft) 6 ft from low

sea wall  
 $N 44^{\circ}35' W$  <sup>310 ft</sup> 3.10 in water 10 ft from  
low shore

$N 39^{\circ}22' W$  5.02 (= 502 ft)

10 ft from low shore sea wall

$N 38^{\circ}10' W$  <sup>and</sup> 6.22 (= 622 ft)

in bank 3 ft from water

$N 35^{\circ} W$  7.92 (= 792 ft) 2 ft

from water 4 ft from sea wall

$N 34^{\circ}50' W$  8.63 (= 863 ft)

6 ft from sea wall 2 ft from water

$N 34^{\circ}35' W$  10.04 (= 1004 ft) from

8 ft wall 8 ft from water

$N 30^{\circ}58' W$  11.91 (= 1191 ft)

on sea wall 2 ft from water

$N 29^{\circ}21'30'' W$  no point

taken

Dark reading taken at

6-33 PM all good

Carr at Adams place

~~May 1922 Monday~~

Sunday Apr 30-1922

Alma Gerald Reed-Jones  
I and Baby Grande drive  
to Gull Lake without car  
Lake lunch - L. @ 10-10.00 a.m.

find O. S. Park-wife and  
daughter (Grace) in church  
also Geo

5 wife with them Beach  
waiting at Park cottage  
net cut off so 4 16.06 over  
of Great Rock

Work till 7.5

then drive to Junction. How  
supper with mother and rock  
home to be dinner @ 12

12- midnight

May-1-1922 Monday

71

Harold & his Ford Lark

Bab & I to Bay Lake

to Red 5-30 - Cloudy

go to & not

to USMC S. line sec 22-45-28

on west side of lake



Freight East

N 89° 17' E m. 1 m. across lake

Tip end of narrow pt of land

coming from the West bears

N 6° 50' W about 1/3 mile away

The Big Point at Hunt

& Adams bears N 3° 53' E

To my Hut & white lake on 1/2 sec  
point on half mile away

West shore of Bay Lake bears

N 58° W 140 paces - 420 feet

Bab and Harold drive  
a mile around to point

while I stay with Leonard

Placidia

Bab goes to Narrows on plain

point - puts up tall flag

over Hut "H"

(A) bear N  $19^{\circ}16'W$

① Sledge 10.42 = 4 ft wide land  
11.14  
21.56

21.80  
yield

② N  $15^{\circ}05'W$

First reading cut 1/2 inch below  
top of paper 10.14  
2nd reading 10.56 at water edge

③ N  $10^{\circ}53'W$

1st reading 10.50 at water edge  
2nd reading 10.17 2 ft back

D. N  $6^{\circ}53'W$

10.00 at water sloping shore  
10.17

We then go to Hat 437.5E  
on S  $1/16$  using N  $89^{\circ}09'E$   
on base

Check on pt A on same  
bear N  $59^{\circ}35'W$

The Hat 437.5 A' bear N  $59^{\circ}35'E$

Rod reads — 7.20

2nd " — 7.54

D reads N  $49^{\circ}27'E$

Rod reads 6.35 at water

6.17 10 ft from bank

② N 36° 09' E 73  
Rod near 11.01 water 24 out  
Land 30 Back

③ N 27° 30' E  
Rod near 10.19 water 40 edge  
Land 25 edge  
bog

④ N 22° 45' E  
Rod near 8.91 water 40 out  
Land 25 back  
edge solid

⑤ N 19° E  
Rod near 6.72 - water 20  
Land 35  
edge solid bog

6 N 18° 10' E 20 to water  
25" back  
Rod near 4.70

7 N 59° E  
Rod near 3.30 - 25 ft from water

8 S 78° E  
4.67 Rod 15' from water.  
spotted solid & soft bog & G.

⑨ S 61° 45' E  
5.31 - 15 ft from water  
20 to 30 ft of ditch mouth  
small 2' wide

Herald Boat & S. Lake Hunt  
home to dinner  
PM.

T @ Hat 437.5

(10) S  $54^{\circ}40'E$

Rod 6.27 water 10 L.

(11) S  $54^{\circ}05'E$  2" to bank & @ water edge  
Rod 7.12

(12) S  $57^{\circ}33'E$

Rod 10.36 at water. Bank 6 ft high

S  $57^{\circ}38'E$  about 1050 ft of land from W

Taking edge of solid ground  
and meadow T @ 437.5

(13) S  $50^{\circ}35'E$

Rod 8.97

(14) S  $43^{\circ}43'E$

Rod 5.65

(15) S  $28^{\circ}E$

Rod 4.34, & ditch

16 S.  $17^{\circ}10'E$

Rod 3.41

Val. B. 15-16 - Measured in SW

75

17 E.  $30^{\circ}$

18 N  $2^{\circ}05'W$

Rod 2.55 - 20 ft from bank

19 N  $9^{\circ}45'E$

Rod 5.61 - 10 ft from bank

20 N  $15^{\circ}05'E$

Rod 6.84 - 10 ft from bank

21 N  $22^{\circ}38'E$

Rod 9.98 - at edge

T@ Hot H<sup>o</sup> Back right  
S  $19^{\circ}16'E$  on I.M. Soling W. side

22 bear S  $13^{\circ}42'W$

Rod 6.95 7 ft in water 15 ft bank  
" 7.08

Slo 23. S 10°15'W

Reef 7.01 - water edge Bank 8 ft back  
8.02

Slo 24 S 7°03'W

Reef 8.29 at water - Bank 6 ft back  
8.67

25 S 3°45'W

Reef 8.87 at water 8 ft to sea wall  
9.10

26 S 0°07'W

Reef 9.20 at water - Bank 10 ft back  
9.40

27 S 2°38'E

Reef 9.30 at water - 8 ft back  
9.41 at water - 8 ft back

28 S 7°38'E

Reef 9.10 at water Bank 12 ft  
9.40

29 S 12°05'E

Reef 9.36 - 4 ft in water Bank 15 ft back

30 S 9.60

Reef 10.74

11.20.5

24.94

= IM

7/180 sealed

Not Heavy  
wind

$\overline{A} @ A'$  in narrow 5 ft wide  
narrow

S side N 78° 40' W 57

N " N 66° 30' W 60

S side N 80° N 115 ft

S " N 79° 10' W 300

S " N 81° 25' W 330

North side of narrow

N 61° 50' W 75 ft

N 55° W 1.90

N 46° 30' W 2.3

N 35° 30' W 3.41

N 38° W 360

Bridge N 34° 26' W 360

N 36° 15' W 360

N 34° 26' W - 4.45

N 24° 07' 6.29

N 25° 34' W 6.37

T.O.I.M.

$\overline{A} @ A'$

S side S 70° E 30 ft 5 ft wide

N " S 80° E 30

S " S 80° 30' E 90 ft

N " S 85° 15' 90 ft

T<sup>o</sup> "A"

S side of point

S 78° 30' E 190

S 75° E 225

S 72° 45' E 3.23 in water - 8 ft B  
no wad.

North side of point

N 66° 30' E 200 sharp wpt

N 81° 40' E 168 in bay

From Hub "A" run Base  
line N 83° 33' E 2.66 ft

Hub "B" on Island then  
the shore line.

T<sup>o</sup> B.

North 50 ft

N 76° 20' E 100. - 10' from water

N 89° E 1.65

S 84° 45' E 1.75 on sec

S 68° E 2.17

S 53° 20' E 1.70

Shed of Hunt's Bay 79

$\pi$  @ Hunt 60° E of N 1/16

88° 51' or base

Edge of lake N 12° E 5.82

Shed made 5.82 - 15 to water

N 26° 40' E 7.31

Reel 7.31 - 5' to water

N 29° 51' E 10.42 - 12' to water

Taking solid land

N 38° 05' E

Reel 11.71

N 44° 22' E Reel 7.15

N 47° 45' E Reel 5.34

N 46° 30' E 2.68

NW

N 82° 30' W 3.67

N 73° W 4.83

Taking road

S 70° W Reel 2.70

S 67° W 4.0

South 4.

N 86° 30' E 5.5

N 88° E 2.88

N 82° 35' E 2.70

Road

N 74°30' E	3.65
N 67°20' E	480
N 60°30' E	591
N 54°20' E	732
N 48°15' E	9.00
N 45°45' E	9.9
N 42°05' E	11.02
N 42°35' E	Road 6.15 - 12.15 Road 6.00 - 12.15

Road leaves line at  
875 E on

At Im. Pallet 2-3-2 2579 E  
E plate set by Kent beam

S 48°10' W W 48°10' S

155.70 True E & W H'16  
line or meridian

Correction =

N'16 line = 015645

2340 E gauge S 3.66

1962 " S 3.06

Home at 8 pm

$$\begin{array}{r}
 1962 \\
 1564 \\
 \hline
 7848 \\
 11772 \\
 9810 \\
 1962 \\
 \hline
 365976
 \end{array}
 \qquad
 \begin{array}{r}
 1564 \quad 81 \\
 234 \\
 \hline
 6256 \\
 4692 \\
 3128 \\
 \hline
 365976
 \end{array}$$

$$\begin{array}{r}
 2068568 \\
 1564 \\
 \hline
 2 \\
 3128 \\
 1962 \\
 1564 \\
 \hline
 7848 \\
 11772 \\
 9810 \\
 1962 \\
 \hline
 365976
 \end{array}
 \qquad
 \begin{array}{r}
 1564 \\
 234 \\
 \hline
 6256 \\
 4692 \\
 3128 \\
 \hline
 365976
 \end{array}$$

$$\begin{array}{r}
 1962 \\
 1564 \\
 \hline
 7848 \\
 11772 \\
 9810 \\
 1962 \\
 \hline
 365976
 \end{array}
 \qquad
 \begin{array}{r}
 1564 \\
 1962 \\
 \hline
 3128 \\
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 14076 \\
 1564 \\
 \hline
 3068568
 \end{array}$$

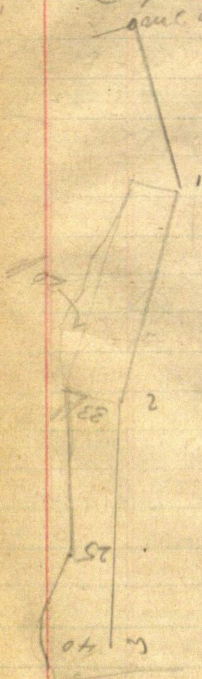
May 2-1922

Sanicra

Boily Grande Cr

L. @ 7-40 at 9-35

cont. 02.



$\pi @ \frac{1}{4}$  M.P. Erid

83

1860 W - 7 ft from bank  
use  $N 88^{\circ} 51' E$  or bore  
bearing a line 7' E of shore  
run  $N 5^{\circ} 5'$  straight

S  $30^{\circ} 30' W$  66

S  $25^{\circ} 35' W$  90

S  $24^{\circ} 05' W$  120

S  $16^{\circ} 40' W$  150

S  $10^{\circ} 40' W$  170

S  $1^{\circ} 50' W$  195

S  $2^{\circ} 20' E$  210

Run bore S  $2^{\circ} 33' E$

7.08 To Hub on pt

Run back S  $2^{\circ} 33' E$

212. ft.

$\pi @ 212.$

Shore line runs dig

S  $47^{\circ} E$  60. ft

S  $38^{\circ} E$  100 "

S  $30^{\circ} 45' E$  150. "

S  $27^{\circ} E$  175. "

S  $21^{\circ} 20' E$  200 = ditch

S 9° 15' E 280 ft  
S 6° 40' E 300. sharp point  
S 6° 40' E 325 next "  
S 7° E 395  
S 6° 15' E 420.  
S 3° 50' E 450.  
S 2° 33' E 509 to Harbor point.

From hut 212  
run Base S 34° 48' E  
265. to hut.

⌘ @ hut 265  
Run base S 33° 33' E 505  
to Harbor road wall

C-Chimney in sea  
house bears N 1° 33' W about 100'  
The 505. The 10' wood plank  
bears N 43° 45' E 6.66 ft  
Shore line runs N 82° W  
about 300 ft straight

85  
Hamer Curve, 1/4 by R. 76  
to point

To @ 505 show line across  
river S 72° E 100 ft

S 70° E 200 ft

S 65° E 300 "

S 64° E 350 "

S 61° 30' E 367 - 8 ft from shore

S 60° 30' E 420 - 6 ft from wall

S 59° 40' E 461. on seawall

S 56° 35' E 517 - 7 ft to wall

S 55° 45' E 580 - 10' "

S 53° 50' E 655 - 6' "

S 52° 15' E 710 - 12' to wall

S 52° 30' E 730 to 12' from

on E & W of

S 50° 45' E 770 - to that

7 ft pt 7 ft from seawall

S 50° 45' E 871 - 12 ft wall

on point

S 51° 15' E 880 To Hut

on sand over point

$\bar{A}$ @880 seawall  
N 51° 15' W 15 ft  
North 6 ft  
East 40 ft

S 67° E 130 T. ft

S 66° E 460 T. seawall ft

Note From 130 To 460

Lake says North 40 ft

Wali from 460 East to 115 ft

Lake says North 20 ft

Quat 1 12-10 PM

Break ft for can a mile north

At 2452 E ch S 115 ft

T. ft 30' W x 10' N of seawall

$$2452 = 115.$$

30

$$2482 = 116.4$$

$$= 10469.5 \text{ ft each ft E}$$

$74314 \times 170.5 = 126.705 \text{ W}$   
 $66913 \times 170.5 = 114.086 \text{ S}$   
 87

July 2-1922

Just at dawn

RE 2579E

$\text{run } S 48^\circ W 170.5 = 126.7 \text{ W}$   
 $114.086 \text{ S}$

30 ft W and 10 ft E of  
seawall

at Corrected Hub  
 2340.30 E Char S-90  
 110 ft E from ~~015110~~  
 2 more mercur etc

It is 94.4 ft E to face  
 from corrected Hub

Looks like "1967" E.  $P_{92}$   
 75 ft E of well by circle 2.43

Hub 1868.9 is 6 ft E of  
 mark which is SE  
 about  $S 30^\circ E$

Mark mostly empty  
 607

at I m mhd  $\frac{1}{16}$  CEN NW  
QTR. Field of hay begins  
18 ft West and runs S  
about 20' W of  $\frac{1}{16}$

From  $\frac{1}{16}$  to 20 ft square  
wall of small brick timbers  
in 76 ft 20

From  $\frac{1}{16}$  to 10 line of new  
stakes in 65 ft creek  $\frac{65}{4}$  = 16.25  
4 = 16.25

Field begins at 1 ft  
20 ft West of  $\frac{1}{16}$  and runs  
S 40° W 75 ft to line of stakes  
88 ft NE corner of big strip pile  
30 x 12 x 5-5 ft hi

S 40° W

sin  $64279 \times 75 = 48,209.25$  V

cos  $76604 \times 75 = 57,453$  S

Note:-

- ① L. Blueprint for Adams on door knob
- ② writ for US plat
- ③ Tell attorney about line fence
- ④ map up cultivated part

Foehn

.0469 S. 04653

2579 E I.M.

2482 E Lk Shore 116.45

2452 E " " 115.8

.04653 S

E 2579 So 120.00

E 2482 So 115.49

2452 S 114.09

45-R28

91

15

16 15 15 14



21

22

23

24

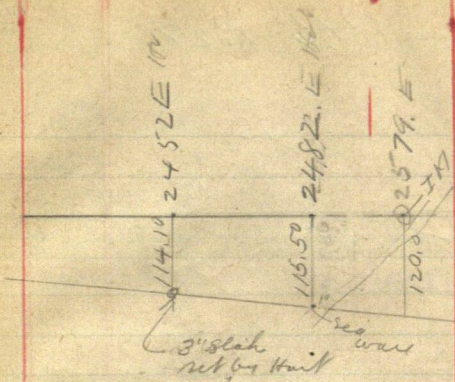
27

26

33

34

35



Factor .046535  
 for each foot E of N' 1/16 in  
 Width see 22

1.046574

(93)

$$\begin{array}{r} 2452 \overline{) 114.10} \\ \underline{98 \ 08} \\ 16 \ 020 \\ \underline{10 \ 712} \\ 53 \ 08 \end{array}$$

146504

$$\begin{array}{r} 2452 \overline{) 114.10} \\ \underline{98 \ 08} \\ 16 \ 020 \\ \underline{14 \ 712} \\ 1 \ 3080 \\ \underline{1 \ 2260} \\ 8200 \end{array}$$

July 31-1933 Monday

1-15 PM

Mr Harry W. Adams  
Widower arrives at Jenkins  
with Mr Alfred Mayhew  
of Bay Lake Twp 45-28.

Mr Adams wants a corrected  
plot of a part of Govt Lots 3-4  
Sec 22-45-28 made

Walter M. Murphy plotted  
it May-1933. but his description does  
not fit

(2)

August 1-1933 Tuesday

All am at Jenkins

PM - 2 PM. Pick up Lofe Cyrus  
and with <sup>2</sup> tents and my "new"  
Two wheel trailer drive to

South Long Lakes. Pitch on tent  
Lofe and I sleep in tent  
on on Haake-Gorther survey

Aug 2-1933 Wednesday

I, Leave Lofe cutting brush  
and 9 AM. look for NE cor 7-

Seefield Brook # 225

Drive to Bearhead. See Haake  
(Myrtle teacher at Cut Bank  
Mont) PM.

Swanson - Swanson & Swanson  
draw Haake Cont. He  
gives me Gorther's second  
\$100. Ch and at 4-30 PM  
Drive to Pigout

(3)

Aug 2-1933. Continued

4-30 PM. Pick up Miss Spears  
Indian girl going home to  
Red Lake Reservation Grand  
daughter of Reverend Hart  
Indian Preacher

Get \$15 from Pequot Bank  
Quinnville at Senhies

Aug 3-1933 Thursday

Carl Schultze and his old  
Dodge at 7-30 AM in Senhies  
with his wife and baby. I give  
Carl \$1.10 bug gas and he  
waits for me at MW Co Store  
in Brainerd. I buy grub and  
dinner South Long Lake.

Dinner with Lops Book 4 225-  
PM.

Aug 3-1933- continued (4)

2-PM. I and my car with Carl  
Schultz drive to Bay Lake

3-30 AM.

Mr Adams shows us old survey  
stakes & T.M.S. Carl and I buy

Bread & Butter 40¢ at store

Supper with Adams

Evening

I.M. @ S  $\frac{1}{16}$  Bet 20-21 45-28

I.M. @ N  $\frac{1}{16}$  bet 20-21

In E Edge of fill in corner

Bent N-E

I set flag at N- $\frac{1}{16}$ , with  
Heller on line

After Supper

Bag @ my old 2x2x48' I.M.

Capped & marked @

S  $\frac{1}{16}$  Bet 21-22-45-28 ch.

Northon Turn Lane - 3-6-7-12+

117.35 Blue & in Torvia

West of E road - 1314.35 N Turnp

$\frac{1}{2}$  Cor - 1500+247.25-1747.25

R.R. spike and red patch 7 ft

West of E road Private Road

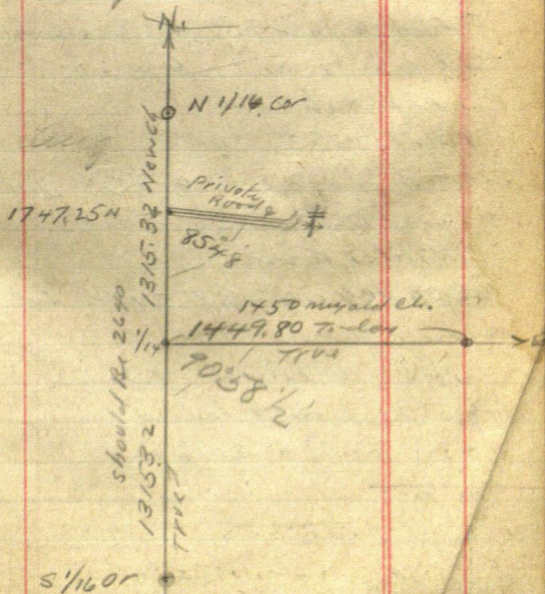
runs S 85° 48' E about 800

feet to telephone pole then curves  
NE @ 18-21-2400 + 230.65 -

99

2630.65 intersect birch picket  
set on road of Iron Mon  
ument North -- Picket = about  
original position of Iron N.M.

Note: Should be 2030. my old  
ruling Too dark. Use more  
Sleep at Adams Residence



100

(6)

Aug 4-1933 Friday

Left at 4-50 Carl and I  
 drove West to over 1747.25  
 From 1314.35 C.N. 870.97 15

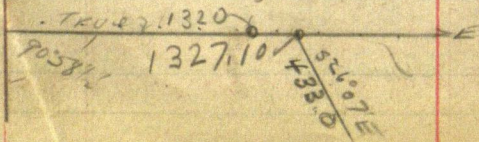
1315-32 drive R.R. spike hit top  
 of stone in Tan H.W. 1 & N-S  
 road - set 2x2 stone in line for  
 True 1/4 Cor But 21-29. 45-28

From My old M.C. on Bay Lake  
 Carl and I cut out E-W E  
 Breakfast at 8-00

9am Beg @ 1/4 Chan  
 East on line 2 3-6-758.3 H.V.  
 $9-1200 + 112.5 = 1312.5$  - Murphy's  
 Hot station

1320 Hot 1449.8 I'm on Lake  
 shore (should be 1450.0)

Hot: at 1260 E = small  
 bog 50 wide by 70 long N-S  
 $60.5 \times 10 N$ . In 875' N end  
 $745.5$  in  
 $= 8000' N-S$  line



92° 15' of old fence with

1/4 Bet 21-22-45-28  
 To pal 6 N 22° 55' E  
 Power pal 100 26' W  
 Power pal ~~7~~ 5 15° 55' W

To Pal 7 S 16° 57' E

2" Rock 3' W of = 1/4 Cor

P.M.

From Hub 13 27.10 E Run S 26° 07' E  
 433.0 To Hub on Lake shore infra  
 'Lot 9'

26° 07' Tong = 49026

Sine 44020 X 433 = 190.61 E  
 OK.

Cosine 89790 X 433 = 388.79 S

8979 into 33 = .0036.75 +

388.79  
 33  
 355.79

62.30  
 62.33  
 27 hours

8979 into 50 = 55.68 + OK.

8979 into 55 = 61.25 +

8979 into 55.79 = 62.13 = 62.30

55.68 X 6 = 334.08

334.08  
 62.13  
 36.75

61.25  
 36.75  
 432.08

432.96 OK. Close 0.04 short

102

August 4-1933 continued

4:20 PM.

Town SE Cor Murphy's Lot 9

Focus N  $26^{\circ}07'W$  and in

S  $41^{\circ}22'W$  157.0 to stake

Murphy's stake marked Lot 9

$41^{\circ}22'$

Sine  $66088 \times 157 = 103.76 W$

Cosine  $75050 \times 157 = 117.83 S$

Tang 88059

Cot

August 5-1933 Sunday

Carl and I up at 4-45 AM

4-55 in field partly cloudy

At MC. IM NE Cor Lot

3-12 W of side wall 16 from foot

20 from water pool

West <sup>on 1110 LN</sup> @ 45 ft ent meadow NESW

@ 75 ft to grassy draw runs SW  
60 ft @ 138 W Hub. under T

@ 168 W. enter marsh runs S 50 ft  
then SW @ 200 W to runs

S 10° W 100 ft in SE E + Point  
20 ft N.

T on N Line Cor Lot # 3-138 W

of IM @ NE Cor BS West Run

S 15° 26' E @ 33.06 Hub NW Cor

of Plot Lot # + 50.08 Cor

239.6 T. lot S 4° 34' W

Call Beaumont Office Supply Co

Min - says she will be home and can  
get evening cloth for us Sunday

33.10  
5602  
50 16  
50 16  
50 16  
239.60 OK

$$\begin{array}{r} 1449.80 \\ 1227^{\circ} \\ \hline 1327.10 \end{array}$$
$$\begin{array}{r} 122.70 \\ 15.30 \\ \hline 138.00 \end{array}$$


11

105

S 40° 34' W 239.6

Sin

Cos 99683 in 33.0 =

Tang

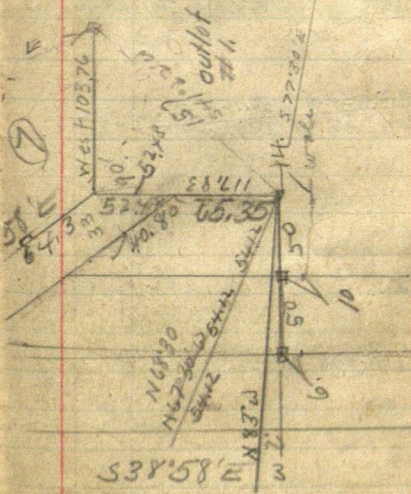
99683 in 55.9 = 56.08

Cos 99683 X 239.6 = 238.8x

99683 in 50 =

~~117.83~~  
~~42.4~~  
~~75.39~~

117.83  
52.48  
65.35



S 38° 58' E 3

Sin 62887 in 33 = 52.48

Cos 77751 in 33 = 42.44 = OK

Tang

77751 X 52.48 = 40.80

62887 / 50 = 79.58

106

0.2

33

55.9

50

50

50

138

①

②

③

4

33.10

560.2

50.

