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Index  
Kamberling Survey  
State Fish Hatchery

Rangeline 12-13-16-17

Maps 2-16-17-18-19-22-23-25-36-37-39-42-44-  
46-48-53-54-55-56

US Notes 3-7-6-8-18-19-21

New BTS: 13-16-20-30-32-33-44-52-62-64  
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Deeds: 7-36-38-53-54-55-56-57

Jenkins Village: 3-7-9-11?

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Time Sheet 14

Board Sheet 15

Triangulation: 16-17-18-22-23-24-25-26-27

See Part 26 - New Wilcox 40-50

Corrections 29-30-47-51-52-53-54-55-56

McCor: 30-48-52-53-54-55

POT. 32-52

44-32-39-40-42-44-45-51-52

Fish Hatchery: 33-38

Silver Sands Pg 58.

N. 148



2

Kamberling Survey  
Fish Hatchery

7-12-13-18- 137-28.29

Aspen 9 N 85° E 30

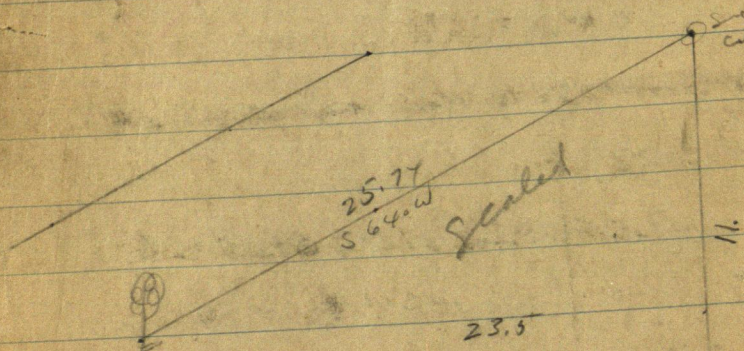
14 S 48° E 33

Aspen 12 S 64° W 39 = 25.74 //

Aspen 6 N 28° W 6

39  
23 4  
23 4  
23.7 4

10





Jenkins Village

3

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U.S. Notes.

This Book  
No 148

137-29

Cor to Sec 26, 27, 34 & 35

Blk Pine 8N 74½ E 36

" " 8N 28½ W 17

" " 10S 65W 29

" " 12S 10 E 52.

N orth cut Sec 26 & 27.

Var 110 30'E

10.00 Brook 15 Lks wide Rapid runs E

40.00 Sulf Cor.

Blk Pine 11S 76½ E 126

" " 06N 85W 14

56.00 Indian trail 612 E & W.

80.00 Cor to sec 22, 23, 26 & 27

Yel Pine 15S 74 E 41

Nor Pine 20N 25 E 125 ✓

Blk Pine 12N 65½ W 110

Nor Pine 18S 62 W 33



4

Jenkins Village  
U.S. Notes .

North bet 27 & 28.

Var  $10^{\circ}30'E$

32.50 Enter brush marsh brs. E & W

35.00 same brs same

40.00  $\frac{1}{4}$  sec cor

B. P. 6 N 32 W 53

" " 12 N 72 E 131.

65.50 Brook 10 Lks wide sluggish current

80.00 Cor to Sec 21, 22, 27 & 28.

B. P. 6 S 61 E 36

" " 5 S 64 W 35

" " 12 N 51 W 115

P. Q. 5 N 75 E 41

5 P. Q. bet Sec 22 & 27

Var  $10^{\circ}30'E$

40.00 3rd temp  $\frac{1}{4}$  cor.



137-29 US Nolis  
Jenkins Village

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79.72 to a pt. 82 lts N q cor to sec

22, 23 26 & 27.

Run N  $89^{\circ} 25'$  W true line

var  $10^{\circ} 30' E$ .

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

Blk. Pine 11 N 15

" " 9 S 6 W 15

N at Sec 3 3 & 34

var  $10^{\circ} 30' E$

0.20 Leave marsh brs NW & SE

18.00 Enter marsh " NNW & E

40.00 Set  $\frac{1}{4}$  Sec cor.

Run 7 S 84 W 73

" 5 N 56 E 213

63.00 Leave marsh

80.00 Set cor to sec

Blk Pine 6 N 43 E 23



6

Jenkins Village

OS BLK Pine 6N 38W 37

N " 12S 31W 36

BLK Pine 6S 64E 50

Erandon bet Sec 27 + 31

Var 10° 40' E

40.00  $\frac{1}{4}$  temp cor.

80.20 to apt. 20 Lhs N of cor to sec

22, 23, 26 + 27

Iron N 89° 51' W true  
line

Var 10° 40' E

40.10  $\frac{1}{4}$  Sec cor.

Blk Pine 12N 65W 18

" " 12S 20E 10

80.20 cor to sec 27, 28, 33, 34

See page 8.



Jenkins Village

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137-29 148

copied from the  
records Sept 20-1920

Herbert L Bowen - Single  
To Village of Jenkins Aug 9-1907  
\$ 225.

That part of the NE  $\frac{1}{4}$  of NW  $\frac{1}{4}$   
Sec 34 T137N R 29W 5PM. Minn

com @ a pt on line bet the NW  $\frac{1}{4}$  of  
NW  $\frac{1}{4}$  and NE  $\frac{1}{4}$  of NW sec 34

760 ft South of Sec line bet 27 and  
34

Beginning @ West end of Pine Tree  
Ave - running East along South  
line 960 ft. thence South 280 ft  
thence West 960 ft thence North 280  
to starting point

Recorded on page 130 Book 33 Deeds

Filed Dec 31<sup>st</sup> (no year)

Instrument No 41899



8

USN Valis Jenkins Village Nole

Aspen 128 27 E 130

" 55 27 W 61

80. Crt to sec. 14, 15, 22, 23

B.P. 8N 61° E 45'

" 8N 37 W 50 = 33

" 128 42 W 61

" 88 37 E 20 = 13, 20



137-29

9

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Jenkins Village-Roads

Oct 14, 1920

Chaining North set on 25823

@ vari. at 300, 600 stake

855 Litch runs East + West

900, 1200, 1500 stake 1654.5 old road

NW + SE. 1800, 2100, 2400 stake 2640

stake and Has. on line. 2700,

3000, 3300, 3600 stake.



10

D Kamberling  
Survey Sec 18-19  
137-28Garrison's note  
SE corner 137-29

Part

New 135

9P9N 12 1/2 W 153 2m off ? 100.98 Ft

7P6S 54 1/2 W 69 " 45.54

$$\begin{array}{r}
 10013 \\
 5234 \overline{) 61800} \\
 \underline{5234} \phantom{0} \\
 15660 \\
 \underline{15622}
 \end{array}$$

$$\begin{array}{r}
 5234 \\
 5234 \\
 \underline{5234} \\
 580974
 \end{array}$$

$$\begin{array}{r}
 5234 \\
 5234 \\
 \underline{5234} \\
 5757
 \end{array}
 \quad
 \begin{array}{r}
 5234 \\
 13 \\
 \underline{15702} \\
 5234 \\
 \underline{5234} \\
 68042
 \end{array}
 \quad
 \begin{array}{r}
 1807 \\
 1807 \\
 \underline{1807} \\
 20057
 \end{array}$$

$$\begin{array}{r}
 1807 \\
 13 \\
 \underline{5421} \\
 1807 \\
 \underline{23491}
 \end{array}$$

$$\begin{array}{r}
 2706 \\
 2706 \\
 \underline{2706} \\
 3003
 \end{array}$$

$$\begin{array}{r}
 2706 \\
 2706 \\
 \underline{2706} \\
 2706 \\
 13 \\
 \underline{8118} \\
 2706 \\
 \underline{35178}
 \end{array}$$

$$\begin{array}{r}
 69 \\
 66 \\
 \underline{414} \\
 414 \\
 \underline{4554}
 \end{array}$$

$$\begin{array}{r}
 1807 \\
 13 \\
 \underline{5421} \\
 1807 \\
 \underline{2349}
 \end{array}$$

$$\begin{array}{r}
 153 \\
 66 \\
 \underline{918} \\
 918 \\
 \underline{10098}
 \end{array}$$



② Kamberling  
18-137-28

11

137-28

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18  
108  
108

SW Co 18-137-28

marked 8" aspen for corner 18-1913-28

aspen 6 N 64 E 24

Butterick 53 57 E 25

aspen 7 S 30 W 12

Pine 10 N 40 W 18 = 11.88

39  
234  
234  
25.78

1/4 West side 18

JP 10 N 86 E 36

10 S 82 W 7. gone

~~JP 10 N 36 30 W 13.3~~

~~JP 15 N 53 30 W 28.82~~

~~JP 4 S 56 20 45 W 11.44~~

(15" aspen 15 N 40 W 26.58)

1 S 94 10 E 26.58 marked by corner

5' 4" PN 42 45 E 23.44

1 7 40'

1200 + 112.60 N 11. ft and 2 1/2 in. round  
1807 1100

1800 + 160 N 11. ft and 2 1/2 in. round

E 300 Th. S 26 1/2

20

3-1  
31/4



## Kamberling Survey

August 15-1921 Monday

John W. Cus - Baby Granite Cor  
J. B. Babcock and Gerald Cus L  
Brimm 6-40 a.m.

Stop at Jenkins

call up Geo Hardy via Pine River 150

Hardy will come at once to meet  
Babcock at Jenkins and take him to make  
a survey for Allen TrupGerald and I call up John and  
Frank Kamberling who say they  
have crew ready for survey of State

State Fish Hatchery

at Kamberlings about 9-9 AM

L to our car take Kamberling Cor

Gerald takes Harry Nickels - and Frank  
Kamberling cuts out Garrisons old survey line  
North from SW Cor Sec 18-137-28

John Kamberling and his car

takes Wilberg Carlson and I and drive north  
Pick up Chas Heath who helped Garrison  
survey this Range line 17 years agoat which time they found the SW Cor  
Sec 7-137-28 where

US notes are for via

7-12-13-18-137-28-29

Azim 9 N 85° E 30' LKs

" 145 48° E 33 "

" 6 N 28° W 6 "

Spur 12564 W 39" (- 25.74 ft)



Kamberling Survey

(4)

137-28

13

at that time when water was low they found the stump of the 12 inch spruce plainly marked from which they set the true corner and the corners previously established by them they changed to fit the true corner.

The Heath drove an iron pin in this stump leaving same about 18 inches above top of stump and as the water has raised since then Heath waded out located stump in 4 ft of water and we drove a tall 8 ft pole 4 inches NW of iron.

John Kamberling - Carlson and I then drove home to dinner where we find the rest of the crew eating.

P.M.

We all go to Co 137849-24 - T137  
R 28.29 where we find old 4x4x40  
inch oak stake set by Garrison  
in top or heart of old corner tree stump.  
This point

US notes call for:

8 inch Aspen for corner

Aspen 6N 64°E 24.2 Ks

Batterment 55 57°E 25

Aspen 7530°W 12.

Pine 10°N 40°W 18 = 11.88 Ft

We find the pine stump - doubly marked

Sitting transit over center  
of Co stump and @ 7°40' W

to the bearing of

JP 5N 42°45'E 23.44 Ft

(Old US-BT. 51/2 N 36°30'W 13.3)

JP 5N 53°30'W 28.82

over

John N. Carr



14

⑤

Time Sheet Working for Kamberling Bros  
137-28-29  
August 1921

|                  | 15  | 16       | 17        | 18 | 19 | 20 | 21 | 22 |
|------------------|-----|----------|-----------|----|----|----|----|----|
| Johns Cues       | 1   | 2H       | 1         | 1  | -  | -  | 0  |    |
| Car              | 31  | 2H<br>PM | -         | -  | -  | -  | 0  |    |
| Expense          | -   | -        | -         | -  | -  | -  | 0  |    |
| Gardel Cues      | 1   | 1/4      | 1         | 1  |    |    | 0  |    |
| John Kamberling  | 1   | 1/4      | 1         | 1  |    |    | 0  |    |
| Frank Kamberling | 1   | -        | -         |    |    |    | 0  |    |
| Harry Nickels    | 1   | -        | -         |    |    |    |    |    |
| Wilberg Carlson  | 1   | -        | -         |    |    |    |    |    |
| Chas Heath       | 1/4 | -        | -         |    |    |    |    |    |
| Donald Young     | -   | -        | 1/2<br>PM |    |    |    |    |    |
| Croot            |     |          |           |    |    |    |    |    |
| Lavere           |     |          |           |    |    |    |    |    |



(6)

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## Board Sheet 137-28-29

August 1921

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
|----|----|----|----|----|----|----|----|

With John and Frank Hambling

John W. Cunn

|    |    |    |    |   |   |   |  |
|----|----|----|----|---|---|---|--|
| DI | DB | DB | DB | - | - | 0 |  |
| SL | SL | SL | SL |   |   | 5 |  |

Gerald "

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| P  | DB | DB | DB | DB | DB | DB | DB |
| SL | SL | SL | SL | SL | SL | SL | SL |

0



16

# Range Line 137-28-29

JP 4562° 43' W 11.44  
 15 inch WP stump marked by Garrison bear.

S 84° 10' E 26.58 ft

V 7° 40' E

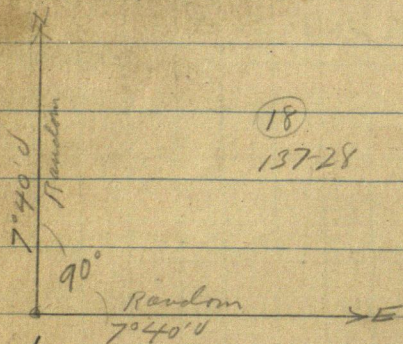
We drive a 1/2 inch steel pump rod

2 ft long in center of stump roots for  
 line corner exactly where Garrison set  
 his stake

From this corner we start two  
 lines or follow

North @ 7° 40' 90° angle

East @ 7° 40'



NORTH

300-600-900-1200 stakes on line  
 set with transit perfect P.B. chain  
 Horsted and J.

@ 1200 + 112.60 = 1312.60 set Hub 11. ft  
 N of main road NW and SE

1500-1800 stakes on line 180° Hub  
 1800 + 160 = 1960. Tall white stake on  
 line on So side bog & water

Stake 1960 = Pt. A'

Course hub 1 to be set on North side of bog  
 Pt B. where I take transit  
 sight South on Pt A' turn 90°  
 and run East 300. To "C."



⑧

set Transit over "C" focus on B.  
turn  $64^\circ$  Left to "A" From C. Hub A  
bear  $S26^\circ W$

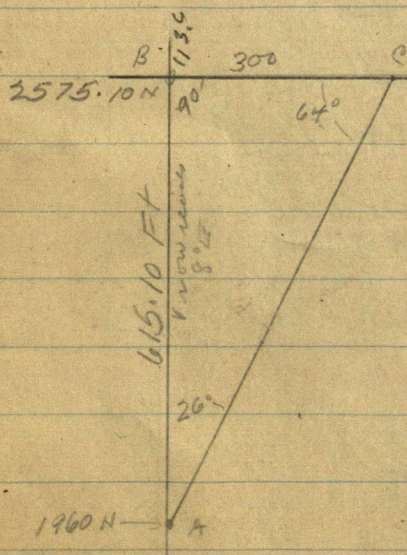
$\begin{array}{r} 2640.8 \\ 2175.1 \\ \hline 64.9 \end{array}$

$26^\circ$

Tang .48773  
Colangul 2.05030

$26^\circ$   
Sine 43837  
Cosine 89879

$\begin{array}{r} 4877 \\ 6151 \\ \hline 4877 \\ 24385 \\ 4877 \\ \hline 29262 \\ 2998427 \end{array}$



$\begin{array}{r} 2.05030 \\ 615.09 \end{array}$

$\begin{array}{r} 1960.00 \\ 615.10 \\ \hline 2575.10 \end{array}$

2575.10 Hub over boy  
Quilpon vils. stay with John K.

all done in to Jenkins. Band practice  
Home @ 10.30 - raining

John W. Cress



This Book is  
No 148

Aug 15-1921 Continued

Chan Heath was with us only to  
look up the river in old B.T. S. Lunt  
NW. at Cor. 7-12-13-18-137-28-29  
He died to his neck.  
John K. also went in

US Nalis say  $\text{Span } 12.564^\circ \text{W } 39 = (25.74 \text{ ft})$

64°

$$\text{Sine } 89879 \times 25.74 = 23.13 \text{ W}$$

$$\text{Cosine } 43837 \times 25.74 = 11.28 \text{ ft S}$$

$$\begin{array}{r} 36 \\ 462 \\ 36 \\ 216 \\ 216 \\ 2376 \end{array} \quad \begin{array}{r} 39441 \\ 66 \\ 2345 \\ 234 \\ 25.74 \end{array}$$

$$\begin{array}{r} 43837 \\ 25.74 \\ 175348 \\ 306859 \\ 219185 \\ 87674 \\ 112836438 \end{array}$$

$$\begin{array}{r} 89879 \\ 25.74 \\ 359516 \\ 629153 \\ 449395 \\ 179758 \\ 23.1348546 \end{array}$$

$564^\circ \text{W}$   
 $25.74 \text{ ft}$

11.28

12"

23.13 W

Sp. Pole  
in water set  
by Heath  
US 137



53  
318  
137-29 318  
3498

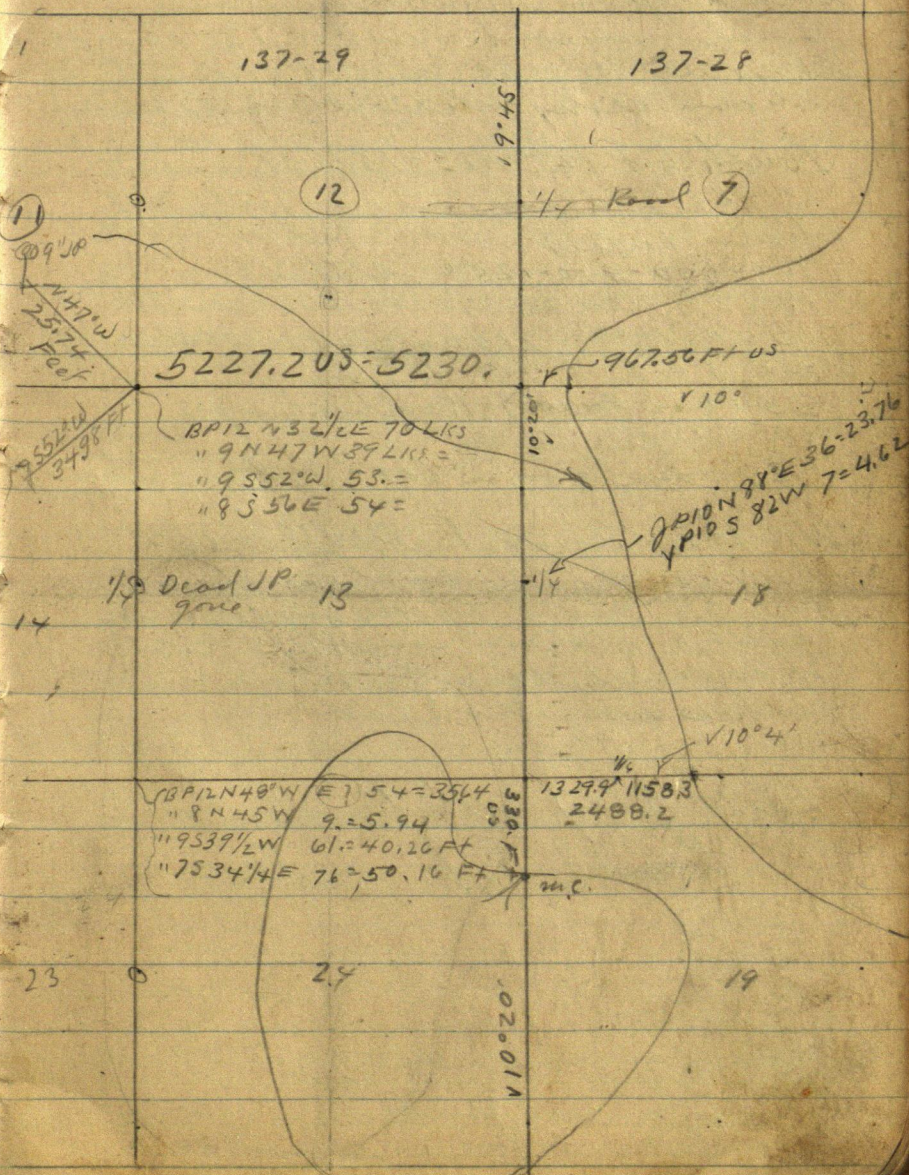
377  
2262  
1755 2262  
2015 2488.2  
37.70

10 19

137-28  
1466  
8796  
8796  
1158.3  
1329.9  
2488.2 US

64  
330  
39  
234  
234  
25.74

1755  
10530  
10530  
115830





Aug 16-1921-

Tuesday

Rain fine mist nearly all day  
Gerald catches 4 fish

Clears off about 4 PM and  
Gerald-John Kamberling and  
I take my car to NW Cor 13-137-29  
where we dig up small Tm. and  
chain along straight graded road  
South bet <sup>13-14</sup> 12 and 13-137-29

Gerald takes car, John & I  
chain perfect

300-600-900-1200 - stakes

1322.5 old fence leads west

1500-1800-2100-2400 stakes all  
west of wheel track

2500 (about) Kamberling's

road turns in

2700-3000-3300-3600. stakes

We then drive to SW Cor 13-

where we check in by chain the NW  
and SE old B.T. stumps plainly  
scribed - Chain comes in center  
of 4" wide turn fence post  
where we set a tall flag

Still stay with Kamberling in  
"Good Luck" cottage



(12)

137-28-29-21

Aug 17-1921. Wed  
Cloudy-N 58° 17' 30"  
S 56° 02' 30" E600.00  
254.25  
345.75John Kamberling and boat take  
Garald and I to SW cor 7137-28Set transit on shore - at a point  
S 64° W of stake in water at foot of  
BT marks on old SW stump about  
300 ft distant and continue line  
from old stump N 64° E 25.74 ft  
and set 1 1/2 inch pipe about 8 ft  
long - pump point on bottom in  
4 feet of water  
drive pipe to 6 inches above  
water and put white flag on pole  
in pipeIn setting the corner John and  
I lie one end of chain to stake at BT.  
and with a boat chain N 64° E  
25.74 ft. Garald on shore at transit  
keeps us lined up N 64° E  
sighting thro old stake at old BT  
stump under water

From line corner B T S 1/2

6" oak N 64° E 900 ft (about)

Took in N edge of 8" S.P. near  
root S 64° W 400 ft (about)  
with a Hub a few feet eastward on line  
S 64° WPack transit about 1000 ft  
West of run corner and set up on  
E end of Pine River overflow





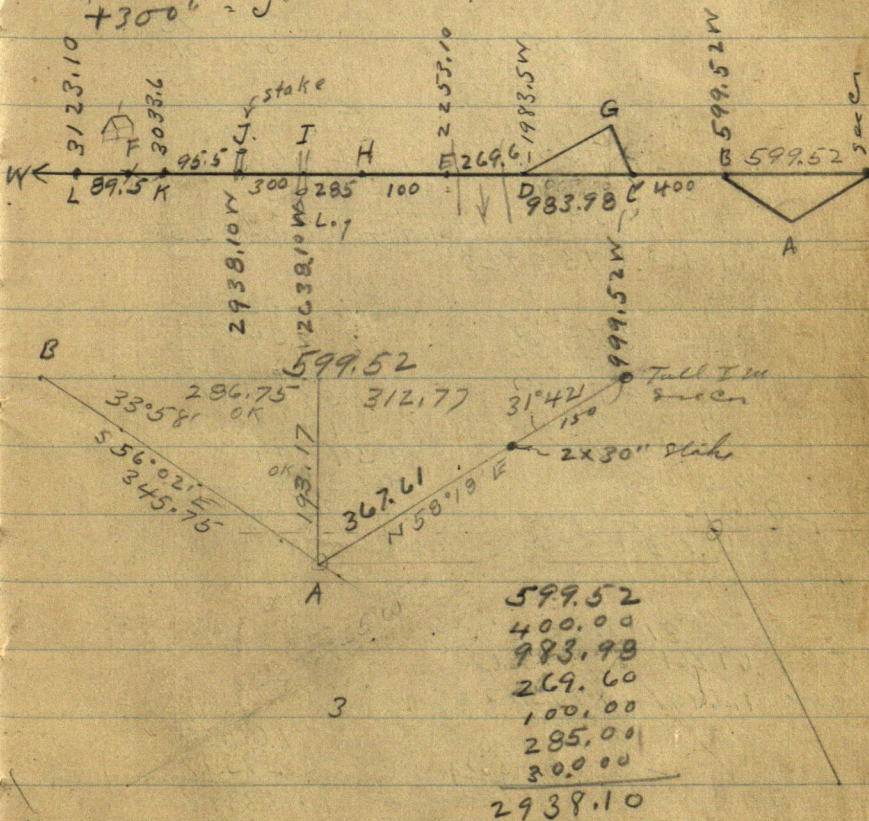


(14)

From Hub D chain 269.6 to Hub E

From E chain 100 ft 1 ft on SE bend of river - then up SE bend of river with boat  
 @ from H to I in big log near shore 5 vane  
 285.0

From I chain 300 ft and at stake marked  
 +300" = J



See Page 27



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(16)

|              |              |
|--------------|--------------|
| 89.60        | 89.60        |
| <u>58.18</u> | <u>56.02</u> |
| 31.42        | 33.58        |

$33^{\circ}58' \sin 55871 \times 345.75 = 193.175$   
 $\cos 82936 \times 345.75 = 286.75$

|              |              |
|--------------|--------------|
| 55871        | 34575        |
| <u>34575</u> | <u>55871</u> |
| 279355       | 34575        |
| 391097       | 242025       |
| 279355       | 276600       |
| 223484       | 172875       |
| 167613       | 172875       |
| 193.1739825  | 193.1739825  |

|              |              |
|--------------|--------------|
| 34575        | 82936        |
| <u>82936</u> | <u>34575</u> |
| 207450       | 14680        |
| 103725       | 580552       |
| 311175       | 414680       |
| 69150        | 331744       |
| 276600       | 248808       |
| 286.7512200  | 286.7512200  |

$31^{\circ}42'$   
 $\tan 61761 \times 193.17$   
 $\cot 1.61914 \times 193.17 =$

|              |               |
|--------------|---------------|
| 89.60        | 1.61914       |
| <u>72.65</u> | <u>193.17</u> |
| 17.05        | 1133398       |
| 41469        | 161914        |
| 2915         | 485742        |
| 207345       | 1457226       |
| 41469        | 161914        |
| 373221       | 312.7692738   |
| 82938        |               |
| 120882135    |               |



312.77 (16)  
 286.75  
 599.52

312.77  
 417.61

312.77

18 766.2

218 939

312.77

18 766.2

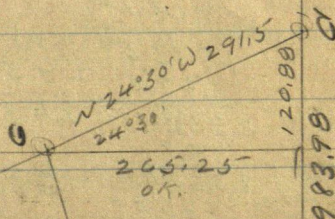
24°30'

Sine 41469 X 291.5 = 120.88 W

Cosine 90996 X 291.5 = 265.25 N

193.1698797

863.10  
 120.88  
 983.98



291.50  
 909.96  
 1 749.00  
 26 235.0  
 26 235.0  
 26 235.0  
 265.2533400

90996  
 2915  
 454980  
 90996  
 81 8964  
 181 982  
 265.25334

17°05'

Tang 30732 X 863.10 = 265.25

Cot 3.25392 X 265.25 = 863.10

863.10

17°05'

"D"



24

|           |      |            |
|-----------|------|------------|
| 86310     | (17) | 3,25392    |
| 26525     |      | 26525      |
| 431550    |      | 16 26960   |
| 17 2620   |      | 65 0784    |
| 431550    |      | 16 26960   |
| 51 7860   |      | 19 52352   |
| 17 2620   |      | 65 0784    |
| 238937275 |      | 863,102280 |

4

|        |         |             |      |
|--------|---------|-------------|------|
| 8980   | 999.52  | 30732       |      |
| 7920   | 12088   | 8631        |      |
| 4      | 1120.40 | 30732       |      |
| 39     | 863.10  | 9 2196      |      |
| 186    | 1983.50 | 18 4392     |      |
| 32     | 269.6   | 245856      |      |
| 020    | 2253.1  | 265,247892  |      |
| 3033.6 | 100     |             |      |
| 52300  | 2353110 | 3033.6      |      |
| 3033.6 | 285000  | 166 2938.10 |      |
| 2196.4 | 2638.10 | 30270 95.50 |      |
| 160    | 300     | 5230 3033.6 |      |
| 2212.4 | 29381   | 3027 156    | 5230 |
|        | 3       | 13 30120    | 3018 |
|        |         |             | 2212 |

I meet Mr Ahl at Kanberling road  
and tell him it will cost \$250 to get the  
lines on his two tracts of land  
\$25 to plat it and \$.25 more for maps  
Total \$300.

and that he can pay me "any time"

Figures corrected till 10.55  
get to bed 11 +.



