

County Ditch No 8  
Alignment and  
cross section.

Snell School

PUBLIC BOOK

361

191

Cucco

## INDEX

Time sheet	Aug.	1
" "	Sep t:	60
Levels Main Ditch		52-56
Lot # 1		44
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**AUDITOR'S NOTICE OF PENDENCY  
OF PETITION.**

State of Minnesota, County of Cass, ss.  
Whereas, the petition of D. A. Clabaugh and others, bearing date the 1st day of June, A. D. 1916, praying for the establishment of a public ditch along the route proposed therein, has been filed in my office;

Now, therefore, notice is hereby given of the pendency of said petition, and that the same will be heard and considered by and before the board of county commissioners, at their regular session to be held at Walker, in the County of Cass, on the 11th day of July, 1916, at three (3) o'clock p.m.

A true copy of said petition is as follows, to-wit:

To the County Board of the County of Cass, State of Minnesota:

The undersigned land owners, whose lands will be liable to be affected by, or assessed for, the expense of the construction of the county ditch herein-after described, would respectfully represent that the public health, convenience and welfare and the reclamation of wet and overflowed lands require the establishment and construction of county ditch along the following described route in the Town of Remer in said County of Cass, and that the construction of the same would be of public benefit and utility, and is necessary for the following reasons, to-wit: Nearly all the months of the year, stagnant water stands in several pockets or pug-holes that can be drained by a ditch constructed as requested below. Said water is a menace to public health, also overflows two roads leading into the Village of Remer, making travel over said road almost impossible.

A general description of the proposed starting point, route and terminus of said ditch is as follows:

Commencing at a point that is known as the Barrow pit, on the north side of the Soo railroad tracks, in the nw $\frac{1}{4}$  of the nw $\frac{1}{4}$  of section 1, township 141-26, then running south about 700 feet, then westerly across section line into section 2, thence south to a point about 20 feet West of the quarter-post between sections 1 and 2, thence in a southwesterly course to a point in the se $\frac{1}{4}$  of the sw $\frac{1}{4}$  of section 2, thence following the swamp in a southeasterly course through the last described forty in section 2, and the following forties in section 11, the ne $\frac{1}{4}$  of the nw $\frac{1}{4}$ ; nw $\frac{1}{4}$  ne $\frac{1}{4}$ ; sw $\frac{1}{4}$  of the ne $\frac{1}{4}$ , se $\frac{1}{4}$  of the ne $\frac{1}{4}$ , and the ne $\frac{1}{4}$  of the se $\frac{1}{4}$ , to a point connecting with ditch established by the state in section 12, for draining the state road.

And terminating at the point where it connects with the ditch already established and before mentioned in section 12.

As its outlet, will be into ditch established by the state in section 12, said ditch flows into Willow river.

And your petitioners pray that you will proceed to establish such county ditch and cause the same to be constructed as provided by chapter two hundred thirty (230) of the General Laws of Minnesota for 1905 and acts amendatory thereof.

Dated June 1st, 1916.  
John M. Greene,  
H. C. Schultz,

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Now, therefore, notice is hereby given of the pendency of said petition, and that the same will be heard and considered by and before the board of county commissioners, at their regular session to be held at Walker, in

the County of Cass, on the 10th day of July, 1916, at the hour of 10 o'clock A.M.

A true copy, this 14th day of June, 1916.

As part is located 6 miles west and south of Pine River, slow

stream, which flows through the County

have a report to make at this

date. The investigating committee

on credentials at the above

same to be presented to the committee

President and Secretary of their

delegates to have credentials signed

ed.

sure before the delegates will be

0 cents per member paid into the

each club must have its yearly dues

paid by members or major fraction

are and one delegate for each 25

each club is allowed one delegate

paying members or major fraction

Wm. G. Hanson,  
James McMahon,  
J. F. Denneen,  
Carl Zitzloff,  
W. L. Tallerday,  
Fred L. Sanborn,  
Chas. A. Graham,  
Dr. R. E. Spinks,  
M. B. Patten,  
Alex Bush,  
D. A. Clabaugh,  
J. M. Egan,  
J. G. Hermes,  
Wm. Parise,  
Petitioners.  
(Seal)

C. D. BACON,  
County Auditor,  
Cass County, Minn.  
(6-23;7-7)

Dated June 14, 1916.