50.16

50.

50.16

50.

50.16

178.3

54° 34' 21" 239.6

13

From SWCOR Outlet #1. Run 107

$$N 67^{\circ} 30' W \quad 68^{\circ} 30' = 93042 \times .50 = 5374$$

$$\sin 92388 \text{ in } 50 = 54.12$$

$$\cos 38268$$

$$\tan 41421$$

$$\begin{aligned} & 54.12 \quad 108.24 - 162.36 - 216.48 \\ & 270.60 - 324.72 - 378.84 \quad NIX \\ & 432.96 - 487.08 (=10=54.200K) \end{aligned}$$

$$92388)33 = 35.72$$

$$54.12 - 108.24 - 162.36 - 216.48$$

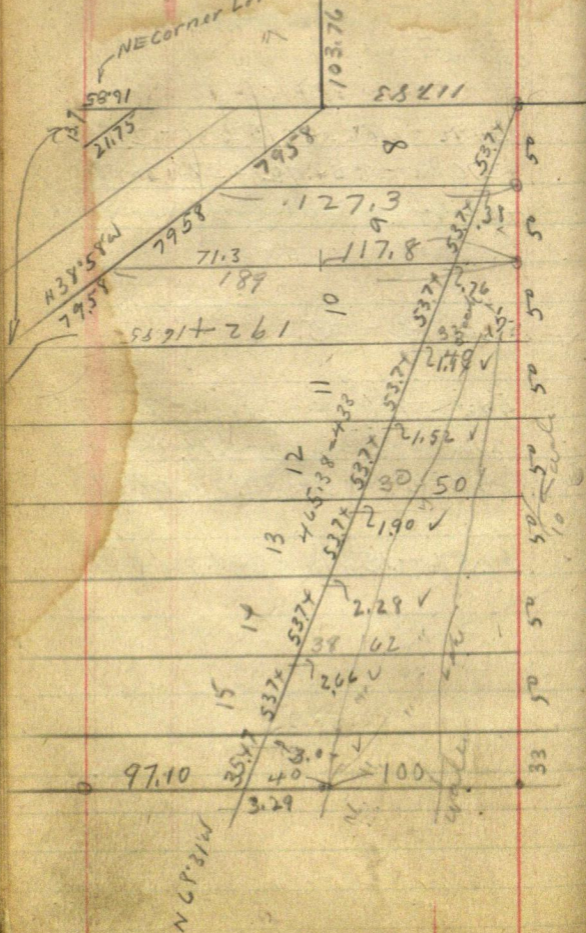
$$270.60 - 324.72 - 378.84$$

$$432.96 - + 35.72 = 468.68$$

$$79.58 - 159.16 - 238.74 +$$

108

NE corner Lot 11.



$$53.7x - 107.48 - 161.22$$

$$214.96 - 268.70 - 322.4x \quad 376.18$$

$$429.92 - + 35.47 = 465.39$$

$$\begin{array}{r} 468.68 \\ 465.39 \\ \hline 3.29 \end{array}$$

$$\begin{array}{r} 432.96 \\ 429.92 \\ \hline 3.04 \end{array}$$

$$\begin{array}{r} 378.8x \\ 376.18 \\ \hline 2.66 \end{array}$$

$$\begin{array}{r} 324.72 \\ 322.44 \\ \hline 2.28 \end{array}$$

$$\begin{array}{r} 270.60 \\ 268.70 \\ \hline 1.90 \end{array}$$

$$\begin{array}{r} 216.48 \\ 214.96 \\ \hline 1.52 \end{array}$$

$$\begin{array}{r} 162.36 \\ 161.22 \\ \hline 1.14 \end{array}$$

$$\begin{array}{r} 108.2x \\ 107.48 \\ \hline .76 \end{array}$$

$$\begin{array}{r} 541.2 \\ 53.7x \\ \hline .38 \end{array}$$

August 6-1933 Sunday

Up at 4-50 AM. 5.05 out on  
the work Carl Schultze and I  
Figuring Angle West End Lts 1 to 4

$$S 4^{\circ} 34' W 239.6$$

$$\text{Sine } 7962 \times 239.6 = 19.08$$

$$\text{Cosine } 99683 \times 239.6 = 238.84$$

$$\text{Tang } 7987 \times 238.84 = 19.08$$

$$1311.80 \equiv$$

$$33082$$

$$\hline 98098$$

$$236.3$$

$$33$$

$$\hline 269.3$$

$$42.44$$

$$311.74$$

$$19.08$$

$$\hline 330.82$$

$$172.84$$

$$33$$

$$\hline 205.84$$

$$7987$$

$$206$$

$$\hline 479.22$$

$$159.74$$

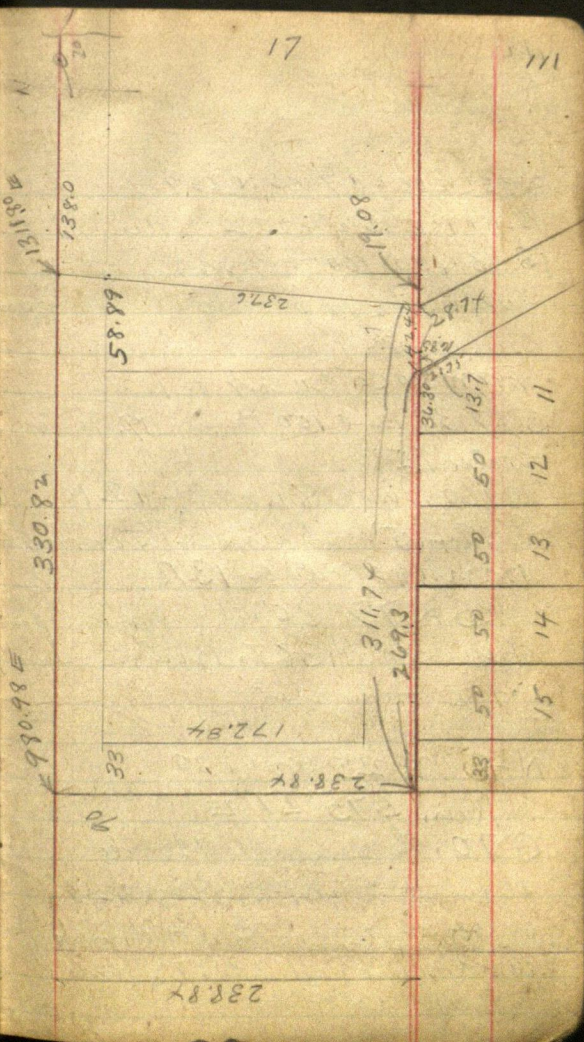
$$\hline 16.45322$$

$$\begin{array}{r} 1908 \\ 1415 \\ \hline 263 \end{array}$$

$$42.44$$

$$16.45$$

$$\hline 58.89$$



238.84

330.82

980.98

1311.80

11

0.20

58.89

138.0

237.6

172.84

238.84

19.08

36.30

13.7

50

50

50

50

28.7

112

aug 6-1933 contd.

TO SECOR Lt 7 BS N 26° 07' W

Bunk 10 E - water 20 E Run

S 33° 40' E 100 T. Bunk

water 5' L

From SW corner of Hl. R

S 77° 30' E @ 100 Bunk 19' R

water 12 R

@ 160 Bunk 8 R. water 12 R

@ 194.5 Hub under Trench

Bunk 10 R water 13 R.

BS N 77° 30' W

then North 38 T. Bunk

42 T. water

N 45° E 25 water 30

Run S 75° 27' E

@ 70. & seawall 10 wide

10 wide water @ 100 & 8'

wall 3 ft R. @ 120 & 6'

wall 4 ft R. @ 172 Hub

& 5 ft wall

S87°10'E ✓ @ 90  
 @ 90 Ridge 20 ft and  
 @ 150 water 15 ft 100 ft  
 @ 150 water 100 ft  
 @ 200 water 47 ft 100 ft  
 @ 300 water 90 ft 78 ft  
 @ 400 - @ 415 E point  
 Round end end

135-7

Bet Lot 5-6 - 135.7 ft  
 + 21. Sea wall  
 + 45. 5 ft  
 at sea wall  
 12 ft 18 ft. Box of  
 Brown

Bet Lot 6-7 @ 119.8 ft  
 @ 132 ft @ 145 water  
 Mark hill down  
~~to first ditch~~  
~~for first ditch~~  
~~down~~

114

August 6 - 1933 Sunday  
continued

172.87  
33  
205.87

15  
135  
10  
10  
155

206  
787

1442  
1656  
1472 02

206  
787

1442  
1648

1242  
142322  
1288  
2707  
1350

Trans 4-34

816  
787  
296

17

4.30  
Trans = 787

4.40 816  
206  
816  
1236  
206

1248  
128096

206  
816  
1236  
206  
1441  
148096

# Adams' Bay Lake Part

Time sheet working for Harry W. Adams & Stanley Vance

August 1933

John W. Curro

Sun

16 17 18

23 24

1/2 PM

1/2 PM

5/4

Expense

Car

15<sup>th</sup> 17<sup>th</sup> Cont  
m

1

1

Carl Schaffert

3 13 13 13 ?

- - -

- - -

Lake Curro

1

1

JR Red Cross

1/2 PM

1/2 PM

Art + W. Beecher Aithin  
Insurance - Real estate  
Friend of Henry Adams  
at Bay Lake August

1933

23

117

118

Stanley Vanek

Oct 8 1935

Met "Earnie" Wise

Of Citizens State Bk. Bismarck  
who tells me to go to Stanley F.  
Vanek at Adams' Bay Lake Park

Sec 22-T45-R28

Gov Lot 5

2-PM Reed and I to Bismarck  
Find Stanley Vanek and Son  
Don Cutting Roadway at Bay Lake  
Contract

I am to receive \$150.00 for  
plotting a part of Gov Lot 5  
Sec 22-45-28 Vanek to furnish  
one man and I furnish one

He will board me at his  
cabin but I am to pay his  
wife for my board.

I furnish stakes & Plots  
\$75.00 this Fall & \$75 next  
Spring John W. Carr

Oct 14<sup>th</sup> 1935 Monday  
 This is the day I am to start  
 survey. Reed - Mattie & I  
 to Jenkins 3-PM. Call at Regent  
 Bank also at Clara Bowtell  
 Cottage find College Closed  
 At Rd 4-30 - Over mile with  
 Mattie Caro - just Reed  
 Mattie & I Pugh stays  
 at Jenkins

Oct 15<sup>th</sup> 1935 Tues  
 9-AM. Find Stanley Vanek &  
 Son brushing the back hill at  
 Heller over 2M on W Side  
 Ray Lake Ron

Went on line bet 22-27  
 07'45' Ron to the Right of line  
 line to avoid cutting line  
 99.65. Hat on Ridge  
 3-6-9-81=

819. Hat 12-15-1506.50

Apik. Hat 1534.3 about 2 Reed

120

22-45-28

3

West bet 22-27-45-28

1534.3 about @ State Road  
Top surface SE and NW corner  
about So end of Curve

1500 + 300 = 1800 Stake + 122

1922. Hut on lip = 60 d Spike

2222 stake +

(1862 Cross old road NW SE)

2222.00 + 219 = 2441.0 Hut

$$\begin{array}{r} 2222 \\ 219 \\ \hline 2441 \end{array}$$

X over 2441.0 IM Cor

21-22-27-28-45-28

bear S  $4^{\circ}08'W$  - 18.05 Feet

C = about 1.35 W?

S  $4^{\circ}08'W$  18.05Since  $07208 \times 18.05 = 1.30 W$ Cor  $99740 \times 18.05 = 18.00 S$ 

$$\begin{array}{r} 2441 \\ 1.30 \\ \hline 2442.30 \end{array}$$

at 2442.3 W On 15

21-22-27-28-45-28 bear

So 18.00 ft

(Old Plat 1922 Shows 2443.24)

22-45-28-121  
Correcting

Oct 15-1935

(2443.24 obs)

2442.3

$10^{\circ}25\frac{1}{2}'$

LR

0.15

Cor 21-22-27-28-45-28

Im. Cap 4' old

$$2442.3 / 18.0 = .007371 \text{ Tangent}$$
$$= 0^{\circ}25\frac{1}{2}'$$

Correction:

007371 So - 0.15 N

99.65 W goes So 0.73  $\frac{3}{4}$  N 0.15  
or 0.58 So

819 W goes So 6.04 -  $\frac{3}{4}$  N 0.15 or  
5.89 So to true Line

1506.5 W. goes S 16.10  $\frac{3}{4}$  N 0.15 or  
10.95 South

1922 W. goes So 14.17  $\frac{3}{4}$  N .15 -  
14.02 So

John W. Cress

# Time Sheet working on Contract 8/50.

with Stanley F. Vanek - Mary C. Vanek

October 1935. = 8

Johnny Curo

Cor

Expense

Reed Curo x ch

Stanley F. Vanek

Don

L. E. Henrichs "Ed"

122

50M

30 31

26 27 28 29

25

24

23

22

21

20

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

1/2

1/4

1/8

1/16

1/32

1/64

1/128

1/256

1/512

1/1024

1/2048

1/4096

1/8192

1/16384

1/32768

1/65536

1/131072

1/262144

1/524288

1/1048576

1/2097152

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⑥ Vonck  
Oct 16-1935 Wed.  
Warm SE Wind - Red and I in  
Cabin No 2 - up @ 7-30 am Cloudy  
Correct Line Pg 121 - Don and  
Stanley Vonck help Rud & I  
Cut out line line

TOVER corrected Hat 819. W 10m  
N 45° E @ .70711 = 46.67 set Hat  
33.00 ft N of line see Line list  
22-27 45-28

@ 49.50 at Hub 35 ft N of line  
Note Vonck decides to L. 2 ft  
slip not platted on record

We work till 2-45 PM  
Thunder storm Heavy rain  
at 3 PM - all at call for W. 2

# Board Sheet

Mrs Mary C. Vanev. (Stanley)

124

Oct 1935 - 1 14 15-16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

John W. Guro

Reed

Cash Reed

SUN  
D P B O B  
S L L L  
D P B O B  
S L S L  
O

20

7

22-45-28 8 Vanex

Oct 17-1935 Thru  
up early clear and calm bright  
sun Stanley Reed and I  
8 AM

Ed Hendrix Henrichs  
arrives @ 8-30 on cut from  
Lake shore. Heller on MC  
I M on Wind Bay Lake.  
Oct 22-27-45-28 Focus D  
on IM MC. Then

N 59° 45' W Bunk 10 R. Wals 15 R  
@ 25 Bunk 12 R Wals 20  
(@ 300 alk) @ 90 Bunk 10 R Wals 15 R  
@ 300 Bunk 15 R Wals Foot 15 W 20 R  
381.60 HEN Bunk 9 Foot 12 Wals 14 R  
X over 381.6 BS S 59° 45' E. Run  
N

L. E. Henrichs ( <sup>Lafayette</sup> Edward )

Sign paper (L.E) Ed. Mabel E  
P.M.

P.M. Stanley & wife go to Brown  
Henrichs helps Reed and I

Heller over 381.6 Run

N 84° W 164.6

@ 10 Bunk 11 R 15 Wals 20 R

@ 40 Bunk 15 Foot 20 R

126 9 Stanley

$\pi$  over 164.6 BS S  $84^{\circ}$  E

Brink 10 R. Fort 12' wale 15'

Run ~~S~~ S  $89^{\circ}05'$  W 206.20

@ 50 Brink 1  $\frac{1}{2}$  fort 5 wale 8 R.

@ 150 Brink 12 Fort 15 wale 20 R.

@ 175 Brink 6, Fort 8, - 13 wale R.

264.0

256.8

2x42

191

$\pi$  over Hub 819. W of M Con see  
line run  $90^{\circ}$  North

@ 2.0 Hub @ 33 and 35 Hubs

@ 256.80 Hub near lake shore

$\pi$  over 256.8 Focus South on  
819. S to 206.2 bears S  $67^{\circ}09'$  E

130.3. From 206.2 Run

N  $67^{\circ}09'$  W @ 0.0. Brink 8 R.

Fort 10 wale 15 R Low shore

@ 24 WP 15 R 5' @ 65 Brink 2 R

@ 100 Brink 2' R. @ 130.3

Hub under  $\pi$  Brink 12' R.

Run N  $48^{\circ}27'$  W 124.6 @ 90

Brink 3  $\frac{1}{2}$  R.

Flag over lake bear N  $37^{\circ}32'$  W

Yanck

10

⊗ Fig over lake

BS S 37° 32' E Plt 124.6

beams S 29° 06' E 161.3 Fm

124.6 Run N 29° 06' W

@ 00 Brink 15' R @ 100

⊗ 4 ft ditch Brink 3 R

@ ~~124.6~~<sup>161.3</sup> Habendu ⊗ Brink

3' R. Foot 10 walls 20 R.

Reed and I drive to Brainerd

6 PM. - Mattie is at St Cloud with

Mr and Mrs McKinley Reed and

I eat light lunch and go

to bed Mattie returns about

10 PM or later

Oct 18 - 1935 Friday

Reed and I to Jenkins and

back to Brainerd Stay over

night at Brainerd

Speedometer reads 07.738. I

128

11 V. oneck

October 19-1935 Sat

Lot Sec 22-45-28

J. H. Kreckelberg pays me ch  
 \$25. Cash ch @ Citizens Stab. Ash.  
 "Earnie" Wise invites me  
 to go hunting - Reed and  
 I at 11 am - Stanley is going  
 hunting - Reed & I decide to  
 go - Drive to Senheim get my  
 gun and Leon Albin gun &  
 back to Brammer I take Mattie  
 to Ct Hs @ 1:00 PM She gets her  
 license - Reed and I fly for  
 Bay Lake - Meet Wise & Vaneck  
 Reed & Don go back to Brammer  
 for part of Remington left  
 on Mattie's table - Hunt till  
 3 PM. Reed & I to Brammer  
 Mattie and I go for Huntinsville  
 Support Wadena at 9 PM.  
 Overnights with Clarence Hill  
 and Grace - Lillie at home.

Oct 20-1935 Sunday

129

Mattie & I @ 11-0 AM Callon Bate  
Schmeyer - hunt an hour - &  
drive on - Big chicken dinner  
at Wadena. Drive home to

Brainerd in big rain storm.

Over mt Mattie - Reed - Dwight  
At Mattie & I.

Oct 21-1935 Monday

Cloudy - Rain all day in Bed.  
Dwight - Reed and  
hunt ducks - my car Mattie  
and I on flat

$N 59^{\circ} 45' W 381.6$

$\sin 84573 \times 381.6 = 322.73 W$  329.64  
NIX  $\cos 50377 \times 381.6 = 192.24 N$

$N 84^{\circ} 16' W 164.6$

$\sin 99452 \times 164.6 = 163.70 W$  OK

$\cos 10453 \times 164.6 = 17.21 N$

$S 89^{\circ} 05' W 206.2$

$\sin 99987 \times 206.2 = 206.17 W$  OK

$\cos = 01600 \times 206.2 = 3.39 S$

$N 67^{\circ} 09' W 130.3$

$\sin 92152 \times 130.3 = 120.07 W$

$\cos 38832 \times 130.3 = 50.56 N$

130

Oct 22-1935 Tues  
Cloudy-Dark-Nursed 17° above  
Reid and I at 10 40 AM.

Drive So and E to Lake check chain  
o/c  
Figure

N 59° 45' W 381.6  
Sine  $36384 \times 391.6 = 329.64 W$   
Cos  $50377 \times 391.6 = 192.24$

Dimmuth Vaneh

P.M.

Tower Hub (1506.50 W) 60 d. spk  
10 ft E of E road in corner Run  
N 58° 12' W 184.6 To +.

Corner in E. for Road

Tower 184.6 BS S 58° 12' E

Run N 55° 14' E 55° 13 1/2' E

E. for Run S 53° 35' E 50 ft an

N 51° 05' W 50 ft Run

N 55° 13 1/2' E on E 66 ft Road

@ about 150 Oak 8 to 1 ft diam.

@ 200 Foot of hill 10 ft N. Low land

20 ft. 10 @ 300 Foot 5 ft

Sim 615 ft 20 @ 350 Foot 15 ft

all solid meadow

Oct 22-1935 Contd

N  $55^{\circ}13\frac{1}{2}'E$  continuation  
@ 500 Foot 27 N all salt  
swamp @ 600 Foot 20 ft N  
all salt swamp

at 819W Run N  $45^{\circ}E$

To pt 35N and 35 E of 819 Then  
Went 5.40 T. pt 789.40W

and 35N of M.C. Run

N  $38^{\circ}10'W$  300 at + 250.3

550.30 Hub 60 ft point at  
118 from pt where ditch  
should be mowed

649.5 from & Tor road

From & Tor road center

N  $55^{\circ}13\frac{1}{2}'E$  @ 649.5 IP +

62.6 = 712.10 Spth and N

+ 81.6 = 793.7 slip 10 ft

from water and 72.5 N of Hub

161.3  
and 15 ft E of Lm

Town IP From S  $38^{\circ}10'E$

Red Flag should be

S  $55^{\circ}17'W$

Deeper with Vaneh Rec 20. Home  
to Brainerd

132 Oct 23-1935 Wed  
staying with Mollie  
Plotting

Co Road

At 1506.5 W Run N 58° 12' W 184.6

Sine  $84989 \times 184.6 = 156.89$  W

Cos  $52696 \times 184.6 = 97.28$  N

66' Roadway E

1506.5 W

156.89

1663.39 W

N 55° 15' E 793.7

Sine  $82165 \times 793.7 = 652.14$  E

Cos  $57000 \times 793.7 = 452.41$  N

452.41 N +

97.28 =

549.69 N

1663.39 W

652.14 E

1011.25 W

Try N 55° 17' E

Sine  $82198 \times 793.7$

Cos  $56952 \times 793.7 = 452.03$  N

Try N 15° E

Sine  $25882 \times 33 = 8.54$

Cos  $96593 \times 33 =$

Sine  $25882 \times 34.16 = 8.87$

Tang  $26795 \times 33 = 8.87$

Cos  $96593 \times 33 = 9.38$

"  $96593 \div 2 = 2.87$

"  $96593 \div 35 = 36.23$

"  $96593 \div 50 = 51.76$

9.38

8.87

5.4

2

4

Mary Corner house for our mile

Oct 24-1935 Thurs

School Teachers meeting at C. H.

50 Pcs Pip<sup>8</sup> 1.50 Reed and Z

Reed @ 2-30 PM. Town 210.54 W Ch

N 15° E @ 2.07 spike, to SW cor bet 1

@ 36.23 NE cor 3-4 street @

From 36.23 continue N 15° E

@ 40.0 spike under T on ridge

on W side bet 1. Thunders Hill

40 + 44.5 = 84.5 STR on Bench

1.5 from bench Lat cor bet 1-2

Home to Beavines early

Mater Myrtle Murty, Aunt Mat

and I to Movie Reed home with

Dwight and Mary.

Oct 25-1935 Friday

Reed and I on 10 AM.

From 210.54 W Ch West 104 to

314.54 W Run N 15° E @ 36.23

set spike So Cor bet 2-3-4

From Cor Ch N 15° E @ 93.7

spike on ridge + 45.0<sup>43</sup>

138.7 spike on bench bet 3-4

2 1/2 to bench 10 to water

Chain bet 1-4 on lake = 104. @ 52

set Oak all bet 2-3- on Bench 3' in

T over S cor 3-4 ch @ 52 spike bet 2-3

Went 52 to 104 - spike

134 Oct 25-1935 Continued

over S. on 3-4 Run West

52 Lot 4-5

104 " 5-6

156 = " 6-7 476.2 C<sub>4</sub>

208 = " 7-8 68.7

260 = 8-9

312 = 9-10

364 = 10-11

416 = 11-12 + (68.7)

68.4

4844

123.7

52  
416  
68  
484

416  
684  
484

476.2  
682  
544.2

276.2

Dinner with Vouch. PM

Reed and I @ Imen on right Bay  
Lake Ch 10 ft and N 2.00 ft  
set 2 1/2 x 36" Pipe 2 ft from bank  
@ center 5-6 - Run N 15°

@ 123.7 spike on ridge + 2.4

42.4

166.1 spike in path 123.7 +

54.0

177.7 spht Lot C 177.7

3 ft no of bank

2" - 99.7

alt 25-1935 Corb

Tom 177.7 BS-5 bet bet 6

Time L 88° @ 50.10 ret spike 3 ft from  
brink bet bet 4-5

N end bet 4 = 51.50 W

Tom N. Cor bet 5-6 Fares 2 bet

5-6 Time 79° R. = 11° 00'

150.00

Cor = 98.163 -

98.16

1.84

@ 50.92 = 50

@ 51.00 ret bet 6-7 @ 102.1 bet bet

7.8

ret 2 ms. bet 6-7 and 7-8 3 ft from brink

Tom 164.1 FS m 123.7 bet bet

5-6 Time 81° R

Cor 9° = 98.77

150.00

98.77

151.85 =

1.23

6.2

@ 152.10 2 ms bet 8-9 2 ms 4 ft from

angle @ 79 = 11° Sun = 98.163

100.00

98.16

1.84

2

3.68

203.68 = 200

3.2

@ 204.1 ret 2 ms bet 9-10 3 ft from

N 15° E bet 11-12

@ 91.6 spike windy, + 80.8

80.8

172.4 spike 91.6 + 91.2 =

182.8 spike 91.2 12 ft from water

Cor bet 11-12

Supper and over with in Brammer

John W. Cress

136 Oct 26-1935 Sat

up @ 7.00. Bright sun at 8  
50° for 48 ft 2x2-

T over N Cor Lot 11-12-

@ Hub 182.8 N Cor Lot 9-10 L.T.  
76° R. 104.3

$\cos 14^\circ = 97030$

$103.5 \times 9703 = 9999.0$

@ 52.15 set cor 3 ft N

N Cor 10-11 bet 73° R. 52.30

Note: N End Lot 11 = 52.3 +

" " " 10 = 52.3 +

" " " 9 = 52.0

" " " 8 = 52.5 +

T still @ 182.8 Focus S. bet 11-12. Turn

84° R.  $\cos 6^\circ = 99542$ .