(18)

137-28-29

27

Aug 17-1921 Contd

Hub

A. is 312.77 W and 193.17 S

B " 599.52 "

C " 999.52 "

G " 1120.40 " and 265.25 N

D " 1983.50 West

E " 2253.10 "

H " 2353.10 "

I " 2638.10 "

J " 2938.10 "

K " " "

367.61

150

217.61

31° 42'

Sine 52547

Cosine 85081

85081) 312.770

263.243

575.270

510.486

64.7840

595.567

522.730

510.486

122.440

85081

37.359

John H. Curo



28

(19)

Aug 18-1921 Thursday

U.S. Notes

East random bet 12-13-137-29

Vor 11°

3500 Euler river bottom NW-SE

3790 Margin Pine River R. bank

Set limp MC Post

offset 1.28 chs South then

East 4.15 chs

North 1.28 " to line at R. Bk

4000 Pt in River for 1/4 Cor

4205 Temp MC.

4663 R Bk Pine River Temp MC.

4813 L " "

7920 in line bet 83 Lks n. of Cor  
to Recs 12-13-7-18N 89° 25' W True line bet Recs  
12-13. V 11°

From Cor 7-12-13-18

West on true line

3107 L. Bk P. River set MC.

Oak Ash? 10543° E 59

3257 R Bk MC.

Oak 12 N 13 1/2 W 47

3715 R. Bk P. R. set MC

Balsam Fir 12 N 85 W 21

4130 R Bk P. R. set MC

Ash 1056° W 45

Tam 6 N 10° E 23

3960 Pt for 1/4 Cor in River

7920 Cor to 11-12-13-14

137-29



3033.6  
146  
 3019.0

3400.0 (20)  
3123.10  
 276.9  
 5230.  
3019  
 2211.

(29)  
 3123.10 2938.10  
95.50  
 3023.60  
89.50  
 3123.10

Bag @ Hub "L" 3123.10 West  
 and cham  
 stake —————→ 276.90 and net  
3400.00  
 226.30  
 +  
 3626.30 Hub

3700 stake  
 4000 "  
 4300 "  
 4600 + 62.2 = 4662.20 Techni green  
 8" VP stump

4900 stake  
 5200 + 30. =  
 5230. Cur net in 90 = 7.05 ft  
 1.00 1348

53) 7.05 1330 5230 7.050  
53 5230  
 175 1820  
159 15690  
 160 26790  
159 20920  
 10 41800  
 36610  
 5190

Correcting book  
 1348  
523  
 4044  
 2696  
6740  
 705004

.001348  
~~001330~~ diff. N  
523  
 399  
 266  
665  
 9559  
 5230  
3019  
 2211

14.6

3033.6  
146  
 3019.0



(30)

(21)

0001348

✓ 599.52 W goes N 0.80  
 ✓ 999.52 " " 1.35  
 ✓ 1983.50 " " 2.67  
 ✓ 2253.10 " " 3.04  
 ✓ 3033.60 " " 4.09  
 ✓ 3123.10 " " 4.20  
 ✓ 3626.30 " " 4.89  
 ✓ 4662.20 " " 6.28  
 ✓ 5230.00 " " 7.05

1307.5 goes N 1.76 = E  $\frac{1}{16}$

2615.0 " " 3.52 =  $\frac{1}{4}$

✓ 3922.5 " " 5.28 OK

5230.0 " " 7.05

From Stake 4000. W-chain 77.5 ft E  
 To 3922.50 W-chain N 5.28 To line W.  
 $\frac{1}{16}$  BTS Vij

JP 12 544' 20" W 76.30

" 14 544' 48" E 74.35

Turned from line line

2938.10 W. goes N 3.96

Coralina Carlson widow of  
 O of Carlson Box 56. Jenkins



4000.04) 5230 <sup>(22)</sup> 3  
 3922.5 1307.5 1348  
77.5 4 363  
 5230 0 4.2

2615.0  
 4) 705 1.76  
 4 2  
 30 28 35.2  
 25 528  
 1348 312  
 2698  
 1348  
 4044  
 420576

2615.0  
 4) 705 1.76  
 4 2  
 30 28 35.2  
 25 528  
 1348 312  
 2698  
 1348  
 4044  
 420576

1348 312  
 2698  
 1348  
 4044  
 420576

1348 3034  
 5392 3  
 4044 6.740  
 4044 2696  
 4089832 2696  
 3037044  
 4044  
 3093000

198 1348  
 1348 1984  
 8088 5392 0  
 2615.00 10 784  
 2665 121 32  
 2938.10 348  
 2665.00 674 432  
 273402 1348  
 294 23804 6 37  
 5392 11752 3  
 88.14  
 2938 2938  
 1348 23804 6 37  
 11752 3  
 88.14  
 2938 2938  
 1348 23804 6 37  
 11752 3  
 88.14

2615.00 10 784  
 2665 121 32  
 2938.10 348  
 2665.00 674 432  
 273402 1348  
 294 23804 6 37  
 5392 11752 3  
 88.14  
 2938 2938  
 1348 23804 6 37  
 11752 3  
 88.14

12132 2938  
 2696 3960 424  
 396312 2615.00  
 2938.10 100  
 2715.00

(16)

81.7  
 85.2  
 13.6  
 115.0  
 2575.10  
 113.60  
 2688.70  
 41.82  
 2730.52



at 999.52 W chain N 1.35 set

Hut on line line

BTS ug

QP 11 S  $21^{\circ}45'E$  26.70 ft

906 N  $35^{\circ}40'E$  16.32

599.52 W ul chain N. 0.80 of foot m  
set Hut on line line

BTS ug

QP 5 N  $88^{\circ}15'W$  74.95

Poplar 8 S  $20^{\circ}40'E$  19.85

8" set with compass 8" N  
carefully read  
John Kamberling and S.

At  $\frac{1}{4}$  bet 12-13-137-29 set Corner in Run

Witness  $\frac{1}{4}$  on 100 ft west end 10 ft W of  
low bank

BTS ug 800

Elm 7" N  $52^{\circ}30'W$  61.40

Oak 6" S  $57^{\circ}10'W$  72.85



Aug 18-1921 <sup>24</sup> Thursday Crit'd 33

To survey Fish Hatchery  
Beg at top of sec line 221 ft E of  
SW cor sec 12-137.29 set 1 1/2 inch  
pipe 3 ft long on brink of hill

Thence N 12° E 75 ft to I.M.  
1 1/2" x 3 1/2" ft pipe for NW cor  
on brink of hill

Thence N 70° E 160 ft to 1 1/2" well  
point 3 ft long 10 ft from water  
pile of stones around I.M.

Thence along river bank 10 ft  
from water

S 66° E 120 ft

Thence back 10 ft from bank to  
I.M. with 1/4 cor

From SW cor Hatchery to  
NE cor cement foundation  
Mrs. Carlson's house

N 57° 10' W 67.20 ft

SE cor cen. Fd. A

N 83° 36' W 58.0

JP 8 S 13° 50' E 103.4 ft  
Turned from line line

Main House is 30.4 ft wide E & W  
by 30.0 N & S.

Porch is 8 ft N & S by 20.2 E & W

our line cuts off 1.55 ft on E side  
and 0.70 on W side

18 ft along west side of porch to  
notch in SW cor of house



34

(25)

Aug 18-1921 Contd.

Gerald Curo - John and Frank  
Kamberling - Donald Young  
and the two Carlson Bros  
help us in am.

PM

Perfect Survey

Same crew except Frank  
Kamberling.

Quit and get home to Resort  
at 5.50 PM

Leon & Gerald bring boat  
John & I come home in my car

2715

2515

5230

From 2938.10 v. eham E

E 223.10 To

2715.00 W-100/HW 1/4 cor

2715

10  
2705

5230

2211

3019

John W Curo



(26)

35

3  
184

137-29

(12)

2643.76  
1321.97

Clara Schuller

1618 Lowry No

Minneapolis 11 Minn

15.25 apt. SE SE Sec 14-137-29

24.75 ac SE SE 1/4-137-29

River is @  
SW 1/4 of Hatchery in C

2705 W  
3019 W

SW Cor Hatchery is 3019 W  
A B h river 2705 W

314 = distance Hatchery gate

3019.  
2715  
304.



(26)

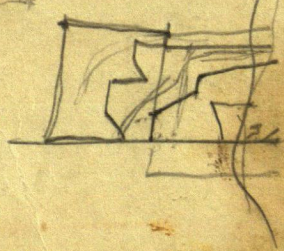
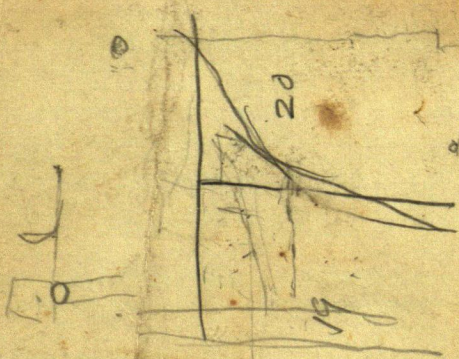
35

137-29

(12)

6720 - 1/10 inch

132452  
700  
62482



River is @ 2705 W  
SW Cor of Hatchery in C 3019 W

SW Cor Hatchery is 3019 W  
A B h river 2705 W  
314 = distance Hatchery gate

3019  
2715  
304



(26)

35

137-29

(12)

5230. Total mych

2615.00

1307.5

1307.5

1307.5

100  
115  
120  
125  
130  
135  
140  
145  
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865  
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895  
900  
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925  
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945  
950  
955  
960  
965  
970  
975  
980  
985  
990  
995  
1000

(13)

River is @  
SWC or Hatchery in C

2705 W  
3019 W

SWC or Hatchery is 3019 W  
ABH river 2705 W

314 = 80 miles Hatchery, 702

3019.  
2715  
304.



To describe Hatchery gds vis.

Begin @ a pt on s.b. dy of Goutlet 5  
sec 12-T137-29 where the same intersect  
Pine River. thence west along the  
section line being the s.b. dy of said  
Goutlet 5 - a distance of 314 feet  
more or less to an iron monument  
on brink of hill 2211 feet East of the  
SW corner of said section 12-  
T137-R29

Thence N 12° E following brink of hill  
75 feet to an iron monument

Thence

N 70° E 160 feet to an iron monument

Thence continue N 70° E 15 feet more

or less to Pine River

thence S 66° E following said Pine River

120 ft to a point

thence southeasterly following  
said Pine River - - - feet more or  
less to the point of beginning and  
closing

$$\begin{array}{r} 75 \\ 300 \\ \hline 22500 \end{array}$$

$$\begin{array}{r} 2211.0 \\ 1307.5 \\ \hline 903.5 \\ 304.0 \\ \hline 10 \\ \hline 13075 \end{array}$$

$$\begin{array}{r} 65 \times 150 \\ 150 \quad 150 \\ \hline 65 \\ 750 \\ 900 \\ \hline 9750 - 2 \\ \hline 4875 \end{array}$$



(28)

37

$$300 \times 75 = 22500$$

$$65 \times 150 = 9750 - 2$$

$$45 \times 125 = 5625$$

$$22500$$

$$9750$$

$$5625$$

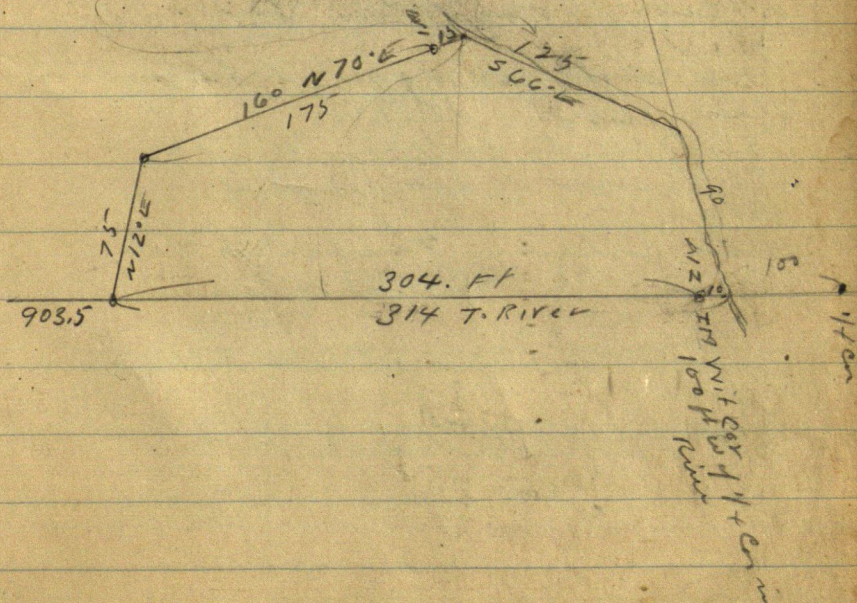
$$32250$$

$$43560 / 32250 = 74$$

$$304920$$

$$175800$$

$$174240$$





Beg at a ft on to b dry Gout Lot 5  
 sec 12-7137 R29 where the same  
 intersect Pine River then west  
 along said so b dry 15 ft more or  
 less to an iron monument set 100 ft  
 West of the pt for  $\frac{1}{4}$  cr but seen 12-13-  
 then continue west along said so b dry  
 304 ft to an iron monument on  
 top brink of hill 903.5 ft E of SW  
 cr of said Gout Lot 5.  
 then N 12° E following said brink  
 of hill 75 ft to an iron monument  
 then N 70° E down slope of hill  
 100 ft to an iron monument in pile of  
 big stones  
 then continue N 70° E 15 ft more  
 or less to said Pine River  
 then  
 S 66° E following said Pine  
 River 125 ft then  
 so exactly follow said river  
 90 ft more or less to pt of  
 beg.  
 and crossing the fourth of an  
 acre  $\frac{3}{4}$  acre more or less

I go to Brainerd in evening @ 9-30  
 Gould plays with Kamberlin



30

39

Aug 19-1921 Friday

Gerald Curco - John Kamberling  
work transit on line line bet 13-  
and 14-137-29 set hut @ 3600 120  
and continue chaining

South on line line

@ 5287.90 South interest  
corner to sec 13-14-23-24-137-29  
set the 1/4 corner half way bet  
see map

|    |    |           |               |    |    |       |
|----|----|-----------|---------------|----|----|-------|
| 23 | 14 | 1322.     | 5287.90 Arch. | 14 | 11 | 13729 |
| 24 | 13 | 2643.95   | 2643.95       | 13 | 12 |       |
|    |    | West Line |               |    |    |       |
|    |    | Sc 13-    |               |    |    |       |

John W Curco all day at Beaman

2) 2643.95 1322  
1321.975 N 5 1/2 E  
1322.00  
1312.60  
9.40

2643.95  
131  
1316.78  
2643.56  
5267.12

5233.56

|    |    |         |         |         |         |    |    |   |
|----|----|---------|---------|---------|---------|----|----|---|
| 24 | 13 | 1308.39 | 1308.39 | 1308.39 | 1308.39 | 13 | 12 | 7 |
| 19 | 14 |         |         |         |         | 14 | 11 |   |
|    |    | 1308.39 |         | 1312.60 |         |    |    |   |
|    |    | 2616.78 |         | 1308.39 |         |    |    |   |
|    |    | 5233.56 |         | 4.21    |         |    |    |   |



40

(31)

Aug 20-1921 Saturday

Ronald Curo learnt and chain  
 John Kamberling helps chain and  
 run learnt, <sup>curo</sup>  
 Carlson - Laveré & men

Curo - Laveré &amp;

Big @ 1/4 on W side see 13-137-29  
 set learnt compass needle @ 8° or and  
 run E or S end of needle reads 7° 30'

Cut almost the entire mit  
 East thro center of air  
 no chain

John &amp; Curo in Brainerd

Garn and Fish Corn  
 E. W. Cobb



(32)

137-28-29

41

Aug 21-1921 Sunday  
 Gerald with Frank and John R.  
 finished running bal of line East  
 East this & sec 13.

Then go south and continue line  
 East random bet 13-24-137-29  
 to lake on chain

5238) 5800

100111

2730.52

5233

2688.70

5670

41.82

5233

to 130.4

4370

2575.1

25751

2705.15

111

25751

1807

25751

1807

25751

1807

2857361

200577

This Book No 148







34

43

Aug 22 - 1921 Could  
 John W. Carr Ls 5 Bet 1-p.m.  
 drives 15 Kamberlings just as Corral  
 gets in. Nick - John & I go back to  
 check Harold's work - and wait to see  
 Leone Hardy who does not get back

2603.5  
2575.1  
 28.4

2688.7  
2575.1  
 113.6

2607.  
2575.1  
 31.9

493.4  
564.2  
 21057.6  
528.8

2705.5  
2575.1  
 130.4

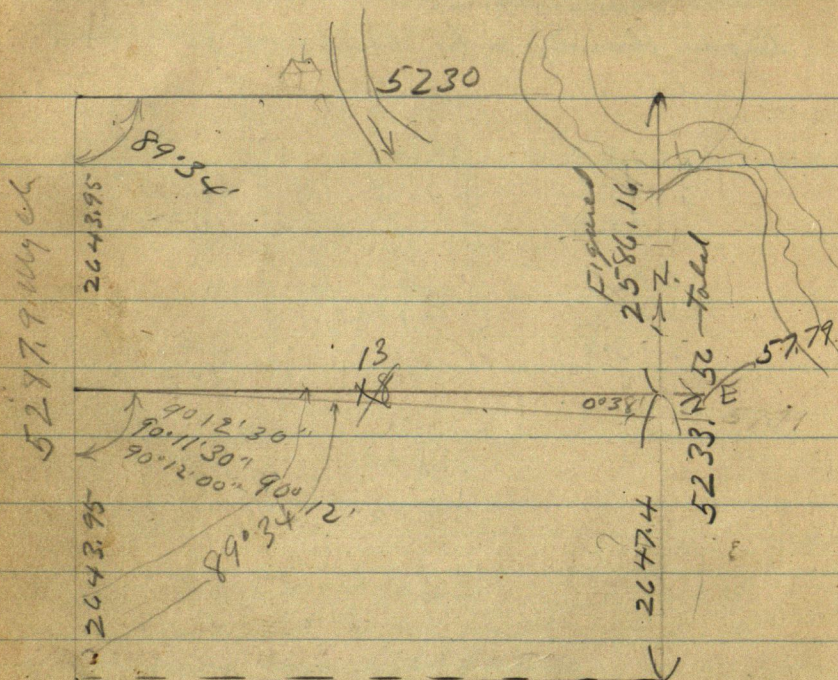
Just



44

35

Aug 23-1921 Tuesday



1/4 Bt 13 and 14 T 137-29  
 1 1/2 x 12" 17th & 24th road  
 10 7N 39°05' E 44.65  
 14 N 67°15' W 41.80

2647.4  
 2586.16  
 2523.56  
 2261.638  
 1308.39



36

45

89° 7' 2"  
 89 34  
 ° 38'

71.5  
 2647.4  
 2586.16  
 5233.56  
 2616.78

0° 38'  
 Tang. 01105

1105  
 523  
 3315

2643.95  
 57.79  
 2586.16

2 210  
 5 525  
 57,79 15

J. K. and G. C.  
 chain & run 13-  
 East. 3-6-9-12-15 slabs  
 1800 slabs from main road  
 NWSE  
 21-24-27-30-33-36-39 slabs  
 4200 + 127.3 = 4327 E intersect west  
 shore of lagoon - water

90° 12' = 1105  
 523  
 3315  
 2210  
 5525  
 5779 15

Then walk East around so end of  
 Lagoon and intersect random from slabs  
 so at a point in Doug Hardy's corn field  
 at 41.3 ft N of post in N. fence which is  
 2688.7 N 2688.7 - 41.3 =

2647.40  
 2586.16  
 2 5233.56  
 2616.78  
 3062  
 2647.40

41.3  
 2647.4 N 2616.78  
 2586.16  
 30.62

~~2647.4~~  
~~2618.7~~  
 2647.40  
 2586.16  
 5233.56  
 2616.78



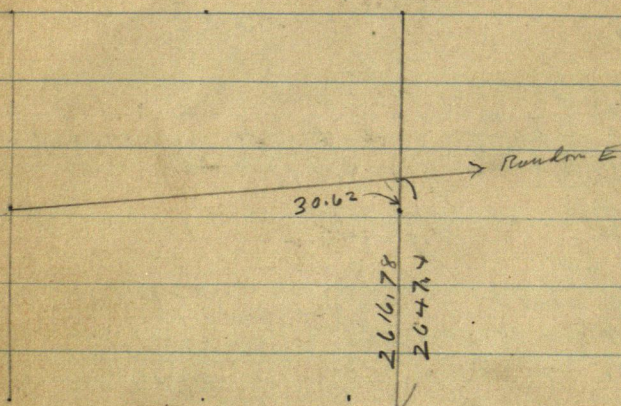
46

37

2970+  
257510  
260390.1K  
26

1932  
176  
2108  
2284  
176  
2460

5855  
42 5855  
433  
2616.8.11710  
2603.927420 17565  
12.927591 17565  
23420  
2335215



523 30.62  
2615  
4470.2  
4184  
2860.1  
2615  
2430

5230 30.620  
523  
9186  
6124  
15310

.005855  
523  
17565  
11710

Correcion  
.005855 = 30.62

13.3  
29275  
30.62165

Our corner 2616.78 N corner  
1332  
263010

Garrison's corner comes 14.5 E corner 13  
to



005855

Correcting

EXW & No 13

about 5230. E gas 5 30.62 to 1/4

4327. E gas 5 25.40 ✓ -  
 4200 " " 5 24.59 ✓ -  
 3900 " " 22.83 ✓ -  
 3600 " " 21.07 ✓ -  
 3300 " " 19.32 ✓ -  
 3000 " " 17.57 ✓ -

2700 " " 15.81 ✓ -  
 2400 " " 14.05 ✓ -  
 2100 " " 12.30 ✓ -  
 1800 " " 10.55 ✓ -  
 1500 " " 8.79 ✓ -  
 1200 " " 7.03 ✓ -  
 9 " " 5.27 ✓ -  
 6 " " 3.51 ✓ -  
 3 " " 1.76 ✓ -

|        |       |        |        |
|--------|-------|--------|--------|
| 1305   | 5855  | 5855   | 5855   |
| 176    | 3     | 2283   | 39     |
| 1481   | 17565 | 176    | 52695  |
| 1667   | 2     | 2108   | 17565  |
| 176    | 35130 | 351    | 228375 |
| 1853   | 176   | 1055   | 2459   |
| 2029   | 3689  | 176    | 2283   |
| 1757   | 1932  | 527    | 1230   |
| 176    | 126   | 703    | 1705   |
| 1581   | 2108  | 176    | 5855   |
| 1757   | 1757  | 879    | 33     |
| 5855   | 1055  | 1305   | 17565  |
| 27     | 176   | 176    | 17565  |
| 40985  | 1481  | 193215 |        |
| 11910  | 5855  | 5855   | 5855   |
| 1229   | 17565 | 12     | 11710  |
| 176    | 1054  | 5855   | 5855   |
| 1405   | 176   | 7026   |        |
| 5855   | 1230  | 176    | 878    |
| 1710   |       | 1054   |        |
| 122755 |       |        |        |



48

39

$$\begin{array}{r} 2616.78 \\ 1308.39 \\ \hline \end{array}$$

$$\begin{array}{r} 2616.78 \\ 5233.56 \\ \hline \end{array}$$

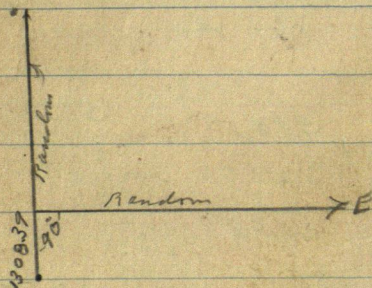
$$\begin{array}{r} 1312.60 \\ 1308.39 \\ \hline 4.21 \text{ South} \end{array}$$

To run Sobydy Grant Lot 3 - sec 18 -  
137.28

at Hub 1312.60 N See Page 39

Wecham South 4.21 ft to 1308.39 N  
that Hub in road

Back right South turn 90° from  
random and run  
East random so line Grant Lot 3



$$\begin{array}{r} 1308.39 \\ 2616.78 \\ \hline 5233.56 \end{array}$$

Mrs Wilson



Sept 23 - 1923 Sunday

I drove out to see Mrs Wilson who now lives  
@ Pk Rapids. She wants to line of Lot 1.

Sec 19-137-28 for which she will chip in  
\$25. on the Kamberling survey - I refuse her  
offer as it will cost from \$150 to \$250 to

I produced this line correctly but I promise  
to get a close estimate of about where it will  
come and she promises to pay the \$25.

Sept 24 1923 Monday

Alma Reed and I L @ 9-45 go to Pk  
Rapids to buy a Todd's funeral Take West  
Mattie 1 hour - 50 minutes

Funeral @ 2-P.M. Back to Jenkins for meals

Sept 25 1923 Tuesday

monkey all day around Jenkins - see Eberhart  
and arrange for his raising & such  
Reed and I out to Kamberling's Back to Jenkins  
for over night with Fannie and Fred Todd

Sept 26 - 1923 Wed

I take Mary Ann and Reed to Bowman  
sch H. O. then go to Kamberling's Pick up John  
and we cut line all day - dinner with Kamberling  
P.M.

Go to James Schultze funeral @ Jenkins  
and back with John Kamberling where  
we find the I.M. @ SW cor 7-137-28 down  
We re-set it by JK tying chain to iron  
pin in stump and rising boat while I  
stand on bank and line up



Figuring approximate Correction 51

assuming that Harold mine

NW cor of 18 - about 5.50 ft East =

5233.56 into 5.80 = 0.00111 west

See Page 16-17

1312.60 N 2nd west

1807 N " W 2.00

2575.10 " " W

2607 " " W see p 42

2730.52 "

2705.50

2575.10 Hnd 6' N of road

130.40

2705.50 2nd west 2186 3.00

2705.5

2647.7

58.11

At 6.80 off = 6.0013 West

1807.2nd W 235

2705.5 " " 3.52 Try This

5.40 2706  
2706  
2706  
300366

1807  
1807  
1807  
200377

5.60 5234  
11.07 2705  
5234 56000  
5234  
36600  
36638

5234  
107  
36638  
5234  
560038

1807  
107  
12649  
1807  
173349

8706  
192  
60942  
9706  
981842  
2706  
107  
18942

2706  
107  
18942  
2706  
289542

2523356  
2616.78  
2  
523356

2706  
107  
18942  
2706  
289542  
2616.78  
88.72  
270550

2705.50  
2616.78  
88.72  
523356



52

43

Sept 27-1923 Thursday

J L. Jenkins @ 5-55 am

Drive to Kamberling's Resort for  
breakfast Figure correction P. 51

Breakfast with Kamberling

John K and I find that our old SW  
USBT @ SW Cor has been moved a few  
feet west about 8 to 12 feet

We re-locate fall iron Vig Page 23.