Bridge Mark 332 of

B.M. Miss. Riv. Conn.  
near loc. house of M. & J.  
P.R. at Pine River, Minn.

Sta P.P-L.R  
B.M. Elv. 1326.84 Sp. in  
N.W. cor. of Bridge on stringer

Water Elv. 1316.55

\* Hack - Long. Sta  
971 + 71.5 @ Large Birch Hut

Pole

~~B.M. Spike in 1st. Pole  
30' ft Sta 971+30~~

1329.68

29850

1337 + 78.5 on P.R. L. Road =  
CX H.L. Road 976 + 40.1  
R.P.s stump N.E. 22.5  
J.P S.E 29.8  
ff of Bridge 1324.75

P.R. L. Road  
B.M. 1328.79  
Shikra Tal Pole  
25' RT to 1322. + 50

Bridge  
1324 + 90 to 1325 + 08.0

B.M. 1331.31  
Shikra, 32, + 15 Tal Pole 40' R

# COUNTY DITCH №8

## INDEX

TIME SHEET August Page 1  
Sept. -- " 60

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R.O.W. Notes Lat No 2	"	79
Reference Notes Lat No 2 and Externals.	"	80
{ Cross section of Coditch № 8 } Main ditch	"	81-90
Lat No 2 of Coditch № 8	"	91-92
Lat No 1 " "	"	93
Lowering off take East side of S.R.H. 83. Beginning at 81A 1094685		
Ditch No 8	"	95-105

COUNTY DITCH NO 8

TIME SHEET

	F	S	M	T	W	T	F	S	M	A	J	U	G	C	H	S	T
*	5	6	7	8	9	10	11	12	13	4	15	16	17	18	19	20	21
1	1/2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1
1	1/2	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1

Aug 7. Bath \$0 & RR fare Tench Ass Lake \$1 Cross lake Benji .35 Supp. Benji .50 { 4.87 F. Holders Expense  
 R. Benji Walker .69 Chase Hotel .75 ~~farre Walker~~ Rene Suitts .67 ~~farre Walker~~  
 R.R. Fare Reine east Lake Benji .85 Supp Benji .50 F.R. Benji .50 R. Holders  
 Walker .69 Chase Hotel .75 RR Walker .67

Board Remer Hotel  
 Wilson Baldwin  
 Baldwin

Three Hells Hotel  
 Baldwin

Dix Bu. 18th Sept. 25.

County Ditch N<sup>o</sup> 8 L<sup>r</sup>

Saturday Aug 5<sup>th</sup>/14  
Fine & warm

J. F. Wilson Asst. Engineer +  
H. F. Baldwin Rodman

A W Moulster takes us  
in his Auto to Remer from Pine  
River minnesota to commence  
the Survey of County Ditch N<sup>o</sup> 8  
as per petition attached to front  
leaf of his note book.

We arrive in Remer about  
2 P.M. having had dinner at  
a creek - A W moulster applying  
the ratables.

J. F. Wilson & H. F. Baldwin  
immediately start out to  
locate the Starting Point of said  
ditch after looking over Part of  
the proposed location we  
go back to town and consult  
several of the petitioners.

We have supper at the  
Remer Hotel A W moulster arranged to stay  
here while on this survey.

J. F. Wilson

3

Sunday Aug. 6/16

We consult John Green  
Re. corners of Sections in the  
immediate vicinity of Ditch ~~for old~~  
route.

Greens also shows us the  
approximate location of  $\frac{1}{4}$  between  
T 2 - 14 R - 26 as per the Sec Ry.  
Survey -

He spend the <sup>rest of</sup> day at the  
Keweenaw Hotel.