@ 50.30 set ath. bet 12-13 - 86° 30' R.

@ 182.8 Turn 90° R. 100.50 on T.

13-14 - Back 4' R.

Note N End Lot 13 = 50.3

" " " 12 = 50.2

Dinner with Vanech

P.M. Figuring

N 38° 10' W 550.2

$\sin 11^\circ 17' 5'' = 66^\circ = 10.69$

Cor 78622 - 66° 83,946 - 2 = 41,97

T over S. Cor Lot 12-13 - Run

S 38° 10' W 41,978 Then West 83.94 T.M.

SW Cor L.C. with

N 38° 10' W @ 75° 15' - 208, 266,

32x - 382 - 422 - 476 - 530 - 583.4

28.4 W of 819 = 847.4 W of 01 C.

28.4

847.4

Row NW Cor Ditch

90° L 244.2 ch & ditch

106.3 spike 8 from Bnt 20 from

wall 5 ft N of NE Bnt and

10 ft N of E ditch

Ditch 10 ft wide

E End L 15 = 40.2 + ft

Row Cor 1546 ft N 38° 56' E

111.80 at 7 ft from Bnt 15 ft 20 wall

93° 27'

T@ 550.3 From 338° 10' E

Sw angle of E road = 93° 27'

3' 27' Cor -

79819 in 83 -

Ch

E 62.6 spike on E

on hill + 81.7  $\frac{81.7}{747.3}$

144.3 wood 7 ft from

Low wall 20 ft from

Row 144.3 ch 90 R 33

at 1 ft N of Cor L 21 - 12 ft

Low wall and 35 ft from

wall. From NE Cor Ditch

Ch N 50-50 in line

vert. mark ch 58

to NE Cor L 12

138

See Crosby Beach  
Walton <sup>CE</sup>  
see also keeper

Jack Lorson owner  
Bay Lake Beach

Part of Nov L 15 See 22-4528

Oct 27-1935 Sunday

Miss Nerty at St Paul

I work on plot at Ct Ho

Quint at 1-pm

Mary and Nerty Lofn  
Cross Lake. Reed and I  
still with Mattie

Oct 28-1935 Monday

Reed and I all day staking

Dinner with Vane

Oct 29-1935 Tuesday

All day in Brammole plot

George and I finish  
plot at midnight

Oct 30 - 1935 Wed  
up late. Reed-Diorgel-Mattheis  
and I. Cloudy

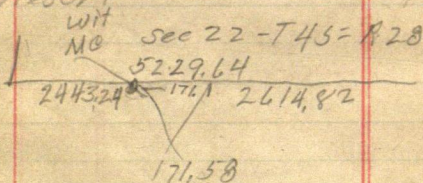
10 AM Z. Lilephone I and his  
Map is finished. He will come  
to sign up at 2 PM.

140

Aug 17-1955

Joe Vilelli's Bay Lake

Don't I to Lonesome Pine  
Resort



Tower Wit MC West side

Bay Lake bet Sec 22-27

side over lake to Wit MC

E side lake Turn R

42012'

since 671721 X 231.61 = 155.585

cosine 740805 into 171.58 = 231.61

drive ZM

Trees

Pop 10 S 22°04' E 19.30

R. Oak 10 N 81°25' W 10.05

$$\begin{array}{r} 522964 \\ 261482 \end{array}$$

4 1/2 7 from old I 11

2624



1127.8

2588

8690

10006

99939) 100000

99939

60000

599639

10366

7

257.8

154

118

36

~~200~~  
~~230~~  
~~230~~  
~~230~~

spike center of road  
 17.3 ft south of N road

since  
 2641.90 state M.A. 4  
 4135.16 thick  
 4622.1 "

1 foot into  
 N 40 35' E 317.7

4889.4

899.5 = W Hook  
 9017.30 W " "  
 1689.20 W "

N  
 89° 41' E  
 W 2689.2 W  
 1/4

N 230.5 ft.

62.

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MINING  
TRANSIT BOOK

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333

# INDEX.

Page. to. Page.

## Personal

Survey of Sec 28-138-30. Adamson.  
H Mildred.

3 to 8

Cass Lake (drainage for roads)  
Pamase.

9 to 39

Survey on sec Lines from SW cor

40 to 43

sec 4 to SW cor sec 6. T136R29 Pamase.

SURVEY of sec 12-136-30-Horst. 45 to. 59

Survey " " 7 " - 29- " 62 " 80

Levels and yardage on side

Ditch of Road. Beginning at

80 - 85-

Pt on N side Road. 600' E

of S 1/4 cor sec 29. 193-31

Saturday June 17<sup>th</sup> 1916  
 Ls Mpls 7.40 P.M. U.S.  
 NP and M<sup>and</sup> I Ry for Walker Minn  
 RR fare \$3.74

Sunday June 18-1916

Arrive at Walker 3.15 P.M.  
 Room 19 at Carlsons hotel  
 Breakfast at 8.30 20¢  
 Cues and I go to office in  
 A.M. and take dinner with Cues  
 Supper at Carlsons 25¢  
 Lodging at Carlsons Room 19.  
 Recd \$5. from Cues for expense

Monday June 19<sup>th</sup> 1916  
 Pay Carlson \$4. in full for  
 hotel exp. and Cues and I take  
 9:30 A.M. train to Milledge to  
 put in Center of sec 28-138-30  
 working for the landowners  
 Pommeau

Time sheet working for land owners of Dec 28-131-80

June 1916

19 20 21 22 23

John W. C. 1 0 0

B. F. Rhodes 1 1 1/2

August Hoffman 1 1 1/2

T. H. Adams 1 1 7 hrs

John P. M. S. E. 1 1 7 hrs

completed work at 3 P.M. June 21<sup>st</sup> 1916 - Left Midred  
for Waller at 4 P.M. June 21<sup>st</sup>

526

3

4 SEC. 28-138-30  
526

JUNE 19<sup>th</sup> 1916, 1:55 P.M.

starting at N. <sup>1/4</sup> cor (pipe) sec. 28 and  
RUNNING E. ON 8°15' bearing set  
Hub at sta 4+00 set hub sta 8+00  
At 13+20 set temporary <sup>1/4</sup> cor.  
set hub at 19+00 set Hub 25+00 and  
quit for the night

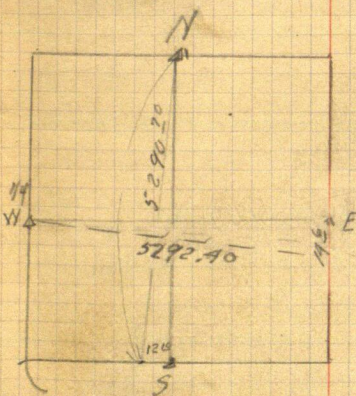
JUNE 20<sup>th</sup>

started at 7 A.M. continued  
east from sta. 25+00 on line  
Running E from N. <sup>1/4</sup> cor sec  
28-138-30. Set 26+40 for  
center of sec 28 for temporary  
center, set hub at sta 29+00  
At 39+60 set temporary <sup>1/4</sup> cor  
set hub at sta 50+00  
Run to E <sup>1/4</sup> cor 2" iron pipe Sec 28  
my distance 5292.40' struck south  
of Cor 19.40' diagram on opposite  
Page.

1 P.M. starting at N. <sup>1/4</sup> cor 2" pipe sec  
28-138-30 and running south  
on 8°00' bearing  
continued on page 6

5261

5



N and S Line

5290.70 my chain  
 5280.00  
 10.70 long

1/4 cor.  
 E and W LINE

5292.40 my chain  
 5280.00  
 12.40 long

6 526<sup>00</sup> ⑤

continued from page 4

Set hub at 10+00, set temporary

$\frac{1}{16}$  cor sta 13+20. set hub 22+00

set temporary  $\frac{1}{4}$  cor 26+40 set hub

sta. 31+00 set hub sta 38+00 set

sta 39+60 for temporary  $\frac{1}{16}$  cor.

quit for Night.

June 21<sup>st</sup> 7 A.M. Start at sta.

39+60 on N & S Line and

continue south to S  $\frac{1}{4}$  cor of

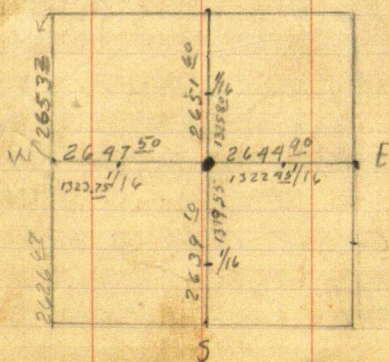
SEC 28-138-30. set hub 45+00

9 A.M. finished Line N & S.

Total dist 5290.20 struck west of S  $\frac{1}{4}$  cor.

12'  $\frac{1}{4}$  inch pipe see page 3

For center of section set  $\frac{1}{4}$  m pipe  $\frac{4}{2}$  ft long



SEC 28-138-30 526 7

Offset to North on east and  
West line = .27586 per 100'

Run 14.60' south of E  $\frac{1}{4}$  Cor.

Dist 5292.40 12.40' Long

Sta offset to North

4+00	1.10349 - 1.10
8+00	2.20698 - 2.21
13+23.75	3.65 - 3.65
19+00	5.24134 - 5.24
25+00	6.89650 - 6.90
26+	
29+00	7.99944 - 8.00
39+69.95	10.95
50+47.75	13.7930 - 13.79

52+92.40 - Dist N. to  $\frac{1}{4}$  cor 14.60

+ + + + + + + + + + +

offset to E on N & S line = .2287 per 100'

Run 12.10' W of S  $\frac{1}{4}$  cor. offset to East

|          |                 |
|----------|-----------------|
| 10+00    | 2.2870 - 2.29   |
| 13+25.80 | 3.0321 - 3.03   |
| 22+00    | 5.0319 - 5.03   |
| 26+      |                 |
| 31+00    | 7.0897 - 7.09   |
| 39+71.15 | 9.082           |
| 45+00    | 10.2915 - 10.29 |
| 52+96.20 |                 |

continued on next page.

8526

Left T.H. Adamson for Mildred  
at 3 PM. June 21<sup>st</sup> arrived at  
Walker at 5 PM. June 21<sup>st</sup> 1916

R.R. fare from Mildred to Walker. 59<sup>cts</sup>

x       x       x       x       x       x

CASS LAKE.<sup>D</sup> 1916. 9

June 26<sup>th</sup> at Walker Pomasel  
and Curo made notes and map  
for survey of Cass Lake. County road  
Pomasel left Walker for Cass Lake  
June 26 1916. at 6:14 P.M. over G.N. R.R.  
Arrived at Cass Lake 7 P.M. 1916

Pomasel staying at Boston Hotel  
beginning with supper June 26 1916  
Fare from Walker to Cass Lake 49 cts  
Buss from Walker to G.N. Station 25 cts  
Tuesday June 27. 1916. Left Cass Lake  
at 7:00 a.m. with Howard Swanberg  
and Walkerd south to big swamp  
and then to Pike Bay. Where we  
make preliminary survey for  
levels, for drainage of big swamp  
on County road between Sec 27 and  
28. T 145 R 31.

Still boarding with F. Kohn  
Boston Hotel.

Howard Swanberg boarding at  
home.

Curo comes to assist us. Leaves  
Walker at 3 a.m. via M. I. R.R.  
Bermidji, Thence to Cass

Lake where we go over  
plans. Curo stays at  
Endion

Wed June 28. 1916 John W Curo,  
John F Pomasek, Howard  
Swanberg. Get Livery team  
J.D. Steiner, with H.K. Wright  
as driver, Leave Cass Lake  
at 7:30 A.M. and drive to big  
swamp on County Road  
Bet. Sec 27-28-195-31. Where  
we take levels. We find  
the swamp wet, no place  
to set up level and decide to  
run up a line from the general  
water level of Pike Bay.  
We drive to Pike Bay on  
The east edge of government  
lot 1 sec 27 T195 R.31  
Where we establish a B.M.  
by assuming the present  
water elevation of Pike Bay  
as 500.00  
J.D. Steiner for Livery \$ 3.50

Established BM. do. 1. on top of  
high bank about 50 FT from  
lake.

| Sta.            | B.S.   | Hi.                     | F.S.  | ELEV    | REMARKS.   |
|-----------------|--------|-------------------------|-------|---------|--|
|                 | 11425  | 511.425                 |       | 500.00  | Assumed Elev<br>of lake. 500.00  |
| BM #1           | 11.630 | 522.185                 | 0.870 | 510.555 | BM. on top of  |
|                 |        |                         | 1.295 | 520.890 | Bank 520.890   |
| BM.             | 474    | 525.63                  |       | 520.89  | June 29 1916   |
| TP.             | 645    | 530.05 <sup>1.12</sup>  | 2.03  | 523.60  |  |
| TP.             | 492    | 530.92 <sup>.37</sup>   | 4.55  | 528.50  | June 29 1916.  |
| TP.             | 671    | 526.72 <sup>.370</sup>  | 10.11 | 520.01  |  |
| TP.             | 332    | 528.91 <sup>.19</sup>   | 1.13  | 525.59  |  |
| TP.             | 509    | 527.29 <sup>1.52</sup>  | 6.71  | 522.20  |  |
| TP.             | 922    | 531.96 <sup>1.27</sup>  | 4.53  | 522.74  |  |
| TP.             | 804    | 534.69 <sup>2.73</sup>  | 5.31  | 526.65  |  |
| BM #2           | 420    | 533.82 <sup>.87</sup>   | 5.07  | 529.62  | BM. on stump left<br>of center line bet  |
| TP.             | 398    | 539.20 <sup>.46</sup>   | 3.00  | 530.22  | sec 27-28-195-31   |
| BM #3           |        |                         | 6.19  | 528.61  | for exact location<br>see profile notes.   |
|                 |        |                         |       |         | on sec cor. bet sec<br>21-22-27-28-195-31  |
| BM #1           | 536    | 535.33 <sup>2.12</sup>  | 4.83  | 529.97  | on tree. 30' left of<br>Sta 0+20. sec. cor   |
| TP.             | 351    | 533.21                  | 5.63  | 527.70  | 21-22-27-28-195-31   |
| BM #2 for check |        |                         | 3.59  | 529.62  | 2000. BM not marked.   |
|                 |        |                         |       |         | check on BM on stump<br>left of center line bet<br>sec. 27-28-195-31. as<br>shown above. |
| BM              | 129    | 530.91 <sup>11.51</sup> |       | 529.62  |  |
|                 | 118    | 519.40                  | 12.69 | 518.22  |  |

continued on page 12

June 29 1916

④

| 12 | B.S. | H.I. | F.S. | Elev | REMARKS |
|----|------|------|------|------|---------|
|----|------|------|------|------|---------|

|      |     |        |      |        |  |
|------|-----|--------|------|--------|--|
| T.P. | 1.1 | 519.40 | 1282 | 506.58 |  |
|------|-----|--------|------|--------|--|

|  |      |        |   |        |  |
|--|------|--------|---|--------|--|
|  | 1.11 | 507.99 | - | 506.58 |  |
|--|------|--------|---|--------|--|

|                        |      |  |  |        |  |
|------------------------|------|--|--|--------|--|
| Elev of water in swamp | 5.77 |  |  | 502.22 |  |
|------------------------|------|--|--|--------|--|

|      |      |        |     |        |  |
|------|------|--------|-----|--------|--|
| T.P. | 3.21 | 507.12 | 408 | 503.91 |  |
|------|------|--------|-----|--------|--|

|                     |      |  |  |        |  |
|---------------------|------|--|--|--------|--|
| Water Elev in swamp | 5.16 |  |  | 501.96 |  |
|---------------------|------|--|--|--------|--|

|        |  |  |      |        |  |
|--------|--|--|------|--------|--|
| BM. #5 |  |  | 3.68 | 503.44 |  |
|--------|--|--|------|--------|--|

|   |   |   |   |   |  |
|---|---|---|---|---|--|
| X | X | X | X | X |  |
|---|---|---|---|---|--|

For check. Assuming Pike Bay water Elev as 500.00 to check on BM. in swamp on Sec Line Bet 27-28-145-31. Carried from water Elev on N side of swamp at Pike Bay

|     |       |        |  |        |  |
|-----|-------|--------|--|--------|--|
| BM. | 12.72 | 512.72 |  | 500.00 |  |
|-----|-------|--------|--|--------|--|

|      |       |        |      |        |  |
|------|-------|--------|------|--------|--|
| T.P. | 11.24 | 523.76 | 0.26 | 512.52 |  |
|------|-------|--------|------|--------|--|

|      |       |        |      |        |  |
|------|-------|--------|------|--------|--|
| T.P. | 11.40 | 533.76 | 1.40 | 522.36 |  |
|------|-------|--------|------|--------|--|

|      |       |        |      |        |  |
|------|-------|--------|------|--------|--|
| T.P. | 12.89 | 542.59 | 4.06 | 529.70 |  |
|------|-------|--------|------|--------|--|

|      |      |        |      |        |  |
|------|------|--------|------|--------|--|
| T.P. | 2.91 | 536.73 | 8.77 | 533.82 |  |
|------|------|--------|------|--------|--|

|      |      |        |      |        |  |
|------|------|--------|------|--------|--|
| T.P. | 6.57 | 540.30 | 3.10 | 533.63 |  |
|------|------|--------|------|--------|--|

|      |      |        |      |        |  |
|------|------|--------|------|--------|--|
| T.P. | 6.40 | 544.00 | 2.70 | 537.60 |  |
|------|------|--------|------|--------|--|

|      |      |        |      |        |  |
|------|------|--------|------|--------|--|
| T.P. | 6.16 | 548.59 | 4.57 | 539.43 |  |
|------|------|--------|------|--------|--|

|      |      |        |      |        |  |
|------|------|--------|------|--------|--|
| T.P. | 1.49 | 545.45 | 4.63 | 540.96 |  |
|------|------|--------|------|--------|--|

|      |      |        |      |        |  |
|------|------|--------|------|--------|--|
| T.P. | 3.15 | 539.18 | 9.12 | 536.33 |  |
|------|------|--------|------|--------|--|

|      |      |        |      |        |  |
|------|------|--------|------|--------|--|
| T.P. | 9.27 | 544.26 | 1.44 | 534.99 |  |
|------|------|--------|------|--------|--|

|      |      |        |      |        |  |
|------|------|--------|------|--------|--|
| T.P. | 6.01 | 542.04 | 8.23 | 536.03 |  |
|------|------|--------|------|--------|--|

|        |  |  |      |        |  |
|--------|--|--|------|--------|--|
| BM. #6 |  |  | 3.38 | 538.66 |  |
|--------|--|--|------|--------|--|

This set of 10 in. Swamp. Elev of water in swamp about 200' South of N. side of swamp on section line about 800' South of N. side of swamp on section line BM. on swamp about 800' from N. side of swamp on section line Bet 27-28.

BM. on swamp South of swamp 1st of section line of sec. 27-28-145-31 for location see page 110

# Time Sheet for draining of County Road CASS LAKE SEC. 27-28 T145-R31

JUNE

1916 JULY 1916

|                 |    |    |    |    |   |   |   |   |   |   |   |   |   |    |
|-----------------|----|----|----|----|---|---|---|---|---|---|---|---|---|----|
| 26              | 27 | 28 | 29 | 30 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| J.F. POMMASEL   | 1  | 1  | 1  | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |
| J.W. CURRO      | 1  | 1  | 1  | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |
| Howard Swanberg | 1  | 1  | 1  | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |
| J.D. Steiner    | 1  | 1  | 1  | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |
| team            | 1  | 1  | 1  | 1  | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  |

Arthur GAVVREAU

(5)

13

14

⑥

| Sta  | B.S. | H.I.                    | F.S. | Elev   | REMARKS  |
|--|------|-------------------------|------|--------|--|
| BM #6  | 3.07 | 541.73                  |      | 538.66 |  |
| TP   | 2.32 | 531.32 <sup>109.1</sup> | 1273 | 529.00 |  |
| TP   | 0.72 | 519.37 <sup>11.95</sup> | 1267 | 518.65 |  |
| TP   | 1.42 | 507.94 <sup>11.43</sup> | 1285 | 506.52 |  |
| Water Elev. on Sec Line Bet Sec 27-28 - 4.96 |      |                         |      | 502.98 | Water Elev<br>about 100'<br>N of South edge<br>of swamp. |
| check on B.M. on center line 4.80            |      |                         |      | 503.14 |  |

of Road bet. sec. 27-28 - T145 R31  
 B.M. Run on N. Side of Swamp from Water Elev = 503.44  
 " " " " S. Side " " " " " = 503.14  
 Levels across swamp are not accurate  
 on account of no solid place to set up. Pike Bay was  
 very rough when Rod reading was taken.  
 X X X X X X X X X X X X X X X X

June 29 1916 G. Pomase L. and H. Wamberg Curo.  
 Left Cass Lake at 6:55 am to Run  
 Levels from Pike Bay to sec line between  
 sec. 27-28 T145 R31. The difference  
 of Elev. from center line of sec  
 27-28 T145 R31 of water Level of  
 Low place in swamp and water  
 Level of Pike Bay is <sup>swamp water level 500.00</sup> Pike Bay " " 500.30  
 Levels were run on both sides of  
 Swamp from Pike Bay assumed Elev  
 Being 500.00. Check on Levels is 00.30  
 Pike Bay being very rough and  
 swamp being too soft to make a  
 good set up made it impossible  
 to check.