Turn Kut A (P. 23) Focus N 56° 02' W on Hub

B. Turn telescope N E and chain

N 58° 18' E 367.61 set tall iron

Note 2x30" stake driven 150' from I m

S 58° 18' W. Dinner with Kamberling

PM TRY

Temporary correction .00111

Hub 1807. N set Hub West 2.00 OK

" 2705.5 " " 3.00

Turn 3.00 @ sta 2705.5

Prodnight at 2.00 at Sta 1807

Transit-telescope on line cuts

0.25 R and 0.50 L showing on center

like 5.60 or .00107.

So that Hub 1807 goes West 1.93 OK

" 2705.5 " " 2.90 OK

T @ corrected Hub 2.90 @ 2705.5 chain

To along line Range line 58.10 to 2647. TRUE

89.72 T. 2616.78 N OK set Hub True

on 13.20 N of E W Fend

4) 5° 56' at 2x10" Hub New Road runs  
N 89° 35' W aboutTurn 90° to TRUE Rg Line and set stake  
about 400' E Temp.

Going to Kamberling's Resort meet

Chas K and come back to Hub

1308.39 N and set West 1.40 to TRUE

5/16 bet 13-18-137-28-29

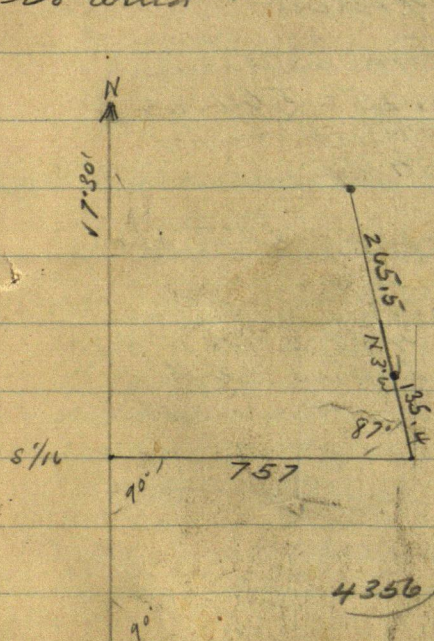


44

from N on line line from 90' and 53  
 run East  
 East 90° T-Ry Line on Trues 1/4 A  
 18 137-28.

300 - 309 & run NE S  
 435.40 Huh 600  
 $600 + 157 = 757$  Huh

Cut brush around John Kamberling  
 fence line on his "3. acres"  
 Supper at Kamberling's and back to Jenkins  
 Too hot bright sunshine all day  
 no wind



300.0  
 106.6  
 193.4  
 300  
 493.4

18  
 493.4  
 364.2  
 2 10576  
 528.8 Long  
 by 265.5 wide

528.8  
 265.5  
 26440  
 26440  
 31728  
 10576  
 1403964  
 13018  
 10216  
 8712  
 15044  
 13068  
 1976

corrected Huh  
 1807. BTS Vi 2  
 VP 12 N about 30° W 2.20  
 VP 10 S " 60° W 10.20  
 Earl and I Apr 1-1927  
 JWC

Trues 1/4 bet 13-18- } W. Bch 9N 39° 21' E 105.5  
 137-28-29 } Pop 8N 18° 16' W 68.10  
 Wook 6S 32° 47' E 28.93  
 Turned from line line JWC Apr 1-1927

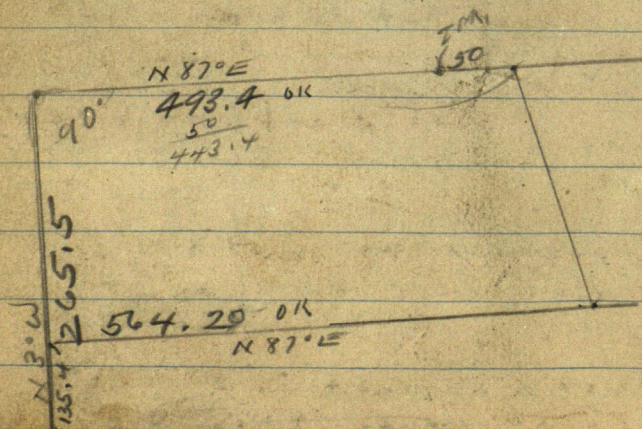


54.

John Kamberling  
Dumey

In. Govt Lot 3- Sec 18-T137 R28

Sept 28-1923 Friday.

Cooler-Light wind and a little cloudy  
I drive to John Kamberling place and find  
him at the Resort.T @ Hut 757 E. on  $S\frac{1}{2}$  line run  
 $N3^{\circ}W$  135.40 To SW Cor post of fenceNote: a  $2 \times 12$ " Hut set 0.20 WestThence  $N3^{\circ}W$  265.5 To  $2 \times 12$ " Hut on N  
side of NW Cor post of fenceFrom SW Cor Turn  $90^{\circ}$  and run  
 $N87^{\circ}E$   $300 + 264.25 = 564.25$  //  
to  $\frac{1}{2}$  8" Cedar post on West bank of  
Whitfish Lake (50 ft from water today)  
on low sand beachBeg @ NW Cor Hut from  $S3^{\circ}E$  along  
fence or near or across and run  
 $N87^{\circ}E$  and run along E of fence  
 $300 + 300 - 106.6 = 493.4$  ft to Hi  
brink-set Hut undefence 50 ft  
West of NE Cor

John W. Curo



PM

46

55

Beg @ SW Cor Sec 18-137-28

from Nonline line turn 90° and  
run East on line line

300-600-900 slate almost on line

1050 about, deep ravine and of

outflow 1164 Hob nail top of

8" green Borrowed stump 1200 slate

on line 1212.25 Hub on top of

N-S ridge

1274.65 Hub

1274.65 - 300.00

160

225.35

1434.65

74.65

1435

1274.65

35

75

160.35

500

1360

1433.00

## E.F. Felsing Cushing Minn

at 1360 foot of hill in the slough

1435 set 3X70" maple post 10 ft west  
of low water

set Hub @ 900 E

John K sets Hub 80 rods East

on E. side of Island and we quit  
for night @ 5 PMChar and John K go sailing and I  
figure overage for John viz

N 3° W 135.4

sin 5234 X 135.4 = 7,09 W OK

Cor 99863 X 135.4 = 135.21 N

N 87° E

sin 5234 X 564.20 = 29.53 N OK

Cor 99863 X 564.20 = 563.43 E OK

John W Cress







more or less;

(48)

57

## 2nd Description

A part of Govt Lot 3. See 18  
T 137-R 28 Crow Wing Co Minn  
described as follows

~~Begin @ an 8" cedar post 1317.34  
ft E and 164.74 feet North  
of the SW Cor of said Govt Lot  
3.~~

Begin @ a cedar post on West shore of  
Whalefish Lake 1317.34 ft East &  
164.74 ft N of SW Cor of said  
Govt Lot 3. Thence S 87° W 564.20  
ft to an iron mon. Thence N 3° W  
265.15 ft to an iron mon

Thence N 87° E 493.4 ft more or less  
to the shore of said Whalefish Lake  
Thence southerly following said  
Lake to the place of begin



58

137-29 Silver Sands  
① Wagner

2

14

1307.5  
5230. my ch. 011  
89°34'  
5243.07  $\frac{2}{3}$   
2643.95  
5287.9 my ch. 02  
2643.95  
99°46'  
5252.15 my ch. 0  
2616.78  
1308.39  
5233.56 my ch. 05

23

5305.4

24

90°14'  
2622.  
1321  
1321  
5284

5251.52

26

25

35

36



137-28

Silver Sands

59

(2)

18

17

19

20

30

29

31

32

1/16  
1/8  
1/4  
1/2  
5284 FT WYCH



120

# Timesheet Silver Sands

1926

Nov 1926

Dec 1926

Jan 1927

Feb 1927

Mar 1927

Apr 1927

May 1927

Jun 1927

Jul 1927

Aug 1927

Sep 1927

Oct 1927

Nov 1927

Dec 1927

Jan 1928

Feb 1928

Mar 1928

Apr 1928

May 1928

Jun 1928

Jul 1928

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Feb 1950

Mar 1950

Apr 1950

May 1950

Jun 1950

Jul 1950



④ Silver Sands 61  
Wagner

Nov 1st to 3<sup>rd</sup>

run lines and running business - on survey  
of Silver Sands - S&W Sec 24-137-29

Nov 4 - Then Jenkins to Bed L. my Ford with  
Geo Fallon Catch Bus to npl's over  
mile with Mr Connolly

Nov 5-1926 all day in St Paul & npl's call  
on Ilo -

Nov 6 - Sat npl's to Bed - met Commissioner  
Wilson at Bed. Then take my Ford drive  
to Watkin Pugh's farm via St Mathias  
over mile with Pugh

Nov 7-1926 Sunday: run line finish  
Pugh survey and back to Jenkins for npl's

Nov 8 - driving with B B Wilson at Emily

Nov 9-1926 Jenkins to npl's with Ed  
Crosby via Cambridge over mile with  
Mr Connolly npl's

Nov 10-11-12 at npl's & St Paul

Nov 13-1926 Sat Ilo - Irene & I with  
drive npl's to Dennis Langerin farm  
on 10 PM

Nov 13 - To Dec 2-1926 at St Mathias

Dec 2-1926 St Mathias to Bed Ch 8-195  
Then to Jenkins for mile



(5)

137-29

Sec 24.

Dec 3-1926 To Dec 9-1926 on survey of  
Silver sands

Dec 10 to Jenkins for Princeton. same 10 to 17<sup>th</sup> Dec 1926

Time at Princeton Dec 17- in home in Jenkins lot at  
mid 10 P.M. Dec 18 on plat - Silver sands

Dec 19-1926 Sunday.

Dec 20 To 24 on plat and survey

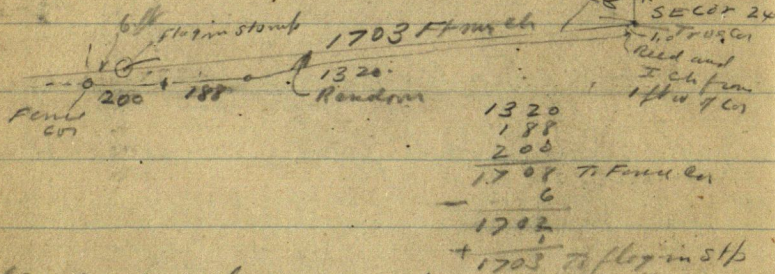
Dec 25-1926 Christmas

Dec 26- Sunday

Dec 27 To 31 on survey.

(24)

137-29



Note: Reed and I Beg at

at 1 ft West of SECOR Sec 13-137-29 and chain W

West on ice perfect chain 3-6-9-12-

1320 stake in ice + 188 = 1508 To stake on beach

200 ft E of Fence corner = 1708 To fence cor

Later: W. drove spike 40¢ with red patch for  
True SECOR 13-137-29 set from old SW BT. Tall  
stump still plainly scribed Root: still hold  
in sand. Also set short red flog in heart of 15"  
up stump on bank 6 ft E and 6 ft N of fence  
cor distance to heart of stump from line cor is  
1703. ft. & angle reads  
92°00' 92°25'

Reed and I Beg @ 13-18-19-24 T 137 R 28-29

South on line Line 268. spike 20¢ red patch

3 ft from Bink W 6 N 34 W 12.2

268 spike 272 Bink 1/2 bank 30 ft W 268 + 50 =

318 Foot of Bank near water edge



ds 65

Reed and I Continued

$$268 + 216 = 484 + 4800 = 5284$$

Note: Slab 4800N is mislabeled "4500 N" but it is really 4800N or there is

See 13



Harold and I: Tower Time NE Cor Sec 24

137-29 Focus 200 mil on line line swing 5°  
angle to flog 80 rods in 20 East also on line  
line on run by me for Kamberling  
Plate 00 Reach 89° 48' 30"  
" " " 89° 50' 30"

Focus again so on line line turn SW angle  
90° and run West on random,

295 feet of bank 300 on sand 330 water  
350 spike on ice 600-900-1200-1320 Hub  
1500-1800-2100-2400-2640 Hub still on ice

2700-3000-3350 strikes on ice  
Nate Harold and Earl Schultze, Columbia  
from here 3435 L. Hay Lake Foot of sea wall  
3456.6 strike & top of sea wall



64

7

Jan 7-1927 Friday Continued  
Harold and Mike. West bet 13-24-137-29  
@ about 3475W end of marsh-3600-3900  
3960-4200 stakes in bog; at about 4350  
LV Bog-foot of hill: 4397 fence N-S  
4500-stake 4556.2 ? spike on hill  
4800-5100 stakes: 5257.1 spike west  
of E of road looking north.

P.M.

J.W.C. with Schultz and Harold dine  
to Cor. {11-12-13-14} 137-29

Dig up Iron Bolt  $3/4 \times 9$  N-S road  
(See Kamberling Survey Pg 19 of This Book)

OS Nails call for

BP 12N  $32\frac{1}{2}$ E 70 Lbs

9 N 47° W 39 = 25.74 FT OK

9 S 52° W 53 = 34.98 " OK.

8 S 56° E 54

We find NW and SW slumps  
check perfect for chain with NW-SW slumps

IM OK. we set New BTS viz:

JP 11S about 40°W 51.90 } T. Flat spot at base

JP 6S " 45°E 61.70 }

T. Fence post 60ft 14.90 T. side of post.

We go to  $1/4$  Bet 13-14-137-29

(See Page 44 This Book) where Kamberling  
survey calls for New BTS viz

$1\frac{1}{2} \times 12$ " Hub JP 7N 39°05'E 44.65 ft

JP 14N 67°15'W 41.80 FT

We find both BTS CTH NW Tree has been  
cut down - we set pt by Flat Chain from  
base of spots and dine

120 # Spikes and red patches in E of road  
N-S & E We do not dig for Old Hub as ground  
is frozen - Nails I catch a line Partridge  
which flew just now, against Teluris,

(Nails: GA. Stensrud 3045 Elliot Ave  
Nails has sign "Land for sale" just  
west of Nelson Lake. Jan 19-1927)



## 8 Silver Sands

65

Jan 8-1927 Saturday

Harold and Schulz go to NW Cor sec 13-137-29 where they place a red flag banked with snow. Then with  $\pi$  half a mile so over  $\frac{1}{4}$  Cor BS. N and throw in a double Corn point half a mile to for the true SW Cor. Sec 13-137-29 lined in with old fence running E. and set spike for

True Cor to 13-14-23-24-137-29

True 13-14-23-24-BS N and intersect true line with random from the East NE angle reads 89°32'. See Page 63 Point comes 251 S of Cor. True IP NE angle reads 89°32' see Pg 63. IP comes 0.95 of foot East of spike on random 5257.1 West so that at 5256.15 W the Cor is North 251 ft

Figuring:

5256.15 into  $2\pi = \overset{251}{0004014} = 0.44' \quad 0'16.24''$   
 $89.32' + 0.44' = 89.46'$  NE angle of true lines  
 S. and W. Body sec 13-137-29

Transit over true SW Cor 13-137-29  
 BS on line NW Cor and run

South-Random bet 23-24-137-29

Cut line all day

Jan 9-1927 Monday

Jan 10-1927 Monday Cut line so all day

Jan 11-1927 Tues Harold and Schulz: same.

Jan 12-1927 Wed. Harold &amp; Mike. Now work Caled

Jan 13-1927 Thurs " " "

23-24?  
 South bet 13-14-137-29

© 2510 spike on random from the East

300 slats 493.3 Hub (spike) 600-

about 820 S into meadow NW. S. 55° 900-1200

963. Fence Cor Fence bears N + W?

1322. about, old 4x4x? sets West about 8 ft

1500-1720 L in meadow E-W. 1800-1875. Hub

Top of hills 2100-2400 (2322.6 Hub) 2704.3 Hub ft



66

9

3787.8  
2991.5  
796.3

Jan 13-1927 Cont'd 13-14

South Bet 23-24-137-29 Harold & Mike

2704.3 Hub 3000 stake - 8.5 = 2991.5 stake  
JP 14N about 85°W 22.01 to spat apr 15-1939  
"UP 9N" 10E 7.20 at Base

3757 fence 3779 & Road 3787.8 Hub

3900 + 2000 stake

2991.5 Find old stake { JP 18N about 80°W 4.80 to  
JP 9S " 30 E 13.55  
New spat at base Harold

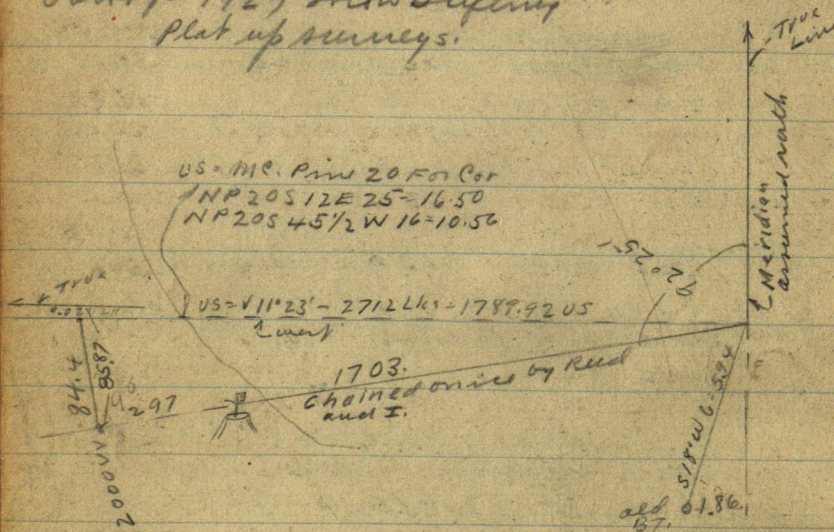
Jan 14-1927 Cold and SWC on 15-1939

Jan 15 " Cold

Jan 16 " Sunday all snow free warmer

Jan 17-1927 Snow drifting

Plat up runways.



Note: Reed and I run shore line on fall.

Our. Tower flag in stump BS. N 92° 25' E  
and run N 38° 25' W First lake tip of Bank  
S 70° E 25 ft. S 75° E 150 ft. S 80° E 350 ft.  
Bank also N 74° W 25 ft N 65° W 150 ft  
Flag on sand bears ~ 49° W 350 ft about  
It is 15 ft E of foot - 30 E of Bank 50 ft E of  
Top of hill and 16 ft W of water

Run N 38° 25' W @ 300 stake on ice

2° 25' Tang = .04220

38° 25' Tang = .79306

Tang 2° 27 1/2' = .042935 x 2000 = 1.47 + 84.85.87

John M. Kelle



N38°25'W E 13 by as meridian

67

| S/a.                     | Course     | Edge of Ice | Foot of Bank | Bank         | Top         |
|--------------------------|------------|-------------|--------------|--------------|-------------|
| O.<br>Flag<br>glacis     | N38°25'W   |             |              |              |             |
|                          | 300        | 50 ft L     | 75 ft L      | 85 L         | 100 L       |
|                          | 400        | 55 L        | 85 L         | 95 L         | 110 L       |
|                          | 500        | 50 L        | 90 L         | 95 L         | 100 L (low) |
|                          | 600        | 50 L        | slope        | 90 low slope | 100 ft. 200 |
|                          | 700        | 40 L        | slope        | slope        | 75 L low    |
|                          | 800        | 20 L        | slope        | slope        | 60. Low     |
|                          | 900        | 10 L        | 30 L         | 40 L         | 50 L        |
|                          | 998.7 Flag |             |              |              | 10 ft Hi    |
|                          | 1200       | 5 L         | 20 L         | 40 L         | 50 L        |
|                          |            |             |              |              | 15 ft Hi    |
|                          | 1500       | 0           | 20 L         | 40 L         | 50 L        |
|                          |            |             |              |              | 20 ft Hi    |
|                          | 1800       | 0           | 25 L         | 50 L         | 60 L        |
|                          |            |             |              |              | 20 ft Hi    |
|                          | 2100       | 5 R         | 55 L         | 40 L         | 50 L        |
|                          |            |             |              |              | 18 ft       |
|                          | 2360 Hut   | 10 R        | 5 L          | 15 L         | 15 L        |
|                          | 2400       | same        |              |              | 10 ft Hi    |
| Flag                     | 2436.2     | 10 R        | 15 L         | 20 L         | 25 L        |
|                          |            |             |              |              | 5 ft Hi     |
| (2436.2 Angle Point) viz |            |             |              |              |             |
| But continue N38°25'W    |            |             |              |              |             |
|                          | 2500       | 0           | 30 L         | 35 L         | 35 L        |
|                          |            |             |              |              | 4 ft Hi     |
|                          | 2600       | 15 L        | 30 to 75 L   | none         | low slope   |
|                          |            |             |              |              | 200 ft      |
|                          |            |             |              |              | 4 ft Hi     |
|                          | 2700       | 15 L        | 75 L         | 75 L         | 80 ft Hi    |
|                          | 2775       | 0           | 60 L         | 70 L         | slope 5 ft  |

Nel. at 2900 Top of 20 foot ridge 20 R and  
20 ft L and 30 ft from wall edge  
@ 2960 Hut spike on ridge 20 ft wide

Hut 2960 is on ridge 20 feet wide 5 ft E of E  
Ridge runs S 15° E 250 ft is 2 ft wide  
From 3960 it runs N 12° E 150 ft  
N/r Gustafson? call.







(12) Silver Sands

69

Jan 18-1927 Tuesday Cold rough

Jan 19-1927 Wed Harold and I with my Ford Buck snow and shovel some

Look for  $\frac{1}{4}$  Cor But sec 23-24.  
137-24 where US vales call for

$\frac{1}{4}$  NP20N 74 $\frac{1}{2}$ E 57 = 37.62 FT  
NP24S 78W 60 = 39.60 FT

Snow drifts too deep to find them

See Page 66.

At 2700 - 47.3 = 2652.7 So wire in line with old fence running East

Chain East to old fence corner 24.10 to E of 7" post which is supposed to be  $\frac{1}{4}$  Cor where fence runs North also East being SW cor of cleared field owned by - 57.6 ft E of pt 2652.7

S, another fence cor where fence runs South - Mr and Mrs Peet Soter say this fence is 2 rods or supposed to be 2 rods East of the true line

Mr and Mrs Soter come here 20 years ago moved on their present place spring of 1912 = 15 years ago this coming spring. Have never sown any real corn in. They say Garrison run this west line of sec 24 over 12 years ago and found no BTS near SW cor 24

Soter was not on the survey however.

Harold and I Beg @ stake 4200 continue South 4500 - 4800 - Stakes  
4800 + 34.9 = 4834.9 S stake Hat

5100 stake. 5175 stake Hat

5200 S seawall - 5240 into ice

5280 stake on ice

5175 S. old N-S fence is 73.5 East

MC. N. Side Nelson lake is 131 Lks  
= 86.46 FT N of sec cor. MC vales call for

BP7N 19 $\frac{1}{2}$ W 20 = 13.20 Deep snow.

BP8N 14'E 28 = 18.48

Reed - Harold - Almat I at home JWC.

Cold new wind



70

13

Jan 19-1927 Cont'd  
Seslier Bros (Vegetables) Des Moines Ia  
own the land west of Peet Salin.

GASTENRUD 30x5 Elliot Ave mpls  
has sign "Land for sale" 100 rods west  
of Nelson Lake.

J.W.C. 1930.



Jan 29-1927 Sat 14. Silver Sands 71  
Figuring on plot

$$\begin{array}{r} 2^{\circ}25' - \\ \underline{2'} \\ 2^{\circ}23' \end{array} \quad \begin{array}{l} 2^{\circ}25' \text{ Tang} = 0.4220 \\ = 42.2 \text{ ft in } 1000 \\ N 38^{\circ}25' W \text{ Tang} = .79306 = 793.06 \text{ in } 1000 \end{array}$$

a strip of land 650 wid. by 3300 ft long along  
west shore of Hoy Lake

$$\begin{array}{r} 650 \\ \underline{33} \\ 40.06 \\ 43560 \quad 2145000 \\ \underline{214240} \\ 260000 \\ 241360 \end{array} \quad \begin{array}{r} 650 \\ \underline{33} \\ 195- \\ 195- \\ 2145.000 \text{ sq ft} \end{array}$$

|                |         |            |
|----------------|---------|------------|
| Figuring Acres | 43.560  | ft = 1.000 |
|                | 87.120  | " = 2 "    |
|                | 130.680 | " = 3 "    |
|                | 174.240 | " = 4 "    |
|                | 217.800 | " = 5 "    |
|                | 261.360 | " = 6 "    |
|                | 304.920 | " = 7 "    |
|                | 348.480 | " = 8 "    |
|                | 392.040 | " = 9 "    |
|                | 435.600 | " = 10 "   |

Assuming: Uj:

West Bdry of Wagners plot Uj

Begin @ 1/4 Cor on so side sec 24,

T137R29 on so bdy of Gout lot 6

same section Thence running

N 37° W to a pt 330 ft E of NW cor of said

Gout lot 6. and on the so bdy of

Gout lot 4 at a pt 1650 ft (roughly) East

of SW cor of Gout lot 4

continues

Thence N 37° W to a pt 650 ft E of NW

cor of said Gout lot 4 all in sec 24

T137R29.

$$871.200 = 20 \text{ acres}$$

$$1.742.400 = 40 \text{ "}$$

$$2.178.000 = 50 \text{ "}$$



13-

1050

650?

400

Ng. 670

200 + 750

650

1650

223 00

1150 X 1320

43560/ 1518.0.0.0 L34.8 +

130680

201.200

174240

36960

Govt Lot 4

changed

5 p. 5.0 acs us

34.80 unprocessed

23.70 Platted & washed away

3360 1500

1650 H 2.

13207

330

Govt L-65

SVV Cor

See 24-137-29



N-148

(16) Silver Sands

73

Just assuming?

23.70  
19.90  
43.60 platted and  
worked away

Nat'l: This strip  
3300 long x 600 wide  
= 1980000 (45.4 platted)  
+ 3500.1980000  
174200  
2376.00  
2178.00  
198.00

Harry Lake

Center Sec 27  
T137.R29

Total 58.50 US  
44.90  
103.40 US

Chapman

600  
Gov + L.A.  
237.00  
3300

330  
1320  
21650

825 x 1320 = 1089000

+ 3500) 1089000 (25.000 unplatted

871.20

2178.00

2173.00

44.90 US

- 25.00 unplatted

19.90 platted & worked away

1320



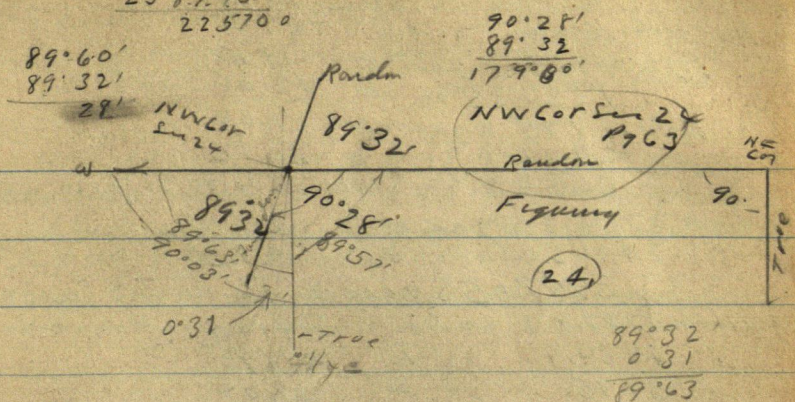
unplaced in cat. 4

See page 73. Figures or code  
may be changed

[illegible]



24-137-29 (18)  
 Silver Sands Feb 3-1927  
 Figuring W. Bailey rec Plot P963 notes 68.  
 2652.7) 24.1000 10.00909 - 0.31' P963  
 2387.43  
 225700

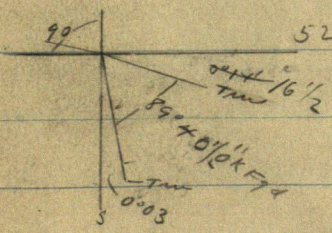


Nali: W line Sec 24 run 50°03'E  
 Tang 0.03' = 00087 X 5305, Y = -4.62 FT

5305.4  
 87  
 371378  
 +24432  
 4.613698

Nali: Solid sec 24 is  
 4.62 ft photo chain side  
 5256.15  
 462  
 5251.53 F9d.

89°57'  
 90°03'  
 179°60'



0.14 57  
 0.03 17  
 17. 63  
 89°60.  
 17  
 43  
 5305.4  
 5284  
 21.4 ft in 5253.  
 251.  
 21.4  
 3.7

0°2'30" = .000704 Correction for so Bailey  
 ~ of a 90° angle went from E side of



24-137-29<sup>19</sup> Silver Sands

Feb 3-1927 flying

Correction P<sub>7</sub> 65-63

Herald's value = .00909 E

Hob 4933 S gaes E 4.48

1326.35 S " E 12.05 T.N 1/16

Hab-1875 S gaes E 17.04

" 2322.6 S " E 21.12

2652.7 S " E 24.10 T. 1/4 W Snd 24.

Hab 2704.3 S gaes E 24.58

" 2991.5 " " E 27.20

3997.05 S gaes E 36.15 T.S 1/16 Cn

Hab 3787.8 S gaes E 34.43

" 4834.9 " " E 43.95

" 5175. " " E 47.04

5306.40 S gaes E 48.20 plfn SW

Cor 24-137-29- on ice

Ch to Fred Kumpen \$3.90 in full

Feb 4 - Friday.

Lie 5<sup>20</sup> AM To get Herald to help on survey.

Over mile with Bochner Bros. Purcell's

Feb 5-1927 return to Jenkins

Feb 6-Sunday Herald and I in Jenkins

Feb 7-

131281  
2625.76  
2118.30  
2507.46

2118.30



Feb 8-1927 Tues <sup>(20)</sup>

77

## Silver Sands

Harold and I with Wesley's team  
drive to Hay Lake. Correct to today  
See Page 66. Continue random line

West  $1703 + 297 = 2000$  W set spike  
Then @  $90^\circ$  run north  $85.87$  set spike  
on line so line of sec 24-137-29 at  
pt.  $2000.2$  ft west of S.E. cor  
Very cold Cut line E & W home late  
L. L. Linnit

## Road Trav

Feb 9-1927 Wed.

Harold and I take our lunch and ride  
out with Munson & his school bus.

Turn Hut  $85.87$  focus so on hut  $2000$  W  
Turn  $90^\circ$  L Then  $0.2\frac{1}{2}'$  R and Cut line  
East on line line to Hay Lake  $2000.2$   
@  $129.4$  E set spike on hi bank =  $129.4$   
Our line looking East cuts only a few  
inches Left of True S.E. cor Flag

Focus on line cor and continue West on  
True line @  $118.1$  set spike on road  
 $2118.30$  W Then take angle of road  
running NW

- ① =  $2118.30$  W run  
N  $47^\circ 26' W$   $331.5$  small Hut 6 ft of road 2
- ② run N  $39^\circ 47' W$  @  $225$  & road @  $300 = 20$  ft W of  
road. @  $600$  in road +  $160' = 760.10$  Hut 4 ft E  
of road = Sta 3.
- ③ run N  $36^\circ 47' W$  @  $200$  cross Road @  $250 = 20$  ft  
W. of road  $300 = 4$  ft W +  $245.2 = 545.2$   
Spike  $20$  ft in road station ④.
- ④ Run N  $54^\circ 42' W$  @  $200 = 12$  ft E of Rd @  $297.5$   
Hut 6 ft W. of Road = station ⑤
- ⑤ Run N  $36^\circ 20' W$  @  $150 = 15$  ft E of road  
@  $275 = 15$  ft W. @  $300 = 12$  ft W. @  $450 = 5$  E  
@  $500 = 20$  W @  $600 + 30.3 =$  Hut  $20$  ft spike in  
Road: station ⑥  $630.3$



(21)

Feb 9-1927 Continued.

Sta

⑥ run N  $63^{\circ}23'W$  180.50 Hwt 25 ft W of road  
= sta 7.⑦ run N  $6^{\circ}28'W$  273.8 (@ 100 = 25 ft E of Road  
(at 200 we are 25 ft E of road) @ 273.8 split  
Hwt sta ⑧ in E of road

Nalt Road could go 100 ft West

⑧ Run N  $22^{\circ}20'W$  on E of road @ 75 ft E edge of  
Briar 10 ft E. Big Run runs SE  
@ 80 road curves SW. @ 179.1 Hwt sta ⑨  
in old road E-W and in line with  
main road running West sta ⑨ is  
25 ft NE of Curve It is on a ridge E-W  
where an old road runs E x W⑨ we sight N  $87^{\circ}30'W$  @ 40 ft intersect  
main road. Continue N  $87^{\circ}30'W$   
about 250 ft along old road.⑨ From station 9, our street E could run  
40 ft West and miss hills & gullies⑨ From Hwt 179.1 we run North.  
@ 60 ft foot of big hill E-W @ 70 N a ridge  
N-S lies 50 ft West where we could  
bring our street from the south  
@ 120 picket in 4 Rod Pot Hwt  
with a low ridge 50 ft East  
@ 210 N set Picket in wire of  
E-W Fence. = sta ⑩

⑩ Quit for nit. Hide T ch x ax

Hide our outfit in hole 300 ft  
50 West of sta ⑨ and walk home to  
Jenkins

John W. Curo



Feb 12-1927

On plat. Figuring

(22)

(Silver  
sands)

79

Sta 1 = 2118.30 W N 47° 26' W 331.5 To ②  
Tang = 42° 34' = .91847

② Run N 39° 47' W 760.10 To Sta ③  
Tang = .83268

③ Run N 36° 47' W 545.2 To Sta ④  
Tang = .74764

④ Run N 54° 42' W 297.5 To Sta ⑤  
35° 18' Tang = .70804

⑤ Run N 36° 20' W 630.3 To Sta ⑥  
Tang = .73547

⑥ Run N 63° 23' W 180.5 To Sta ⑦  
26° 37' Tang = .50113

⑦ Run N 6° 28' W 273.8 To Sta ⑧  
Tang = .11335

⑧ Run N 22° 20' W 179.1 To Sta ⑨  
Tang = .41081

⑨ Run NORTH 210 To Sta ⑩ on Fence E-W

Nat's: After Platting: To get our land by  
Scale - we can Beg @ pt 105 E of 1/4 Cor and Run  
N 38° 25' W 2555 Ft Then North 645'  
To N Bdry - E-W Run 24-137-29 mdy

OR  
N 38° 25' W 2608 Ft Then North 605'

OR  
Begin 100 ft E of 1/4 and run N 38° W 2630 Ft  
Then N 36° 8' W 1100 ft E of NW Cor OK.

Figuring acreage Tang 38° = .78129

Nat's: Our deed may read by Beg 100' E  
1/4 Then N 38° W To a pt 370 E of NW Cor Lot 6  
Thence continue N 38° W in Lot 4 a dist  
of 950 ft more or less to pt 1150 ft E of NW Cor Lot 4  
more or less to a pt 1150 ft E of NW Cor Lot 4

Rg Lin Meridian

Figuring a strip of land 600 ft wide x 3360  
long = 46.3 acres - 2.2 = 44.1 acres

+ a strip 320 x 450 = 1.6 acres  
= 1.80

Nat's gain 5 acres full

45.0



2  
Feb 13-1927 Sunday 137-29

Feb 14-1927 Figuring  
N 38° W

Sine 61566 W into  
Cain 78801 N into

US Meanders In Sec 24

Reg @ on C Bet Sec 24-25-137-29-

1789.92 Ft W of SECOR Run

In Sec 24

N 65 1/2° W 675 LKS = Feet

N 32 3/4° W 2600 "

N 44° W 900 "

N 10° W 11

223







61623  
 838  
 492984  
 184869  
 492984  
 51.640074

78756) 66 0000 (8380  
 63 0048  
 299520  
 236268  
 632520  
 630048  
 24720

78756  
 838  
 630048  
 236268  
 630048  
 65997528

March 8-1927 Tues Election Day

Vote at Jenkins 5:15 to 4:15

PM.

Harold calls for his clothes He is working for

I and my car @ 1-PM Pick up Mike Schultze drive East get stuck in the snow - Ned Bowman and team pull us out - Get survey outfit near Peet Sals Bluffs

Spot East side of hill fence post for True  $\frac{1}{4}$  Cor on W. side sec 24-

137-29- work Transit on line 80 rods East from on flag @  $\frac{1}{4}$  Cor on T.C. @ E side of Sec 24-137-29 on Range line and mark point on

True E-W @ Sec 24-137-29

Spot N side of fence post 2.58 ft N of

True Line 4 rods west of gate

and watch top rail of N-S fence

about 1 foot N of fence cor near lake

shore. punch hole in 4 ft drift

and drop small plug and a nail

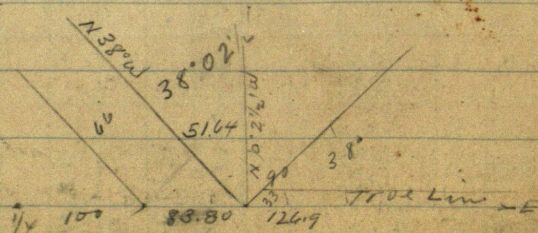
in the hole about 80 rods west of

Hoy Lake. Then come home to

Jenkins @ 4-PM = 3 hours work

38° 02' 1/2"  
 Sun.  
 com

N 89° 57' 1/2" W  
 = 0° 2' 1/2" N of W





March 21-1927 Monday <sup>1.30  
2.30</sup> Silver Sands <sup>83</sup>

First day of Spring  
Nell and Roy Mullowney went home to Duluth on last night's train 2-30 This morning - Wesley still sick. Alvin Reed and I all sick last night

Pet Howkenson calls up and wants me to come look over his survey  
PM

I pick up Earl Schultze and we look over lines at Shady Rest  
I agree to plat it for \$350. But will sign papers in about a month - unless he sells. He wants to pay me \$25. or cash but he sells I may not accept this.

Earl and I pore off measurements on Silver Sands and come home

2. Hours for Earl

Herald is in town

I call on Aunt Effie Palmer and want her to sign contracts and notes but she puts me off. Reed looses one day school.

March 22-1927 Tues S.E. wind  
10-30 am I and my Ford pick up Earl Schultze and we run 20 lines of Silver Sands. Drive home for dinner

PM

|           |        |           |        |
|-----------|--------|-----------|--------|
| 38° 02'   | 61612  | 38° 03'   | 78747  |
| sin 61612 | 61635  | sin 61635 | 78765  |
| cos 78765 | 123247 | cos 78747 | 157512 |
|           | 61620  |           | 78756  |

38° 02 1/2'

sin 61623 x 83.80 = 51.64

cos 78756 x 83.80 = 66.00

Nick and I go back @ 1-30 PM - snow storm - back to work @ 4 PM

4. Hours for Nick  
1/4 Cor so rid 24 = 30 of spike

Oak GN 59° 02' W 81.20  
OP 88 64° 48' W 91.70 To Spats this up.



26

March 23-1927 Wed

all am in Jenkins  
PM. Ramsey and Mike dig out Mink  
I take bus woman to see at Rosen-  
field Pequot

March 24-1927 Thurs

Earl Schultz takes his lunch and  
we L. @ 10-30 AM.

I go home to dinner Earl eats his lunch  
in 30 minutes on line and cuts brush  
I get life fixed 50x to Hjelmner also  
and go back in PM to help Earl

Over Red Spike 183.80 E of  $\frac{1}{4}$  being  
Borch Co on E side of my perspective  
66 ft thick Focus East on line  
then  $38^{\circ}02' \frac{1}{2}$  L and run to Lake @  $90^{\circ}$   
15 street line @  $225^{\circ}$  corner west  
300 fph 365 Hat red spike  
@ 430 SP line about 2 ft R. @ 443 Borch  
478 edge of river

Then chain N W by along shore to look  
for a good place for a 133 ft street beam  
down @ 150 to 250 is small  
200 to 233 is probably best place

Run E side of street

Beg @ spike Hat 183.8 E of  $\frac{1}{4}$  Run  
N  $38^{\circ}$  W (E Line of Sec 24 as Meridian)  
@ 200-233-300 spike Hat on line @ 450

bottom of 200 foot sag in ground  
600-900-1200-1500 spikes not  
on line 1513.10 ft Hat = 30 ft spike  
Horn @ 6-33 = 7 Horn x 33 m.

Mar 25-1927 Friday Snow down now

" 26 " Sat

" 27 " Sunday



Mar 28-1927 Monday

Silver  
Sands

25.8.85  
25.1.85

all forenoon in Jenkins

Earl schultze and I LI @ 1-00 PM.

I go back and get Reed LI @ 4.08 PM

Town 1513.10 Continue N 38° W 1800-2100

slakes 2315 bottom of 300 foot sag  
2358 spike Temp stick cor +33 = 2391

spike Hub Temp stick cor 2400 stake +

124 = 2524 spike Hub + 126 = 2650 Hub

spike Temp APT Hornet 6.40 PM 5<sup>th</sup> 4<sup>th</sup> 0<sup>th</sup>

March 29-1927 Tues Earl & I LI

@ 10.00 AM Earl takes his lunch

Town Hub 2358 Turn 90° and run

N 52° E on to side Temp stick @ 1162

road 142.5 spike hub + 157.5 = 300.0

387 stake 2 ft L of stump 'A' @ 425 bottom

of marsh 4 x sticks 30 N 50 @ 473.8 spike

488.1 spike Hub on sea wall 3 ft from back

543 edge of ice in Hay Lake

go back Town Hub 2650 turn 38° N

and run north on E side of 60 ft

Mike cuts line while I go home to

drives at Jenkins @ 1-15 PM.

PM

I go to Pequot pay 2448 fuel check

Reed and I LI @ 4.00 Half Earl

Town 2650 run North 234.8 spike Hub 300.

348.3 spike 340 cross road NW-SE

355 end road, E-W 550 spike Hub

We then park liant in and ch

From 1/4 on W side of sec 24-137-29

East 300-600-

Ben Wagner and Gustafson

come and I show them over the place

while Reed and Earl cut brush till

6-30 Home about 7 PM

Mike works 8 Hours 0.00

John W. Cress



(28) Silver Sands

March 30-31- Earl and I on Rylin  
rath with Hewitt & E. Heath and  
Red Bowman.

April 1-1927 Mike and I on Rylin

April 2nd 1927 Sat

Earl (Mike) Los home @ 9:15 walks  
to Jenkins with his lunch. I also  
take lunch and out @ 9:35. Beg @ So  
side of Silver Sands.

Bag @ Hub on E side of street 183.8  
E of 1/4 Cor and on Sec line. Continue  
our line @ 90° to point and run N 52° E  
(See 985). @ 355

spike in slump  
c. on road @ 300 spike @ 365  
spike under X @ 425.9 spike @ 430.  
E of 8" SP on line at bar (top leaves  
out of line) @ 442. Edge of Birch @ 475.  
edge of iron. Hay Lake. 533.10 - 537.5 -  
557.5 spikes in ice Run to beach and @  
469 E set spike in sand @ 520 spike on  
ice. Ent drive in 30 minutes.  
PM

set spike on Birch 3 ft back

Chain in ice N 38° W 200.2 - 233.3 spikes

Then from spike 200.2 and 233.3 set  
west @ 15 ft. in chain 60 ft and set  
spike in snow. Set Str Cors by chain  
N and West.

X on ice at spike 520. run  
N 38° W @ 100.10 - 200.2 - 233.3 - spike on ice  
+ 100.1 - 333.9 spike at water edge set  
30° spike and 1X 4 board stake in sand Uj  
433.5 - Water 3' R + 16.6 = 450.1 Hub. ball sth  
533.6 - " 5' - 633.7 spikes Water 5' R  
733.8 " 6' - 833.9 " 9'  
934.0 " 6' - 1034.1 " 7'  
1133.0 Tall stake on line

John W. Curo



1134.2 spikes and 1X4 board stakes nkd.  
 1134.2 water 5'R. - 1234.3 water 5'R  
 1334.4 " 3 " - 1434.5 " 2 "  
 1333.0 tall stake on line,  $\approx 38^\circ W$ .  
 1534.6 water 4'R. Then Big Lat fork for Reason  
 +125.2 =  
 1659.8 spike with water 12'R. 461  
 1759.9 water 10'R. 1860.0 water 12'R 17  
 1960.1 " 3'R. = End of Angle Pt NW. 48

We then walk back get  $\pi$  and set  
 30+ spikes and use pole for pt for line dot  
 stakes.  $\pi$  over spike in sand 461 E run  
 $\approx 68^\circ W$  100.1 Then  $90^\circ$  West 13. ft set spike 3 ft  
 from bank on low shore leaving lat line 448.  
 From 460 E run  $\approx 38^\circ W$  - 100.1 - 200.2 spk  
 233.3 spk for block corner on green 3 ft  
 from bank low shore 45 ft to water edge

Then from p on i 520 NE run  
 $\approx 38^\circ W$  setting liaunt on spikes as on pg  
 86. turn  $90^\circ$  and throw in points for stakes  
 set spikes on the bank  $552^\circ W$  at spikes  
 333.4 turn  $90^\circ$  L 35.5 spikes on bank 10 ft  
 Hc and 3 ft from bank. water R. 87.5. Low  
 433.5 L 34.2 Rh 15 ft Hc spikes 6 ft bank  
 533.6 L 31.2 " 15 " " " 5 " " " 490.5  
 633.7 L 35.8 " 15 " " " 7 " " " 485.5  
 733.8 L 32.0 " 15 " " " 7 " " " 489.5  
 833.9 L 34.2 " 15 " " " 5 " " " 487.5  
 934.0 L 40. " 15 " " " 10 " " " 481.2  
 1034.1 L 44. " 18 " " " 8 " " " 478.  
 1134.2 L 46.7 " 20 " " " 7 " " " 475.5  
 1234.3 L 50. " 20 " " " 8 " " " 472.3  
 1334.4 L 53.5 " 20 " " " 12. " Round top  
 1434.5 L 53.2 " 20 " " " 7 " to Bank  
 1534.6 L 45. " 18 " " " 3 "

Line up spikes on sand with liaunt 400 ft  
 20 East Dist @ 6-10 Horn @ 6.30 PM.

Make also dinner in 30 minutes get me  
 2.45  
 5.30 Nils 7 Hrs  
 7.75 30-out for dinner 45 minutes  
 7.45

James W. Carr



30

425.9

11.7

437.2

53.8

383.4

Apr 3-1927 Sunday

" 4 in office

" 5 " "

" 6 " "

" 7 " "

" 8 " " plat up vs meanline

" 9 Sat Reed-Earl

Ink by Lin

" 10-1927 Sunday

" 11-1927 Monday all AM in office  
PM

Earl and I @ 1-15 PM Drive to Silver Sands

From spike on sea wall 11.3 ft E of spike 425.9  
(See page 86) = 437.2 NE Turn  $53^{\circ} E 100'$

(90') @ 100.1 and 200.2 set stakes up.

2-3 and 1-2. Then line back to 3-4

Then ch SE along beach 152.4 ft to  
spike 754.96 E 1/4 Sec pt 35' W of where  
beach line cuts up of sea wall and  
100 or more west of angle

SE Cor Lot 1 - spike & stake 35 ft from beach

Back 1-2 - spike & stake 10 ft from beach

" 2-3 " " 5 "

" 3-4 " " 5 "

" 4-5

" 5-6

Then to lay out a 33 ft strip on sea line

on N side of platted lots 3 and 2 Beg @ SW

Cor Lot 3 - run  $N 52^{\circ} E 41.85 + 0.12 = 42$

38'

Sin. 6157 into 100 = 162.41

Cosine 78801

Then ch E on sea line  $127.0 + 0.20 = 127.2$  sth on sea line

$\frac{2}{25.44}$  " " " "

and from E - 4 sth run  $N 52^{\circ} E 42.00$  set stakes for cor. to

lots 2-3 - N side SW & SE Cor Lot 1 on N side line, no 33 ft

road runs to only 4 ft.

Try  $53.60 + .20 = 53.80$  and  $162.42 + .20 = 162.6$

So side Lot 1 is 204.3 Then 42.0 T.

Appendix Diagram 8000 ft Lot 4 is 68.2

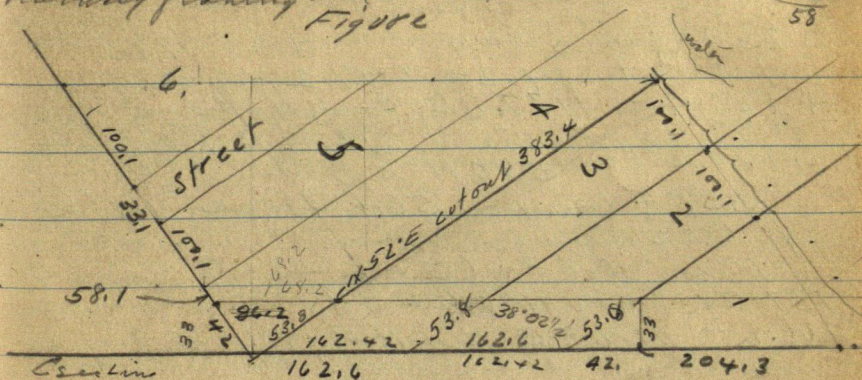
Home at 7-05 = 5 PM



April 12-1927 Tues Silver Sands  
Cloudy - Cool. I call Ben Wagoner @  
8. am and he may meet Earl and I at  
Silver Sands some time tonight  
I L. Jenkins @ 9.30 am Find Earl and  
Raimsey fishing and wait for them

85

Cloudy - Cool. I call Ben Wagner @  
8.00 and he may meet Earl and I at  
Silver Sands some time tonight  
I'll join him @ 9-30 AM Find Earl and  
Ramsey fishing and wait for them



LY Schultze Res @ 10-10 17m

Earl and I set stakes along west side  
of Silver Sands lots 100.1 &c

Then go to Lake shore set X on spike in sand NE cor L-4 19 - which is 19-20

125.2 long Dr Porenfild T on  
spike 1659.8 Turn 90° to wall

spike 1639.8 1mm 90.11 w/cm

5 set spike on branch 39.5 Left 8 ft body  
20 ft 1st set plate 19-20

Town 1759.9 BSS38'E on spides on  
 sand beach Transit telescope and

sand beach Transit telescope and  
5 turn 90° L 33. It set stake bet 20-21

30.5 km 90°L 33. ft set stake Oct 20-21  
at or 10 ft from beach 13h 18 ft. H<sub>2</sub>

#1860 L26.5 ft sth bet 21-22- 49+5 ft  
8 ft from btm 12 ft. ki L26 11-45-walk to cen

8 ft from truck 12 PM. L.C. 11-43, wind 15 mph  
 home to drive @ 12-10 PM. L.C.

One Hour for dinner PM @

$\frac{1}{4}$  on W. side 24 Oct

6" oak post fence corner  $\frac{1}{2}$  for  $\frac{1}{4}$  cor

SPTN about 40' W 33.9 } 4 points lost

SP 85 " 40' W 30.4) Sprat on trees



90

56.1

1177.6

(32)

775.0

277.2

1049.2

$$\begin{array}{r} 46.1 \\ 1111.5 \\ \hline \end{array}$$

1/4 ch E on E sec 24-137-28

300-600 @ 712.7 spike 2.58 N of fence post

JP 85 43°10'W 39.70' T. spot at base

JP 95 51°35'E 18.65

@ 765 E, E galv and wood NE-SW

@ 750 slab 15 ft W of wood + 25 = 775 slk

E of wood + 274.2 = 1049.2 Hub spike

+ 128.4 = 1177.6 E oak Hub on E side

1049.2 of slink 14.4 N of spike

1177.6

550 N set March 29-1985

550 + 14.4 = 564.4 N and 1177.6 E

9/4 cor 2 1/4 N of fence E-W.

From Hub on line E-W - E sec 24

137-28 being 1177.6 E 7 1/4 cor chain west

66.1 = 1111.5 E set Hub on W side of st

From Hub on E side of st on E-W &amp; 1177.6 E

Ch E 373.1-1550.7 E T. spike under

N-S fence From 1550.7 E ch W

250 ft W at 10 ft N of small lake 100 yds

E-W Then from 250 W ch across lake

80 @ 8 ft N edge the water @ 115 ft edge @

1225 - &amp; galv dry slab

Ch 50 on E side of st 134.2 T. 5" Birch

At 1550.7 + 5.1 = 1555.8 E on E-W

To over 1555.8 E ch E 99.8 to 1655.6 E

being 478 E of slink on spike, in a small

1655.6 ch E 4.4 about 1/2 spike in line

with carb. post fence post 3 ft W of water

Hub: Hub 1655.6 is 0.8 N of fence = 100.56

From 1655.6 ch S 5°30'E 100.10 spike 200.2 ft

Hub 1655.60 E T. 6" oak S 23°23'W 8.65 to 20

&amp; spike in flat spot of base.

6" Fence post SE 1.08 ft

Run S 5°30'E 240.3 white Birch Hub

N side of Canal

Lv @ 6-55 from @ 7-13 PM = 241.42 Sec 983.

chgd To Sine = 241.42

5°30' sin .0958 in 100

cos .0046 in 100

5°30' tan .0958 96.3



|                   |          |        |        |
|-------------------|----------|--------|--------|
| 300.0             | 1255.8   | 1177.6 | 91     |
| <del>226.9</del>  | 99.6     | 373.1  |        |
| <del>1177.1</del> | 1355.4 E | 1550.7 | 1950.1 |
| 1177.6            | 1177.6   | 1555.8 | 1191   |
| 1250.7            | 277.8    | 1177.6 | 2060.2 |
| 1555.8            | 1950.1   | 378.12 |        |
| 73.1              | 1190.1   | 9.9.8  |        |
| 99.8              | 9260.2   | 478.0  |        |
| 1655.6            |          |        |        |

April 13 - 1927 Wed.

L. Jenkins 8-45 Ground axes at schultze  
pick up Earl and drive to Silver Sands  
cut through road to Lake Tower ship  
See p 89 and  
The spike 1960.1 is in edge of water Hay Lake  
we set back 100.1 ft to 1850.0 then ch  
N 38° W 90.1 ft 1 ft 10 ft 1960.10  
Then 1950.10 run. Cause stake to be set on sand  
over lake about 40 ft N then find 90° L  
31 ft stake 3 ft from bank 6 ft 1 ft  
and another stake 41 ft L. Then stake over  
lake run 31 L where find T right so on stake 31  
and ch N 38° W 10 ft then 2 ft L (33 L)  
set stake for cor to lake 22-23.