For line stakes. Howard Swanberg  
bought one bunch of lath, 20<sup>cts</sup> paid by  
John Pomasel. At 5:30 set 3 Line stakes  
and hub on the west line of sec  
27. T 145 R 31. Walked home and  
arrived in Cass Lake at 6:45 PM.

x x x x x x x x x

June 30<sup>th</sup> 1916

My chaining from The N.W. cor of sec  
27 to the S.W. cor of sec 27 T 145-R 31  
is 5271<sup>±</sup>, the continuation of chaining  
south is of S.W. cor sec 27 T 145: R 31  
is not very accurate as  $\Phi$  is not  
run by transit, stakes set every  
100' down center of clearing for road,  
for profile levels. Left Cass Lake  
at 6:40 and walked to south side  
of swamp set center stakes  
on center line between sec 27-28  
T 145 R 41. Beginning with sta 0+00  
at sec 21-22-27-28 T 145 R 31.  
continued south to sta 65+00 on  
 $\Phi$  Bet sec. 33-34 T 145 R 31 and  
run profile levels from sta  
0+00 to sta 65+00. Arrived in  
Cass Lake at 6:40 PM. Level  
Notes begin on next page

June 30 1916 ⑧

16) Profile Levels on sec Line. Beginning on the NW cor sec 27 T145 R31 and

Running south x x x x

| Sta. | B.S. | H.I. | F.S. | Elev | Remarks |
|------|------|------|------|------|---------|
|------|------|------|------|------|---------|

|    |      |        |  |        |                                |
|----|------|--------|--|--------|--------------------------------|
| BM | 4.73 | 539.70 |  | 529.97 | on fence<br>30' S. Sta<br>0+00 |
|----|------|--------|--|--------|--------------------------------|

|              |                    |     |  |      |  |
|--------------|--------------------|-----|--|------|--|
| 0+00 Sec Cor | 21-22-27-28-145-31 | 0.4 |  | 28.3 |  |
|--------------|--------------------|-----|--|------|--|

|      |  |  |     |      |  |
|------|--|--|-----|------|--|
| 1+00 |  |  | 4.5 | 30.2 |  |
|------|--|--|-----|------|--|

|     |  |  |     |      |  |
|-----|--|--|-----|------|--|
| +75 |  |  | 2.9 | 31.8 |  |
|-----|--|--|-----|------|--|

|   |  |  |     |      |  |
|---|--|--|-----|------|--|
| 2 |  |  | 3.3 | 31.4 |  |
|---|--|--|-----|------|--|

|   |  |  |     |      |  |
|---|--|--|-----|------|--|
| 3 |  |  | 5.0 | 29.7 |  |
|---|--|--|-----|------|--|

|   |  |  |     |      |  |
|---|--|--|-----|------|--|
| 4 |  |  | 4.7 | 30.0 |  |
|---|--|--|-----|------|--|

|                  |  |  |     |      |      |
|------------------|--|--|-----|------|------|
| +73 <sup>5</sup> |  |  | 5.4 | 29.3 | Hub. |
|------------------|--|--|-----|------|------|

|   |  |  |     |      |  |
|---|--|--|-----|------|--|
| 5 |  |  | 5.8 | 28.9 |  |
|---|--|--|-----|------|--|

|     |  |  |     |      |  |
|-----|--|--|-----|------|--|
| +15 |  |  | 6.1 | 28.6 |  |
|-----|--|--|-----|------|--|

|   |  |  |      |      |  |
|---|--|--|------|------|--|
| 6 |  |  | 10.6 | 24.1 |  |
|---|--|--|------|------|--|

|     |  |  |      |      |                    |
|-----|--|--|------|------|--------------------|
| +30 |  |  | 11.1 | 23.6 | Road.<br>E & West. |
|-----|--|--|------|------|--------------------|

|   |  |  |     |      |  |
|---|--|--|-----|------|--|
| 7 |  |  | 6.5 | 28.2 |  |
|---|--|--|-----|------|--|

|     |  |  |     |      |  |
|-----|--|--|-----|------|--|
| +36 |  |  | 5.7 | 29.0 |  |
|-----|--|--|-----|------|--|

|    |      |        |      |        |  |
|----|------|--------|------|--------|--|
| TP | 2.53 | 531.60 | 5.63 | 529.07 |  |
|----|------|--------|------|--------|--|

|    |      |        |      |        |                                    |
|----|------|--------|------|--------|------------------------------------|
| BM | 2.02 | 531.64 | 1.98 | 529.62 | on stump<br>50' S. of Sta<br>7+80. |
|----|------|--------|------|--------|------------------------------------|

|   |  |  |     |      |  |
|---|--|--|-----|------|--|
| 8 |  |  | 3.5 | 28.1 |  |
|---|--|--|-----|------|--|

|     |  |  |     |      |  |
|-----|--|--|-----|------|--|
| +25 |  |  | 3.3 | 28.3 |  |
|-----|--|--|-----|------|--|

|   |  |  |      |      |  |
|---|--|--|------|------|--|
| 9 |  |  | 10.7 | 20.9 |  |
|---|--|--|------|------|--|

|    |      |        |       |        |  |
|----|------|--------|-------|--------|--|
| TP | 0.02 | 520.21 | 11.45 | 520.19 |  |
|----|------|--------|-------|--------|--|

|     |  |  |     |      |  |
|-----|--|--|-----|------|--|
| +70 |  |  | 7.7 | 12.5 |  |
|-----|--|--|-----|------|--|

|    |  |  |     |      |  |
|----|--|--|-----|------|--|
| 10 |  |  | 8.5 | 11.7 |  |
|----|--|--|-----|------|--|

|     |  |  |     |      |  |
|-----|--|--|-----|------|--|
| +85 |  |  | 9.2 | 11.0 |  |
|-----|--|--|-----|------|--|

⑨

17

| Sta.  | B.S.   | H.I.   | F.S.  | Elev   | Remarks                 |
|-------|--------|--------|-------|--------|-------------------------|
|       | 520.21 |        |       |        |                         |
| 11+00 |        |        | 10.9  | 509.3  |                         |
| T.P.  | 0.35   | 510.69 | 10.47 | 509.74 |                         |
| +30   |        |        | 5.8   | 04.3   | Beginning of swamp.     |
| 12    |        |        | 6.3   | 03.8   |                         |
| 13    |        |        | 6.3   | 03.8   |                         |
| 14    |        |        | 6.9   | 03.7   |                         |
| 15    |        |        | 6.8   | 03.3   |                         |
| T.P.  | 0.72   | 505.76 | 5.05  | 505.69 |                         |
| 16    |        |        | 2.5   | 03.3   |                         |
| 17    |        |        | 3.2   | 02.6   |                         |
| 18    |        |        | 3.5   | 02.3   |                         |
| 19    |        |        | 3.8   | 02.0   |                         |
| 20    |        |        | 3.7   | 02.1   |                         |
| 21    |        |        | 4.0   | 01.8   |                         |
| 22    |        |        | 3.9   | 01.9   |                         |
| 23    |        |        | 4.0   | 01.8   |                         |
| T.P.  | 2.50   | 505.99 | 2.27  | 503.99 |                         |
| 24    |        |        | 4.2   | 01.8   |                         |
| 25    |        |        | 4.1   | 01.9   |                         |
| BM    |        |        | 2.52  | 503.97 | on stump 5' N Sta 25+15 |
| +95   |        |        | 4.1   | 01.9   | Logging Road E & W.     |
| 26    |        |        | 4.1   | 01.9   |                         |
| +40   |        |        | 4.1   | 01.9   | Logging Road E & W.     |
| 27    |        |        | 4.1   | 01.9   |                         |

| 18<br>sta | B.S.  | HI                      | FS.  | Elev   | Remarks                          |
|-----------|-------|-------------------------|------|--------|----------------------------------|
|           |       | 50599                   |      |        |                                  |
| 28.       |       |                         | 4.0  | 02.0   |                                  |
| 29        |       |                         | 4.2  | 01.8   |                                  |
| 30        |       |                         | 4.2  | 01.8   |                                  |
| 31        |       |                         | 4.2  | 01.8   |                                  |
| TP.       | 3.52  | <sup>92</sup> 506.91    | 2.60 | 503.39 |                                  |
| 32        |       |                         | 5.0  | 01.9   |                                  |
| 33        |       |                         | 4.8  | 02.1   |                                  |
| 34        |       |                         | 3.9  | 03.0   |                                  |
| 35        |       |                         | 4.1  | 02.8   |                                  |
| 36        |       |                         | 4.1  | 02.5   |                                  |
| 37        |       |                         | 4.0  | 02.9   |                                  |
| 38        |       |                         | 3.8  | 03.1   |                                  |
| 39        |       |                         | 3.8  | 03.1   |                                  |
| B.M.      | 8.80  | <sup>7.9</sup> 514.16   | 1.61 | 505.30 | on STUMP<br>6' L of sta<br>39+20 |
| 40        |       |                         | 10.8 | 03.3   |                                  |
| 41        |       |                         | 11.0 | 03.1   |                                  |
| 475       |       |                         | 11.1 | 03.0   | south side<br>of runway          |
| 42        |       |                         | 7.7  | 06.4   |                                  |
| TP.       | 8.97  | <sup>9.29</sup> 522.99  | 0.08 | 5140.2 |                                  |
| 43        |       |                         | 2.1  | 20.9   |                                  |
| TP.       | 12.10 | <sup>10.10</sup> 535.09 | 0.00 | 522.99 |                                  |
| +60       |       |                         | 11.2 | 23.9   |                                  |
| 44        |       |                         | 11.6 | 23.5   |                                  |
| +30       |       |                         | 11.9 | 23.2   |                                  |

| STA.                                  | B.S.  | H.I.   | F.S.  | ELEV.  | REMARKS  |
|---------------------------------------|-------|--------|-------|--------|--|
|                                       |       | 535.09 |       |        |  |
| 45                                    |       |        | 4.9   | 530.2  |  |
| T.P.                                  | 8.76  | 542.66 | 1.19  | 533.90 |  |
| +91.8                                 |       |        | 4.6   | 381    | Hub on C.  |
| 46                                    |       |        | 4.6   | 381    |  |
| 47                                    |       |        | 5.1   | 376    |  |
| 48                                    |       |        | 5.5   | 37.2   |  |
| B.M.                                  |       |        | 381   | 538.85 | on stump<br>30' L of Sta 48+10                             |
| 49                                    |       |        | 5.4   | 37.3   |  |
| +35.5                                 |       |        | 3.5   | 37.2   | East and West Road   |
| 50                                    |       |        | 6.1   | 36.6   |  |
| +25                                   |       |        | 6.8   | 35.9   |  |
| T.P.                                  | 6.61  | 537.91 | 10.36 | 532.30 |  |
| 51                                    |       |        | 9.9   | 28.0   |  |
| +20                                   |       |        | 11.7  | 26.2   |  |
| +55                                   |       |        | 11.8  | 26.1   |  |
| 52                                    |       |        | 9.1   | 28.8   |  |
| +20                                   |       |        | 5.9   | 32.6   |  |
| +71.8                                 |       |        | 5.4   | 32.5   | 52+71.8 SEC COR<br>Bet. sections 28 & 27 TMSR 31<br>+33.39 |
| Continuation of levels running south. |       |        |       |        |  |
| B.M.                                  |       |        | 54.6  | 532.25 | on stump 65' R of<br>+52+65                                |
| 53                                    |       |        | 6.3   | 31.6   |  |
| 54                                    |       |        | 5.4   | 32.5   |  |
| 55                                    |       |        | 4.1   | 33.8   |  |
| T.P.                                  | 11.83 | 548.52 | 12.2  | 536.69 |  |
| +70                                   |       |        | 10.8  | 37.7   |  |

| Sta  | B.S.  | H.I.                   | F.S. | Elev   | Remarks   |
|------|-------|------------------------|------|--------|---|
| 20   |       |                        |      |        |   |
|      |       | 548.52                 |      |        |   |
| 56   |       |                        | 10.7 | 37.8   |   |
| 57   |       |                        | 10.4 | 38.1   |   |
| 58   |       |                        | 7.0  | 41.5   |   |
| 59   |       |                        | 3.9  | 44.6   |   |
| T.P. | 11.20 | <sup>906</sup> 557.58  | 2.14 | 546.38 |   |
| 60   |       |                        | 6.9  | 50.7   |   |
| T.P. | 12.81 | <sup>1149</sup> 569.07 | 1.32 | 556.26 |   |
| 61   |       |                        | 7.3  | 61.8   |   |
| T.P. | 11.59 | <sup>1092</sup> 579.99 | 0.67 | 568.40 |   |
| 62   |       |                        | 8.8  | 71.2   |   |
| 63   |       |                        | 4.3  | 75.7   |   |
| T.P. | 8.03  | <sup>600</sup> 585.99  | 2.03 | 577.96 |   |
| 64   |       |                        | 7.5  | 78.5   |   |
| 65   |       |                        | 5.0  | 81.0   |   |
| B.M. | 7.89  | 586.46                 | 7.42 | 581.57 | July 1st 1946<br>1001 Rec<br>30 2 of Sta<br>65+26 |
| 66   |       |                        | 6.3  | 80.2   |   |
| +45  |       |                        | 5.0  | 81.5   |   |
| 67   |       |                        | 4.2  | 82.3   |   |
| 68   |       |                        | 4.2  | 82.3   |   |
| +60  |       |                        | 5.9  | 80.6   |   |
| 69   |       |                        | 4.6  | 81.9   |   |
| T.P. | 6.64  | <sup>176</sup> 588.22  | 4.88 | 581.58 |   |
| 70   |       |                        | 7.6  | 83.6   |   |
| +35  |       |                        | 3.7  | 84.5   |   |

| Sta.    | B.S. | H.I.   | F.S.  | Elev.  | Remarks  |
|---------|------|--------|-------|--------|--|
|         |      | 588.22 |       |        |  |
| 71      |      |        | 1.8   | 583.4  |  |
| 72      |      |        | 7.1   | 81.1   |  |
| 73      |      |        | 7.9   | 80.3   |  |
| +20     |      |        | 8.3   | 77.9   |  |
| 74      |      |        | 11.4  | 76.8   |  |
| TP 215  | 8.29 | 579.33 | 11.04 | 577.18 |  |
| +50     |      |        | 1.5   | 74.8   |  |
| 75      |      |        | 3.2   | 76.1   |  |
| +60     |      |        | 3.9   | 75.4   |  |
| 76      |      |        | 5.3   | 73.8   |  |
| +25     |      |        | 6.7   | 72.6   | { Pothole  |
| +50     |      |        | 6.6   | 72.7   |  |
| 77      |      |        | 4.6   | 74.7   |  |
| +50     |      |        | 5.5   | 73.8   |  |
| 78      |      |        | 7.4   | 70.9   |  |
| 79      |      |        | 10.4  | 68.9   |  |
| 79+18.2 |      |        | 9.5   | 69.8   | 1/4 CORNER   |
| BM 190  | 8.26 | 572.38 | 8.85  | 570.98 | on 1/4 cor. not acc.<br>33-134 T14S R31<br>chaining to 1/4 cor. not accurate |
| 80      |      |        | 5.1   | 67.3   |  |
| +15     |      |        | 5.1   | 67.3   |  |
| 81      |      |        | 7.2   | 65.2   |  |
| 82      |      |        | 11.4  | 61.0   |  |
| TP 165  | 9.74 | 562.64 | 11.39 | 560.99 |  |
| +60     |      |        | 5.0   | 57.6   | road branches west   |
| 83      |      |        | 5.8   | 56.8   | WCT  |

| 22<br>Sta | BS.  | HI                       | FS   | Elev   | Remarks                       |
|-----------|------|--------------------------|------|--------|-------------------------------|
|           |      | 562.64                   |      |        |                               |
| 83+60     |      |                          | 9.1  | 53.5   | Wet                           |
| 84        |      |                          | 8.8  | 53.8   |                               |
| +75       |      |                          | 10.0 | 52.6   | Pothole                       |
| 85        |      |                          | 9.5  | 53.1   |                               |
| TP.       | 2.43 | <sup>650</sup><br>556.14 | 8.93 | 553.71 |                               |
| +60       |      |                          | 3.7  | 52.4   |                               |
| 86        |      |                          | 3.4  | 52.7   |                               |
| +40       |      |                          | 2.6  | 53.5   |                               |
| 87        |      |                          | 5.0  | 51.1   |                               |
| +30       |      |                          | 7.2  | 49.9   |                               |
| 88        |      |                          | 8.4  | 47.7   |                               |
| 89        |      |                          | 9.7  | 46.4   |                               |
| TP.       | 3.95 | <sup>569</sup><br>556.95 | 9.64 | 546.50 |                               |
| +35       |      |                          | 9.0  | 46.5   | WATER RUN<br>EAST.            |
| +90       |      |                          | 1.8  | 48.7   |                               |
| 90        |      |                          | 2.2  | 48.3   |                               |
| 91        |      |                          | 3.5  | 47.0   |                               |
| 92        |      |                          | 6.5  | 44.0   |                               |
| 93        |      |                          | 8.2  | 42.3   |                               |
| 94        |      |                          | 11.2 | 39.3   |                               |
| B.M.      | 2.87 | <sup>654</sup><br>543.91 | 9.41 | 541.09 | ON STUMP<br>20' N of<br>94+20 |
| +95       |      |                          | 3.3  | 40.6   |                               |
| 95        |      |                          | 4.4  | 39.5   |                               |
| 96        |      |                          | 7.7  | 36.2   |                               |

| Sta.  | BS | HI     | FS     | Elev   | REMARKS                                       |
|---|----|--------|--------|--------|---|
|   |    | 54391  |        |        |   |
| 97  |    |        | 9.6    | 37.3   | Bot. Sta 96-97 wet                            |
| 98  |    |        | 9.4    | 37.5   |   |
|   |    | 538    |        |        |   |
| TP. 4.37                                      |    | 538.82 | 9.46   | 539.45 |   |
| 99  |    |        | 5.7    | 38.1   | Road E and W                                  |
| 100   |    |        | 5.6    | 38.2   |   |
| 101   |    |        | 5.1    | 38.7   |   |
| 102   |    |        | 3.5    | 35.3   |   |
| 103   |    |        | 1.7    | 37.1   |   |
|   |    | 522    |        |        |   |
| TP. 8.93                                      |    | 527.04 | 0.71   | 538.11 |   |
| 104   |    |        | 8.1    | 38.9   |   |
| 105   |    |        | 7.4    | 39.6   |   |
| 105+58  |    |        | 5.1    | 41.9   | SEC. COR SET $\frac{33}{195}$ $\frac{34}{31}$ |
|   |    |        |        |        | on stump 30' N of Sta 105+40                  |
| BM.   |    | 542    | 542.12 |        | on stump 30' N of Sta 105+40                  |
| Chaining Along Sec Line not accurate.         |    |        |        |        |   |
| X X X X X X X X X X X                         |    |        |        |        |   |
| Levels. Running East along Township line      |    |        |        |        |   |
| from the S. corner sec 34 T14S-31. to edge of |    |        |        |        |   |
| slough. Water too deep to chain through       |    |        |        |        |   |
| 105+58 = 0+00 Running East                    |    |        |        |        |   |
| BM. 6.55                                      |    | 542.67 |        | 542.12 |   |
| 1+00  |    |        | 5.4    | 37.3   |   |
| 2+00  |    |        | 11.3   | 31.4   |   |
| 3+00  |    |        | 13.5   | 29.2   |   |
|   |    | 529    |        |        |   |
| TP. 3.98                                      |    | 533.75 | 12.90  | 529.77 |   |
| 3+45  |    |        | 6.4    | 27.4   | Water's Edge                                  |

Continued

| Sta  | As.  | Hi                    | Fs    | Elev   | Remarks  |
|------|------|-----------------------|-------|--------|--|
|      |      | 53375                 |       |        |  |
| 3+45 |      |                       | 6.42  | 527.33 | Water Elev.<br>Water is deep<br>gets deeper<br>further out |
| T.P. | 5.86 | 53420 <sup>1.2</sup>  | 5.41  | 528.34 |  |
| T.P. | 8.92 | 53787 <sup>2.67</sup> | 5.25  | 528.95 |  |
| T.P. | 6.38 | 53299 <sup>2.85</sup> | 11.24 | 526.61 |  |
| B.M. |      |                       | 7.90  | 525.09 | O.R. Sec Cor<br>Bet 3-4 T144<br>R31                        |

July 1st 1916. Left Cass Lake at 6:50 AM. Walked to sta 65 Bet sec 33-34 T145 R31 chain to sec cor 33-34 T145-31 on township line distance 105+58. Then went back to sta 65 and run profile levels to above sta. from sta 105+58 run profile levels east 395' to waters edge, water too deep to chain through so run levels East and established B.M. on sec cor Bet 3-4 T144 R31. From there staked & south to 1/4 cor Bet sec 3-4 T144 R31 accurate chaining distance 2813±'. At 4 PM. Mr. Clabundy walks to center of sec 3 T144-R31 with us to see where best place is to drain county road Bet sec 3-4 T144-R31 Arrived in Cass Lake at 6:45 PM. July 2nd Sunday did not work.

Sunday July 2nd 1916. Phoned to J.W.  
Cura at Walker paid 46¢ including messenger

X X X July 3rd 1916 X X X X

| Sta  | BS   | HI     | FS   | Elev   | Remarks   |
|------|------|--------|------|--------|---|
|      | 2.70 | 527.79 |      | 525.09 | Profile Levels<br>South Bet sec 3-4<br>T144 R 31, Beginning<br>at sec cor 3-4 T144 R 31<br>2+00 = sec. cor bet 3-4<br>T144 R 31 on line.<br>Levels not accurate<br>Too soft to set up |
| 0+00 |      |        | 4.2  | 23.6   |   |
| 1+00 |      |        | 4.2  | 23.6   |   |
| 2    |      |        | 4.2  | 23.6   |   |
| 3    |      |        | 4.3  | 23.5   |   |
| 4    |      |        | 4.2  | 23.6   |   |
| 5    |      |        | 4.4  | 23.4   |   |
| 6    |      |        | 4.3  | 23.5   |   |
| 7    |      |        | 4.1  | 23.7   |   |
| 8    |      |        | 4.4  | 23.4   |   |
| 9    |      |        | 4.4  | 23.4   |   |
| 10   |      |        | 4.1  | 23.7   |   |
| BM   |      |        | 3.78 | 524.01 | South side of swamp<br>on pg 4 R. of<br>Sta 10+07.  |

Levels East to Moss Lake along Twp line  
Beginning at sec. cor bet 3-4 T144 R 31  
to get elev of Moss Lake

|    |      |        |      |        |                                      |
|----|------|--------|------|--------|--------------------------------------|
| BM | 5.23 | 531.02 |      | 525.09 |                                      |
| BM | 2.85 | 527.60 | 6.27 | 524.75 | on south 1/2 cor<br>of sec T145 R 31 |
| TP | 5.19 | 529.50 | 3.29 | 524.31 |                                      |
| TP | 3.60 | 524.58 | 8.52 | 520.98 |                                      |

| 26   |      |                        | (8)   |        |   |  |
|------|------|------------------------|-------|--------|---|--|
| Sta  | BS   | HI                     | FS    | Elev   | Remarks   |  |
|      |      | 524.58                 |       |        |   |  |
| T.P. | 3.81 | <sup>2.99</sup> 522.07 | 6.30  | 518.28 |   |  |
| T.P. | 3.99 | <sup>6.8</sup> 522.77  | 3.26  | 518.83 |   |  |
| B.M. |      |                        | 4.20  | 518.57 | on sec cor<br>bet 3-4 T144-R31                              |  |
| T.P. | 2.47 | <sup>2.06</sup> 520.71 | 4.53  | 518.24 |   |  |
| T.P. | 7.36 | <sup>5.06</sup> 526.77 | 1.30  | 519.41 | on log  |  |
| T.P. | 2.83 | <sup>2.30</sup> 529.47 | 5.13  | 521.64 |   |  |
| T.P. | 3.13 | <sup>2.86</sup> 521.61 | 5.99  | 518.98 |   |  |
| T.P. | 1.68 | <sup>9.93</sup> 512.18 | 11.11 | 510.50 | on Road<br>SE & SW glant<br>Moose Lake<br>Water Elev        |  |
|      |      |                        | 7.70  | 504.48 | in Meoss Lake   |  |
| B.M. |      |                        | 3.74  | 508.44 | on tree stump<br>side of road<br>on N side of<br>Meoss Lake |  |

water in Meoss Lake very rough. Level may not  
be very accurate on account of set ups  
in swamp. Low place in swamp between  
sec 3-4 T144-R31 is. Elev. 523.40  
In Meoss Lake. <sup>504.48</sup>  
18.92 Fall.

Monday July 3<sup>rd</sup> 1916. Left Cass Lake  
at 6:30 walked to North sec cor bet sec  
3-4 + 144 R31. Run profile Level & south  
on sec line between sec. 3-4 144-31 to  
sta 10+00. Then run level east along  
township line to Meoss Lake to get  
elev of water, beginning with levels  
at sec cor bet 3-4 T144-R31

After getting ELEV of Meoss Lake  
Pomasel and Swanson walked to  
the sec line bet. sec 27-28 T145 R31  
and set  $1/4$  cor. at sta 26+35.9 turned  
 $90^{\circ}00'$  angle and set line stakes to  
run line to Pike Bay. Arrived in Cass Lake  
at 7 P.M.

July 4<sup>th</sup> 1916.

John Pomasel Leaves Cass Lake  
at 6:50 A.M. and walks to corner  
between sec 27-28 T145 R31 and  
cuts about  $1/2$  mile of line east  
for ditch line to Pike Bay.