From Hut on line 1950.10 run 31 L 10 N W  
and 2 L. set stake for 22-23.

From 1950.10 run 31 L then N 38° W 110.1 ft.  
2060.2 which is still 31 L. and at water's  
edge then 10 L set stake in sand @ 43 L + 31 =  
74 L stake 2060.2 = cor to lake 23-24 on  
low sea wall 2 ft up and 8 ft bank

From 2060.2 N and 41 W continue N 38°  
100.1 ft to 2140.3 and 5 ft from water then L  
52 + 41 = 93 L stake on low sea wall 5 ft back  
2 ft 1 ft = cor to lake 24-25

At 1 ft on road 2260.14 and 41 L on sand  
30 ft from water run L. 34 (+ 41) = 75 L  
set stake on top of bank 10 ft back for lake  
25-26 cor to stake 25-26 is in line with old  
road SW. and also about 95 ft so of one corner  
Line E-W or N 52° E L @ 11.45 from at 12.01

5:30' Sun. 095° 8' in 100  
Corin = 00.46 in 100  
Thy 0963



(34) Silver Sands

April 13-1927 Continued P.M. Wed  
 we chain E side of street  $\approx 38^\circ$  W setting  
 stakes to mark lot corners all 100.1 ft except  
 Lot 19 which is 125.2 set 12-13, 13-14,  
 14-15, 15-16, 16-17, 17-18, 18-19, 19-20  
 20-21, 21-22, 22-23, 23-24, 24-25, 25-26,  
 26 and street + 33.1 = N side of street  
 Hub @ st corner and stake marked 27-street  
 From N side of st it is (256.6) to R. Pt.  
 To the S. side of our 33 ft it is  
 now 2.0 ft further now we walk  $\approx 32^\circ$   
 along so side of st setting old poles  
 2.0 ft N to plan line

See Page 85-

Spikes 142.5 set L 2.00 FT to T.P. & L. in  
 473.8 " L 2.00 " " " "  
 488.0 " L 2.00

Tower 488. BS.  $552^\circ$  W 107.7  
 Stake Lot 26-25 bears  $S 14^\circ 50' E$  Van reads  
 $7^\circ 15'$  SW Angle reads  $66^\circ 50' - 107.7$  FT  
 From cor. to 25-26 ch  $\approx 14^\circ 50' W$  60.10 ft chgd  
 Pt for Blk Co 47.6 from T. chgd  
 Set another stake 67.7 from cor. to 25-26 in  
 40 ft from T. OK. For Lot 26.  
 From NW cor Lot 26 ch  $N 52^\circ E$  on corner  
 of 33 ft street @ 142.5 spike on hill + 174.5  
 = 317.0 To Hub under T then  $90^\circ L$  33.1 ft  
 To SEC. Lot 27. Then continue a  
 line of stakes up west side of small lake  
 in park T @ 317.0 Look  $N 52^\circ E$  Turn  
 $270^\circ 20' R$  and run 80.0 FT to AP S side of  
 and N side of Lot 26. Thence  $N 52^\circ E$  84.1  
 To NE cor Lot 26. We then set Hub 10 ft W of  
 317.0 To 307. E. correct so line of 200  
 foot Lot 1. foot 5. OK. From 117.6 E chs. 200.2  
 5 ft for SW cor Big Lot Then 100.1 To 300.3 S side of  
 Lot cor Then South 264. To AP on so side of st  
 Quit 6.50 ft from 7.01 P.M.

Map & Aunt Effie's Survey, Thoms

John W. Curo



35

100.37  
201.12  
40.1  
241.42

93

April 15-1927 Friday

Cor first Call East @ 7-30 L.R.

9.45 at Silver Sands 10.03 AM

Firm 7655.6 E (P790) @ 4.55° 30' E

100.46 + 10 = 100.56 - 100.52. ~~40.00 + 3.9~~

201.12 + 40.3 = 241.42 2-4 Cor. 40' L.R.

@ 300 + 1.68 = 301.68 but BS N 5° 30' W and

run West

Town Hot 201.12 Take small lake

N 27° W 67

N 32° W 90

N 40° W 40

N 67° W 34

N 80° W 95

N 73° W 127

N 65° W 125

N 53° W 125

N 42° W 128

N 33° W 163

N 28° W 170

N 22° W 165

N 18° W 120

N

Town 301.38 + 3 = 301.68  
run West across small  
lake and set picket line which we cut  
out for 50 rods of L.R.

NE Cor Lot 26 bears S 16° 22' E 238.8 ft  
Rain drives us in before noon  
Work 2. Hours.

5° 30' Sin = 9954.

.40 = 40.18 + .0.10 = 40.38

100 = 100.46 + 1 = 100.56

200 = 200.92 + 2 = 201.12

240 = 241.10 + 3 = 241.40

300 = 301.38 + 3 = 301.68

23° 10'

Sin 3934

cos 91936 X 40 = 36.77

" X 67.9 = 62.24 } = 99.01



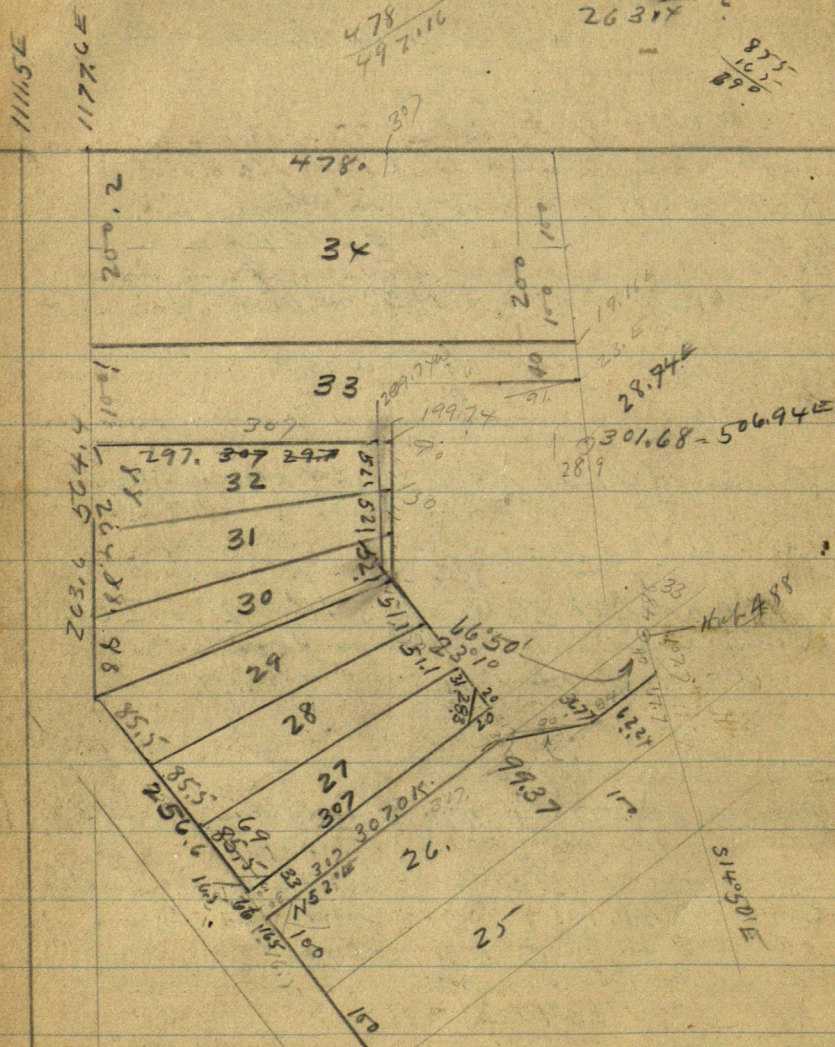
87.9 1303 30  
 209.7 2144.2

307 87.8  
 3263.3

87.8  
 269.7 87.8  
 2631.8

19.16  
 478  
 497.16

87.8  
 263.3  
 890





Silver Sands

93

April 16 - 1927 To Beacon

" 17 Early Sunday Alma Reed & I  
15 N Whitefish Lk Palmer Bay

" 18 Palmer Bay I am 56 Today  
Mother's Birthday Party

Apr 19-20-21 - on Palmer work

April 22-1927 Friday Teachers meeting

Reed and I Lv @ 9-50 Pick up Earl

Reed goes fishing with Barnard

Earl and I walk on Silver Sands

Hut 301.68 S. ch west 199.74 Hut side hill  
90° S.

Hut 301.68 on west @ 20 wals @ 130.3 Ht on  
Pitch NE-SW 12 ft from water

199.74 Hut Cut lots of brush and ch  
Home for dinner 12-30 PM only Reed  
P.M. before our dinner

Lv @ 1-40 ~~Can't find~~ Reed  
grind axes at schultz's then  
on Silver Sands Cut ~~60~~ brush  
around west side of lake

Ht Hut 301.68 on lake on west 209.74

set Hut line 90° and ch north

52.1 Ht Hut 31-32 at 104.2 Ht Hut 31-32

30-31 - then angle Left and ch 52.1 to cor hut  
Ltr - 29-30.

at PE cor Ltr 27 ch 90° L to sheet 51.1 51.1

51.1 to Ltr 29-30 Then run N West of lake

To cor Hut 29-30 <sup>30-31 31-32</sup> run N 51° 25' E 835

ft to Hut on so Bay Ltr ~~33~~ 33 at 1

pt 144.2 ft west of Hut 301.68

Then continue ~

N 51° 25' E 63+ 63.8 To red

flag - Angle pt on road 1 Ltr 33

Thence N 77° E

on road Ltr 33 - 91.0 ft

to PE cor Ltr 33 on lake shore

.94552 = Sine 19° Ltr 7.20

Home 735-



13

April 23-1927 Sat all day in Spec  
 " 24 Sunday Recd + I at Piney Ridge  
 " 25 Earl and I at Piney Ridge

April 26-1927 Tues All day in  
Office Plat of Silver Sands  
Lat 3.3. Figuring = 13°

Ex 3.3.  $\angle$  Figuring =  $13^\circ$

$577^\circ W 91 ft$   $\sin 2250 \times 91 = 20.475 \times 40 = 60.5$   
 $\cos 97437$

$$\begin{array}{r} 478.00 \\ 28.90 \\ \hline 506.90 \text{ E} \end{array}$$
$$\begin{array}{r} 506.9 \\ - 144.2 \\ \hline 362.7 \end{array}$$

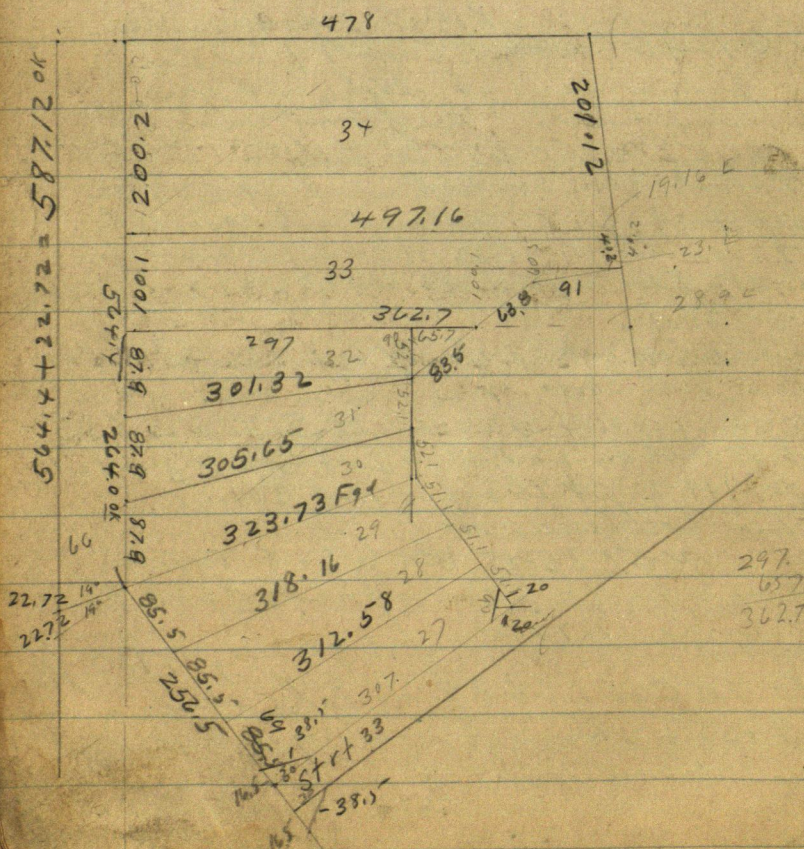
478.00

$$\begin{array}{r} 478.00 \\ 289 \\ \hline 506.9 \end{array}$$

362.7  
144.2

506.9

506.9





Apr 27-1927 In Apr Figure

Length of Lot 27 to 29 - Try But 29-30  $\frac{51.1}{153.3} H$

$$307 \text{ mls } 108 = .3355 = \text{Tang } 18^{\circ} 30'$$

$$\begin{array}{r} 855 \\ 256.5 \\ \hline 256.5 \\ 2000 \end{array} \quad \begin{array}{r} 256.3 \\ 153.3 \\ \hline 103.0 \end{array}$$

Ed Crosby telephones "No hurry for survey till walking goes down 10 days or so" I pay Mathis \$16.00 for two calls.

$$\begin{array}{r} 256.5 \\ 153.3 \\ \hline 103.2 \end{array}$$

$$\begin{array}{r} 18^{\circ} 30' \\ \text{Sine } 3173 \\ \text{Cos } 94832 \end{array}$$

$$X \text{ mls } 307 = 323.73$$

$$\frac{307.00}{316.73} 558$$

$$\begin{array}{r} 307 \\ 5.58 \end{array}$$

$$312.58 +$$

$$318.16 - 2 \text{ O.K.}$$

$$5.58$$

$$323.74$$

$$\begin{array}{r} 521 \\ 2 \\ \hline 1042 \end{array}$$

$$88$$

$$\begin{array}{r} 176 \\ 104 \end{array}$$

$$297 \text{ mls } 72 = 2424.72 H = 18^{\circ} 40'$$

$$.2424 = 18^{\circ} 40' \text{ Sin } 97169 \text{ mls } 297 =$$

April 28-1927 platting May 3-1926 platting

$$38^{\circ} \text{ Tang} = 781.3$$

$$100.1 - 200.2 - 233.3 - 333.4 - 433.5 - 533.6$$

$$633.7 - 733.8 - 833.9 - 934.0 - 1034.1 - 1134.2$$

$$1234.3 - 1334.4 - 1434.5 - 1534.6 \text{ Lts } 18-19 + 125.2 =$$

$$1659.8 - 1759.9 - 1860 - 1960.1 - 2060.2 - 2160.3 - 2260.4$$

$$2360.5 \text{ So mls } 24 + 33.1 = 2393.6 \text{ mls } 24$$

$$200.2 + 100.1 +$$

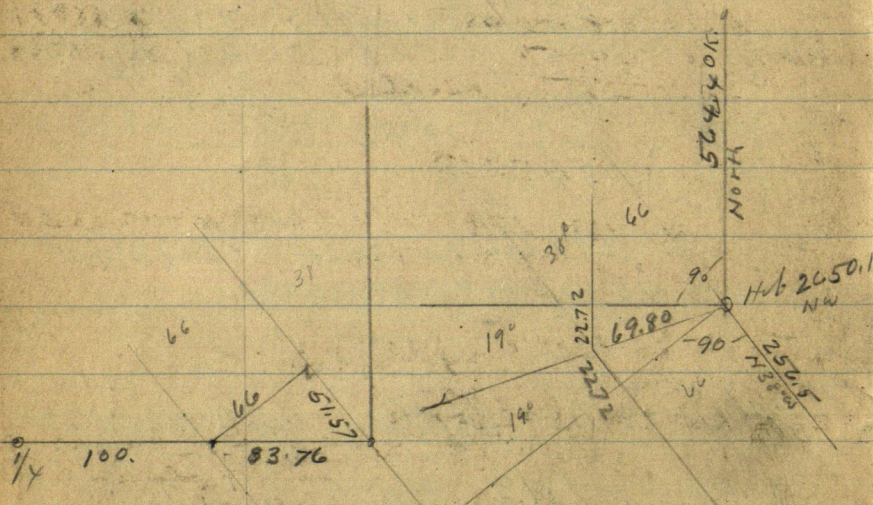
May 4



May 4-1927

$19^\circ$   
 $\text{Sine } 3256 \times$   
 $\text{Cosine } 9755 \times 66 = 69.80$   
 $\text{Tang } 8443 \times 66 = 22.72$

$38^\circ$   
 $\text{Sine } 6157$   
 $\text{Cosine } 7880 \times 83.76 = 66.00$   
 $\text{Tang } 7813 \times 66 = 51.57$



Figuring: West side of sheet

$2650.1 + 22.72 = 2672.82 - 51.57 =$   
 Leaves 2621.25 for Total W Side of st  
 $\frac{1}{4}$  A.P. + 587.12 = 3208.37

May 12-1927 on plat
 

|     |
|-----|
| 307 |
| 30  |
| 277 |

|     |
|-----|
| 307 |
| 20  |
| 287 |
| 30  |
| 257 |

May 13-1927 Friday still figuring



May-13-1927 Could Figuring

99

Average. Sec 24-137-29

using US chain n-s.

my chain E-W

1683.17

1111.50

571.67

$$1111.5 \times 1320 = 1467180.0 \text{ sq ft by } 43560 = 33.68182 \text{ acres}$$

$$\text{Triangle} = 732.88 \times 571.67 = 4189655096$$

$$\text{by } 2 = 2094827548 \text{ sq ft } 4.80906$$

OK. 38.49

33.68182

Lot 4 = 58.50 US

480906

not platted 38.50

38.49088

20.00 platted

Lot 6 = 4490 US.

$$370 + 1412188 = 1782.88 \times 2 = 891.44 \times 1320 = 1176700.80 \text{ sq ft.}$$

Figuring Lot Roughly viz

$$587 \times 600 = 352200$$

$$2621 \times 600 = 1572600$$

$$1924800 \text{ sq ft} = 44.20 \text{ acres}$$

about

1111.5 chd

(4)

587.2

90° about

Nat: we will allow them their full acreage and then give 4.2 acres

732.88

68.

1111.5

Fed 1683.17

132005 = 1313.17 Fed

(5)

370

Sec 10

(6)

over



100  
July 16-1927 Saturday  
Alma - I and Ben A Wagner goes  
in Ben's car to Deloit Lakes to  
square up title to Silver Sands lands

We meet P.L. Klyver Receiver  
First Natl Bank and his lawyer  
W.D. Corman. The land is in  
the name of S.V. Weiser who was Pres  
of the Fst National Bk - Failed  
The Bank has deeds from Weiser  
but will not file them as it would  
take a court procedure to sell each  
lot

It is finally arranged that I  
will go home and make a plat to be  
filed by S.V. Weiser and  
Edna May Weiser his wife of  
Becker County - Minn.

Alma - We go by way of  
Park Rapids and return via Beamed  
rain all day.

Alma - Reed and I are camped  
with I.G. and Jack Mork on White  
Fish Lake. Lew Johnson cottage

July 27-1927  
on map.

July 28-1927 sent plat  
to Deloit for signature



2015  
66

① Ryan 1939

Apr 13  
1939

Sec 24-137-29

101

12 090

12 090

Note Carl Ryan and

13 2990

6 64.95

want their lines To Run East

thru So half of Sec 24-137-29

they want to pay only \$5 for a  
"Rough line"

I will help them but NO 'rough  
line" I may need more notes and  
Martha-Harald and I go to Wadena

April 14-1939. Dr Button

wants a survey at Hatch - I have no T

Bob Dahmer says - "help us the Co  
T" "take it" all PM at Hatch in  
Button Survey. Home to Suckling  
for note

Apr 15-1939. Harald and I to

Pegmat - Chick Everhart pays me

\$12 in full. we oil the oil Co

Tearose's Buff - Buff

50¢ to Chick Anderson for  
grinding 2 axes  
PM

13-14-23-24-137-29

See Book 164 - Page 42 where my old

Notes say 60° spike 2 ft W of W

Wheel track N-S Road for Cox

8' Twp. N 85° 37' E 19.95 to spike

sticks out 1.1 mch

NW Cor post of fence N 88° 32' E 33.25

Post leans slightly East

Oak Fence post S 29° 30' E 36.90 9 ft PM

Cracked 3" WP leans SE S 63° 10' W 50.65

OVER



102 April 15-1939 cont'd (2)  
Ryan-Johnson

13-14-23-24-137-29-Teer cont'd  
NP 15N 17°58'E 132.7 spat at base  
also spat 3 ft up  
Oak 3 1/2" N 79°47'E 37.9 spat at base  
Oak 5N 44°30'W 111.70 spat at base also 3' up  
we find the 15" NP and 3 1/2" oak -  
from which we find the 60° spike  
Pull up spike and put in the place  
RR. Spike Tree Co. set tall flag

Drive 1/2 mile to where my old notes  
Book 148 - This Book Page 65-  
South Random But 23-24-  
25.10 E. random 301-378.3 Hut spike 60°  
900-1200 and more see Page 65  
2652.7 1/4 sec E 24.10 P969  
2704.3 Hut 40° spike

We find old Hut 20° spike and put in  
NW BTS Page 66 also and Hut  
2991.5 NW BTS pt 66- Look for 3787.8 N. pin

Buff r Buff X over 2991.5 BS in  
2704.3 P966 and in  
South on old random  
At 2652.78 1/4 sec E 24.10 P969 OK  
P963 x 68- 2652.7) in 24.10 (-.009085 +  
2991.55 gauss E 27.18 OK.  
set RR. spike on corner in

Midnight: Ilo and Frank call  
me into 1. water

Apr 16-1939 Sunday All day at  
Sinking Stone. 1 to 3 PM Ilo  
+ Frank. They go back to plane  
Hut old at Bluff Kyllings tane







104  
104

Ryan  
Johnson.

④ 24-137-29

April 20-1939

Harald and Wilfred Miller L for  
Gull Lake - I will work alone  
Carl Ryan and his car pick up  
young Miller and his lunch Leonard  
9 AM. L Jenkins call on  
Johnson who will help - Buff X our  
Hut 3800 ~~CHS 179.35~~ to 3979.05

|             |   |         |   |         |
|-------------|---|---------|---|---------|
| 5305.40     | - | 2652.70 | - | 1326.35 |
| 2652.70     |   | 3800    |   | 300.00  |
| 1326.35     |   | 179.05  |   | 179.05  |
| 3979.05     |   | 3979.05 |   | 120.95  |
| 3800 - 4100 |   |         |   |         |

4400 - 4700 - 30.3 = 4669.7<sup>HA</sup>

5000 - 155.2 = 4844.8 Hut

5000 pin - 95.3 =

4904.70 Hut on S. brink  
of hill All Hubs = RR Spikes  
5000 pin + about 60

all Fend post E 29/V

5300 - 108.5 = 5191.5 S-

Hut 12 ft N of low sea wall  
(10 ft N of slake line)

Continued on Pg 107



①

105

Frank and Chas Kamberling

Nov 9-1930 Sunday

all day on House Survey

7-pm. Home to Jenkins

Frank Kamberling calls up and

I promise to come out at 8 am tomorrow

Nov 10-1930 Monday

8-30 am Reed and I drive to Kamberling

Resort Meet Chas and Frank

who want

Rough Survey

Reed and I drive back to Jenkins

I search field survey records

Drive to Peguot Bay 8/10 To Peguot

Rural Tel Co. \$5. To Ben Wagner

Dinner at home in Jenkins

12-30 Drive to Kamberling

Frank &amp; Chas Kamberling, Carl

Schultz - Reed &amp; I

Rough ch

Beg @ 8 1/16 ch

East on 20 mile Cor Lot 3-

@ 735 &amp; old road

$$\begin{array}{r} 15 \\ 90 \\ \hline 90 \\ 990 \end{array}$$

$$\begin{array}{r} 75 \\ 665 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 1329.90 \\ 6649 \end{array}$$



106

(1)

Park Region Timber Co  
Brainerd Minn - Sullivan -  
Sec 13-137-29 Zeman.  
Feb 21st 1936-

1- PM. Reed and I



⑤

107

Continued From  
Page 104

April 20-1939 continued

Over Hat 5191.5 on

True N-S Line 113.90 ft

North of point for SW Cor

Sec 24-137-29 in lake

90° East Set Hat over

Lake about 800 ft E Then

From same Hat 5191.5 Run

N 83° E @ 100 - Low shore line

4 (N R. S) @ 200 same

@ 270 Shore line 9 ft to

@ 288 end of (P. 1)

@ 300 Shore line 4 ft to

@ 300 + 56.9 = 356.9 Hat <sup>6 to</sup> 13 ft

S 84° 03' E 201.4 - 8 to shore

S 71° E 69.80 to Hat over lake

From 69.80 Continue

S 71° E 176.25



⑥

Apr 20-1939 contd

567.40' E @ 300 Hk  
 @ 176.25 shore 7 ft R.  
 @ 300 shore 4 ft R.

Ted goes Home @ 5:40

Carl Ryan returns

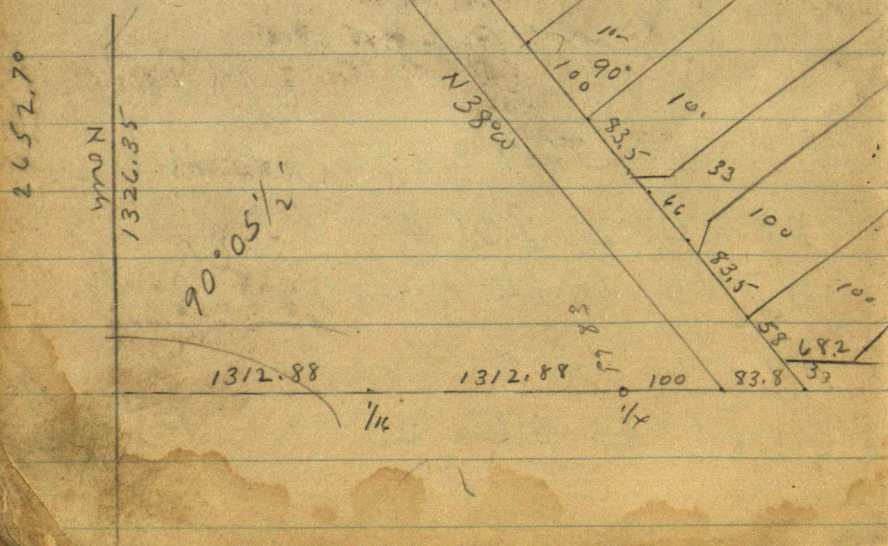
Leonard - Miller 76'  
 and I share out at 6.12

Cloudy. Carl Ryan and  
 his car bring Leonard Miller  
 and I home to Jenkins at 6.58 PM  
 Note: Carl Ryan and his car made  
 4 trips out and back to-day

$$N 83^{\circ} E \ 356.9 = 7^{\circ}$$

$$\sin 1219 \times 356.9 = 43.51 N =$$

$$\cos 99255 \times 356.9 =$$





Apr 21-1939

109

8-AM. Harold's car and I  
pick up Wilfred and Leonard Miller  
Two Transits. Harold + Wilfred  
run  $S\ 1/16$  - Leonard and I walk so  
to lake Carl Ryan and two buyers  
are here

### Figuring Lake Shore

We decide to let the Cooks shore wait  
and all work on  $S\ 1/16$  line.

Buff  $\pi$  over  $S\ 1/16$  Cor = Hub  
3979.055. Focus on corrected Hub  
Turn SE angle =  $S\ 89^{\circ}51'E$  run  
Easily on true  $1/16$  line.