28

(20)

July 5<sup>th</sup> 1916

Beginning at a point about half way between the SE and south W corners of sec 29 T145 R31, in swamp to make survey to drain water East along south line of sec 29 ditch on N. side of road.

| Sta  | BS   | HI     | F.S. | Elev   | Remarks   |
|------|------|--------|------|--------|---|
| B.M. | 6.47 | 106.47 |      | 100.00 | Assumed<br>Elev. on old<br>Rock Sta.<br>0+05 S.L. |
| 0+00 |      |        | 8.6  | 97.9   | Low place<br>in swamp                             |
| 1    |      |        | 6.8  | 97.7   |   |
| 2    |      |        | 5.1  | 91.4   |   |
| 3    |      |        | 5.4  | 91.1   |   |
| 4    |      |        | 7.6  | 98.9   |   |
| 5    |      |        | 8.7  | 97.8   |   |
| 6    |      |        | 8.9  | 97.6   |   |
| 7 P. | 3.01 | 101.73 | 7.3  | 98.72  | 3125 ft.<br>per 100 ft.                           |
| 7    |      |        | 4.4  | 97.3   |   |
| 8    |      |        | 6.3  | 95.9   | 8" corr.  |
| 9    |      |        | 7.2  | 97.5   |   |
| 10   |      |        | 6.0  | 95.7   |   |
| 11   |      |        | 6.2  | 95.5   |   |
| 12   |      |        | 6.6  | 95.1   |   |
| 13   |      |        | 5.7  | 96.0   |   |

Final Notes of Side  
Ditch see pages 80-85

(21)

29

| Sta      | BS | HI                    | FS   | Elev  | Remarks             |
|----------|----|-----------------------|------|-------|---------------------|
| 12       |    | 101.73                | 5.9  | 95.8  | 304%                |
| T.P. 223 |    | <sup>2.12</sup> 97.61 | 4.37 | 97.36 |                     |
| 13       |    |                       | 5.0  | 94.6  |                     |
| +60      |    |                       | 5.7  | 98.9  |                     |
| 14       |    |                       | 6.8  | 92.8  | 10.1                |
| 15       |    |                       | 7.2  | 91.8  |                     |
| T.P. 482 |    | <sup>6.51</sup> 97.10 | 7.33 | 92.8  |                     |
| 16       |    |                       | 6.0  | 91.1  |                     |
| 17       |    |                       | 7.0  | 90.1  | and drains its self |
| 18       |    |                       | 8.1  | 89.0  |                     |
| 19       |    |                       | 9.3  | 87.8  |                     |
| +44      |    |                       | 10.1 | 87.0  |                     |

from Sta 0+00 to Sta 8+00 = .3125% -

" " 8+00 to " 8+91 natural drop of 0.9

" " 8+91 " " 14+00 = .304% -

from " 14+00 will drain its self

Showing Elev and cut at each sta

| Sta  | Elev | Grade   | Cut |
|------|------|---------|-----|
| 0+00 | 97.9 | 97.90   | 0.0 |
| 1+00 | 97.7 | 97.5875 | 2.1 |
| 2+00 | 91.4 | 97.2750 | 4.1 |
| 3    | 91.1 | 96.9625 | 4.1 |
| 4    | 98.9 | 96.6500 | 2.2 |
| 5    | 97.8 | 96.3375 | 1.5 |

| (29) |      |          |     |
|------|------|----------|-----|
| Sta  | Elev | Grade    | Cut |
| 6    | 97.6 | 96.0250  | 1.6 |
| 7    | 97.3 | 95.7125  | 1.6 |
| 8    | 95.4 | 95.4000  | 0.0 |
| + 41 | 94.5 | 94.5000  | 0.0 |
| 9    | 95.7 | 94.32064 | 1.4 |
| 10   | 95.5 | 94.01664 | 1.5 |
| + 30 | 95.1 | 93.92544 | 1.2 |
| 11   | 96.0 | 93.71264 | 2.3 |
| 12   | 95.8 | 93.40664 | 2.4 |
| 13   | 94.6 | 93.10264 | 1.5 |
| + 60 | 93.9 | 92.92024 | 1.0 |
| 14   | 92.8 | 92.79884 | 0.0 |

July 5th 1916.

Left Cass Lake at 6:50 walked to the south side of sec 29 T14S R31 and run 2000 ft of levels for ditch and giving center out.

July 6th. Got livery rig from J.D. Steiner with H.K. Wright as driver to take J. Pomasek and H. Swenberg to sec 3 T144-R31. J.D. Steiner for livery \$5.00.

Run ditch line beginning

20' south of the N.W. cor of sec 3  
T144 R31 and running east to Moss  
Lake. Ditch center being 20' from  
township line

List of Lodging and meals at the  
Boston Hotel At Cass Lake. By Tomasel

Date A. Kohn Prop. meals Lodging. Total

|          |         |   |                 |
|----------|---------|---|-----------------|
| June 26. | 1       | 1 | 38 meals        |
| " 27     | 3 meals | 1 | 13 Lodgings     |
| " 28     | 3 "     | 1 | 51              |
| " 29     | 3       | 1 |                 |
| " 30     | 3       |   | 125¢ per meal   |
| July 1   | 3       |   | 125¢ per Lodg.  |
| " 2      | 3       | 1 | 51 x 25 = 12.75 |
| " 3      | 3       | 1 |                 |
| " 4      | 3       | 1 |                 |
| " 5      | 3       | 1 |                 |
| " 6      | 2       | 0 |                 |
| " 7      | 1       | 1 |                 |
| " 8      | 3       | 1 | sunday          |
| " 9      | 3       | 1 |                 |

Tomasel & Swanberg  
staying with Mr. & Labonde  
beginning with supper July 6.

|      |       |       |                  |
|------|-------|-------|------------------|
| July | meals | Lodg. | 25¢ per meal     |
| 6    | 2     | 2     |                  |
| 7    | 6     | 2     | (3.00)           |
| 8    | 4     |       | 25¢ Lodg. \$1.00 |
|      |       |       | <u>4.00</u>      |

32 JULY 14 1916. 24

Profile Levels. Beginning 20' ft  
south of NW cor. sec 3 T14S-R31  
and running East along trap line  
for ditch - 20' to center.

| Sta  | BS  | HI                    | FS   | Elev   | Remarks   |
|------|-----|-----------------------|------|--------|---|
| B.M. | 373 | 528.82                |      | 525.09 | 0100 = 20' S<br>and 20' E<br>of sec line<br>bet 2-4 T14S<br>R31 |
| 0500 |     |                       | 4.7  | 29.1   |   |
| TP   | 458 | 530.45                | 29.5 | 526.87 |   |
| 1    |     |                       | 6.1  | 24.4   |   |
| 2    |     |                       | 6.9  | 23.6   |   |
| 3    |     |                       | 4.4  | 26.1   |   |
| 4    |     |                       | 4.7  | 25.8   |   |
| 5    |     |                       | 7.0  | 23.5   |   |
| TP   | 285 | 527.50 <sup>295</sup> | 5.80 | 524.65 | on trap line<br>20' S of sta<br>524.0<br>Bog of road            |
| B.M. |     |                       | 27.5 | 24.75  |   |
| 6    |     |                       | 4.4  | 23.1   |   |
| 7    |     |                       | 4.6  | 22.9   |   |
| 8    |     |                       | 4.4  | 23.1   |   |
| 9    |     |                       | 4.4  | 23.1   |   |
| 10   |     |                       | 4.6  | 22.9   |   |
| TP   | 393 | 527.96 <sup>76</sup>  | 34.9 | 521.01 |   |
| 11   |     |                       | 4.5  | 23.5   |   |
| 12   |     |                       | 5.0  | 23.0   |   |
| 13   |     |                       | 4.4  | 23.6   |   |
| TP   | 535 | 529.76 <sup>80</sup>  | 3.55 | 524.11 |   |

(25)

33

| Sta        | BS | HI     | FS   | Elev   | Remarks              |
|------------|----|--------|------|--------|----------------------|
|            |    | 529.76 |      |        |                      |
| 13+50      |    |        | 3.8  | 26.9   |                      |
| 14         |    |        | 4.0  | 25.8   |                      |
| 15         |    |        | 8.3  | 21.5   |                      |
| 16         |    |        | 9.7  | 20.1   |                      |
| +20        |    |        | 11.0 | 18.8   | Beginning of swamp   |
| TP 616     |    | 527.11 | 8.81 | 5209.5 |                      |
| 17         |    |        | 8.7  | 18.4   |                      |
| Water Elev |    |        | 7.82 | 19.29  | Water elevation      |
| 18         |    |        | 9.4  | 17.5   |                      |
| +67        |    |        | 7.8  | 19.3   | End of swamp         |
| 19         |    |        | 5.2  | 21.9   |                      |
| 20         |    |        | 5.8  | 21.3   |                      |
| 21         |    |        | 6.5  | 20.6   |                      |
| 22         |    |        | 7.2  | 19.9   |                      |
| TP 375     |    | 525.24 | 5.02 | 522.09 |                      |
| 23         |    |        | 8.5  | 20.3   |                      |
| +35        |    |        | 5.8  | 20.0   | Beginning of fence   |
| 24         |    |        | 5.2  | 20.6   |                      |
| +14        |    |        |      |        | End of fence         |
| 25         |    |        | 7.5  | 18.3   |                      |
| 26         |    |        | 9.4  | 16.4   | 26+05 center of road |
| TP 654     |    | 523.17 | 7.19 | 5166.5 |                      |
| 27         |    |        | 6.5  | 16.7   |                      |
| 28         |    |        | 4.1  | 19.1   |                      |

W L. 10' 10" N  
 10' 10" E  
 10' 10" S  
 10' 10" W

34

Sta

BS

HI

FS

Elev

Remarks

523.19

29

5.6

17.6

30

x

x

x

x

x

7.2

16.0

From 30100  
To 32.52  
opposite  
page

31

5.3

17.9

32

4.4

18.8

TP

3.37

523.75<sup>34</sup>

281

520.38

BM

5.20

518.55

on section  
136134-25  
144-31

33

4.9

18.9

X section 2' Base 1:1 slope

Sta

Grade

Sq Ft

Average Cu Yds

0+00

21.1000

13.60

12.08

44.7

1

21.02857

10.56

10.76

39.8

2

20.95714

10.96

10.76

89.1

3

20.88571

32.13

24.05

133.4

4

20.81428

35.00

36.97

94.1

5

20.74285

15.81

25.41

48.5

6

20.67142

10.36

13.09

37.5

7

20.59999

9.89

10.93

40.5

8

20.52856

11.96

11.96

43.0

9

20.45713

11.25

11.61

51.6

10

20.38570

13.44

15.03

55.7

11

20.31427

13.44

15.90

59.5

12

20.24284

15.92

44.24

81.9

13

20.17141

42.55

92.5

+56

20.13670

14

20.09998

July 7th 1916.

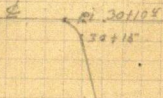
(27)

35-

I Pomase L. Howard Swenberg Runditch  
Levels East along trip line also chain  
and brush with Arthur Gauvreau as helper  
for one day. Chaining brushing and levels  
include days work.

| Sta    | B.S. | I.I.  | F.S. | Elev   | Remarks                       |
|--------|------|-------|------|--------|-------------------------------|
| B.M.   | 520  | 52381 |      | 518.53 |                               |
| T.P.   | 4.17 | 52021 | 7.27 | 51602  |                               |
| 30+19  |      |       | 4.3  | 13.9   | angle south of<br>5 the 30+13 |
| 31     |      |       | 4.8  | 13.4   |                               |
| 32     |      |       | 6.2  | 14.0   |                               |
| 30+104 |      |       |      |        | 72° 51' R.                    |

⊕



|     |      |      |
|-----|------|------|
| +30 | +3.0 | +2.3 |
| 40  | 0    | 3.3  |
| +24 | +2.4 | +2.4 |
| 34  | 0    | 3.4  |
| +24 | +2.6 | +2.6 |
| 26  | 0    | 3.6  |
| +53 | +5.2 | +5.0 |
| 23  | 0    | 6.0  |
| +50 | +5.0 | 5.0  |
| 50  | 0    | 6.0  |
| +31 | +3.1 | +3.1 |
| 41  | 0    | 4.1  |
| +24 | +2.4 | +2.4 |
| 34  | 0    | 3.4  |
| +23 | +2.3 | +2.3 |
| 33  | 0    | 3.3  |
| +26 | +2.6 | +2.6 |
| 26  | 0    | 3.6  |
| +26 | +2.6 | +2.6 |
| 36  | 0    | 3.6  |
| +25 | +2.5 | +2.5 |
| 35  | 0    | 3.5  |
| +32 | +3.2 | +3.2 |
| 42  | 0    | 4.2  |
| +25 | +2.5 | +2.5 |
| 35  | 0    | 3.5  |
| +34 | +3.4 | +3.4 |
| 44  | 0    | 4.4  |
| +58 | +5.8 | +5.6 |
| 70  | 0    | 6.6  |
| +60 | +6.0 | +5.0 |
| 70  | 0    | 6.0  |

01 1/16 per ditch 12  
12 ft. south

36  
sta

Grade

sq FT

Brot Frd  
average 922.5  
2528 94.4.95  
93.7

15

19.45

8.00

6.10

22.9

16

18.80

4.10

2.20

1.6

+20

18.67

31

.16

4.7

17

18.15

00

18

17.50

0.0

495

13.8

+27

17.2435

9.89

2098

25.5

19

17.1125

3206

3226

119.1

20

16.7250

3245

2977

110.3

21

16.3375

2709

24.80

91.8

22

15.9500

2252

27.15

100.5

23

15.5625

31.77

36.03

133.4

24

15.1750

4028

30.10

111.5

25

14.7875

19.92

1396

51.7

26

14.4000

8.00

8.95

33.1

27

14.35

9.89

2156

79.5

28

14.30

33.22

25.23

93.5

29

14.25

17.23

1190

49.1

30

14.20

6.56

6.49

4.6

+19

14.1905

6.42

452

13.6

31

14.1500

2.61

1.31

4.8

32

14.1000

0.0

2075.9

$$\begin{array}{r} +20 \\ 30 \\ \hline \end{array} \quad \begin{array}{r} +20 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +50 \\ 50 \\ \hline \end{array}$$

$$\begin{array}{r} +13 \\ 23 \\ \hline \end{array} \quad \begin{array}{r} +13 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +13 \\ 23 \\ \hline \end{array}$$

$$+0.1 \quad 3+2+20 \quad 0.1 \quad +0.1$$

N<sup>o</sup>

$$\begin{array}{r} 0.0 \\ 0.0 \\ \hline \end{array}$$

$$\begin{array}{r} 0.0 \\ 0 \\ \hline \end{array}$$

$$\begin{array}{r} +23 \\ 23 \\ \hline \end{array} \quad \begin{array}{r} +23 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +23 \\ 23 \\ \hline \end{array}$$

$$\begin{array}{r} +22 \\ 22 \\ \hline \end{array} \quad \begin{array}{r} +22 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +22 \\ 22 \\ \hline \end{array}$$

$$\begin{array}{r} +45 \\ 5.9 \\ \hline \end{array} \quad \begin{array}{r} +45 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +45 \\ 5.9 \\ \hline \end{array}$$

$$\begin{array}{r} +43 \\ 5.3 \\ \hline \end{array} \quad \begin{array}{r} +43 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +43 \\ 5.3 \\ \hline \end{array}$$

$$\begin{array}{r} +28 \\ 28 \\ \hline \end{array} \quad \begin{array}{r} +28 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +28 \\ 28 \\ \hline \end{array}$$

$$\begin{array}{r} +49 \\ 5.9 \\ \hline \end{array} \quad \begin{array}{r} +49 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +49 \\ 5.9 \\ \hline \end{array}$$

$$\begin{array}{r} +23 \\ 2.3 \\ \hline \end{array} \quad \begin{array}{r} +23 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +23 \\ 2.3 \\ \hline \end{array}$$

$$\begin{array}{r} +28 \\ 28 \\ \hline \end{array} \quad \begin{array}{r} +28 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +28 \\ 28 \\ \hline \end{array}$$

$$\begin{array}{r} +20 \\ 20 \\ \hline \end{array} \quad \begin{array}{r} +20 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +20 \\ 20 \\ \hline \end{array}$$

$$\begin{array}{r} +23 \\ 23 \\ \hline \end{array} \quad \begin{array}{r} +23 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +23 \\ 23 \\ \hline \end{array}$$

$$\begin{array}{r} +45 \\ 5.9 \\ \hline \end{array} \quad \begin{array}{r} +45 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +45 \\ 5.9 \\ \hline \end{array}$$

$$\begin{array}{r} +33 \\ 2.3 \\ \hline \end{array} \quad \begin{array}{r} +33 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +33 \\ 2.3 \\ \hline \end{array}$$

$$\begin{array}{r} +16 \\ 2.6 \\ \hline \end{array} \quad \begin{array}{r} +16 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +16 \\ 2.6 \\ \hline \end{array}$$

$$\begin{array}{r} +18 \\ 2.8 \\ \hline \end{array} \quad \begin{array}{r} +18 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +18 \\ 2.8 \\ \hline \end{array}$$

$$\begin{array}{r} +0.8 \\ 1.9 \\ \hline \end{array} \quad \begin{array}{r} +0.8 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} +0.8 \\ 1.9 \\ \hline \end{array}$$

$$\begin{array}{r} 0.0 \\ 1.0 \\ \hline \end{array} \quad \begin{array}{r} 0.0 \\ 0 \\ \hline \end{array} \quad \begin{array}{r} 0.0 \\ 1.0 \\ \hline \end{array}$$

37

(30)

0+00 Running east along twp line = 0+20 Bet sec 3-4

T 144 R 31. stationing south

| Sta  | Grade    | Sq Ft | Average | Cub yds. |
|------|----------|-------|---------|----------|
| 0+20 | 521.10   | 1420  | 1205    | 35.7     |
| 1    | 521.1408 | 989   | 895     | 33.1     |
| 2    | 521.1918 | 800   | 895     | 33.1     |
| 3    | 521.2428 | 989   | 957     | 35.4     |
| 4    | 521.2938 | 924   | 893     | 33.0     |
| 5    | 521.3448 | 861   | 893     | 33.0     |
| 6    | 521.3958 | 924   | 804     | 29.8     |
| 7    | 521.4468 | 684   | 657     | 24.3     |
| 8    | 521.4978 | 629   | 600     | 22.3     |
| 9    | 521.5488 | 576   | 1048    | 38.8     |
| 10   | 521.60   | 1520  |         | 318.5    |

+0.51%

|      |         |      |     |       |
|------|---------|------|-----|-------|
| 0+20 | 521.10  | 1125 | 993 | 29.4  |
| 1    | 21.1408 | 861  | 801 | 29.7  |
| 2    | 21.1918 | 741  | 833 | 30.8  |
| 3    | 21.2428 | 924  | 862 | 31.8  |
| 4    | 21.2938 | 800  | 862 | 31.8  |
| 5    | 21.3448 | 924  | 924 | 34.2  |
| 6    | 21.3958 | 924  |     |       |
| 7    | 21.4468 | 741  | 833 | 30.8  |
| 8    | 21.4978 | 525  | 633 | 23.4  |
| 9    | 21.5488 | 684  | 605 | 21.5  |
| 10   | 21.600  | 800  | 742 | 27.1  |
|      |         |      |     | 290.1 |

L.  $\Phi$

R.

2' bottom 1:1 slope.

cuyds on ditch running east + 2075.9  
cuyds. on ditch both sides of  $\Phi$  sec. 34 T144R31

13.3  
269 7.8 total

cross section of cross ditch  
+23 123 +23 = 889 average  
0.33 1007 for 35.4 = 13.3 cu yds.

Ditch Left of  $\Phi$

|                   |                  |                   |  |
|-------------------|------------------|-------------------|--|
| $\frac{1.33}{30}$ | $\frac{20}{0}$   | $\frac{+2.3}{33}$ |  |
| $\frac{+2.3}{33}$ | $\frac{+2.3}{0}$ | $\frac{23}{33}$   |  |
| $\frac{+2.0}{30}$ | $\frac{+2.0}{0}$ | $\frac{+2.0}{30}$ |  |
| $\frac{+2.3}{33}$ | $\frac{+2.3}{0}$ | $\frac{+2.3}{33}$ |  |
| $\frac{+2.2}{32}$ | $\frac{+2.2}{0}$ | $\frac{+2.2}{32}$ |  |
| $\frac{+2.1}{31}$ | $\frac{+2.1}{0}$ | $\frac{+2.1}{31}$ |  |
| $\frac{+2.2}{32}$ | $\frac{+2.2}{0}$ | $\frac{+2.2}{32}$ |  |
| $\frac{+1.8}{28}$ | $\frac{+1.8}{0}$ | $\frac{+1.8}{28}$ |  |
| $\frac{+1.7}{27}$ | $\frac{+1.7}{0}$ | $\frac{+1.7}{27}$ |  |
| $\frac{+1.6}{26}$ | $\frac{+1.6}{0}$ | $\frac{+1.6}{26}$ |  |
| $\frac{+3.1}{31}$ | $\frac{+3.1}{0}$ | $\frac{+3.1}{31}$ |  |

Ditch R of  $\Phi$

|                   |                  |                   |  |
|-------------------|------------------|-------------------|--|
| $\frac{+2.3}{33}$ | $\frac{+2.3}{0}$ | $\frac{+2.3}{33}$ |  |
| $\frac{+2.1}{31}$ | $\frac{+2.1}{0}$ | $\frac{+2.1}{31}$ |  |
| $\frac{+1.9}{29}$ | $\frac{+1.9}{0}$ | $\frac{+1.9}{29}$ |  |
| $\frac{+2.2}{32}$ | $\frac{+2.2}{0}$ | $\frac{+2.2}{32}$ |  |
| $\frac{+2.0}{30}$ | $\frac{+2.0}{0}$ | $\frac{+2.0}{30}$ |  |
| $\frac{+2.2}{32}$ | $\frac{+2.2}{0}$ | $\frac{+2.2}{32}$ |  |
| $\frac{+2.2}{32}$ | $\frac{+2.2}{0}$ | $\frac{+2.2}{32}$ |  |
| $\frac{+1.9}{29}$ | $\frac{+1.9}{0}$ | $\frac{+1.9}{29}$ |  |
| $\frac{+1.5}{25}$ | $\frac{+1.5}{0}$ | $\frac{+1.5}{25}$ |  |
| $\frac{+1.8}{26}$ | $\frac{+1.8}{0}$ | $\frac{+1.8}{26}$ |  |
| $\frac{+2.0}{30}$ | $\frac{+2.0}{0}$ | $\frac{+2.0}{30}$ |  |

Ditch east side

$\Phi$  sec 3-4 T144R31

Ditch W side

$\Delta$  sec cor.

$\Phi$  of Ditch east side

$\Phi$  sec 3-4 T144R31

$\Phi$  of Ditch W side

$\leftarrow$  Ditch to east

$\Delta$  sec cor

38

(32)

| Sta. | BS   | HI     | R<br>F.S. | L<br>F.S. | E of ditch<br>on left<br>Elev. | E of ditch<br>on right<br>Elev. |
|------|------|--------|-----------|-----------|--------------------------------|---------------------------------|
| BM   | 2.80 | 527.89 |           |           | (525.09)                       |                                 |
| 0+20 |      |        | 4.3       | 3.8       | 24.1                           | 23.5                            |
| 1    |      |        | 4.7       | 4.5       | 23.4                           | 23.2                            |
| 2    |      |        | 4.8       | 4.7       | 23.2                           | 23.1                            |
| 3    |      |        | 4.5       | 4.4       | 23.5                           | 23.4                            |
| 4    |      |        | 4.6       | 4.4       | 23.5                           | 23.3                            |
| 5    |      |        | 4.4       | 4.5       | 23.4                           | 23.5                            |
| 6    |      |        | 4.3       | 4.3       | 23.6                           | 23.6                            |
| 7    |      |        | 4.5       | 4.6       | 23.3                           | 23.4                            |
| 8    |      |        | 4.9       | 4.7       | 23.2                           | 23.5                            |
| 9    |      |        | 4.5       | 4.7       | 23.2                           | 23.4                            |
| 10   |      |        | 4.3       | 3.2       | 21.7                           | 23.6                            |

1144.83  
 2-4  
 BETWEEN SEC

July 8 1916 Swanberg and Pomasel had  
 breakfast at J. Nabunde the cross  
 sectioned 5200 ft of ditch finished  
 The work and walked 5 miles to  
 Cass Lake. Arriving at 6 p.m.  
 Pomasel takes supper and lodging  
 at the Hotel Boston.  
 H. Swanberg stays at Home.  
 List of meals and lodg. at Hotel  
 Boston and J. Nabunde on  
 page 31. Sunday July 9<sup>th</sup> figured  
 x section for ditch.

July 10<sup>th</sup> 1916

H.S. Swanberg, Howard Swanberg and John Pomasel. Take Livery from Cass Lake, J.D. Steiner owner and H.N. Wright driver. Leave Cass Lake at 7 a.m. and drive to sec 4 T144 R31. Where we try to buy a strip of land from C. Lazard for road instead of having road on sec line bet sec 3-4 T144 R31. Which is too swampy. Could not buy land. So decided to leave the work of building road on sec line between sec 3-4 T144 R31 for the present. Livery charges \$2.25.

The ditch to the east beginning on NW cor sec 3 T144 R31 and the two side ditches on sec line bet sec 3-4 T144 R31. is abandoned on account of too much yardage.

Pomasel leaves Cass Lake for Walker Tue July 11<sup>th</sup> 1916. at 7 A.M.

39 July 11<sup>th</sup> 1916

Arrived in Walker at 8 AM.  
Worked on profile of Cass Lake  
Drainage and county road ditches  
in Sec. 27-28-33-34 and 3-4

Trips 144 R31 T145 R31

Tue. July 12 1916

Worked in Office on profile  
as above and on lines to  
be run in Sec 27 T142 31

D

46 July 15<sup>th</sup> 1916 Rec. 426  
 J Pomasel and Howard  
 Swanberg leave Walke for Jenkins  
 at 9:30 A.M. arrive at Jenkins  
 at 10:45. Hired auto from W.M. Hardy  
 to drive us to Mr Cochran  
 IN SEC 4 T136 R29. W.M. Hardy  
 as driver. For livery \$200.  
 Fare from Walke to Jenkins <sup>x</sup>  
 For Pomasel 79 cts  
 " Swanberg \$79  
1.58

Begin boarding with Mrs Cochran

|              |        |      |               |
|--------------|--------|------|---------------|
| July 15 1916 | D.S.   | Lodg |               |
| " 16         | B.D.S. | Lodg | " "           |
| " 17         | B.S.   | Lodg | " "           |
| " 18         | B.D.   |      | @ 100 per day |
| For Pomasel  | 9      | 3    | \$3.00        |
| X 15         | X      | X    | X             |

|         |           |          |               |
|---------|-----------|----------|---------------|
| July 15 | D.S.      | Lodg     |               |
| 16      | B.D.S.    | Lod      |               |
| 17      | B.D.S.    | Lodg     |               |
| 18      | B.D.      |          |               |
|         | <u>10</u> | <u>3</u> | @ 100 per day |
|         |           |          | 3.25          |
|         |           |          | <u>6.25</u>   |

July 15<sup>th</sup> 1976

②

10

Beginning at S.W. cor of sec 4

T 136 R 29 Running W on  $8^{\circ} 12'$  variation

Corner  $2\frac{1}{4}$  in iron pipe

Bearing trees to S.W. cor sec 4 T 136 R 29

N Pine stump 20 inch course S 29 35' E 64.5 FT.  
marked S 35' E 97 links

N.P. 15 inch N 34° 05' E 97.8 FT

Marked N 32° E 148 Links

Using  $8^{\circ} 30'$  variation on bearing trees

sta

9+68<sup>8</sup> Hub.

Set to the S. 003188  
per ft or .3188 per 100 ft.

19+59<sup>6</sup> Hub

using  $8^{\circ} 12'$  variation

29+76<sup>2</sup> Hub

Random course.

47+32<sup>4</sup> Hub

= 388° 48' W

51+02<sup>6</sup> Hub

My chain 5269.5

U.S. " 5266.3

52+69<sup>5</sup> S.W. cor S.W. cor sec 5 T 136 R 29

Random Line 16<sup>8</sup> North of cor.

No bearing trees or  $\frac{1}{4}$  cor found

③

July 15<sup>th</sup> 1916

Pomasek and Swanberg start  
to work at 1 P.M. and found  
SW cor of sec 4 T136 R29  
it being covered up and hard  
to find after being found  
we take course to two old  
bearing trees as shown on page  
40.

COURSE

3269<sup>35</sup> 58 16.8 sec or set with 2 in pipe3952<sup>13</sup> 12.6 to s for true line2634<sup>25</sup> 8.4 set to South for true line1317<sup>35</sup> 588°48'W 4.2 Random course

0 to 0 = SW cor sec 4 T136 R29

Time sheet for work on Sec. 4 T136 R29

Time sheet for work on Sec. 4 T136 R29

July 1916

27 300 hrs

15 16 17 18

J Penascl 1 1 1 1

H Swaberg 1 1 1 1

MH Cochran 3/4

\$3.00

July 15 Fare from Walker to

Inkum for Penascl and

Swaberg

July 18 Fare from Walker to Walker

July 17 Photos from Grant to Walker

" " Dinner at Request

" 17 Box of 79 C.A.S.

" Total cash expense

41.57

15.8

3.6

3.5

10.5

\$89.2

(5)

July 16.

starting at sec cor of SW cor sec  
 5 T136 R29 and Running West on  
 $8^{\circ}20'$  variation to SW cor sec 6  
 26+44<sup>1</sup> Found  $\frac{1}{4}$  cor 2 FT. South of  
 Random Line Course of Random N  $89^{\circ}44'$  W  
 W Tree Dry Tam stump marked  $\frac{1}{4}$   
 S  $10^{\circ}22'E$  6 ft variation used  $8^{\circ}17'$   
 set stakes to south. 000766 PER FT or 0.756  
 Start at  $\frac{1}{4}$  cor and Running W <sup>X Per 100</sup>  
 to SW cor sec 6 T136 R29  
 continuation of chaining  
 on  $8^{\circ}20'$  variation course N  $88^{\circ}44'$  W  
 51+54<sup>2</sup> SW cor sec 6  
 set up at  $\frac{1}{4}$  cor and sighted  
 on SW cor sec 6 T136 R29. No off  
 sets to be made.

51+54<sup>2</sup> = SW cor sec 6 T136 R2939865 = N  $\frac{1}{4}$  cor sec 626+44<sup>1</sup> = S  $\frac{1}{4}$  cor sec 6  $\frac{1}{4}$  cor Found13+22<sup>2</sup> = E  $\frac{1}{4}$  cor sec 6 on S Line set to S. 1 ft

0+00 = SW cor sec 5 T136 R29

July 16.<sup>th</sup> 1916 Sunday

J. Pomasel and H. Swanberg

Leave at 7 a.m. to run sec line  
from SW cor sec 4 T136 R29 to  
SW cor sec 6 " " " "

Finished the line and arrived  
home at 7 P.M.  $\frac{1}{16}$  and  $\frac{1}{4}$  corners to  
be set

July 17. Walk to Peguot to telephone

J.W. Curo Phone call 36 cts

Dinner at Peguot 35 cts  
and set  $\frac{1}{16}$  and  $\frac{1}{4}$  corners on  
true line

July 18<sup>th</sup> Pomasel<sup>x</sup> Swanberg<sup>x</sup> " "

and Mr Cochran take team  
to haul sand and cement to set  
corners. Mr Cochran as driver  
and owner of team.

Corners set

SW cor sec 5  $2\frac{1}{4}$  in Gal. pipe  
E  $\frac{1}{16}$  cor south line sec 5. 9 in cement Mon  
S  $\frac{1}{4}$  " " " " 5-2  $\frac{1}{4}$  in Gal pipe  
W  $\frac{1}{16}$  " " " " 5-9 in cement Mon  
SW cor sec 5  $2\frac{1}{4}$  in Galvanized pipe  
E  $\frac{1}{16}$  cor south line sec 6. 9 in cement Mon  
S  $\frac{1}{4}$  " " " " sec 6 9 in " "  
W  $\frac{1}{16}$  " " " " " 6 9 in " "  
SW cor sec 6  $2\frac{1}{4}$  in Gal. pipe

July 18<sup>th</sup> 1916

①

J Pomasel and Howard Swanberg  
leave Jenkins at 3:30 PM. for  
walker. Work completed on  
south line of sec 5 and 6  
T 136 R 29. M. H. Cochran  
takes us to Jenkins

---

Expense on Survey of the South  
Line of SEC 5<sup>and 6</sup> T 136 R 29 <sup>90</sup> Road

|  |              |              |
|--|--------------|--------------|
| Fare from Walker to Jenkins  | July 15 1916 |              |
| For J Pomasel Transitman   |              | 79           |
| For H Swanberg Chairman  |              | 79           |
| Auto livery from Jenkins to<br>SEC 4 T 136 R 29. From W. M. Hardy  | July 15 1916 | 2.00         |
| Board for Pomasel and Swanberg<br>at Mrs M. H. Cochran. July 15 <sup>th</sup> dinner<br>to July 18 <sup>th</sup> dinner excepting<br>one meal for Pomasel = 19 meals<br>and 6 lodgings @ 25 <sup>cts</sup> per meal and<br>25 <sup>cts</sup> per lodge |              | 6.25<br>0.50 |
| July 17 <sup>th</sup> 1916 Phone from Pequot to Walker   |              | .36          |
| " " " Dinner at Pequot for Pomasel   |              | .35          |
| July 18 1916 One sack of cement from M. H.<br>Cochran for movements.   |              | 4.50         |
| July 18 1916 Team to Haul cement   |              | \$ 11.24     |

(8)

43  
Brtfd 11.19

tools and sand to set monuments

on S line sec 5-8-6 T136R29 and to

haul Pomasel and Swanberg to

Jenkins. Rate. \$4.00 per day

worked 3 1/4 day

\$3.00

July 18th 1916<sup>RR</sup> Fare from Jenkins

to Walker for Pomasel

.79

For Swanberg

.79

Time Worked By Pomasel.

July 15th

@ \$5.00 per day 5.00

16

5.00

17

5.00

18

5.00

Time Worked By Swanberg

July 15th

@ \$2.00 per day 2.00

16

2.00

17

2.00

18

2.00

Total \$32.63

T-136-R 29-30.

45

Monday, Mar. 26-1917.

E.B. Horst with survey outfit  
and necessary field notes  
leaves Walker for Peguot. 9-28-  
R.R. fare = 80 cts.

Met at Peguot, (as per agreement)  
by Fred Hansen with team.  
Dinner at Fred Hansen's.

P.M. E.B. Horst. Transit + Chain  
using Gurley transit + 100 ft  
Chicago steel tape assisted  
by Fred Hansen, flag + axe  
Theodore Olson, Chain + axe

To subdivide sec 12, T136, R30.  
We begin at corner to sections  
7-12-13-18 T136, R29, + 30.,  
(marked by an I.M. (2 1/2 x 48 in) x 100 ft)  
and sets S.W. of intersection of  
N + S and E + W. graded + traveled  
roads, and used by me in former  
surveys) and run N at 9°25' Var.  
at 38.6 ft N center of E + W road  
continue N on graded road  
at 1089.1 ft N set 3 in spike.

Record No. 337

E.B. Horst.

44

T136, Rges 29+30.

Mar. 26. continued.

at 2305.2 ft N set spike

at 2670.6 " " " " near pt.

for 1/4 sec cor between sees

7+12 T136, Rges 29+30 which was  
obliterated, and reestablished.

by County surveyor J. W. Euro.

and washed out in a 1916

freshet. a fence runs E and

one runs W from this point

Continue N (begin at each side of road)

at 4214.0 ft N set spike on hill

at 5340.4 ft N set spike and

uncover ~~the~~ at corner to see

tions 1, 6, 7, 12, T136, Rges 29

+ 30, marked by a 2 1/2 x 48 in.

I.M. with following bearing &amp;

a 4 x 4 x 48 in wood post SE. 86.5 ft

a 3 in x 40 in round post N.E. in sec

6, - 61.6 ft. all O.K.

I set transit over corner and

sight. W. to E 1/4 corner between

sees 1+12, T136, R 30, and set a

5 in. spike on random Range line

just run intersecting same at

sta 5338.6 ft N. and 8.7 ft W of

Mar. 26 - continued.

sec. corner. (1-6-7-12)

S.W. angle of true N boundary of sec  
12 to random E Boundary =  $89^{\circ}26'$ 

Returning S to S.E. cor of sec 12  
(pt of beginning) I set transit over  
sec corner right N on random  
line and turn N.W. angle of  $90^{\circ}15'$   
and (run random line N. between  
secs 12+13 T 136, Rge 30,) ←  
quit for night.

E.B. Horst.

this random discontinued.

136-30.

Tuesday March 27-1917.

Forest transitman.

Theo. Olson and Math

Anderson Chaimmen.

Fred Hansen flag & ark.

O.T. Olson, Chas. Steffen,

and Albert Shultz Ark.

We begin at cor to sec 11-12-

13-14. 136-30, marked by a

$2\frac{1}{2} \times 48$  in I.M. which sets in  
center of E+W graded road

I check this I.M. with stump of

U.S. B.T. Jack Pine  $8N70^{\circ}E95=62.70$  ft  
and find it O.K.

Jack Pine  $7N66^{\circ}W200$  is gone.

I set transit over this corner

sight E over graded road to

S.E. corner of sec 12-136-30 and

turn NE angle  $88^{\circ}40'$  and run

random line N between sec's

11-12-136-30

Olson and Anderson Chaimmen

begin at S.E. cor of sec 12-136-30

and chain W as follows

Next page

# Time Sheet for survey of sec 12, Twp. 136, Rge 30, W.

March, 1917.

26 27 28 29 30 31

E.B. Horst.

1 1 1 1 1

Fred Hansen.

1 1 1 1/2 1

Theodore Olson.

1/2 1 1 1/2 1

O.T. Olson.

1 1 1/2 1

Math Anderson.

1 1 1/2 1

Carl Steffen.

1 1 1 1

Albert Shultz.

1 1 0

Mar - 27 - 1917 - continued

- at 270.0 ft W center of N+S creek  
 " 273.0 " " 32 ft N to center  
 of road bridge.  
 at 320.0 ft W center of creek  
 " 428.0 " " " of creek  
 " 600.0 " " on center of E+W  
 graded road <sup>Sta 600 W</sup>  
 " 1320.0 ft. W. stake temp  $\frac{1}{16}$  cor  
 " 2640.0 " " " "  $\frac{1}{4}$  cor  
 " 3960.0 " " " "  $\frac{1}{16}$  cor  
 " 5346.0 " " intersect I.M. at cor  
 to secs 11-12-13-14 T136, R30.

with New Bearings as follows  
 Jack Pine 10 N  $30^{\circ}36'W$  49.3 ft. sec 11.  
 Telephone Post 7 S  $57^{\circ}25'W$  46.2 ft. sec 14.  
 Jack Pine 12 S  $23^{\circ}45'E$  70.1 ft sec 13.  
 No objects N.E.

Chaining from cor to 11-12-13-14  
 N between secs 11-12-13-14

- at 22.0 leave road cross fence  
 " 729.6 ft N spike  
 " 1320.0 " " stake temp  $\frac{1}{16}$  cor  
 " 1449.0 " " Cent of E+W log road  
 " 2139.6 " " spike

E.B. Horst

March 27-1917-Continued.

at 2636.7 ft N intersect old post  
set for  $\frac{1}{4}$  cor between secs 11 + 12  
T136 R30 from which Old U.S.  
B.T. Jack Pine 8 sets S  $25^{\circ}$  W 9 lks  
(= 5.94 ft) plainly marked being a  
snag 5 ft high.

Jack Pine 7 N  $39^{\circ}$  E 18 lks = (11.88 ft)  
is gone.

Continue transit line N bet 11 + 12  
at 3050.0 ft N set spike

" 3200.0 " " enter creek bottoms

" 3840.0 " " cross creek, flow S.E.

" 3960.0 " " temp  $\frac{1}{16}$  cor

" 4480.0 " " leave creek bottoms

" 4548.0 " " set spike.

" 4625.0 " " cross log road

" 5291.6 " " intersect I.M. (2x48 in)

at corner to sec 1-2-11-12 T136 R30,  
set by Horst in previous survey  
from U.S. B.T. stumps.

at a Hub 656.6 ft E of this cor on  
a random line previously run by  
me, I set a Hub 3.57 ft N, on true  
sec line between sec 1 + 12,

E.R. Horst. <sup>over.</sup>

136-30

Mar - 27 - 1917. continued.

Return and set transit over  
 cor to 1-2-11-12 and read S.E.  
 angle of true section lines  
 $= 92^{\circ} 10'$ .

We walk E to I.M. at  $\frac{1}{4}$  cor.  
 between sees 1, + 12, T 136, R 30,  
 over which I set transit and  
 back sight W to W  $\frac{1}{4}$  cor (I.M.)  
 between sees 1, + 12, reverse  
 telescope and sight E to true  
 sec line E of  $\frac{1}{4}$  Cor. Line deflects  
 $S 0^{\circ} 37'$ . Quit for night,  
 E.B. Horst.

Dinner at O.T. Olson's.  
 overnight with Hansen. E.B.H.

Wednesday Mar 28-1917.

Horst, transit, with same crew.

Beginning at corner to sees  
1-6-7-12 TWP 136 N Rge 29 & 30 W  
I correct back over random line  
previously run.

correction = .00163 of a foot E for  
each foot N.

Hut 4214.0 ft N goes E 6.87 ft

I set transit over this corrected  
Hut, backsight N on sec cor, and  
set a 2x2x12 in wood stake for  
N  $\frac{1}{16}$  cor between sees 12 and 7.

T. 136, R 29, 30. at sta 4003.93 ft N.

at sta 2669.3 ft N I set a 5 in  
spike on true line in center of  
road for true  $\frac{1}{4}$  cor bet sees

7+12-T 136 N. Rge 29 & 30. W. with  
fence post W 24.5 ft and fence  
post E 22 ft to blazes on posts.

Hut 1089.1 ft N goes E 1.87 ft to  
true line, I set transit over  
this corrected Hut and backsight  
S on I.M. at cor to sees 7-12-13-18

T 136, N. Rge. 29, 30. W, foresight N and  
E. B. Horst.

Mar - 28 - 1917.

set a  $3 \times 24$  in stake for  $S\frac{1}{2}$  cor between secs 7 + 12.

I set transit over I.M. to secs 7-12-13-18, sight N on true line and read N.W. angle  $90^{\circ}30'$  to true south line of sec 12-136-30.

Sighting W on sec line between secs 12-13-136-30 I set 5 in.

spikes at pts for  $\frac{1}{4}$  +  $\frac{1}{16}$  cor at sta 1336.5 W spike for  $E\frac{1}{16}$

" " 2673.0 W " for  $\frac{1}{4}$  cor

" " 4009.5 W spike for  $W\frac{1}{16}$  cor

From spike at  $\frac{1}{4}$  cor between secs 12-13 I sight E to sec cor and turn N.E. angle of

" ' and run random  $\frac{1}{4}$  line N thru sec. 12.

at 300.0 ft N enter meadow

" 1109.0 " " Center of creek.

" 1400.0 " " Leave meadow

" 1417.9 " " set spike

" 2013.4 " " " " on hill

" 2689.6 " " " "

" 3137.3 " " " "

E. B. Horst.

at 3200. ft N enter swamp.  
 " 3640. " " Center of creek (4 ft wide)  
 " 3997.0 " " set spike  
 " 4373.0 " " leave swamp  
 " 4526.1 " " set spike  
 " 5327.0 " " set spike  $\frac{1}{4}$  cor  
 between sec 1 and 12 sets E  
 28.4 ft.

We walk to  $\frac{1}{4}$  cor between sec.  
 7 & 12 on Range line T. 136, R. 29-30,  
 set transit over  $\frac{1}{4}$  cor and sight  
 Non true Rye line turn N.W. angle  
 $90^{\circ} 50'$  and run random  $\frac{1}{4}$  line  
 W thru sec 12.

at 33 ft W enter meadow  
 " 400 " " leave same  
 " 590.0 ft W set spike  
 " 1184.4 " " " "  
 " 1310.0 " " Center of creek.  
 " 2699.0 " " intersect N + S  $\frac{1}{4}$   
 line at sta 2654.7 ft N  
 " 3021.9 ft W set spike  
 " 3520.0 " " " "  
 " 3879.4 " " " "  
 E.B. Horst.

Mar - 28 - 1917.

at 4400.0 ft W enter meadow  
 " 4583.0 " " set spike  
 " 4700.0 " " Center fork (12 ft)  
 " 4730.0 " " leave swamp.  
 " 5308.0 " "  $\frac{1}{4}$  cor. between  
 secs 11 + 12 sets S, 3.8 ft.

We walk N  $\frac{1}{4}$  mile and set  
 a 3x3x30 in post for N  $\frac{1}{4}$  cor  
 at sta 3964.15 ft N on true line  
 We walk S  $\frac{1}{2}$  mile and set  
 a 3x3x30 post for S  $\frac{1}{4}$  cor  
 at sta 1318.35 Ft. N. on true line

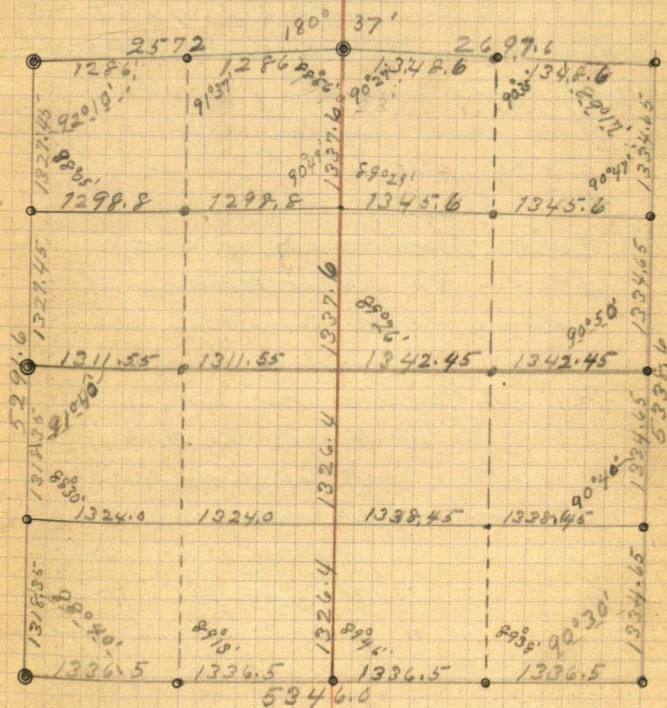
Quit for night  
 E. B. Holst.

Dinner at, Math Anderson's.  
 supper and overnight with  
 Fred Hansen.

136 - 30.

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Diagram of Sec 12 T136, R. 30,



Thursday Mar. 29-1917.

E.B. Horst, transit with Theodore Olson and Carl Steffen assisting walk to the intersection of N+S and E+W random  $\frac{1}{4}$  lines of Sec 12 T136 R30, where I set true center of sec from P.I. of randomness by setting hubs on both true lines and intersecting same P.I. of true lines at sta 2652.8 ft N and 2684.9 W we then set 3X30 in posts at center of E half

" " " N "

" " " W "

" " " S " of sec 12

until we can obtain iron monuments.

P.M. Horst, transit.

Hansen + Anderson chain, Steffen, flag.

O.T. Olson, tape.

I set transit over N  $\frac{1}{16}$  cor

Mar. 29-1917 continued

on Range line between sees

7+12 T/36 Rgs 29+30

sight Non true line and turn  
N.W. angle  $90^{\circ}47'$  and run W on  
N  $\frac{1}{16}$  line

at 1413 W cross old log road

" 1920 W enter meadow

" 2691.2 ft W intersect post set  
for center of N  $\frac{1}{2}$ .

I turn  $S 8^{\circ}26'$  and continue N  $\frac{1}{16}$   
line W, at 600 cross creek

at 1170 leave meadow

" 2240 enter meadow

" 2597.6 ft W N  $\frac{1}{16}$  cor sets N 6.8 ft

We return and set the center of  
the N.W.  $\frac{1}{4}$  of sec 12 at sta 1298.8  
ft W of  $\frac{1}{16}$  cor on  $\frac{1}{4}$  line, and 3.4 ft  
N of random line

We set the center of the N.E.  $\frac{1}{4}$   
of sec 12 at sta 1345.6 ft W of  
 $\frac{1}{16}$  on Range line

Quit for night

E.B. Horst.

Dinner at Carl Stephens

Supper + overnight with Hamer.

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136-30.

Friday March 30-1917.

Forst, Hansit,

Theodore Olson and Math  
Anderson chain.

Hansen flag.

Steffen &amp; Olson, age,

I set transit over S  $\frac{1}{4}$  cor  
on Range line between sec's.7 + 12 T 136 R 29 + 30, sight N  
on true line and turnN.W. angle  $90^{\circ}41'$  and runW on S  $\frac{1}{4}$  line of sec 12.

at 280.0 enter meadow.

" 548.0 ft W center of creek

" 553.0 " " leave meadow + creek

" 1830 " " enter swamp

" 1990 " " leave "

" 2530 " " enter creek bottom

" 2676.9 " " center of S  $\frac{1}{2}$  sec

N 0.9 ft

Continue same line W

" 3056.1 ft W leave bottoms

" 3264. " " enter bottoms

" 3380. " " cross creek

" 3644 " " leave bottoms

" 5324.9 " " S  $\frac{1}{4}$  cor between

136-30

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Mar-30-1917 - Continued.  
secs 11 & 12 T136 R30 sets N  
1.6 ft

Correcting back  
at sta. 4000.9 ft W we set  
center of S.W.  $\frac{1}{4}$  of sec 12 - 1.2 ft  
N of random line

at sta 1338.45 ft W I set center  
of S.E.  $\frac{1}{4}$  sec 12 - 0.4 ft N of  
random line.

to complete the survey of this  
sec the E  $\frac{1}{16}$  and W  $\frac{1}{16}$  lines  
should be run but as the  
land owners of sec 12 do not  
care to stand the expense of  
more work, we discontinue  
the survey for the present.

I spend the afternoon in  
checking calculations

E.B. Horst.

Dinner at Carl Steffens  
Supper and overnight with  
Fred Hansens E.B.H.

Saturday, March, 31st-1917.

To subdivide sec -7- Twp 136  
Rge 29 into  $\frac{1}{4}$ ths or 40's

Horst, Transit.

Math Anderson and Tobias  
Bye Chaimmen.

Fred Hansen, flagman.

Mads Anderson and  
Thor Oesper and Nels  
Sveng apmin.

We begin at cor to secs 7-12-13-18  
T 136, R Rge 29 & 30. W. with transit  
setting over I.M. & sight N on  
true Rge line and turn  $90^{\circ}30'$   
N.E. angle to hub on true sec  
line (on top of hill) bet secs  
7 & 18, T 136, R 29.

We walk N one mile to I.M.  
at N.W. cor of sec 7

S.E. angle from Rge line to  $\frac{1}{4}$   
Cor between secs 6 & 7 =  $87^{\circ}52'$   
setting transit over  $\frac{1}{4}$  cor  
between secs 6 & 7 (Cement Mon.)  
Backsight W on sec cor reverse  
telescope and sight E to corner  
E.B. Horst.

# Time Sheet for Subdivision of Sec. 7, T136N Rge 29W.

Mar and April 1917.