33.00 set. In  $2 \times 10"$  pipe driven  
flush with ground for E Bdry of  
roadway - Imp Red flag.

@ Hub 3800 on line run line ch  $90^{\circ}E$   
33 ft to RR spike and set flag on E  
bdry W' road - Fertilizer

Run the  $S\ 1/16$  line E to on  
across west shore of Silver Sands  
about 10 N E of W Bdry of lot line  
set Hub RR spike and

Quit @ 12-10 PM

Harold and I take Miller Beer home  
PM.

Dinner at 1-PM.

1326.35

2652.70

3979.05

5305.40 OK

5191.50

113.90



110

June 14-1939

Figuring

N 83° E 356.9

Sine  $99255 \times 356.9 = 354.24$  E S<sub>6</sub> 1Cos  $1219 \times 356.9 = 43.51$  N

Sta 1 Run S 84° 08' E 201.4 To Sta 2

Sine  $99462 \times 201.4 = 200.32$  ECos  $10363 \times 201.4 = 20.87$  S

5

Sta 2 Run S 71° E 69.8 To Sta 3

Sine  $94552 \times 69.8 = 66.00$  ECos  $3256 \times 69.8 = 22.73$  S

From Sta 3 Run S 71° E 176.25 To Sta 4

Sine  $94552 \times 176.25 = 166.65$  ECos  $3256 \times 176.25 = 57.39$  S

④ S 67° 40' E 300 To Sta 5

Sine  $92499$ Cos  $3800$  $22^\circ 20' \text{ Cat} = 2.4342 \times 57.39 = 139.7$ 

22° 20

Sine  $3800 \times$ Cos  $92499 \times 139.7 = 151.03$ 

From Sta 4 Run S 67° 40' E 151.03

Sine  $3800 \times 151.03$ 

57

Cos  $92499 \times 151.03 =$ 

137.70 E 137.8

 $137.8 \times 38 =$  $149.0 \times 38 = 56.62$  OK E of Sta

Sta 5 is 925 E of Sta 4

Sta 5 is 925 E of Sta 4

Tring  $0.5 \frac{1}{2}'$   $0016 \times 925 = 1.28$  S



Flog @ 86 5191.5 S. on line

see line to 86 4

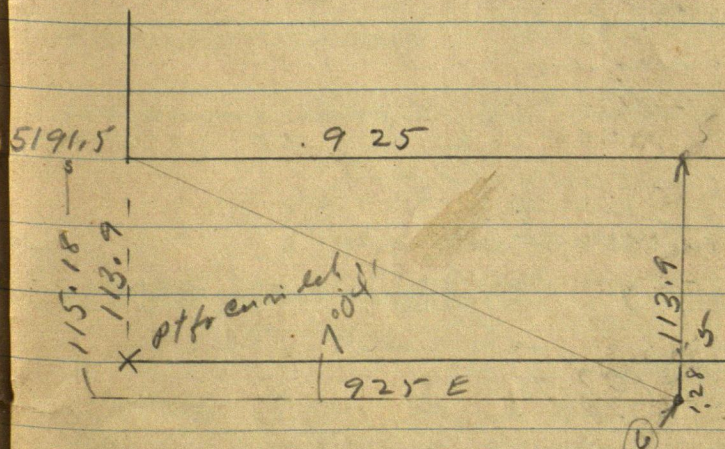
Walk E to 86 5

Run S  $67^{\circ}40'E$  149.0 to 86 5

Then South 1.28 to 86 6 on

True EW E

S



$$925) 115.18 = 0.1245 = 7^{\circ}04'$$

Figure till 9 am

Pick up Wilfred and

Miller and Harold (P I 61) John

9-15 Two cars park cars set B stat

@ 5191.5 walk around lake along X

over 176-25 P 7 107 B S N  $71^{\circ}W$  Hub 300

bears S  $67^{\circ}40'E$  149. Hub True East

925 From see car in Lake then by

eye ch 1.28 to set Hub which should

be on line EW from X still @

176.25 Hub 1.28 bears S  $67^{\circ}16'E$  and flog

on lake at 5191.5 bears

N  $85^{\circ}51'W$  X over 1.28



152

2

2474-1939  
✓ Lot 20 to 2 wheel slake - 97.7

19 = 127.0

18 = 101.2

17 = 100.35

16 = 100.10

15 = 100.05

14 = 200.65

13 = old slake

12 = 100.10

11 = 100.35

10 = 100.15 old slake

9 = 150.2

8 = 100.90 } 301.05 - cracked

7 = 009-

6 = 102.70



# Kamberling

Nov 17-1939

Brot from Page

10 PM. Ld Jenkins alone  
in my car Find Frank  
Kamberling and

waiting Beg @  $1\frac{1}{2}$ " iron pump  
rod at car to run.

13-18-19-24-137-28-29

North 3-6-9+50=950 pin + 3--

1250 pin + 58.39

1308.39 set pin

1308.39

1250

Work on line and 58.39

set  $1\frac{1}{4} \times 2.80$  W galv iron pipe

(Furnished by Kamberling)

Turn S to Cor Bet

Ties JPION 50° 20' E 35.71

NP 125 33° 15' E 91.53

To spot at base and another

up 91.03

35.21

50

50

91.53

35.71

Start pocket line W and E  
drum so and set  $1\frac{1}{4} \times 3.70$   
H pipe drum over pump rod  
for line see car

Kamberling gives me ch 820.

cash 34.

Home 1-15 am.



Location Survey

BENA -

FEDERAL DAM.

Aug 1922

LEVEL BOOK

C. J. Bork - Asst. Engr.

148

148



$$\begin{array}{r}
 1313.57 = \pi \\
 \underline{365} \\
 1309.92 \text{ T.P.} \\
 \underline{+ 3.46} \\
 1313.38 \\
 \underline{4.08} \\
 1309.30 = \text{D.M.}
 \end{array}$$



528 feet West of Nile Post=334  
Joo Line





| 0      | +5   | $\pi$   | -5   | Red  | Elev.   |
|--------|------|---------|------|------|---------|
| B.M.   | 4.11 | 1313.41 |      |      | 1309.30 |
| 0 + 00 |      |         |      | 4.9  |         |
| 1      |      |         |      | 4.7  |         |
| 2      |      |         |      | 5.2  |         |
| 3      |      |         |      | 4.2  |         |
| + 25   |      |         |      | 4.4  |         |
| + 45   |      |         |      | 4.7  |         |
| + 70   |      |         |      | 5.4  |         |
| 4      |      |         |      | 5.9  |         |
| + 35   |      |         |      | 6.3  |         |
| + 75   |      |         |      | 3.3  |         |
| 5      |      |         |      | 2.1  |         |
| T.P.   | 2.49 | 1313.62 | 2.28 |      | 1311.13 |
|        |      |         |      | 3.05 |         |
|        |      |         |      | 3.19 |         |
| 6      |      |         |      | 4.6  |         |
| + 50   |      |         |      | 4.5  |         |
| 7      |      |         |      | 4.5  |         |
| 8      |      |         |      | 3.9  |         |



LtQRt.

Sp. in 10" J. Pine 25' Rt. 0+00

L 4.9 L

L 4.7 L

L 5.2 4.6 5.3 4.6 L  
10.0 15 20

L 4.2 L

L 4.4 L

L 4.2 5.7 5.9 6.3  
18 4.7 15 26 30L 5.4 7.2 L  
17L 5.1 2.3 7.8 7.0  
13 5.9 14 24 30L 6.3 7.1 6.3  
19 30L 3.3 4.8 5.3 L  
14 17

L 2.1 L

Top of Rail on Main Line

Top of Rail on Siding

Top of Rail on Stub

L 5.2 4.6 L  
13L 4.8 5.2 5.2 5.4 4.6  
28 26 7 18 28L 5.0 6.0 6.2 5.2 5.4 6.5 5.0  
25 24 19 10 14 21 28L 4.8 5.9 5.7 4.6 4.7 5.9 6.0 4.7 L  
26 24 16 12 3.9 16 19 25 27



| ①    | + S   | $\pi$   | - S  | Rod | Elev.   |
|------|-------|---------|------|-----|---------|
|      |       | 1313.62 |      |     |         |
| 9    |       |         |      | 4.0 |         |
| +50  |       |         |      | 4.2 |         |
| +75  |       |         |      | 4.5 |         |
| 10   |       |         |      | 4.2 |         |
| T.P. | 10.72 | 1319.94 | 4.40 |     | 1309.22 |
| 11   |       |         |      | 9.9 |         |
| 12   |       |         |      | 8.1 |         |
| 13   |       |         |      | 5.0 |         |
| +50  |       |         |      | 3.6 |         |
| 14   |       |         |      | 3.7 |         |
| +50  |       |         |      | 3.4 |         |
| 15   |       |         |      | 2.2 |         |
| 16   |       |         |      | 2.4 |         |
| 17   |       |         |      | 2.7 |         |
| B.M. | 5.28  | 1323.25 | 1.97 |     | 1317.97 |
| 18   |       |         |      |     |         |
| +50  |       |         |      |     |         |
| 19   |       |         |      |     |         |



|     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|--|
| 4.8 | 6.0 | 6.1 | 5.2 |     | 5.1 | 6.1 | 4.7 |  |
| 27  | 25  | 20  | 12  | 4.2 | 15  | 22  | 27  |  |

|   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| 4 | 5.0 | 5.0 | 5.6 | 5.6 | 4.6 |
|   | 15  | 16  | 20  | 24  | 27  |
|   | 4.5 |     |     |     |     |

|   |     |     |     |
|---|-----|-----|-----|
| L | 4.2 | 4.5 | 4.9 |
|   |     | 1.8 | 3.0 |

7 9.9 7

L 8.1 L

✓ ج. ✓

2 3.6 ✓

3.7

4 3. 4 4

1 2.2 1

L 2.4 L

✓ 2.7 ✓

|     |     |     |
|-----|-----|-----|
| 6.7 |     |     |
| 30  | 6.9 | 7.5 |
|     |     | 30  |

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| 6.6 | 7.0 |     | 5.1 | 5.6 |
| 30  | 18  | 5.8 | 26  | 30  |

|     |     |     |     |     |     |    |
|-----|-----|-----|-----|-----|-----|----|
| 5.0 | 5.9 | 5.2 |     | 4.8 | 5.9 | 2  |
| 38  | 23  | 13  | 4.6 | 14  | 23  | 30 |



| O     | +3   | T       | -3    | Rod  | Elev    |
|-------|------|---------|-------|------|---------|
| B.M.  | 4.98 | 1322.5  |       |      | 1317.97 |
|       |      |         |       | 5.0  |         |
|       |      |         |       | 5.05 |         |
| B.M.  | 4.88 | 1322.85 |       |      | 1317.97 |
| 19+50 |      |         |       | 4.0  |         |
| 20    |      |         |       | 5.3  |         |
| +50   |      |         |       | 6.9  |         |
| 21    |      |         |       | 9.1  |         |
| +50   |      |         |       | 10.1 |         |
| 22    |      |         |       | 9.9  |         |
| 23    |      |         |       | 12.5 |         |
| 24    |      |         |       | 11.5 |         |
| T.P.  | 9.44 | 1320.81 | 11.48 |      | 1311.37 |
| +68   |      |         |       | 6.9  |         |
| 25    |      |         |       | 6.4  |         |
| 26    |      |         |       | 5.5  |         |
| 27    |      |         |       | 4.1  |         |
| 28    |      |         |       | 5.1  |         |
| +65   |      |         |       | 8.3  |         |



24

E

Rt.

On Street Lamp Lt. Sta. 17700

Elev. South End of Curb on Rt. of Line

Elev. North End of Curb on Rt. of Line

|     |     |     |     |     |    |     |     |     |     |
|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
| 2.5 | 5.7 | 5.7 | 4.9 | 4.5 |    | 4.1 | 5.3 | 5.3 | 2.4 |
| 43  | 33  | 25  | 15  | 40  | 40 | 13  | 26  | 39  | 55  |

|     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 6.2 | 6.0 | 5.0 | 4.6 |     | 5.1 | 5.1 | 6.2 | 5.7 |
| 40  | 30  | 22  | 7   | 5.3 | 10  | 30  | 35  | 44  |

|   |     |   |
|---|-----|---|
| L | 6.9 | L |
|---|-----|---|

|   |     |   |
|---|-----|---|
| L | 9.1 | L |
|---|-----|---|

|   |      |   |
|---|------|---|
| L | 10.1 | L |
|---|------|---|

|     |     |     |   |
|-----|-----|-----|---|
| 9.0 | 9.3 |     |   |
| 30  | 16  | 9.9 | L |

|   |      |   |
|---|------|---|
| L | 12.5 | L |
|---|------|---|

|   |      |   |
|---|------|---|
| L | 11.5 | L |
|---|------|---|

On Steps of Church

|     |     |     |   |
|-----|-----|-----|---|
| 7.7 | 7.4 |     |   |
| 30  | 18  | 6.9 | L |

|   |     |   |
|---|-----|---|
| L | 6.4 | L |
|---|-----|---|

|   |     |   |
|---|-----|---|
| L | 5.5 | L |
|---|-----|---|

|   |     |     |     |   |
|---|-----|-----|-----|---|
| L | 5.6 | 5.0 |     |   |
|   | 25  | 15  | 4.1 | L |

|   |     |   |
|---|-----|---|
| L | 5.1 | L |
|---|-----|---|

|   |     |     |     |   |
|---|-----|-----|-----|---|
| L | 8.5 | 7.9 |     |   |
|   | 14  | 11  | 8.3 | L |



| 0    | +5   | $\pi$   | -5   | Rod | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 132081  |      |     |         |
| 29   |      |         |      | 7.5 |         |
| +30  |      |         |      | 7.5 |         |
| 30   |      |         |      | 9.5 |         |
| 31   |      |         |      | 9.2 |         |
| 32   |      |         |      | 9.1 |         |
| T.P. | 7.62 | 1319.42 | 9.01 |     | 1311.80 |
| 33   |      |         |      | 6.2 |         |
| 34   |      |         |      | 5.3 |         |
| 35   |      |         |      | 4.4 |         |
| 36   |      |         |      | 4.0 |         |
| +45  |      |         |      | 4.5 |         |
| 37   |      |         |      | 6.9 |         |
| 38   |      |         |      | 9.2 |         |
| B.M. |      |         | 333  |     | 1316.09 |



|   |           |          |           |
|---|-----------|----------|-----------|
|   | L         | 7.5      | L         |
| L | 6.4<br>11 | 6.8<br>3 | 7.9<br>30 |
|   | L         | 9.5      | L         |
|   | L         | 9.2      | L         |
|   | L         | 9.1      | L         |

On Hub at Corner

|   |          |     |           |   |
|---|----------|-----|-----------|---|
|   | L        | 6.2 | 7.0<br>11 | L |
|   | L        | 5.3 | L         |   |
| L | 4.5<br>8 | 4.4 | L         |   |
|   | L        | 4.0 | L         |   |
|   | L        | 4.5 | L         |   |
|   | L        | 6.9 | L         |   |
|   | L        | 9.2 | L         |   |

Spin 8" J. Pine 35' Rt. Sta. 35+40



# West Leg of Y.

| 0          | +3   | $\pi$   | -5 | Red | Elev.   |
|------------|------|---------|----|-----|---------|
| B.M.       | 6.87 | 1313.57 |    |     | 1306.70 |
| 2+86°=B.C. |      |         |    | 5.0 |         |
| 3          |      |         |    | 4.8 |         |
| +25        |      |         |    | 4.6 |         |
| +50        |      |         |    | 4.9 |         |
| +75        |      |         |    | 5.5 |         |
| 4          |      |         |    | 7.2 |         |
| +25        |      |         |    | 6.9 |         |
| +50        |      |         |    | 5.9 |         |
| +75        |      |         |    | 3.4 |         |
| +97.8=EG.  |      |         |    | 2.2 |         |



Rt.

Sp. in Norway Pine - 70' Lt. Sta. 272 + 25° on State Survey.

30

30

30

30

30

10

10

34

Level

8

15

7

4



# EAST LEG of Y.

| O           | +S   | $\pi$   | -S | Rod | Elev.   |
|-------------|------|---------|----|-----|---------|
| B.M.        | 6.87 | 1313.57 |    |     | 1306.70 |
| 3+04.3 B.C. |      |         |    | 5.4 |         |
| +25         |      |         |    | 5.3 |         |
| +50         |      |         |    | 4.9 |         |
| +75         |      |         |    | 4.9 |         |
| 4           |      |         |    | 5.5 |         |
| +25         |      |         |    | 5.3 |         |
| +50         |      |         |    | 4.9 |         |
| +75         |      |         |    | 3.6 |         |
| 4+99.1 E.C. |      |         |    | 2.2 |         |



Lt.

~~2~~

Rt

State BM. Sp. in Norway P. 70' Lt 272+252 on state line

|   |     |     |       |
|---|-----|-----|-------|
| L | 5.4 | L   |       |
| L | 5.3 | L   |       |
| L | 4.9 | L   |       |
| L | 4.9 | L   |       |
| L | 5.5 | L   |       |
| L | 5.3 | L   |       |
| L | 4.9 | L   |       |
| L | 3.6 | 4.2 | 5.5 L |
|   |     | 16  | 20    |
| L | 2.2 | L   |       |



| 0          | +5   | $\pi$   | -5   | Rod | Elev.   |
|------------|------|---------|------|-----|---------|
| B.M.       | 3.87 | 1319.96 |      |     | 1316.09 |
| 136.36+994 |      |         |      | 7.8 |         |
| + 25       |      |         |      | 7.5 |         |
| + 50       |      |         |      | 8.2 |         |
| + 75       |      |         |      | 9.1 |         |
| T.B.       | 660  | 1318.79 | 7.77 |     | 1312.19 |
| 38         |      |         |      | 8.9 |         |
| + 25       |      |         |      | 8.9 |         |
| + 50       |      |         |      | 8.3 |         |
| + 75       |      |         |      | 8.3 |         |
| 39         |      |         |      | 7.5 |         |
| + 25       |      |         |      | 7.4 |         |
| + 50       |      |         |      | 5.1 |         |
| + 75       |      |         |      | 3.7 |         |
| 40         |      |         |      | 4.9 |         |
| + 25       |      |         |      | 7.7 |         |
| + 50       |      |         |      | 7.2 |         |
| + 75       |      |         |      | 8.4 |         |
| 41         |      |         |      |     |         |



"L" line

Lt

E

Rt

Spine 8" J. Pine 35' Rt 3 1/2 35' 40

7.8

7.5

8.2

9.1

on step.

8.9

8.9

8.3

8.3

7.5

7.4

5.1

2.2  
30

3.7 4.7  
15

L

L 4.8 5.9 7.3 5.9  
27 18 12.4 6.4

4.9 4.5  
50

6.3 6.4 7.3  
30 20 5.0

7.7 6.7 6.7  
17 30

L

7.2 8.2  
50

L

8.4 9.6 11.0  
15 30

L

8.7 9.9 11.2  
15 30



| O               | +S   | T       | -S   | Rod | Elev.   |
|-----------------|------|---------|------|-----|---------|
|                 |      | 1318.79 |      |     |         |
| 41+25.0         |      |         |      | 9.2 |         |
| +50             |      |         |      | 9.4 |         |
| +75             |      |         |      | 9.4 |         |
| 42              |      |         |      | 9.2 |         |
| Elev. = 42+12.1 |      |         |      | 9.3 |         |
| +25             |      |         |      | 5.6 |         |
| 43              |      |         |      | 5.6 |         |
| T.P.            | 3.17 | 1317.63 | 4.33 |     | 1314.46 |
| +30             |      |         |      | 3.8 |         |
| 44              |      |         |      | 6.5 |         |
| +20             |      |         |      | 7.7 |         |
| 45              |      |         |      | 5.0 |         |
| 46              |      |         |      | 4.3 |         |
| 47              |      |         |      | 4.7 |         |
| 48              |      |         |      | 7.7 |         |
| 49              |      |         |      | 9.4 |         |
| +15.0           |      |         |      | 8.5 |         |
| 50              |      |         |      | 9.0 |         |



(2. Line)

Lt.

Q

Rt.

|   |     |     |     |   |
|---|-----|-----|-----|---|
| 1 | 8.6 | 9.2 | 9.8 | 2 |
|   | 6   |     | 7   |   |

|   |     |   |
|---|-----|---|
| 1 | 9.4 | 2 |
|---|-----|---|

|   |     |   |
|---|-----|---|
| 1 | 9.4 | 2 |
|---|-----|---|

|   |     |   |
|---|-----|---|
| 1 | 8.2 | 2 |
|---|-----|---|

|   |     |   |
|---|-----|---|
| 1 | 7.3 | 2 |
|---|-----|---|

|   |     |   |
|---|-----|---|
| 1 | 5.6 | 2 |
|---|-----|---|

|   |     |   |
|---|-----|---|
| 1 | 5.6 | 2 |
|---|-----|---|

On 5th p.

|   |     |   |
|---|-----|---|
| 1 | 3.8 | 2 |
|---|-----|---|

6.5

7.7

5.0

4.3

4.7

7.7

9.4

8.5

9.0



| O    | +S   | T       | -S   | Red  | Elev.   |
|------|------|---------|------|------|---------|
|      |      | 1317.63 |      |      |         |
| 51   |      |         |      | 9.9  |         |
| T.P. | 6.96 | 1314.81 | 9.78 |      | 1307.85 |
| 52   |      |         |      | 7.5  |         |
| 53   |      |         |      | 7.8  |         |
| 54   |      |         |      | 7.7  |         |
| +50  |      |         |      | 8.0  |         |
| 55   |      |         |      | 5.9  |         |
| +50  |      |         |      | 3.9  |         |
| 56   |      |         |      | 2.1  |         |
| T.P. | 5.78 | 1319.55 | 1.04 |      | 1313.77 |
| +90  |      |         |      | 1.9  |         |
| 57   |      |         |      | 2.8  |         |
| B.M. |      |         | 2.30 |      | 1317.25 |
| +50  |      |         |      | 10.5 |         |
| 58   |      |         |      | 11.0 |         |
| 59   |      |         |      | 10.6 |         |
| 60   |      |         |      | 10.8 |         |
| +70  |      |         |      | 10.9 |         |



2" Line

Lt.

R

Rt.

L 7.9 L

on stake

L 7.5 L

L 7.8 L

L 7.7 L

L 8.0 L

5.9

3.9

2.1

on stp.

1.9

2.8

Sp. in 8" J. Pine 45' Lt. 57+150

L 10.5 L

L 11.0 L

L 10.6 L

L 10.8 L

L 10.9 L



| O    | +S   | $\pi$   | -S   | Rod | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 1319.55 |      |     |         |
| 61   |      |         |      | 8.3 |         |
| +30  |      |         |      | 3.7 |         |
| +75  |      |         |      | 5.7 |         |
| T.P. | 0.46 | 1314.55 | 5.46 |     | 1314.09 |
| 62   |      |         |      | 3.0 |         |
| +35  |      |         |      | 6.2 |         |
| 63   |      |         |      | 6.7 |         |
| +80  |      |         |      | 6.7 |         |
| 64   |      |         |      | 6.4 |         |
| 65   |      |         |      | 6.9 |         |
| 66   |      |         |      | 6.7 |         |
| 67   |      |         |      | 6.6 |         |
| 68   |      |         |      | 6.4 |         |
| 69   |      |         |      | 4.5 |         |
| +25  |      |         |      | 3.5 |         |
| 70   |      |         |      | 5.6 |         |
| 71   |      |         |      | 6.1 |         |
| 72   |      |         |      | 6.7 |         |



2 Line

LT

Q

RT

8.3

3.7

5.7

on Hub

3.0

6.2

6.7

4.7

6.4

6.9

6.7

6.6

6.4

L 4.5 L

L 3.5 L

L 5.6 L

L 6.1 L

L 6.7 L



| ①             | +S   | T       | -S   | Rod  | Elev.   |
|---------------|------|---------|------|------|---------|
|               |      | 1314.55 |      |      |         |
| 73            |      |         |      | 6.7  |         |
| <del>74</del> |      |         |      | 6.8  |         |
| 75            |      |         |      | 6.3  |         |
| T.P.          | 8.84 | 1318.85 | 4.54 |      | 1310.01 |
| +50           |      |         |      | 6.4  |         |
| 76            |      |         |      | 4.3  |         |
| +80           |      |         |      | 1.5  |         |
| T.P.          | 5.34 | 1322.99 | 1.20 |      | 1317.65 |
| 77            |      |         |      | 6.6  |         |
| 78            |      |         |      | 7.4  |         |
| +60           |      |         |      | 7.5  |         |
| 79            |      |         |      | 11.0 |         |
| +85           |      |         |      | 10.1 |         |
| 80            |      |         |      | 7.6  |         |
| +75           |      |         |      | 4.4  |         |
| 81            |      |         |      | 4.0  |         |
| 82            |      |         |      | 6.9  |         |
| 83            |      |         |      | 5.5  |         |



"LiLine"

Lt.

Rt.

Rt.

1 6.7 1

1 6.8 1

6.3

on step.

6.2

4.3

1.5

on step.

6.6

7.4

7.5

11.0

10.1

7.6

4.4

4.0

6.9

5.5



| Q            | +S   | $\pi$   | -S   | Red | Elev.   |
|--------------|------|---------|------|-----|---------|
|              |      | 1382.99 |      |     |         |
| 83 +5.       |      |         |      | 6.2 |         |
| 84           |      |         |      | 9.9 |         |
| T.P.         | 5.0% | 1318.73 | 9.28 |     | 1313.71 |
| 85           |      |         |      | 5.1 |         |
| +30          |      |         |      | 5.7 |         |
| 86           |      |         |      | 7.5 |         |
| 87           |      |         |      | 6.3 |         |
| 88           |      |         |      | 3.0 |         |
| +50          |      |         |      | 1.0 |         |
| T.P.         | 3.0% | 1321.18 | 0.63 |     | 1318.10 |
| 89           |      |         |      | 3.6 |         |
| B.C. 89411.7 |      |         |      | 4.1 |         |
| +25          |      |         |      | 4.6 |         |
| +50          |      |         |      | 4.4 |         |
| +75          |      |         |      | 5.0 |         |
| 90           |      |         |      | 5.7 |         |
| +25          |      |         |      | 5.5 |         |
| +50          |      |         |      | 4.2 |         |



L. Line

Lt

±

Rt

6.2

9.9

on step.

5.1

5.7

7.5

6.3

3.0

1.0

on steps

3.6

4.1

4.6

4.4

5.0

5.7

5.5

4.2



| O      | +S   | $\pi$  | -S   | Rod | Elev    |
|--------|------|--------|------|-----|---------|
|        |      | 132112 |      |     |         |
| 90+75= |      |        |      | 2.7 |         |
| T.P.   | 4.67 | 132324 | 2.55 |     | 1318.57 |
| 91     |      |        |      | 3.9 |         |
| +25    |      |        |      | 3.6 |         |
| +50    |      |        |      | 3.0 |         |
| +75    |      |        |      | 3.1 |         |
| 92     |      |        |      | 4.0 |         |
| +25    |      |        |      | 4.3 |         |
| +50    |      |        |      | 5.0 |         |
| +75    |      |        |      | 4.5 |         |
| 93     |      |        |      | 4.8 |         |
| +25    |      |        |      | 5.9 |         |
| +50    |      |        |      | 7.5 |         |
| +75    |      |        |      | 7.6 |         |
| 94     |      |        |      | 8.6 |         |
| +29.2  |      |        |      | 9.4 |         |
| 95     |      |        |      | 9.2 |         |
| +80    |      |        |      | 8.5 |         |



Li Line

Lt.

~~2~~

Rt.