E. B. Horst. 1

Fred Hansen. 1

Tobias Bye. 1

Math Anderson. 1

Thos. Dexon. 1

Mads Anderson. 1

Nels Levang. 1

April Fool - Sunday.

March, 1917.

April,

1917.

136-29-7

March 31st 1917

of sees 5-6-7-8 line deflects  
 $N 10^{\circ} 10'$ .

I set transit over see cor 5, 6, 7, 8  
 backsight W on  $\frac{1}{4}$  cor and  
 turn S.W. angle to  $\frac{1}{4}$  cor (I.M.)  
 between sees 7 and 8 =  $91^{\circ} 07'$

I set transit over  $\frac{1}{4}$  cor between  
 sees 7-8 and backsight N on  
 true sec line and continue  
 this line S intersecting center  
 of I.M. at cor to sees 7-8-17-18  
 set transit over this corner  
 backsight N on true line and  
 turn N.W. angle  $88^{\circ} 13'$  to  
 $\frac{1}{4}$  Cor I.M. between sees 7+18  
 set transit over  $\frac{1}{4}$  cor back  
 sight E on sec cor reverse  
 telescope and turn  $1^{\circ} 07'$   
 deflection angle S to Hub  
 on true sec line between  
 sees 7+18 about 1500 ft W  
 of  $\frac{1}{4}$  cor.

Graded road on West. North  
 and South sides of sec. 7.  
 and partly graded on E side.  
 E.B. Horst.

## Anderson &amp; Beye chaining

West side of Sec 7 previously chained  
Chain E from N.W. cor of sec 7. T136-R29.  
at 300 ft E swamp S of road

" 1168.4 ft E N  $\frac{1}{4}$  cor. Cement monument

" 2150.0 " " Andersons drive.

" 2510.5 " "  $\frac{1}{4}$  cor bet sees 6 & 7.

$\frac{1}{4}$  cor = sta 0.00 Chain E

at 520 E leave swamp

" 1322.2 E  $\frac{1}{4}$  cor

" 2644.4 Cor to sees 5, 6, 7, 8 with  
following bearings:

3x30 Popplestake N.E. 46.7 ft

" " " N.W. 46.7 "

Fence post S  $44^{\circ}15'$  W 33.5 ft.

Old B.T. stump. sets S. E.

From N.E. cor of Sec 7 chain S bet  
sees 7 & 8

at 1630 S meadow

" 2648.8 I.M. at  $\frac{1}{4}$  cor leave  
meadow continue S.

at 4089.8 S spike on road grade

" 5297.6 S I.M. at cor to sees

7-8-17-18. From this cor we

66

7-136-29

Mar 31st continued

Chain W between sees 7-18  
 at 1322.85 set post in road  
 on true sec line for E  $\frac{1}{4}$  cor  
 at 2645.7  $\frac{1}{4}$  cor let sees 7-18  
 Chain W  $\frac{1}{4}$  cor = 0.00 W

at 1349.30 set wood post on  
 true line for W  $\frac{1}{4}$  cor

at 2524.5 W = 1 M. at S.W. cor  
 of sec 7-136-29.

Quit for night

C.B. Horst.



# True Courses, Latitudes and Departures of Sec. 7.

| Station | distance | Course      | Cosine | Sine   | North   | South   | East    | West    |
|---------|----------|-------------|--------|--------|---------|---------|---------|---------|
| a-b     | 5338.6   | North       | —      | —      | 5338.60 | —       | —       | —       |
| b-c     | 2570.5   | S 87° 52' E | .03723 | .99931 | —       | 93.45   | 2508.77 | —       |
| c-d     | 2644.4   | S 89° 03' E | .01658 | .99986 | —       | 43.84   | 2644.03 | —       |
| d-e     | 5297.60  | S 0° 10' E  | .0172  | .00291 | —       | 5297.60 | 15.42   | —       |
| e-f     | 2645.70  | N 88° 23' W | .02821 | .99960 | 746.4   | —       | —       | 2644.64 |
| f-a     | 2524.60  | N 89° 30' W | .02873 | .99996 | 22.04   | —       | —       | 2524.40 |
|         |          | Totals      |        |        | 5435.28 | 5408.89 | 5168.22 | 5769.04 |
|         |          | Error       |        |        | + 0.39  |         |         | + 0.82  |

April 1st 1917 - Sunday  
No work.

Monday April 2nd 1917.

Forest and same crew,  
begin at  $\frac{1}{4}$  cor on Range line  
between secs 7 & 12 T136 R29+30  
sight N to N  $\frac{1}{4}$  cor and turn  
N.E. angle  $91^{\circ}18'$  run E thru  
center of sec 7  
at 5162.2 ft E  $\frac{1}{4}$  cor <sup>I.M.</sup> between  
secs 7 & 8 sets N 1.8 ft.

Begin at  $\frac{1}{4}$  cor between  
secs 7 & 18 (marked by an I.M.)  
sight W to Hub on true sec  
line and turn N.W. angle  
 $89^{\circ}20'$  and run N thru  
sec 7.  
at 2633.7 ft N intersect random  
E + W  $\frac{1}{4}$  line  
at 3300.0 enter swamp  
" 3580.0 leave "  
" 4915.0 ft N enter town swp  
" 5257.0 " " edge of road bed.  
" 5267.6 " "  $\frac{1}{4}$  cor between  
E & B Horst.

7-136-29

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April 2nd, 1917. Continued.

secs 6+7-T/36, R 29, (marked by  
a cement monument) sets  
E 1.4 ft. .... in center of graded road.

Beginning at W  $\frac{1}{4}$  cor between  
secs 7+18-136-29. sight E  
to  $\frac{1}{4}$  Cor and turn N.E. angle  
 $90^{\circ}40'$  and run W  $\frac{1}{4}$  line N  
thru sec 7. without chaining.  
at about 4300 ft N enter swamp  
in center of graded road W  $\frac{1}{4}$  cor  
corner between secs 6+7. sets  
E 11.9 ft. Marked by Cement Monument.  
Quit for night.  
E.B. Horst.

Tuesday, April 3-1917.

Horst and same crew,  
begin at point for E  $\frac{1}{16}$   
Corner between secs 7-18.  
T 136 Rge 29.

Sight  $\frac{1}{4}$  mile W to  $\frac{1}{4}$  cor  
and turn N.W. angle  $88^{\circ}47'$   
and run E  $\frac{1}{16}$  line N thru  
sec 7,

set out on E + W  $\frac{1}{4}$  line  
Continue N.

at sec line between secs 6-7  
E  $\frac{1}{16}$  cor sets W 50.0 ft  
E  $\frac{1}{16}$  marked by a cement  
monument

~~I have evidently made  
a mistake in reading  
the vernier as  $88^{\circ}47'$   
should intersect the true  
corner.~~

Upon investigation I find  
I have made a 3 foot mis-  
take by backsighting on the  
wrong backsight from E + W  
 $\frac{1}{4}$  line E.B. Horst.

7-136-29.

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April 3-1917 Contd.

The N.W. angle at E  $\frac{1}{16}$  cor should have been  $88^{\circ}13'$  instead of  $88^{\circ}47'$  as turned.

We go to the center of N  $\frac{1}{2}$  of sec 7 equidistant from  $\frac{1}{4}$  between secs 6+7 and center of 7 and set post and erect a 30 foot flag.

I set transit near intersection of N and W -  $\frac{1}{16}$  lines and intersect true lines where we set wood post for center of N.W.  $\frac{1}{4}$  of sec 7.

I set transit over S  $\frac{1}{16}$  corner between secs 7-12 on Rge line sight N to N  $\frac{1}{16}$  cor and turn N.E. angle  $90^{\circ}54'$  and run S  $\frac{1}{16}$  line E to  $\frac{1}{4}$  line where we set center of S  $\frac{1}{2}$  sec. 7. cor sets S 1.8 ft & backsight W on true S  $\frac{1}{16}$  line foresight E and turn S  $0^{\circ}31'$  and run E on S  $\frac{1}{16}$  line. Intersect E line of sec 7 at true S  $\frac{1}{16}$  cor where we set post on true sec line 1324.4 ft N of sec. corner  
C.B. Horst.

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7-136-29

April 3, 1917. cont'd

at P.I. of E + W  $\frac{1}{4}$  line and E  $\frac{1}{16}$  line I set Hub. on true  $\frac{1}{16}$  line and sight S to E  $\frac{1}{16}$  cor between Secs 7-18.

Having set Hubs on S  $\frac{1}{16}$  line I now intersect same with E  $\frac{1}{16}$  line and set post for center of S.E.  $\frac{1}{4}$  Sec. 7.

at P.I. of  $\frac{1}{4}$  line and true E  $\frac{1}{16}$  line I set post for center of E  $\frac{1}{2}$  Sec. 7.

We walk to sec line between Secs 7-8 and set N  $\frac{1}{16}$  cor. I set transit over this cor and sight to flag at center of N  $\frac{1}{2}$  sec 7 and run W on N  $\frac{1}{16}$  line at random E  $\frac{1}{16}$  line I intersect true N  $\frac{1}{16}$  and true E  $\frac{1}{16}$  lines and set post for center of N.E.  $\frac{1}{4}$  sec 7.

At P.I. of  $\frac{1}{4}$  lines make intersection and set center of sec 7.

April 3-1917-Contd.

~~72~~  
73

at P.I. of E + W  $\frac{1}{4}$  line and  
W  $\frac{1}{16}$  line I make an inter-  
section of true lines and set  
center of W  $\frac{1}{2}$  of sec 7.

at random W  $\frac{1}{16}$  and random  
S  $\frac{1}{16}$  lines I make an inter-  
section of true lines and set  
center of S.W.  $\frac{1}{4}$  of sec 7.

Quit for night.  
E.B. Horst.

14

7-136.29

April 4-1917. Wednesday

Forest. transit.

Johnas. Byr, and Fred Hansen  
Chairmen.

Thos. Dixon and Nels  
Serving. opener.

By agreement. before me,  
of all parties concerned  
I am instructed to survey  
one acre from the SW  $\frac{1}{4}$  of  
the SW  $\frac{1}{4}$  of sec 7 T136 R 29.  
and one acre from the SE  $\frac{1}{4}$   
of the S.W.  $\frac{1}{4}$  of sec 7, T136, R29,  
for church purposes

Commencing at W  $\frac{1}{4}$  cor. between  
secs 7 and 18 Twp 136 Rge 29

Thence N along W  $\frac{1}{4}$  line 33 ft to  
place of beginning

thence W 220 ft parallel to sec  
line thence N parallel to W  $\frac{1}{4}$   
line 198 ft, thence E parallel  
to sec line 220. ft to W  $\frac{1}{4}$  line

thence S on W  $\frac{1}{4}$  line 198 ft  
to place of beginning, containing  
one (1) acre.

7-136-29.

April - 4<sup>th</sup> - 1917 - cont'd. 75

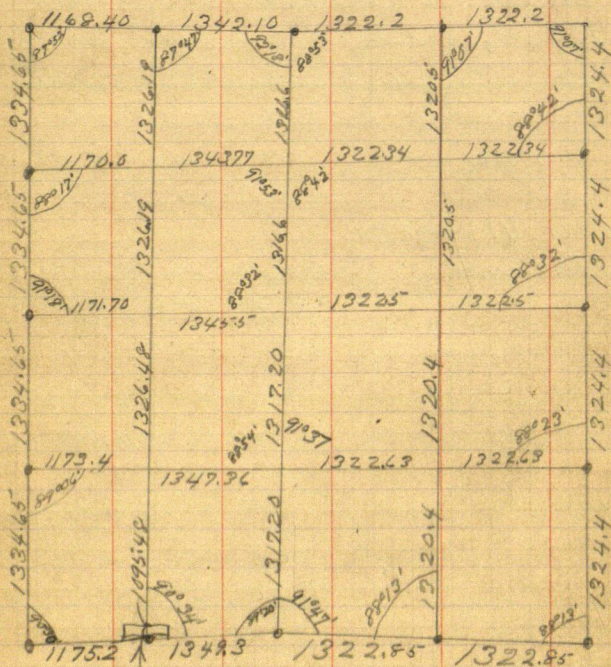
Commencing at N  $\frac{1}{4}$  cor between  
secs 9-18 T136 R29, thence N  
along N  $\frac{1}{4}$  line 33 ft to place of  
beginning

Thence E parallel to sec line  
220 ft, thence N parallel to W  $\frac{1}{4}$   
line 198 ft, thence N parallel  
to sec line 220 ft, to W  $\frac{1}{4}$  line  
thence S on W  $\frac{1}{4}$  line 198 ft  
to place of beginning, containing  
one (1) acre.

Balance of the day on calculations  
E. B. Horst.

7-136-29  
16 April - 5 - 1917 Thursday

Diagram of Sec 7 T136 Rge 29.



→ 231 Ft from W & cor N to N side of Lots.

7-136-29.

Friday April 6-1917. 77

Forst, Math, and Mads.

Anderson, Fred Hansen, Thos  
Dickson and Vels Sevang, (all  
Residents and tax payers of  
Cass County) begin setting I.M.s  
in sec 7, T 136, R 29. and set a  
2 X 48 inch I.M. (Boiler five) at  
each of the following corners  
W  $\frac{1}{4}$  between secs 7-18,

E  $\frac{1}{4}$  " " 7-18,

S  $\frac{1}{4}$  " " 7-8,

N  $\frac{1}{4}$  " " 7-8,

Center of N.E.  $\frac{1}{4}$  sec 7.

" " E  $\frac{1}{2}$  ---- " 7.

" " S.E.  $\frac{1}{4}$  " 7.

" " S  $\frac{1}{2}$  ---- " 7.

" " ---- " 7.

" " N  $\frac{1}{2}$  ---- " 7.

" " N.W.  $\frac{1}{4}$  " 7.

" " W  $\frac{1}{2}$  ---- " 7.

" " S.W.  $\frac{1}{4}$  " 7.

N  $\frac{1}{4}$  on Rge line bet secs 7+12

$\frac{1}{4}$  " " " " 7+12

S  $\frac{1}{4}$  " " " " 7+12.

E/B Forst.

7-136-29.

74

April 6-1917. continued.  
all other corners were previously  
established and marked by  
permanent monuments.

P.M. setting I.M.s in sec 12  
Twp 136 Rge 30.

E.B. Horst. Fred Hansen,  
Math Anderson, O.T. Olson,  
and Theodore Olson  
all residents and taxpayers  
of Cass County, begin at  
E  $\frac{1}{4}$  cor between sees 12 + 13  
and set 2X4 8 inch I.M. at follow-  
ing corners

E  $\frac{1}{4}$  bet sees 12 + 13

$\frac{1}{4}$  " " 12 + 13

W  $\frac{1}{4}$  " " 12 + 13

S  $\frac{1}{4}$  " " 11 + 12

$\frac{1}{4}$  " " 11 + 12

N  $\frac{1}{4}$  " " 11 + 12

Center of N.W.  $\frac{1}{4}$  sec 12

" " W  $\frac{1}{2}$  " " 12

" " S W  $\frac{1}{4}$  " " 12

" " S  $\frac{1}{2}$  " " 12

E.B. Horst.

Secs 7+12-136-29+30

April - 6 - 1917 - continued.

79

Center of see 12

" " N  $\frac{1}{2}$  " 12

" " NE  $\frac{1}{4}$  " 12

" " E  $\frac{1}{2}$  " 12

" " SE  $\frac{1}{4}$  " 12

All other corners in this section marked by I.M.S. previously set.

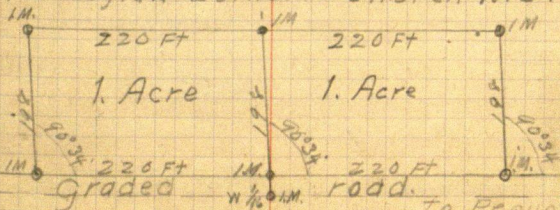
We drive 2 x 4 & inch I.M.s at all the corners of the Norwegian Church Lots as shown by the accompanying sketch.

This concludes survey of secs 7 & 12 136 Rge 29 and 12 T 136 Rge 30.

Thos. Olson drives me and outfit to Pequot. Stake 129 A.M. train to Walker. Fare 80 cts.

E.B. Horst.

Norwegian Lutheran Church lots.



E.B. Horst.

JULY 10 1918

| Station | B.S. | H.I.                 | Rod  | F.S.  | Elev   |
|---------|------|----------------------|------|-------|--------|
| BM.     | 530  | 105.30               |      |       | 100.00 |
| 00      |      |                      | 9.7  |       | 95.6   |
| 1       |      |                      | 9.7  |       | 95.9   |
| 2       |      |                      | 9.8  |       | 96.0   |
| 3       |      |                      | 9.8  |       | 95.6   |
| 4       |      |                      | 10.1 |       | 95.2   |
| 5       |      |                      | 10.6 |       | 94.7   |
| 6       |      |                      | 11.1 |       | 94.2   |
| 7       |      |                      | 11.6 |       | 93.7   |
| 8       |      |                      | 11.9 |       | 93.4   |
| 9       |      |                      | 12.4 |       | 92.9   |
| TP.     | 557  | <sup>608</sup> 99.22 |      | 11.63 | 93.65  |
| #60     |      |                      | 6.7  |       | 92.5   |
| 10      |      |                      | 6.4  |       | 92.8   |
| 11      |      |                      | 4.0  |       | 95.2   |
| +30     |      |                      | 3.7  |       | 94.8   |
| 12      |      |                      | 3.6  |       | 95.6   |
| +50     |      |                      |      |       | 96.5   |
| 13      |      |                      | 5.2  |       | 94.0   |
| 14      |      |                      | 6.7  |       | 92.5   |
| 15      |      |                      | 7.5  |       | 91.7   |
| 16      |      |                      | 7.3  |       | 91.9   |
| 17      |      |                      | 8.6  |       | 90.6   |
| +95     |      |                      | 10.1 |       | 88.8   |
| 18      |      |                      | 10.2 |       | 89.0   |
| TP      | 6.43 | <sup>294</sup> 96.28 |      | 9.37  | 89.85  |
| 19      |      |                      | 6.4  |       | 89.9   |
| 20      |      |                      | 6.5  |       | 89.8   |

side ditch N side Road 81

00 Being about 300' W of S 1/4 Sec 29

BM. Nail in Telephone pole 45' R Sta 2+00

Begin ditch at sta 9+60

Notes are copied in Book

Marked (Cass Lake Bridge

Book No 7. Book is

in file in A.W. Moulster's

Office. By J.T. Pomasek  
Asst Engr.

Beginning of ditch = sta 9+60

| Ground Elev | Grade Elev | cut. |
|-------------|------------|------|
| 92.5        | 92.50      | 0.0  |
| 92.8        | 92.1       | +0.7 |
| 95.2        | 91.7       | +3.5 |
| 96.5        | 91.5       | +5.0 |
| 95.6        | 91.3       | +4.3 |
| 94.0        | 90.9       | +3.1 |
| 92.5        | 90.5       | +2.0 |
| 91.7        | 90.1       | +1.6 |
| 91.9        | 89.7       | +2.2 |
| 90.6        | 89.3       | +1.3 |
| 88.8        | 88.9       | 0.0  |
| 89.0        | 88.9       | +0.1 |
| 89.4        | 88.5       | +0.9 |
| 89.8        | 88.1       | +1.7 |

88

Sta

B.S.

171.

Rod

F.S.

Elev

9628

21

6.1

90.2

22

6.5

89.8

BM

3.99

92.29

23

7.1

88.9

24

10.1

88.2

Elev

Bottom

Area

cu yds.

9+60

92.50

00

00

10

92.10

2.15

1.6

11

91.7

26.00

52.1

+50

91.5

36.10

57.5

12

91.3

34.87

65.7

13

90.9

21.67

104.7

14

90.5

12.28

62.8

15

90.1

9.84

41.0

16

89.7

13.66

43.5

continued on next page

F.W. Moulster.

83

July 10 1918 J.F. Puntasec

Ground Elev. Grade. Cut

90.2 87.7 +2.5

89.8 87.3 +2.5

B.M. spike in tele pole 30' R 21 + 75

88.9 86.9 +2.0

86.2 00 00

Cross section of side Ditch

L. 2 R

00

+0.7 +0.7 103  
22 18+1.5 +1.5 +3.4  
4.0 4.9+1.7 +5.0 +1.1  
6.2 5.6+1.9 +1.3 +1.9  
4.1 4.4+3.8 +3.1 +3.6  
5.3 5.1+2.8 +2.0 +2.5  
7.3 7.0+2.7 +1.6 +2.1  
7.2 3.6+2.9 +2.2 +2.7  
7.1 4.23' Bottom  
1:1 SlopeNote: Sta 946.0 Being  
Beginning of ditch.

87

17

89.3

Area  
acres

6.15

13.4

18

88.9

1.16

14.7

19

88.5

7.90

33.6

20

88.1

10.23

51.5

21

87.7

17.55

65.7

22

87.3

17.95

59.1

23

86.9

11.40

21.1

24

86.5

00

Total

722.2 acres

July 10/1915

FS-

L Q R

$$\begin{array}{r} +18 \\ 33 \end{array} \quad +13 \quad \begin{array}{r} +1.2 \\ 27 \end{array}$$

$$\begin{array}{r} +0.8 \\ 2.3 \end{array} \quad +0.1 \quad \begin{array}{r} +0.1 \\ 1.9 \end{array}$$

$$\begin{array}{r} +21 \\ 3.6 \end{array} \quad +1.1 \quad \begin{array}{r} +1.9 \\ 3.4 \end{array}$$

$$\begin{array}{r} +26 \\ 7.1 \end{array} \quad +1.7 \quad \begin{array}{r} +2.2 \\ 3.7 \end{array}$$

$$\begin{array}{r} +35 \\ 50 \end{array} \quad +2.5 \quad \begin{array}{r} +3.1 \\ 7.9 \end{array}$$

$$\begin{array}{r} +38 \\ 5.3 \end{array} \quad +2.5 \quad \begin{array}{r} +3.2 \\ 7.8 \end{array}$$

$$\begin{array}{r} +29 \\ 7.4 \end{array} \quad 2.0 \quad \begin{array}{r} +1.9 \\ 3.4 \end{array}$$

$$\begin{array}{r} 00 \\ 15 \end{array} \quad 00 \quad \begin{array}{r} 00 \\ 15 \end{array}$$

86

Sub-division  
Sec. 1-136-30  
 John M. Greene - Surveyor

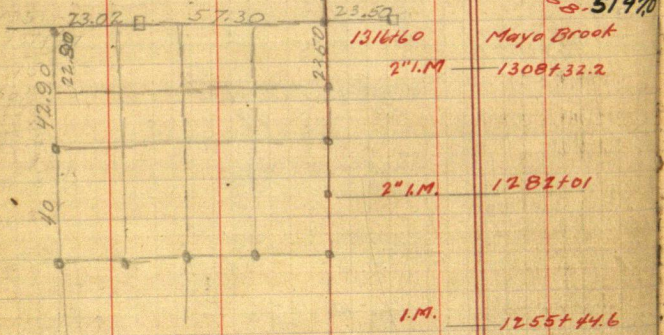
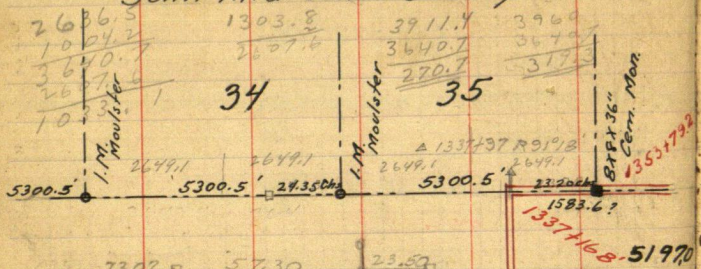
2686.5  
 1004.2  
 3640.7  
 2687.6  
 1003.3

1303.8  
 2607.6

3911.4 3960  
 3640.7 3670  
 270.7 317.3

34

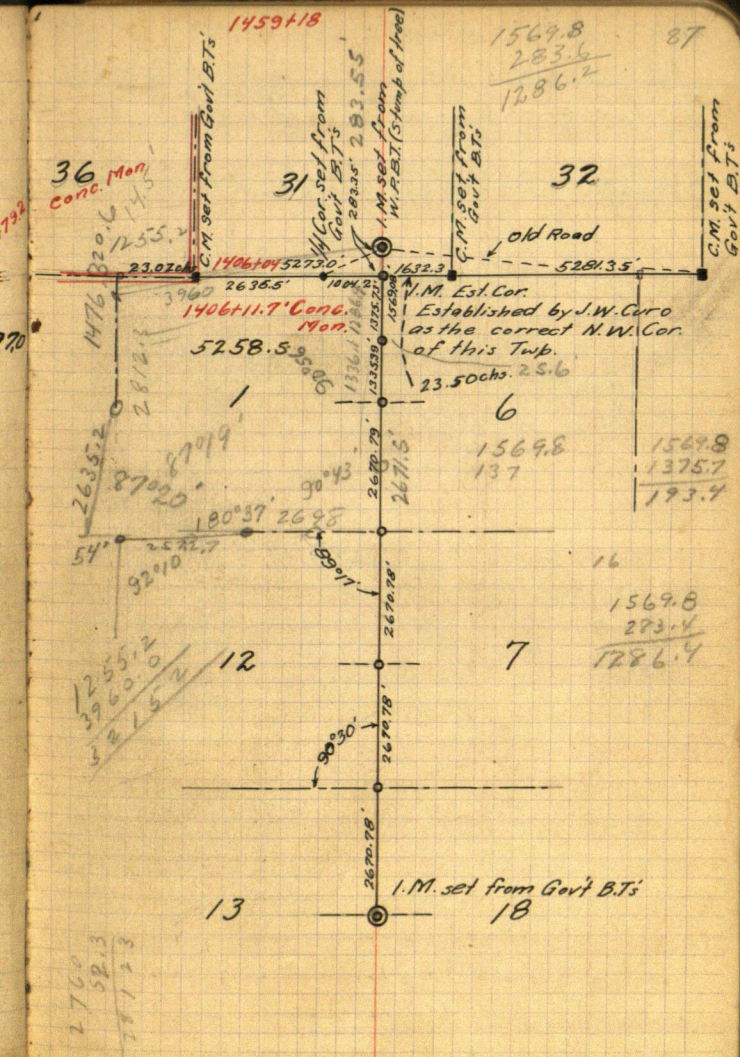
35



8032  
 2302  
 5730

65,555  
 42.9 2812.3 20  
 2674 1311.00  
 2383 2812.8  
 2145 65556  
 2380 229  
 2145 590004  
 2350 231112  
 2145 231112  
 205 231124  
 150123  
 131153  
 29123

spike  
 1228+86.7  
 1202+70



88

Notes - Extract F.B. #73

Wed. Sept. 28-1910

At S.E. Cor. 31-137-30

136-137-29 p. 3-9

137-136-29 Berg trial 59-67

Survey Record 358

Friday, May 18th 1917 E.B. Hunt, Walker  
to Jenkins.

Begin at Cor. to Sec. 35-36 on  
9th Standard Parallel between Twp.  
136-137, Range 30, being an 8x8 cement  
monument previously established  
by J.W. Carr. From this corner  
sight East of S.R.H. reverse telescope  
turn N. 1°50' and run west

136-30

F W. Pine 10 S. 41 W. 27  
 J. " 11 S. 86 E 238

f

6  
 1428  
 1428  
 157.08

O-F @ 6 Tamc 11 N. 52 E 13  
 " 12 S. 16 1/2 W 23  
 1 M. set from S. W. stp.  
 Tree down with marks  
 still plain

2-3-10-11 Pine 10 N. 27 E 196  
 " 5 S. 67 E 103

137-30

N Aspen 13 N. 45 E 53  
 " 9 N. 25 1/2 W 33

M Tamc 11 N. 35 E 10  
 Pine 5 N. 52 W 16

O Pine 16 N. 85 1/2 E 19  
 W. Birch 7 N. 12 3/4 W 51

90

88°40'

$$\begin{array}{r}
 2627.9 \\
 02327 \\
 \hline
 183953 \\
 52558 \\
 78837 \\
 \hline
 52558 \\
 61.151233
 \end{array}$$

99973

$$\begin{array}{r}
 02327 \\
 54 \\
 \hline
 9308 \\
 11635 \\
 \hline
 125659
 \end{array}$$

89°17'

$$\begin{array}{r}
 2698.0 \\
 01251 \\
 \hline
 2698 \\
 13490 \\
 5396 \\
 \hline
 2698 \\
 33.75198
 \end{array}$$

99992

89°04'

$$\begin{array}{r}
 5215.2 \\
 01629 \\
 \hline
 469368 \\
 104304 \\
 312912 \\
 52152 \\
 \hline
 84.955608
 \end{array}$$

99987

0°56'

99987

$$\begin{array}{r}
 2832.9 \\
 01629 \\
 \hline
 254961 \\
 56658 \\
 169974 \\
 28329 \\
 \hline
 46.147941
 \end{array}$$

$1^{\circ}20'$  2635.2  
 02327-5 99973  
 184464  
 52704  
 79056  
 52704  
 61321104

207.08

66.178

20

270.7 7.7  
 270.7 7.7

9028 33  
 9028 33

1001

|                      | North  | South  | East   | West   |
|----------------------|--------|--------|--------|--------|
| N. 88° 40' E. 2626.7 | 61.1   |        | 2626.0 |        |
| N. 89° 17' E. 2698.0 | 33.7   |        | 2697.8 |        |
| North 5294.0         | 5294.0 |        |        |        |
| N. 89° 08' W         | 78.9   |        |        |        |
| N. 89° 04' W. 5215.2 | 84.9   |        |        | 5214.5 |
| 0° 52' W             |        |        |        |        |
| S. 0° 56' W. 2832.9  |        | 2832.5 |        | 46.1   |
| S. 1° 20' W. 2635.2  |        | 2634.5 |        | 61.2   |
|                      | 5473.7 | 5467.0 | 5323.8 | 5321.8 |
|                      | 5467.7 |        |        |        |

20

N. 89° 04' W

21

X D° 15'

N. 89° 19' W

North

|            |              |               |
|------------|--------------|---------------|
| N. 2671.6  | W. 0:0       | E 1/4 Cor     |
| 0 2        | 0            | S. E. Cor.    |
| S. 33.7    | W. 2697.8    | S. 1/4 Cor.   |
| S. 94.8    | W. 5323.8    | S.W. 1/4 Cor. |
| N. 2539.7  | W. 5261.6    | W. 1/4 Cor.   |
| Diff 131.9 | 5261.6       |               |
| 0          | N. 88° 34' E | 0 E. 1/4 Cor  |
| N. 2622.5  | 0            | N.E. Cor.     |
| N. 2707.4  | 5215.2       | N.W. R. Cor   |
| S. 125.1   | 5261.3       |               |
|            | N. 88° 38' E |               |
|            | 88° 34'      |               |

Mean N. 88° 36' E E & W. 1/4 Line

|               |              |
|---------------|--------------|
| S. 94.8       | W 5323.8     |
| <u>1.3</u>    | <u>54.0</u>  |
| S. 93.5       | 5269.8       |
| 2539.7        | 5261.6       |
| <u>2633.2</u> | <u>8.2</u>   |
|               | 1020.1       |
| S. 0° 10' W.  | <u>1010</u>  |
|               | S. 0° 10' W. |

Center line S.R.H. E + W

Sta. 0 = Cor. 35-36 cem. mon 8"X8"

N. 88°10' W. along S.R.H. 996.0'

N. 89°31' W 587.6 <sup>to line up with old road.</sup> S.R.H. runs South

at 1621.0 hub in road

at 4276.6 " " "

\* S. 28°19' W 55.5' 2 1/2" X 4' I.M. <sup>Sec. 35</sup> S.W. Cor.

New B.Ts J. Pine stp. 12" N. 44° W. 39.9'

N. " stp. 20" N. 58°55'E 65"

at Sta. 4302.5 - 49.1' N of Cor.

N. 89°59' W. @ 50' cross road running north

@ 15' South road running west 350.5'

@ 725 intersect center of

road running west

@ 1694.9' hub

CC. sets south 3.9' from R. Line

@ 2188.5 hub

@ 2640 stake

@ 4152 hub

@ 5298.3 "

Cor. 33-34 sets South 32.1'

@ 6948.5 to E end of graded road,

@ 6918.5 S. 26.8' stake

2649.1 S. 40.6' 3" X 30" stake <sup>Sec. 34</sup> S. 14

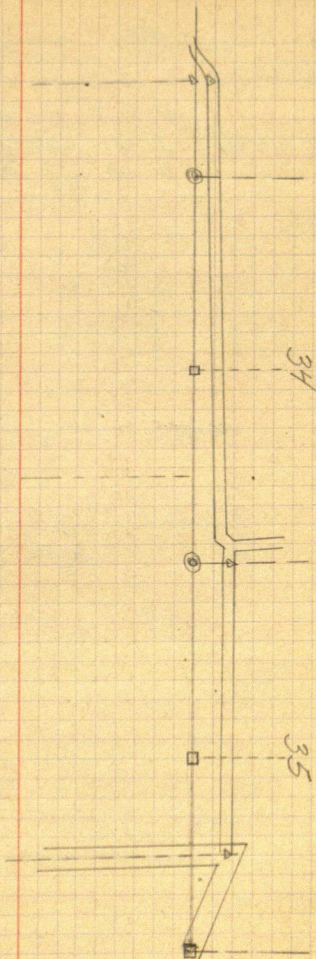
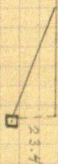
W. 09K 10" N. 36°30' W 123

New B.Ts to 33-34 W. 09K 8" S. 64°30' W 77

" " " 1/4 on S. side 35

2649.1 S. 36.25' stake in pasture

89821  
26  
9







Time sheet Sec. 1-136-30

98

112

2930 1 2 3 4 Walker 8 9 13 14 15 16 17 18 19 20

Libo M. Greene

Wm Jude

Henry Anderson

Charley Brandt

Olio F. Boats

Olaf Olson

Adolph Tepfer

Henry Anderson

212223

110

24

Jan. 3.

—

Walter  
to Walter  
2/1  
Walter

|       |               |               |      |       |
|-------|---------------|---------------|------|-------|
| leave | $\frac{1}{2}$ | $\frac{1}{2}$ | Back | leave |
|-------|---------------|---------------|------|-------|

(12)

1/22

|               |               |               |   |
|---------------|---------------|---------------|---|
| Boots         | 4 1/2 @ 3.00  | 13.50         | ✓ |
| Brandt-Oleson | 6 @ 3.00      | 18.00         | ✓ |
| Jude          | 5 @ 3.00      | 15.00         | ✓ |
| Greene        | 1 1/2 @ 7.50  | 86.25         | ✓ |
| Tepfer        | 1 1/2 @ 3.00  | 4.50          | ✓ |
| Abderson      | 1/2 @ 3.00    | 1.50          | ✓ |
| Board         | 17 1/3 @ 1.50 | 26.00         | ✓ |
|               |               | <u>163.25</u> |   |
|               |               | 30.00         |   |

14.50  
 17.00  
 98.50  
 105.00





|       |      |      |          |
|-------|------|------|----------|
| Lot 1 | N.E. | N.E. | Ole Berg |
| Lot 2 | N.W. | " "  | " "      |
|       | S.W. | " "  | Henry "  |
|       | S.E. | " "  | Ole "    |

|       |      |      |         |
|-------|------|------|---------|
| Lot 3 | N.E. | N.W. | " "     |
| Lot 4 | N.W. | " "  | " "     |
| Lot 5 | S.W. | " "  | Henry " |
|       | S.E. | " "  | " "     |

|       |      |      |                |
|-------|------|------|----------------|
|       | N.E. | S.W. | H.A. Berg      |
| Lot 6 | N.W. | " "  | H.J. Anderson  |
| Lot 7 | S.W. | " "  | Emil Gravidahl |
|       | S.E. | " "  | A.O. Gravidahl |

|  |      |      |                |
|--|------|------|----------------|
|  | N.E. | S.E. | H. Berg        |
|  | N.W. | " "  | " "            |
|  | S.W. | " "  | A.O. Gravidahl |
|  | S.E. | " "  | Jonas Melin    |

3.20  
 600  
 1920  
 75  
 16 8420  
 80  
 3200

C.C.

Sec. 32

|          |        |             |           |       |
|----------|--------|-------------|-----------|-------|
| V.M. 1/3 | 23.50  | S. Cor.     |           | 16.10 |
| 16.50    | 19.60  | 20.00       | 20.00     | 20.00 |
| 23.50    | O.B.   | O.B.        | O.B.      | O.B.  |
| 10.50    | 43.92  | 44.75       | 43.25     | 41.75 |
|          | Lot 4  | Lot 3       | Lot 2     | Lot 1 |
|          |        | 22.01       |           | 20.50 |
|          |        |             |           |       |
|          |        |             |           |       |
|          | H.B.   | H.B.        | H.B.      | O.B.  |
| 20.00    | 37.55  |             |           |       |
|          | Lot 5  |             |           |       |
|          | 18.45  |             |           |       |
|          |        |             |           |       |
|          | H.J.A. | H.B. 643.02 | H.B. Berg | H.B.  |
| 20.00    | 36.45  | Sec.        | 136 - 29  |       |
|          | Lot 6  |             |           |       |
|          |        |             |           |       |
|          | F.G.   | Swb.        | A.O.G.    | Swb.  |
| 20.00    | 35.35  | A.O.G.      | 20.00     | 20.00 |
|          | Lot 7  |             |           |       |
|          | 17.40  |             |           |       |
|          |        |             |           |       |

104

Running west from N.E. Cor. Sec. 5-136-29

|            |                                    |               |
|------------|------------------------------------|---------------|
| 0.0        | Cor 4 + 5                          |               |
| 140.7      | Hub                                |               |
| 300        | Stake                              |               |
| 600        | "                                  |               |
| 679        | Enter swp.                         |               |
| 709        | Culvert                            |               |
| 900        | Stake                              |               |
| 1127       | Culvert                            |               |
| 1167       | lv. Swp.                           |               |
| 1200       | Stake                              |               |
| 1295.5     | Hub.                               | 1342.4        |
| 1500.0     | "                                  |               |
| 1800.0     | Stake                              |               |
| 2100.0     | "                                  |               |
| 2269.55    | Hub                                |               |
| 2400       | Stake                              |               |
| 2640       | Hub Temp 1/4 Cor (Nothing here)    |               |
| 2700       | Stake                              | 2684.8        |
| 2847.9     | Hub                                |               |
| 3000       | Stake                              |               |
| 3300       | "                                  |               |
| 3600       | "                                  |               |
| 3721.45    | Hub                                |               |
| check over | 7' North                           |               |
| 3900       | Stake                              |               |
| 3960       | Temp 1/2                           | 4027.2        |
| 4200       |                                    |               |
| 4500       |                                    |               |
| 4800       |                                    |               |
| 4811       | Hub                                |               |
| 5100       | Stake                              |               |
| 5356.56    | Temp. Cor 586                      | Nothing here. |
| 6361       | Hub                                | 5369.6        |
| 7034.8     | "                                  |               |
| 7996.56    | " Temp 1/4 Cor.                    |               |
| 8568.85    | "                                  |               |
| 9000.3     | True Cor 31 + 32 - 137-29          |               |
|            | South 2 ft                         |               |
| 9316.56    | 1/16 Cor.                          |               |
| 102856     | Hub                                |               |
| 10636.20   | True Cor. sets North 4.1 ft + 7 ft |               |
|            | = 11.1 ft.                         |               |

## Cor 5-6-7-8 run North

300 enter swp.  
 1320 Temp  $\frac{1}{16}$  Cor.  
 1475 Hub in road  
 2005 Lv. swp.  
 2361.9 Hub  
 2640 Temp.  $\frac{1}{4}$  Cor.  
 2853.3 Hub  
 3495 cross road E+W.  
 3960 Temp  $\frac{1}{16}$  Cor.  
 4036 Hub  
 4048.7 cross wire fence  
 4480.55 Hub  
 5367.20 True Cor. stands E. 84.1 ft

N.  $\frac{1}{16}$  post E. side Sec. 6 running west

1320 Temp  $\frac{1}{16}$   
 2640 Temp  $\frac{1}{4}$  post in North half<sup>o</sup> of Sec.

1660.1' to S. Cor.

2454 fence N.

5345.8 Stone Mon. Cor. 4+5

1330.0

6675.8

1330.0

5345

5383.4 check dis

8005.8

9005.8 pin

1330.0

9335.8

1265.0

10600.8 ft - total dis.

1032.2

8968.5

9005.8

37.3 East to dig.

5351.8

5345.8

6.0 W 6 ft

1330

1324

1318.8

5.2

E 15.2'

1330.0

1335.2

1318.8

16.4

E. 16.4

1330.0

1346.4

1318.9

27.5

E 27.5

1265.01292.5

$$\begin{array}{r} 81.16 \\ 79.60 \\ \hline 160.76 \end{array} \quad \begin{array}{r} 659417 \\ 10600.8 \\ \hline 96456 \end{array}$$

$$\begin{array}{r} 16076 \\ 6 \\ \hline 96456 \\ 96456 \\ \hline 1061016 \\ 659417 \\ 8116 \\ \hline 3956502 \\ 659417 \\ 659417 \\ \hline 5275336 \\ 5351.828372 \\ 1332 \end{array}$$

$$\begin{array}{r} 95520 \\ 80380 \\ \hline 151400 \\ 144684 \\ \hline 67160 \\ 64304 \\ \hline 28560 \\ 16076 \\ \hline 124840 \\ 112532 \\ \hline \end{array}$$

$$\begin{array}{r} 659417 \\ 79.6 \\ \hline 3956502 \\ 5934753 \\ \hline 4615919 \\ 524895932 \\ 5351.82 \\ \hline 10600.79 \text{ check} \end{array}$$

N.W. Cor goes E = 6'

$$\begin{array}{r} 6594170 \\ 13188340 \end{array} \quad \begin{array}{r} 659417 \\ 4 \\ \hline 2637668 \\ 13188 \\ \hline 12924 \text{ check} \end{array}$$

$$\begin{array}{r} 10600.8 \\ 5345.8 \\ \hline 5255.0 \\ 5383.4 \\ \hline 10638.4 \end{array}$$

5383.4  
5370.8  
12.6 E 9t Sec. Cor  
1330.0  
1342.6  
1323.6  
19.0 E 9t 1/16  
1330.0  
1349.0  
1323.6  
25.4 E 9t 1/4  
1330.0  
1355.4  
1323.6  
31.8 E 9t 1/16  
1265.0  
1296.8 check.

8.3' South of + Stan.

1.6, at  $\frac{1}{16}$  Cor.

$$\begin{array}{r} 83 \overline{) 1632.3} \\ \underline{83} \phantom{00} \\ 802 \phantom{00} \\ \underline{747} \phantom{00} \\ 553 \phantom{00} \\ \underline{498} \phantom{00} \\ 550 \end{array}$$

66.1755

160.76 ] 10638.4

96456

99280

96458

28220

16076

121440

116532

89080

80380

870000

5267.8

12.6

5255.2

1632.3

3622.9

1660.1

5283.0

1660.1

1330.0

2990.1

19

2971.1

2641.5

829.6

661755

8116

3970530

661755

661755

5294040

5370803580

1342.7

661755

196

3970530

5955795

661755

129703980

1323.6

1323.6

1323.6

5267.8

5370.8

10638.6

110

$$\begin{array}{r} 3.20 \\ 75.00 \\ 6.00 \\ \hline 84.20 \end{array}$$

$$\begin{array}{r} 5383.4 \\ 12.6 \\ \hline \end{array}$$

$$\begin{array}{r} 16542.0 \\ 80 \\ 40 \\ 20 \\ \hline 16601 \end{array}$$

$$\begin{array}{r} 1660.1 \\ 12.6 \\ \hline 1647.5 \end{array}$$

$$\begin{array}{r} 1323.6 \\ 229.6 \\ \hline 1094.0 \\ 1647.5 \\ \hline 2741.5 \\ 100 \\ \hline \end{array}$$

$$\begin{array}{r} 275 \\ 3 \\ \hline 1373 \\ 1391.2 \\ \hline 16.2 \end{array}$$

$$\begin{array}{r} 88^{\circ}26\frac{1}{2} \\ 89^{\circ}39 \\ \hline 1^{\circ}12\frac{1}{2} \end{array}$$

1391.2 I.M. Temp  
129.4

$$\begin{array}{r} 1391.2 \\ 1263.2 \\ \hline 2654.4 \\ 1700 \\ \hline 163.2 \end{array}$$

$$\begin{array}{r} 200 \\ 825 \\ 265 \\ 31 \\ \hline 1321 \\ 27.7 \\ \hline \end{array}$$

$$\begin{array}{r} 1375 \\ 1347.3 \\ \hline 277 \\ 1100 \\ 231 \\ \hline 1331 \end{array}$$

$$\begin{array}{r} 1348.7 \\ 1347.2 \\ \hline 1.5 \end{array}$$

1.4 S.W. Cor. S.E.

$$\begin{array}{r} 1331 \\ 1230.6 \\ \hline 100.4 \end{array}$$

$$\begin{array}{r} 1375 \\ 1347.2 \\ \hline 33. \end{array}$$

$$\begin{array}{r} 1100 \\ 135.4 \\ \hline 1235.4 \\ 102.4 \\ \hline 1035.8 \end{array}$$

50

$$\begin{array}{r} 1391.2 \\ 1320 \\ \hline 71.2 \end{array}$$
$$\begin{array}{r} 1327.6 \\ 1263.2 \\ \hline 22.90.8 \end{array}$$

89039 1/2  
88026 1/2  
1012 1/2

|       |          |
|-------|----------|
| 88°27 | N 1°15'E |
| 89°03 | 141°13'E |
| 77 30 |          |
| 88 45 |          |

2.5

S. 89° 06' E S. Cor S. 89° 24' E

|        |        |        |        |        |
|--------|--------|--------|--------|--------|
| 1296.8 | 1323.6 | 1323.6 | 1323.6 | 1323.6 |
|--------|--------|--------|--------|--------|

Lot 4  $\frac{333}{25}$  Lot 3  $\frac{510}{20}$  Lot 2  $\frac{378}{13}$  Lot 1  $\frac{366}{13}$   
 25 93.1 1320.1 2468 9.89 54.5  
 12633 13276

|        |        |          |        |        |
|--------|--------|----------|--------|--------|
| 5869   | 53'E   | 1323.3   | 1323.3 |        |
| 12645  | 5.880  | 24 1/2'E |        | 1333.5 |
| 12645  | 1328.8 |          |        |        |
| Lot 5  | 89039  | 1335     |        |        |
| 010E1M | 126372 | 5.1010   | 1298.7 |        |

1230.6 1353.9 1322.6 1322.6  
 1231 1335.4 5.880 26 1/2 E.  
 Lot 6 30.3 Sec. 6  
 1.5 136 29  
 48.1 10.3 101.1 101.1

1199.1 1337.6 1322 1322.0  
S. 88° 09' E S. 88° 045' E.

|              |        |      |              |      |        |      |
|--------------|--------|------|--------------|------|--------|------|
| Lot 7        | 1330   | 47.3 | 1322.7       | 1340 | 1322.7 | 33.5 |
| 168.4        | 1342.1 |      | 1322.2       |      | 1322.2 |      |
| S. 87° 52' E |        |      | S. 89° 03' E |      |        |      |

$$\begin{array}{r} 1263.2 \\ 71.2 \\ \hline 13344 \end{array}$$

112

$$\begin{array}{r}
 1362.6 \\
 1336 \\
 \hline
 40.5 \overline{) 2698.6} \\
 \underline{2430} \\
 2686 \\
 \underline{2430} \\
 2560 \\
 \underline{2430} \\
 1300
 \end{array}$$

$$\begin{array}{r}
 66.63 \\
 20 \\
 \hline
 1332.60
 \end{array}$$

$$\begin{array}{r}
 66.63 \\
 205 \\
 \hline
 33315 \\
 \hline
 133260 \\
 \hline
 1365915 \\
 \hline
 1332.6 \\
 \hline
 2698.5
 \end{array}$$

$$\begin{array}{r} 1336 \checkmark \\ 1322.6 \checkmark \\ \hline 3.4 \checkmark \end{array}$$

$$\begin{array}{r} 1336 \\ 1334 \\ \hline 2670 \\ \hline 1336 \end{array}$$

3 4

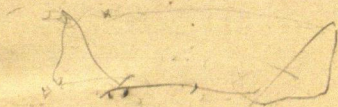
100  
1  
1048  
88  
96.0

1407  
70711 990000  
70711  
282890  
282844  
121460  
70711  
510790  
4669  
14006

70711 990000  
70711  
282890  
282844  
46000

$$\begin{array}{r}
 1362.5 \\
 1336.0 \\
 \hline
 405 \overline{) 2698.5} \\
 \underline{2430} \\
 2685 \\
 \underline{2430} \\
 2550 \\
 \underline{2430} \\
 1200
 \end{array}$$

$$\begin{array}{r}
 66.63 \\
 .20 \\
 \hline
 1332.60 \\
 1336 \\
 \hline
 3.4 - 1.8'
 \end{array}$$



58 84  
29

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 6  | 5  | 4  | 3  | 2  | 1  |
| 7  | 8  | 9  | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

43  
29  
73

5154.9  
3986.5  
1168.4

2324.5  
1349.36  
1175.2

5154.9  
2694.4  
2510.5

26.359  
8425  
58  
86.7

14.4

3.76

24+60  
9+60  
14.40

14.4  
937  
1008  
432  
576  
6.2928

925  
862  
63.00  
576  
576  
732  
1080  
1008

144  
44  
576  
576  
6324

# DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES  $1\frac{1}{2}$  TO 1.

FOR SINGLE TRACK EMBANKMENT.

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

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

MADE IN GERMANY.