2.7

on Hob

3.9

3.6

3.0

3.1

4.0

4.3

5.0

4.5

4.8

5.9

7.5

7.6

8.6

9.4

9.2

8.5



| O            | +S   | T       | -S    | Red  | Elev.   |
|--------------|------|---------|-------|------|---------|
|              |      | 1323.34 |       |      |         |
| 99+75        |      |         |       | 13.4 |         |
| 100          |      |         |       | 14.6 |         |
| +25          |      |         |       | 14.6 |         |
| +50          |      |         |       | 14.4 |         |
| +75          |      |         |       | 14.3 |         |
| 201          |      |         |       | 13.4 |         |
| +25          |      |         |       | 13.2 |         |
| EG. +45.6    |      |         | 12.73 | 12.9 | 131.26  |
| T.P          | 5.91 | 1316.52 | 12.73 |      | 1310.61 |
| 102          |      |         |       | 6.3  |         |
| 103          |      |         |       | 7.4  |         |
| 104          |      |         |       | 4.9  |         |
| +50          |      |         |       | 3.6  |         |
| 105          |      |         |       | 0.4  |         |
| T.P.         | 6.92 | 1323.10 | 0.34  |      | 1316.18 |
| +50          |      |         |       | 4.2  |         |
| 106          |      |         |       | 4.0  |         |
| BC. 106+25.7 |      |         |       | 4.6  |         |



L1 Line

13.4

14.1

14.6

14.4

14.3

13.4

13.2

12.9

on Hub

6.3

7.4

4.9

3.6

0.4

on 5tp.

4.2

4.0

4.6



| 0          | +5   | T       | -5   | Rod  | Elev.   |
|------------|------|---------|------|------|---------|
|            |      | 1323.10 |      |      |         |
| +50        |      |         |      | 6.7  |         |
| +75        |      |         |      | 7.0  |         |
| 107        |      |         |      | 8.6  |         |
| +25        |      |         |      | 8.6  |         |
| +50        |      |         |      | 8.4  |         |
| +75        |      |         |      | 9.1  |         |
| 108        |      |         |      | 10.9 |         |
| +25        |      |         |      | 12.6 |         |
| +50        |      |         |      | 12.1 |         |
| +75        |      |         |      | 11.8 |         |
| 109        |      |         |      | 11.8 | E       |
| +25        |      |         |      | 12.6 |         |
| +50        |      |         |      | 12.6 |         |
| +75        |      |         |      | 13.3 |         |
| 110        |      |         |      | 12.5 |         |
| 86110+10.7 |      |         |      | 12.3 |         |
| T.P.       | 5.98 | 1317.01 | 12.7 |      | 1311.03 |
| 111        |      |         |      | 7.2  |         |



"Li Line"

Lt.

Q

Rt

6.7

7.0

8.6

8.6

8.4

9.1

10.9

12.6

12.1

11.8

11.8

12.1

12.6

13.3

12.5

12.3

on Hub

7.2



| O    | + S  | T       | - S  | Rod  | Elev.   |
|------|------|---------|------|------|---------|
|      |      | 1317.01 |      |      |         |
| 112  |      |         |      | 7.4  |         |
| 113  |      |         |      | 7.2  |         |
| 114  |      |         |      | 6.1  |         |
| +50  |      |         |      | 1.9  |         |
| 115  |      |         |      | 0.8  |         |
| T.P. | 5.09 | 1321.74 | 0.36 |      | 1316.65 |
| 116  |      |         |      | 2.6  |         |
| +60  |      |         |      | 4.7  |         |
| 117  |      |         |      | 4.5  |         |
| 118  |      |         |      | 11.7 |         |
| +50  |      |         |      | 8.1  |         |
| 119  |      |         |      | 8.1  |         |
| 120  |      |         |      | 6.8  |         |
| 121  |      |         |      | 8.1  |         |
| T.P. | 5.30 | 1319.96 | 7.08 |      | 1314.66 |
| 122  |      |         |      | 8.2  |         |
| +70  |      |         |      | 8.7  |         |
| 123  |      |         |      | 10.3 |         |



"2. Line

Lt

£

Rt

7.4

7.2

6.1

1.9

0.8

Top of state

2.6

4.7

4.5

11.7

8.1

8.1

6.8

8.1

on state

8.2

8.7

10.3



| 0              | + S  | T       | - S | Rod | Elev    |
|----------------|------|---------|-----|-----|---------|
|                |      | 1319.96 |     |     |         |
| 124            |      |         |     | 5.0 |         |
| +25            |      |         |     | 4.3 |         |
| 125            |      |         |     | 4.9 |         |
| 126            |      |         |     | 7.2 |         |
| BL. 126 + 68.3 |      |         |     | 6.6 |         |
| 127            |      |         |     | 6.4 |         |
| +10            |      |         |     | 5.1 |         |
| +50            |      |         |     | 3.3 |         |
| +60            |      |         |     | 6.7 |         |
| 128            |      |         |     | 5.6 |         |
| +25            |      |         |     | 5.5 |         |
| +50            |      |         |     | 9.0 |         |
| T.P.           | 3.46 | 1314.88 | 854 |     | 1311.42 |
| +75            |      |         |     | 5.8 |         |
| 129            |      |         |     | 6.1 |         |
| +50            |      |         |     | 5.8 |         |
| 130            |      |         |     |     |         |
| 131            |      |         |     |     |         |



Li Line

LT

R

RT

5.0

4.3

4.9

7.2

6.6

6.4

5.1

3.3

6.7

5.6

5.5

7.0

on stake

5.8

L

6.1

L

L

5.8

L

L

5.5

L

L

6.0

L



| O    | +S    | T       | -S  | Rod  | Elev.   |
|------|-------|---------|-----|------|---------|
|      |       | 1314.88 |     |      |         |
| 138  |       |         |     | 5.4  |         |
| 133  |       |         |     | 5.6  |         |
| 134  |       |         |     | 5.7  |         |
| 135  |       |         |     | 6.3  |         |
| 136  |       |         |     | 5.9  |         |
| 137  |       |         |     | 6.1  |         |
| T.P. | 10.14 | 1319.40 | 562 |      | 1309.26 |
| 138  |       |         |     | 10.4 |         |
| 139  |       |         |     | 10.4 |         |
| 140  |       |         |     | 10.4 |         |
| 141  |       |         |     | 9.4  |         |
| +50  |       |         |     | 5.9  |         |
| +80  |       |         |     | 4.5  |         |
| 142  |       |         |     | 4.8  |         |
| +20  |       |         |     | 4.6  |         |
| 480  |       |         |     | 8.1  |         |
| 143  |       |         |     | 6.5  |         |
| +50  |       |         |     | 4.5  |         |



"Lilise"

lt.

=

rt

|   |     |   |
|---|-----|---|
| L | 5.4 | L |
| L | 5.6 | L |
| L | 5.9 | L |
| L | 6.3 | L |
| L | 5.9 | L |
| L | 6.1 | L |

on 5th.

|   |      |   |
|---|------|---|
| L | 10.4 | L |
| L | 10.4 | L |
| L | 10.4 | L |
| L | 9.4  | L |
|   | 5.9  |   |
|   | 4.5  |   |
|   | 4.8  |   |
|   | 4.6  |   |
|   | 8.1  |   |
|   | 6.5  |   |
|   | 4.5  |   |



| ①    | +S   | $\pi$   | -S   | Rod | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 1319.40 |      |     |         |
| 144  |      |         |      | 4.5 |         |
| +35  |      |         |      | 3.2 |         |
| 145  |      |         |      | 3.7 |         |
| 146  |      |         |      | 3.2 |         |
| T.P. | 9.25 | 1325.91 | 2.74 |     | 1316.66 |
| +50  |      |         |      | 6.5 |         |
| 147  |      |         |      | 4.2 |         |
| +50  |      |         |      | 5.2 |         |
| +75  |      |         |      | 6.5 |         |
| 148  |      |         |      | 6.1 |         |
| +50  |      |         |      | 5.0 |         |
| 149  |      |         |      | 5.7 |         |
| 150  |      |         |      | 5.4 |         |
| +50  |      |         |      | 3.9 |         |
| 151  |      |         |      | 3.5 |         |
| +40  |      |         |      | 3.8 |         |
| +60  |      |         |      | 5.7 |         |
| 152  |      |         |      | 9.4 |         |



Li Line

Lt

R

Rt.

4.5

3.2

3.7

3.2

on stake

6.5

4.2

5.2

6.5

6.1

5.0

5.7

5.4

3.9

3.5

3.8

5.7

9.4



| ①      | +S   | T       | -S    | Rad  | Elev.   |
|--------|------|---------|-------|------|---------|
|        |      | 1325.91 |       |      |         |
| 152+25 |      |         |       | 11.4 |         |
| T.P.   | 3.06 | 1317.43 | 11.54 |      | 1314.37 |
| +50    |      |         |       | 6.4  |         |
| 153    |      |         |       | 7.3  |         |
| 154    |      |         |       | 7.0  |         |
| 155    |      |         |       | 5.2  |         |
| +50    |      |         |       | 6.1  |         |
| +75    |      |         |       | 7.8  |         |
| 156    |      |         |       | 7.4  |         |
| +75    |      |         |       | 6.5  |         |
| 157    |      |         |       | 6.0  | E       |
| +70    |      |         |       | 5.3  |         |
| 158    |      |         |       | 1.9  |         |
| T.P.   | 9.76 | 1324.65 | 2.54  |      | 1314.89 |
| +50    |      |         |       | 8.5  |         |
| 159    |      |         |       | 10.0 |         |
| +50    |      |         |       | 9.0  |         |
| 160    |      |         |       | 11.0 |         |



"  
Lilise

Lt.

E

Rt.

11.4

on stake

L 6.4 L

L 7.3 L

7.0

5.2

6.1

7.2

L 7.4 L

L 6.5 L

6.0

5.3

1.9

on stp.

8.5

10.0

9.0

11.0



| O      | +S   | $\pi$   | -S   | Rod  | Elev.   |
|--------|------|---------|------|------|---------|
|        |      | 1324.65 |      |      |         |
| 160+25 |      |         |      | 9.3  |         |
| +50    |      |         |      | 9.7  |         |
| 161    |      |         |      | 5.8  |         |
| B.M.   |      |         | 6.03 |      | 1318.62 |
| +30    |      |         |      | 3.9  |         |
| 162    |      |         |      | 3.7  |         |
| 163    |      |         |      | 3.2  |         |
| +50    |      |         |      | 3.6  |         |
| T.P.   | 3.57 | 1325.31 | 2.91 |      | 1326.74 |
| 164    |      |         |      | 7.1  |         |
| 165    |      |         |      | 10.3 |         |
| 166    |      |         |      | 10.3 |         |
| T.P.   | 6.24 | 1322.55 | 9.00 |      | 1316.31 |
| 167    |      |         |      | 6.1  |         |
| 168    |      |         |      | 5.0  |         |
| 169    |      |         |      | 5.9  |         |
| +50    |      |         |      | 5.1  |         |
| 170    |      |         |      | 5.6  |         |



"Li Line

Lt.

~~Rt.~~

Rt.

9.3

7.7

5.8

Sp. in 6" Birch 40 Lt. Sta 161

3.9

3.7

3.2

3.6

on Hub

7.1

10.3

10.3

On Log

6.1

5.0

5.9

5.1

5.6



| O      | +S   | T       | -S   | Rod | Elev.   |
|--------|------|---------|------|-----|---------|
|        |      | 1322.55 |      |     |         |
| 170+50 |      |         |      | 6.4 |         |
| T.P.   | 0.33 | 1318.04 | 4.84 | ... | 1317.71 |
| 171    |      |         |      | 5.3 |         |
| +75    |      |         |      | 5.4 |         |
| 172    |      |         |      | 6.9 |         |
| +50    |      |         |      | 9.7 |         |
| T.P.   | 4.68 | 1313.35 | 9.37 |     | 1308.67 |
| 173    |      |         |      | 5.0 |         |
| 174    |      |         |      | 4.4 |         |
| 175    |      |         |      | 5.0 |         |
| 176    |      |         |      | 6.2 |         |
| 177    |      |         |      | 5.1 |         |
| T.P.   | 5.40 | 1314.20 | 4.55 |     | 1308.70 |
| 178    |      |         |      | 4.0 |         |
| 179    |      |         |      | 4.3 |         |
| 180    |      |         |      | 6.5 |         |
| 181    |      |         |      | 6.6 |         |
| 182    |      |         |      | 6.6 |         |



Li Line

Lt

~~2~~

Rt

6.4

on stake

5.3

5.4

6.9

9.7

on stp.

L

5.0

L

L

4.4

L

L

5.0

L

L

6.2

L

L

5.1

L

on stake

L

4.0

L

L

4.3

L

L

6.5

L

L

6.6

L

L

6.6

L



| 0    | +3   | $\pi$   | -5   | Rod  | Elev.   |
|------|------|---------|------|------|---------|
|      |      | 1314.20 |      |      |         |
| 183  |      |         |      | 6.9  |         |
| T.P. | 7.73 | 1315.37 | 6.56 | ...  | 1307.64 |
| 184  |      |         |      | 6.9  |         |
| 185  |      |         |      | 3.7  |         |
| 186  |      |         |      | 6.4  |         |
| 187  |      |         |      | 6.9  |         |
| 188  |      |         |      | 6.8  |         |
| 189  |      |         |      | 2.9  |         |
| 190  |      |         |      | 4.6  |         |
| T.P. | 8.18 | 1319.15 | 4.40 |      | 1310.97 |
| 191  |      |         |      | 10.5 |         |
| 192  |      |         |      | 8.8  |         |
| 193  |      |         |      | 5.1  |         |
| B.M. | 3.79 | 1319.21 | 3.73 |      | 1315.42 |
| +40  |      |         |      | 4.3  |         |
| +50  |      |         |      | 2.8  |         |
| 194  |      |         |      | 1.4  |         |
| T.P. | 4.85 | 1322.95 | 1.11 |      | 1318.10 |



L. Line

Lt.

Rt.

Rt.

L

6.9

L

On Stake

6.9

3.7

6.4

L

6.9

L

6.8

2.9

4.6

On Stake

L

10.5

L

8.8

5.1

Sp. in 10" Birch 40' Lt. 193 + 20

4.3

2.8

1.4

On Stake



| 0    | +3   | T       | -3   | Rod | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 1322.95 |      |     |         |
| 195  |      |         |      | 4.6 |         |
| +25  |      |         |      | 5.5 |         |
| 196  |      |         |      | 2.2 |         |
| T.P. | 2.61 | 1323.64 | 1.92 |     | 1321.03 |
| +50  |      |         |      | 4.4 |         |
| 197  |      |         |      | 7.9 |         |
| 198  |      |         |      | 9.2 |         |
| T.P. | 4.65 | 1320.31 | 7.96 |     | 1315.66 |
| 199  |      |         |      | 5.1 |         |
| 200  |      |         |      | 4.4 |         |
| 201  |      |         |      | 3.6 | 8       |
| T.P. | 2.09 | 1319.93 | 2.47 |     | 1317.84 |
| 202  |      |         |      | 3.9 |         |
| 203  |      |         |      | 4.6 |         |
| 204  |      |         |      | 6.2 |         |
| 205  |      |         |      | 6.8 |         |
| 206  |      |         |      | 6.4 |         |
| 207  |      |         |      | 5.1 |         |



L. Live

Lt.

R

Rt.

4.6

5.5

2.2

On Hub

4.4

7.9

7.2

On Stake

L

5.1

L

L

4.4

L

L

3.6

L

On Stake

3.9

4.8

6.2

6.8

6.4

5.1



| $\phi$ | +S   | $\pi$   | -S   | Rod | Elev    |
|--------|------|---------|------|-----|---------|
|        |      | 131993  |      |     |         |
| T.P.   | 8.51 | 132409  | 4.35 |     | 131558  |
| 208    |      |         |      | 9.5 |         |
| 209    |      |         |      | 9.6 |         |
| 210    |      |         |      | 7.4 |         |
| 211    |      |         |      | 4.1 |         |
| T.P.   | 7.77 | 1330.32 | 1.54 |     | 1322.55 |
| 212    |      |         |      | 7.2 |         |
| 213    |      |         |      | 4.6 |         |
| +40    |      |         |      | 4.4 |         |
| 214    |      |         |      | 6.8 |         |
| +50    |      |         |      | 7.2 | 8       |
| 215    |      |         |      | 5.2 |         |
| 216    |      |         |      | 3.8 |         |
| 217    |      |         |      | 3.2 |         |
| T.P.   | 5.90 | 1333.32 | 2.90 |     | 1327.42 |
| 218    |      |         |      | 5.6 |         |
| 219    |      |         |      | 5.8 |         |
| 220    |      |         |      | 6.0 |         |



Li Line

Lt.

#

Rt

On Stake

9.5

9.6

7.4

4.1

On Hub

7.2

4.6

4.4

6.8

7.2

5.2

3.8

3.2

On Hub

5.6

5.8

6.0



| O    | + S  | $\pi$   | - S  | Rod  | Elev.   |
|------|------|---------|------|------|---------|
|      |      | 133332  |      |      |         |
| 221  |      |         |      | 4.6  |         |
| 222  |      |         |      | 3.3  |         |
| 223  |      |         |      | 3.5  |         |
| 224  |      |         |      | 1.9  |         |
| T.P. | 4.57 | 133665  | 1.24 |      | 1332.08 |
| 225  |      |         |      | 4.8  |         |
| +50  |      |         |      | 3.7  |         |
| B.M. |      |         | 4.03 |      | 1332.62 |
| 226  |      |         |      | 5.2  |         |
| 227  |      |         |      | 6.0  |         |
| 228  |      |         |      | 8.1  | E       |
| 229  |      |         |      | 10.1 |         |
| 230  |      |         |      | 9.9  |         |
| 231  |      |         |      | 9.6  |         |
| T.P. | 3.90 | 1331.58 | 8.97 |      | 1327.68 |
| 232  |      |         |      | 2.1  |         |
| 233  |      |         |      | 3.7  |         |
| 234  |      |         |      | 4.7  |         |



L. Line

Lt

Q

Rt

4.6

3.3

3.5

1.9

On Hub

4.8

3.7

35'

Sp. in Birch 6" Rt. Sta. 225+30

5.2

6.0

8.1

10.1

9.9

9.6

On Hub

3.1

3.7

4.7



| O    | + S  | T       | - S  | Rod | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 1331.58 |      |     |         |
| 235  |      |         |      | 4.5 |         |
| 236  |      |         |      | 4.7 |         |
| 237  |      |         |      | 4.9 |         |
| T.P. | 4.71 | 1331.58 | 4.71 |     | 1326.87 |
| 238  |      |         |      | 3.8 |         |
| 239  |      |         |      | 5.1 |         |
| 240  |      |         |      | 4.9 |         |
| 241  |      |         |      | 6.0 |         |
| T.P. | 5.55 | 1331.76 | 5.35 |     | 1326.23 |
| 242  |      |         |      | 6.9 |         |
| 243  |      |         |      | 5.7 |         |
| 244  |      |         |      | 6.0 |         |
| 245  |      |         |      | 4.7 |         |
| 246  |      |         |      | 3.6 |         |
| 247  |      |         |      | 6.0 |         |
| +50  |      |         |      | 4.1 |         |
| 248  |      |         |      | 5.5 |         |
| +50  |      |         |      | 5.2 |         |



L. Line

Lt

Rt

Rt

4.5

4.7

4.9

on Hub

3.8

5.1

4.9

6.0

on Hub

6.9

5.7

6.0

4.7

3.6

6.0

4.1

5.5

5.2



| ①    | + S  | T       | - S  | Rod | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 1331.78 |      |     |         |
| 249  |      |         |      | 3.2 |         |
| T.P. | 2.68 | 1331.64 | 2.82 |     | 1328.96 |
| 250  |      |         |      | 4.1 |         |
| 251  |      |         |      | 3.7 |         |
| 252  |      |         |      | 5.7 |         |
| 253  |      |         |      | 4.9 |         |
| 254  |      |         |      | 5.1 |         |
| 255  |      |         |      | 3.8 |         |
| +50  |      |         |      | 4.8 |         |
| 256  |      |         |      | 24  |         |
| T.P. | 4.47 | 1335.81 | 0.30 |     | 1331.34 |
| +50  |      |         |      | 1.7 |         |
| 257  |      |         |      | 4.7 |         |
| +70  |      |         |      | 7.5 |         |
| 258  |      |         |      | 6.9 |         |
| 259  |      |         |      | 5.1 |         |
| B.M. |      |         | 2.12 |     | 1335.69 |
| +30  |      |         |      | 5.3 |         |



"LiLine"

Lt.

E

Rt.

3.2

On Hub

4.1

3.7

5.7

4.9

5.1

3.8

4.8

2.4

On Log

1.7

4.7

7.5

6.9

5.1

On Root of 10" Ash 50' Rt. 259 + 50

5.3



| ①    | + 3  | $\pi$   | - 3  | Red | Elev    |
|------|------|---------|------|-----|---------|
|      |      | 1335.81 |      |     |         |
| +60  |      |         |      | 7.8 |         |
| 260  |      |         |      | 8.2 |         |
| 261  |      |         |      | 8.5 |         |
| 262  |      |         |      | 7.7 |         |
| 263  |      |         |      | 6.7 |         |
| T.P. | 7.42 | 1336.87 | 6.36 |     | 1329.45 |
| 264  |      |         |      | 6.7 |         |
| 265  |      |         |      | 4.4 |         |
| +30  |      |         |      | 4.1 |         |
| 266  |      |         |      | 4.3 |         |
| 267  |      |         |      | 5.1 |         |
| +50  |      |         |      | 5.6 |         |
| 268  |      |         |      | 5.7 |         |
| T.P. | 1.84 | 1333.99 | 4.72 |     | 1332.15 |
| 269  |      |         |      | 4.3 |         |
| 270  |      |         |      | 6.2 |         |
| 271  |      |         |      | 4.7 |         |
| T.P. | 3.75 | 1333.79 | 3.95 |     | 1330.04 |



"L" line

Lt.

4

Rt.

7.8

8.2

8.5

7.7

6.7

on stake

6.7

4.4

4.1

4.3

5.1

5.6

5.7

On Hub

4.3

6.2

4.7

on stake



| O    | + S  | T       | - S   | Rod  | Elev    |
|------|------|---------|-------|------|---------|
|      |      | 1333.79 |       |      |         |
| 272  |      |         |       | 5.8  |         |
| 273  |      |         |       | 5.6  |         |
| 274  |      |         |       | 4.8  |         |
| 275  |      |         |       | 6.3  |         |
| +35  |      |         |       | 7.7  |         |
| 276  |      |         |       | 9.3  |         |
| 277  |      |         |       | 12.3 |         |
| T.P. | 4.27 | 1325.70 | 12.36 |      | 1321.43 |
| +50  |      |         |       | 6.5  |         |
| 278  |      |         |       | 7.1  |         |
| 279  |      |         |       | 5.2  |         |
| 280  |      |         |       | 3.8  |         |
| +75  |      |         |       | 3.6  |         |
| 281  |      |         |       | 2.5  |         |
| T.P. | 3.38 | 1327.03 | 2.05  |      | 1323.65 |
| +30  |      |         |       | 2.1  |         |
| 282  |      |         |       | 2.9  |         |
| +50  |      |         |       | 3.6  |         |



L.L. line

Lt.

L

Rt.

5.8

5.6

4.8

6.3

7.7

9.3

12.3

on stake

6.5

7.1

5.2

3.8

3.6

2.5

on stake

2.1

2.9

3.6



| ①    | + S  | T       | - S   | Red  | Elev.   |
|------|------|---------|-------|------|---------|
|      |      | 1327.03 |       |      |         |
| 283  |      |         |       | 4.5  |         |
| 284  |      |         |       | 6.8  |         |
| 285  |      |         |       | 7.7  |         |
| 286  |      |         |       | 9.8  |         |
| 287  |      |         |       | 11.7 |         |
| T.P. | 0.76 | 1317.33 | 10.46 |      | 1316.57 |
| 288  |      |         |       | 3.6  |         |
| 289  |      |         |       | 5.4  |         |
| 290  |      |         |       | 5.3  |         |
| 291  |      |         |       | 5.4  |         |
| 292  |      |         |       | 5.4  |         |
| 293  |      |         |       | 5.1  |         |
| T.P. | 5.34 | 1319.35 | 3.32  |      | 1314.01 |
| 294  |      |         |       | 7.2  |         |
| 295  |      |         |       | 7.2  |         |
| 296  |      |         |       | 6.5  |         |
| 297  |      |         |       | 7.1  |         |
| 298  |      |         |       | 4.1  |         |



"2" Line

Lt.

±

Rt.

4.5

6.8

7.7

9.8

11.7

On 5 take

L

3.6

L

L

5.4

L

L

5.3

L

L

5.4

L

L

5.4

L

L

5.1

L

on 5th

L

7.2

L

L

7.2

L

L

6.5

L

L

7.1

L

4.7



| O    | +S   | T       | -S   | Rod  | Elev.   |
|------|------|---------|------|------|---------|
|      |      | 1319.35 | .    |      |         |
| B.M. |      |         | 2.66 |      | 1316.69 |
| +85  |      |         |      | 2.3  |         |
| 299  |      |         |      | 2.5  |         |
| T.P. | 846  | 1326.10 | 1.71 |      | 1317.64 |
| 300  |      |         |      | 9.0  |         |
| 301  |      |         |      | 7.5  |         |
| 302  |      |         |      | 5.4  |         |
| 303  |      |         |      | 3.1  |         |
| T.P. | 6.70 | 1331.76 | 1.04 |      | 1325.06 |
| 304  |      |         |      | 6.2  |         |
| 305  |      |         |      | 4.6  |         |
| 306  |      |         |      | 3.0  |         |
| T.P. | 6.76 | 1336.35 | 2.17 |      | 1329.59 |
| 307  |      |         |      | 5.3  |         |
| +50  |      |         |      | 5.7  |         |
| 308  |      |         |      | 4.5  |         |
| +50  |      |         |      | 7.5  |         |
| 309  |      |         |      | 11.5 |         |



L. Line

Lt

E

Rt.

Sp. in 10" Bass Wood 45' Rt. Sta. 298+00

2.3

2.5

On Stake

9.0

7.5

5.4

3.1

On Stake

6.2

4.6

3.0

On Stake

5.3

5.7

4.5

7.5

11.5



| ①    | +S   | T       | -S    | T Rod | Elev.   |
|------|------|---------|-------|-------|---------|
|      |      | 1336.35 |       |       |         |
| T.P. | 0.30 | 1323.87 | 12.78 |       | 1323.57 |
| 310  |      |         |       | 2.1   |         |
| 311  |      |         |       | 7.6   |         |
| 312  |      |         |       | 11.7  |         |
| T.P. | 0.80 | 1314.43 | 10.24 |       | 1313.63 |
| 313  |      |         |       | 3.4   |         |
| 314  |      |         |       | 5.1   |         |
| 315  |      |         |       | 4.8   |         |
| 316  |      |         |       | 5.6   |         |
| 317  |      |         |       | 6.5   |         |
| 318  |      |         |       | 7.2   |         |
| 319  |      |         |       | 7.3   |         |
| T.P. | 4.15 | 1311.65 | 6.93  |       | 1307.50 |
| 320  |      |         |       | 5.9   |         |
| 321  |      |         |       | 4.5   |         |
| B.M. |      |         | 4.91  |       | 1306.74 |
| 322  |      |         |       | 5.2   |         |
| +50  |      |         |       | 7.5   |         |



L. Line

Lt.

2

Rt.

On stake

2.9

7.6

11.7

On stake

3.4

5.1

4.6

5.6

6.5

7.2

7.3

On Hub

5.9

4.5

Spin Telipole 40' Lt. Sta 321+60

5.2

7.5



| O    | +S   | $\pi$   | -S   | Rod | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 1311.65 |      |     |         |
| 323  |      |         |      | 7.8 |         |
| 324  |      |         |      | 7.5 |         |
| T.P. | 6.77 | 1311.14 | 7.28 |     | 1304.37 |
| 325  |      |         |      | 6.6 |         |
| 326  |      |         |      | 6.0 |         |
| 327  |      |         |      | 5.3 |         |
| 328  |      |         |      | 5.2 |         |
| +50  |      |         |      | 5.3 |         |
| 329  |      |         |      | 8.2 |         |
| 330  |      |         |      | 7.1 |         |
| T.P. | 5.51 | 1311.90 | 4.75 |     | 1306.39 |
| 331  |      |         |      | 5.4 |         |
| 332  |      |         |      | 4.9 |         |
| 333  |      |         |      | 5.0 |         |
| 334  |      |         |      | 5.7 |         |
| 335  |      |         |      | 6.2 |         |
| 336  |      |         |      | 7.5 |         |
| T.P. | 6.06 | 1310.85 | 7.11 |     | 1304.79 |



L.L. 112

Lt

Rt

Rt

L 7.8 L

L 7.5 L

On stake

L 6.6 L

L 6.0 L

L 5.3 L

L 5.2 L

5.3

8.2

7.1

on Hub

L 5.4 L

5.7 6.2  
30 15 4.9 L

L 5.0 L

L 5.7 L

L 6.2 L

L 7.5 L

on stake



| O    | + S  | $\pi$   | - S   | Red  | Elev    |
|------|------|---------|-------|------|---------|
|      |      | 1310.85 |       |      |         |
| 337  |      |         |       | 5.8  |         |
| 338  |      |         |       | 4.8  |         |
| 339  |      |         |       | 4.3  |         |
| 340  |      |         |       | 2.7  |         |
| T.P. | 9.55 | 1318.35 | 2.05  |      | 1308.80 |
| 340  |      |         |       | 8.3  |         |
| 341  |      |         |       | 6.6  |         |
| +50  |      |         |       | 4.1  |         |
| 342  |      |         |       | 5.4  |         |
| 343  |      |         |       | 7.5  |         |
| 344  |      |         |       | 9.1  | 8       |
| 345  |      |         |       | 11.7 |         |
| T.P. | 2.26 | 1310.35 | 10.26 |      | 1308.09 |
| 346  |      |         |       | 3.6  |         |
| 347  |      |         |       | 3.7  |         |
| 348  |      |         |       | 4.3  |         |
| 349  |      |         |       | 4.5  |         |
| 350  |      |         |       | 6.4  |         |



L.L. 17e

Lt.

2

Rt.

L 5.8 L

L . 4.8 L

L 4.3 L

3.5  
30 2.7 1.7  
30

On Hub

9.0  
30 8.3 5.8  
30

7.7  
30 6.6 4.7  
30

L 4.1 L

3.6 4.5  
30 10 5.4 L

L 7.5 L

L 9.1 L

L 11.7 L

on Hob

L 3.6 L

L 3.7 L

L 4.3 L

2.5  
30 4.5 L

6.4



| 0    | +5   | $\pi$   | -5   | Rod | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 1310.35 |      |     |         |
| 351  |      |         |      | 7.4 |         |
| 352  |      |         |      | 8.3 |         |
| B.M. | 2.36 | 1306.64 | 6.07 |     | 1304.28 |
| 353  |      |         |      | 4.0 |         |
| 354  |      |         |      | 5.2 |         |
| 355  |      |         |      | 5.1 |         |
| 356  |      |         |      | 3.7 |         |
| 357  |      |         |      | 2.7 |         |
| T.P. | 5.75 | 1310.17 | 2.22 |     | 1304.42 |
| 358  |      |         |      | 4.6 |         |
| 359  |      |         |      | 5.2 |         |
| 360  |      |         |      | 5.9 |         |
| 361  |      |         |      | 4.4 |         |
| 362  |      |         |      | 7.3 |         |
| 363  |      |         |      | 6.2 |         |
| 364  |      |         |      | 3.8 |         |
| 365  |      |         |      | 4.9 |         |
| T.P. | 6.36 | 1311.90 | 4.63 |     | 1305.54 |



L.L. line

Lt

E

Rt

L

7.4

L

L

8.3

L

Sp. in 10' Basswood 50' Lt. Str. 352715

L

4.0

L

L

5.2

L

L

5.1

L

L

3.7

3.2  
30

L

2.7

L

On Hub

L

4.6

L

L

5.2

L

4.8  
30

5.9

L

2.5  
30

4.4

7.0  
30

L

7.3

L

L

6.2

L

L

3.8

5.5  
30

4.9

On Hub



| 0    | + 5  | $\pi$   | - 5  | Rod  | Elev    |
|------|------|---------|------|------|---------|
|      |      | 1311.90 |      |      |         |
| 366  |      |         |      | 5.1  |         |
| + 20 |      |         |      | 8.0  |         |
| + 80 |      |         |      | 6.0  |         |
| 367  |      |         |      | 3.8  |         |
| B.M. |      |         | 5.07 |      | 1306.83 |
| + 50 |      |         |      | 4.6  |         |
| 368  |      |         |      | 6.3  |         |
| + 50 |      |         |      | 7.7  |         |
| 369  |      |         |      | 8.3  |         |
| 370  |      |         |      | 8.8  |         |
| + 50 |      |         |      | 9.4  |         |
| T.P. | 5.41 | 1308.15 | 9.16 |      | 1302.74 |
| + 60 |      |         |      | 10.4 |         |
| 371  |      |         |      | 6.1  |         |
| + 50 |      |         |      | 5.5  |         |
| + 75 |      |         |      | 6.4  |         |
| 372  |      |         |      | 9.9  |         |
| + 50 |      |         |      | 10.7 |         |



L. Line

Lt.

£

Rt

|     |     |     |     |
|-----|-----|-----|-----|
|     | 6.1 |     |     |
|     | 30  | 5.1 | L   |
|     | L   | 8.0 | L   |
|     | L   | 6.0 | L   |
| 6.0 | 5.3 | 2.9 |     |
| 30  | 20  | 15  | 3.8 |
|     |     |     | L   |

Spin 12" Bp. 60' Lt. Sta. 367+60

|   |     |     |     |
|---|-----|-----|-----|
|   | 5.6 |     | 3.8 |
|   | 30  | 4.6 | 30  |
| L |     | 6.3 | 6.0 |
|   |     |     | 30  |
| L |     | 7.7 | 6.4 |
|   |     |     | 30  |
| L |     | 8.3 | 6.4 |
|   |     |     | 30  |
| L |     | 8.8 | L   |
| L |     | 9.4 | L   |

On Track

|    |      |      |      |      |      |     |     |
|----|------|------|------|------|------|-----|-----|
|    | 4.6  | 5.2  | 9.0  |      | 9.4  | 8.4 | 5.6 |
|    | 20   | 17   | 8    | 10.4 | 10   | 17  | 22  |
|    | 5.6  | 5.6  | 5.8  | 8.9  |      |     |     |
|    | 30   | 25   | 10   | 5    | 6.1  | 4.6 | 9.0 |
| Rt |      |      |      |      |      | 16  | 30  |
|    | 10.8 | 10.8 | 5.7  |      | 5.8  | 8.7 | Lt. |
|    | 30   | 16   | 5    | 5.5  | 14   | 20  |     |
| Rt |      |      |      |      |      |     |     |
|    | 10.5 | 10.5 | 9.7  |      | 5.8  | 8.7 | Lt. |
|    | 30   | 20   | 5    | 6.4  | 20   | 30  |     |
|    | 6.0  | 6.3  | 9.4  |      | 9.4  |     |     |
|    | 30   | 15   | 5    | 9.9  | L    |     |     |
|    |      |      |      |      | 10.3 | 6.8 | 6.8 |
|    | L    |      | 10.7 | 10   | 20   | 30  |     |



| O    | + S  | $\pi$   | - S  | Rod  | Elev.   |
|------|------|---------|------|------|---------|
|      |      | 1308.15 |      |      |         |
| +75  |      |         |      | 10.2 |         |
| 373  |      |         |      | 7.6  |         |
| +50  |      |         |      | 6.1  |         |
| +65  |      |         |      | 5.0  |         |
| 374  |      |         |      | 5.4  |         |
| 375  |      |         |      | 5.7  |         |
| 376  |      |         |      | 6.2  |         |
| T.P. | 4.45 | 1306.54 | 6.06 |      | 1302.09 |
| 377  |      |         |      | 4.6  |         |
| 378  |      |         |      | 4.7  |         |
| 379  |      |         |      | 4.6  |         |
| 380  |      |         |      | 4.6  |         |
| 381  |      |         |      | 4.6  |         |
| 382  |      |         |      | 4.5  |         |
| 383  |      |         |      | 4.6  |         |
| 384  |      |         |      | 4.7  |         |
| 385  |      |         |      | 4.7  |         |
| T.P. | 5.47 | 1307.14 | 4.87 |      | 1301.67 |



# 2. Line

Lt.

C

Rt.

|     |      |      |      |     |     |     |
|-----|------|------|------|-----|-----|-----|
| 5.3 | 10.2 |      | 10.2 | 8.6 | 6.4 | 6.4 |
| 30  | 20   | 10.2 | 3    | 10  | 16  | 30  |

|     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|--|
| 8.3 | 5.7 | 5.7 |     | 6.3 | 6.3 |  |
| 30  | 20  | 10  | 7.6 | 10  | 30  |  |

|  |     |     |     |     |  |  |
|--|-----|-----|-----|-----|--|--|
|  | 8.0 |     | 5.3 | 5.3 |  |  |
|  | 30  | 6.1 | 15  | 30  |  |  |

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| 9.4 | 9.4 | 6.3 |     | 5.6 | 8.0 | 8.0 |
| 30  | 20  | 10  | 5.0 | 15  | 24  | 30  |

|   |     |   |
|---|-----|---|
| L | 5.4 | L |
|---|-----|---|

|   |     |   |
|---|-----|---|
| L | 5.7 | L |
|---|-----|---|

|   |     |   |
|---|-----|---|
| L | 6.2 | L |
|---|-----|---|

on stake

4.6

4.7

4.6

4.6

4.6

4.5

4.6

4.7

4.7

on Rock

Dyke



| 0    | +5   | $\pi$   | -5   | Red | Elev.   |
|------|------|---------|------|-----|---------|
|      |      | 1307.14 |      |     |         |
| 386  |      |         |      | 5.2 |         |
| 387  |      |         |      | 4.9 |         |
| 388  |      |         |      | 5.0 |         |
| 389  |      |         |      | 4.7 |         |
| 390  |      |         |      | 4.6 |         |
| 391  |      |         |      | 4.7 |         |
| 392  |      |         |      | 4.7 |         |
| 393  |      |         |      | 4.8 |         |
| 394  |      |         |      | 4.7 |         |
| T.P. | 4.27 | 1307.12 | 4.29 |     | 1302.85 |
| 395  |      |         |      | 4.7 | E       |
| 396  |      |         |      | 4.6 |         |
| 397  |      |         |      | 5.1 |         |
| 398  |      |         |      | 5.0 |         |
| B.M. |      |         | 4.77 |     | 1302.35 |
| 399  |      |         |      | 4.9 |         |
| 400  |      |         |      | 4.5 |         |
| 401  |      |         |      | 4.3 |         |



# L. Line

Lt.

C

Rt.

Dyke

On Rock

Sp. in Tel. Pole Lt. 398+00

5.2

4.9

5.0

4.7

4.6

4.7

4.7

4.8

4.7

4.7

4.6

5.1

5.0

4.7

4.5

4.3

Note:—

Dyke is 28 feet wide  
on the top. X-sec. Not necessary.  
Slope Rip-Raped with stone  
to keep from washing. C.G. Bank  
Fill in good shape



0

+5

π

-5

rod

Elev.

1307.12

402

4.1

403

4.0

404

4.0

B.M.

2.89

1306.36

3.65

1303.47

3.65

3.70

2.80

1303.56

T.P.

4.42

1307.27

4.27

1302.85

4.84

1302.43

8



L. Line

Lt

±

Rt

Dike

4.1

4.0

4.0

↓  
On North End of Dam Curb

= Slab at North Side

= Slab at South Side

= Elev. on South End of Dam Curb

Gov't Elev. = 1302.84

Checked Gov't B.M. by D. 41.

C. F. B.

Sept. 15 - 1922

Note:-

(when getting sections with  
Hand Level also get all Hub  
References.)



Turning levels to S.R. 1124

$$\text{Gout B.M.} = 1302.84$$

$$\begin{array}{r} + 4.84 \\ \hline 1307.68 = \pi \end{array}$$

$$\begin{array}{r} - 4.16 \\ \hline 1303.52 = \text{T.P.} \\ + 2.67 \end{array}$$

$$\begin{array}{r} 1306.19 = \pi \\ - 4.43 \end{array}$$

$$\begin{array}{r} 1301.76 = \text{T.P.} \\ + 3.80 \end{array}$$

$$\begin{array}{r} 1305.56 = \pi \\ - 2.01 \end{array}$$

$$\begin{array}{r} 1303.55 = \text{T.P.} \\ + 2.72 \end{array}$$

$$\begin{array}{r} 1311.27 = \pi \\ - 1.22 \end{array}$$

$$\begin{array}{r} 1310.05 = \text{T.P.} \\ + 4.95 \end{array}$$

$$\begin{array}{r} 1315.00 = \pi \\ + 1.3 \end{array}$$

$$1310.87 = \text{Curb Elev. at Rex Hotel}$$



Running West From S.E. Cor. Sec. 21

16

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

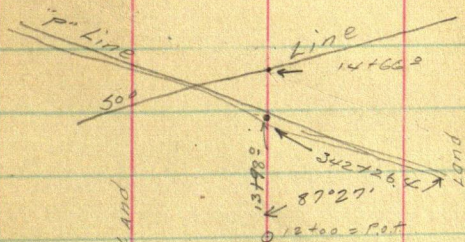
0500



↑  
Twp 42 N

$$018 + 81.7 = \text{P.O.T.}$$

$$016 + 78.7 = \text{P.O.T.}$$



Land

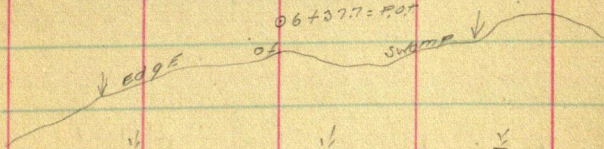
$$12 + 00 = \text{P.O.T.}$$

High

381° 30' N

High

$$06 + 27.7 = \text{P.O.T.}$$



Tamarac

Swamp

Sec. Cor



S.E. Cor. Sec. 21



Running West From SE. Cor. Sec. 21

26

25

24

23

22

21

20

19



Sec. Line 11-6

Page II

west

11.03.18 S

• Stout -- 025+73°

021+52.6 = Rot.



Running East From S.W. Cor. Sec. 10

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

0+00



Sec. Line 124

PAGE I

EAST

+

018+062 = P.O.T.

LAND

LAND

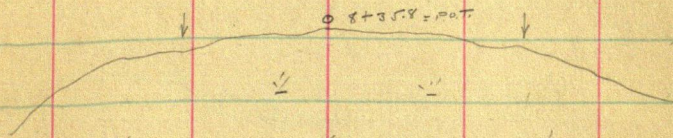
013+002 = P.O.T.

High

High

$\pi 82^{\circ} 30' E$

08+35.8 = P.O.T.



TAMARAC

SWAMP

Sec. Cor.  $\frac{11}{11}$  Wood stake = Original Cor.



Running East From S.W. Cor. Sec. 10.

37

36

35

34

33

32

31

30

29

28

27

26

25

24

23

22

21

20

19



Sec. Line 11°4

Page II

EAST

036+54.2

034+35.8 = 80.1

Land

High Land

029+60.0 = 89.9

"P" Line

223+82.8

182°30'E

5°26'32"

25+00 = 150.0

→ F. Don

41°41'

22+00 = 17.87



Running East From S.W. Cor. Sec. 10

52

50

45

+ 80

52

51

50

49

48

47

46

45

44

43

42

41

40

39

38



Sec. line 11-4

Page III

East  
↑

72° 36'

Sec. Cor.  
S.E. Cor. Sec. 10

210'

514.00 = Per.

1782.30' E

474.00 = Per.

Land

Land

High

High



Running East from  $\frac{1}{4}$  Cor. between Secs 16-21  
to Sec. Cor. S.E. Cor. Sec. 16.

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

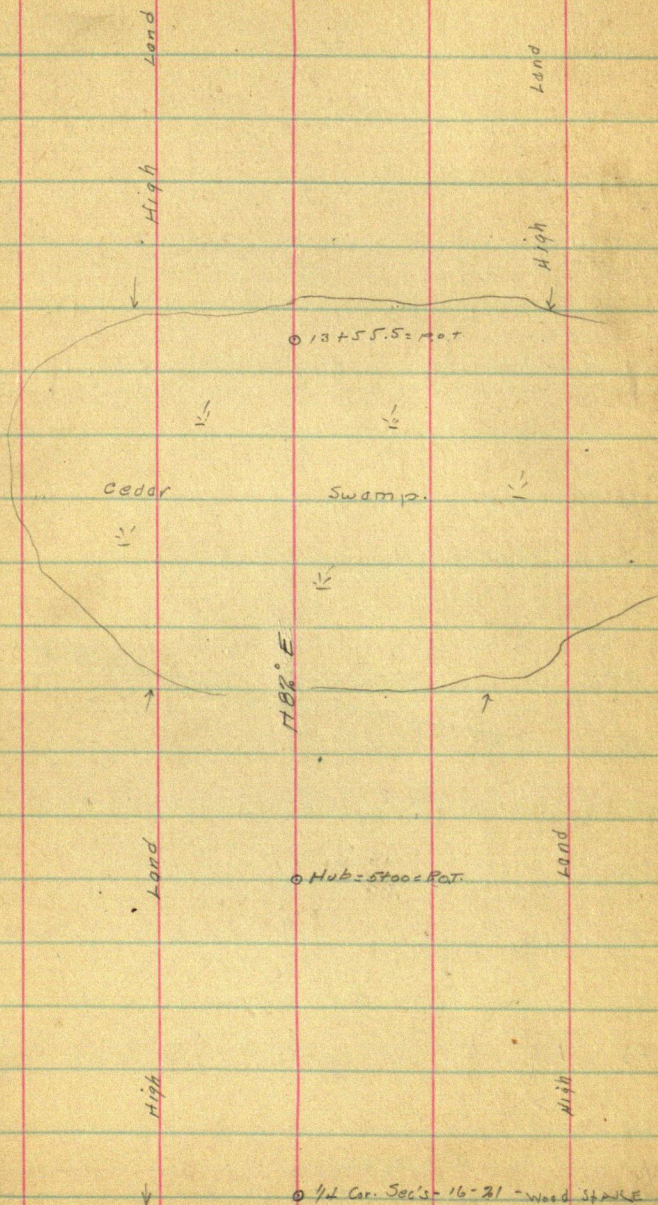
0 + 00



Sec. Line H-5

Page I

East





Running East From  $\frac{1}{4}$  Cor. between Sec's-16-21  
To Sec. Cor. S.E. Cor. Sec. 16.

---

+40

26

25

24

23

22

21

20

19



Sec. Line H=5

PAGE II

East

Sec. Line

"P" Line

282+63.4

Hub P.O.T.

26+34.8

$46^{\circ} 36'$

$82^{\circ} E$

22+62.2  
P.O.T.

$\odot 19+37.8 = P.O.T.$



Running East from S.W. Cor.  
Sec. 3.

$\frac{43}{910}$

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

0+00



(Sec. Line H.S. 3)

PAGE I

East

High

Land

Poplar Island

10+88.6  
ROT

1/1000  
S

1782° 30' E

0  
P  
E  
C

① J.W. Co. Sec. 3. = Wood Sec. Co.



Running East From S.W. Cor Sec. 3

37

36

35

34

33

32

31

30

29

28

27

26

25

24

23

22

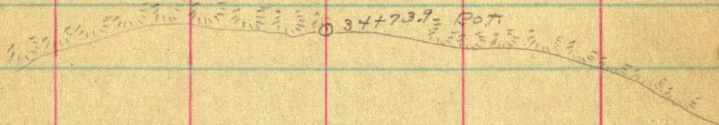
21

20

19

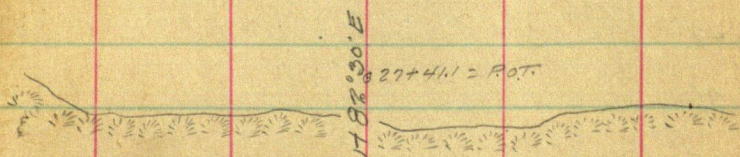


East  
X



031+25.1 = P.O.T.

Low Hardwood Land



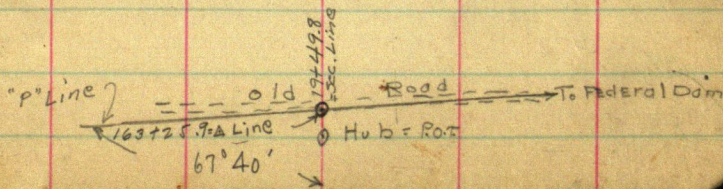
1782°30'E

27+41.1 = P.O.T.

High

Land

0 = 22+38.6  
P.O.T.





Running East From J.W. Cor. Sec. 3

+80<sup>2</sup>

58

51

50

49

48

47

46

45

44

43

42

41

40

39

38

(Note: Set Hub at 52 + 80<sup>2</sup>  
Looked for sec. cor. but  
could not find any B.t's  
and corner



4

11

11

11

11

11

11

11

Hub = 5 + 26 =

11

11

11

112200'E

11

11

11

11

11

11

11

40 + 754 = 1307

11

11

11

11

Swamp.

Tamarac.



Running East from S.W. Cor. 34

Town-Line

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

0+00



East 10

Hub = 16 + 56.8  
= Pot

Hub = 46.5  
= Pot

Tamarac

Swamp

1781° 45'E

Swamp

line

Hub = 443.8  
= Pot

High

Land

"P" Line

103° 11'  
1 + 90.3

100 + 55.3  
Road

→ Federal Dam

Bearing trees

X. Pine 9° N 23° E = 36 Links

X. Pine 10° N 46° W = 12 Links

Set Hub were Sec. Cor

Should of been. Found  
Bearing trees.



Running East from S.W. Cor. Sec. 37  
Random Line

37

36

35

34

33

32

31

30

29

28

27

26

25

24

23

22

21

20

19



East - N

Tamara Swamp

Hub: Pot

26+435 0 - 6.5' - 0 1/4 Cor.

Hub

Hub: Pot



E  
人  
々

37

36

35

34

+86°

33

58

32

51

31

50

30

49

29

48

28

47

27

46

26

45

25

44

24

43

23

42

22

41

21

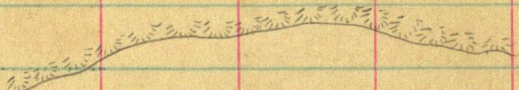
40

20

39

19

38



0 = 14.5

0 = Sec. Cor.  
Wood Stake

= S.E. Cor. 24

178° 45' E

48 + 20  
= 68.0

0 46 + 81.5 = 127.5

Low Poplar Ridge

0 Hvb. Pat.



0 + 59.4



4. Prime 9"  $\pi 23^{\circ}E = .36$  } Link 5  
 4. " 10  $\pi 40^{\circ}W = 12$

---

$$\begin{array}{r}
 129376 \\
 \underline{3} \\
 129876 = \\
 10:86
 \end{array}$$

$$\underline{\underline{13.07.62 = H. 1.}}$$

$$\begin{array}{r}
 130762 \\
 \underline{427} \\
 130335 \\
 \underline{442}
 \end{array}$$

$$\begin{array}{r}
 130777 \\
 \underline{484}
 \end{array}$$

$$1302.93 = B.M. = 4004$$

$$\begin{array}{r}
 12 \\
 \underline{66} \\
 7 \\
 \underline{11} \\
 7.92
 \end{array}$$

$$\begin{array}{r}
 36 \\
 \underline{66} \\
 216 \\
 \underline{216} \\
 2776
 \end{array}$$



$$\begin{array}{r}
 120.4 \\
 \hline
 50 \overline{) 6520.4} \\
 \underline{500} \\
 152 \\
 \underline{150} \\
 204 \\
 \underline{200}
 \end{array}$$

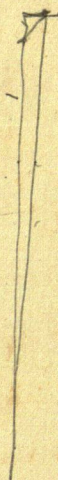
$$\begin{array}{r}
 163 \\
 \underline{52} \\
 215
 \end{array}$$

$$\begin{array}{r}
 194.76 \\
 \hline
 50 \overline{) 973833} \\
 \underline{500} \\
 473 \\
 \underline{450} \\
 238 \\
 \underline{200} \\
 383 \\
 \underline{350} \\
 33
 \end{array}$$

$$\begin{array}{r}
 66 \\
 \underline{15} \\
 594 \\
 \underline{600} \\
 450
 \end{array}$$

$$\begin{array}{r}
 257 \\
 \hline
 226 + 39.8 \\
 2 + 572
 \end{array}$$

$$\begin{array}{r}
 223 + 2.8 \\
 \hline
 \end{array}$$



$$25 + 76.5$$



$$\begin{array}{r} 400 \\ 5-1 \\ \hline 26+34.9 \end{array}$$

$$\begin{array}{r} 92.50 \\ 5.01 \\ \hline 101.51 \end{array}$$

$$\begin{array}{r} 66 \\ 1.8 \\ \hline 54.8 \\ 4.6 \\ \hline 108.1 \end{array}$$

$$\begin{array}{r} 26.1 \\ 3.5 \\ \hline 28.6 \\ 63.4 \end{array}$$

$$\begin{array}{r} 1309.30 \\ 4.1 \\ \hline 1313.44 \\ 22.8 \\ \hline \end{array}$$

$$\begin{array}{r} 1311.13 \\ 2.49 \\ \hline \end{array}$$

$$\begin{array}{r} 1313.62 \\ 4.40 \\ \hline \end{array}$$

$$\begin{array}{r} 1309.22 \\ 10.72 \\ \hline \end{array}$$

$$\begin{array}{r} 1319.94 \\ 1.97 \\ \hline \end{array}$$

$$\begin{array}{r} 1317.97 \\ 5.28 \\ \hline \end{array}$$

$$1323.25$$

$$\begin{array}{r} 44 \\ 66 \\ \hline 30.5 \\ 30.5 \\ \hline 51.5 \end{array}$$

$$\begin{array}{r} 210.0 \\ 163 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 20 \\ 343 + 000 \\ 23.6 \\ \hline 342 + 26.4 \end{array}$$

$$\begin{array}{r} 10183 \\ 228 \\ \hline 10411 \end{array}$$

$$\begin{array}{r} 999.2 \\ 10.72 \\ \hline 110.64 \end{array}$$

$$\begin{array}{r} 1317.97 \\ 4.98 \\ \hline 1322.95 \end{array}$$

$$\begin{array}{r} 1317.97 \\ 4.98 \\ \hline 1322.95 \\ 11.48 \\ \hline \end{array}$$

$$\begin{array}{r} 1311.37 \\ 9.44 \\ \hline \end{array}$$

$$\begin{array}{r} 1320.81 \\ 9.01 \\ \hline \end{array}$$

$$\begin{array}{r} 1311.80 \\ 7.62 \\ \hline \end{array}$$

$$\begin{array}{r} 1319.42 \\ 3.22 \\ \hline \end{array}$$

$$1316.09$$