F. L. Wilson

<sup>4</sup>  
Monday Aug 11/16

Time & Cost.

J. F. Wilson Ass't. Engineer  
H. F. Baldwin Rodman

We ran preliminary levels from starting point of ditch to the proposed outlet it being ditch E from near the  $\frac{1}{4}$  cor between 11 + 12 141 - 26 being the outlet of side ditches on State Rural Highway No 81

We spend the balance of the day in finding I.M. 500 by  $\frac{1}{4}$  cor between 1 + 2 141 - 26 I. P. in square lead N.W. cor of sec. 1 141 - 26.

We quit at 6 P.m.

J. F. Wilson

## County Ditch N28

5

TUP 141-26

Aug 7/16  
Preliminary Levels

Sta.	+S	H I	-S	Elev	
000	11.28	11.28		100	Water level in Barren R.
B.M.	4" spike Sel. Pole N & do Ry. at Barren R.		7.38	103.90	
TP	4.95	106.13	10.10	101.18	
TP	4.93	106.16	4.90	101.23	
TP	6.34	107.21	5.29	100.87	B.M.
TP	3.68	107.21	3.68	103.53	
TP	9.48	114.00	2.69	104.53	
TP	5.66	114.82	4.84	109.16	
TP	3.65	110.01	8.46	106.36	
TP	5.40	107.35	8.06	101.95	
TP	6.04	104.72	8.67	98.68	
TP	1.97	103.65	3.04	101.68	
TP	4.74	96.59	11.80	91.85	
TP	5.05	95.92	5.72	90.87	
TP	4.46	94.40	5.98	89.94	
Bottom C.M. Culvert W End			7.60	86.80	
" " E "			7.85	86.55	
Bottom Ditch W			8.15	86.25	
" " E			8.17	86.23	
4" nail in 3" sewer in N.E.	B.M.		3.76	90.74	

Top. 141-26 County Detch N. 8  
Tuesday Aug. 8/16 6

J. J. Wilson Asst Engineer -  
J. J. Baldwin Rodman.

We go to the  $\frac{1}{4}$  cor between 141-26  
and run section line west to  
NW cor of Sec. 1 141-26

000  $\frac{1}{4}$  cor 1 + 36 141-26  
871 approx centre of street 15K  
E Reine Hotel.

$\begin{array}{r} 1500 \\ 200 \quad 300 \\ \hline \end{array}$  1500 1500 Slough just comes to  
seeline

267818 N.W. cor Sec. 1 141-26  
L  $S 88^{\circ}33' E$ .

We get 300. R.F. land ties Sec. 1  
141-26 and check the location  
of T.M.  $\frac{1}{4}$  cor. between 142  
141-26 -

As we cannot get Alewife for  
100 a day I spoke also to Mr. Webster  
who was very willing to pay  $\$250$  per day

Tuesday Aug. 11<sup>th</sup>

We then run Sec. Line S  
from N.W. Cor. sec. 1.

000 N.W. cor. sec. 1,

Lle. S 88° 33' E

1315.1 Cq R.R. L N 135° 82' E

1331.6 Hub

1347.9 Jack in Tie siding

1355.8 1/4 Cor (supposed) Plym

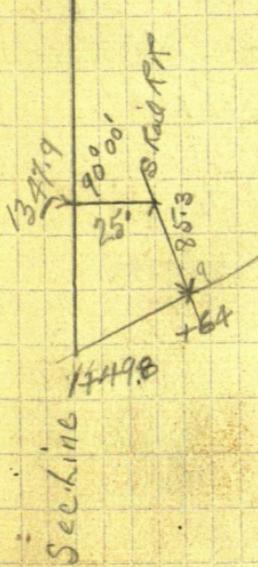
2704.1 I.M., 1/4 Cor Selma 1/2

I purchase 2 Bals. of Ruth  
from Lewis Lumber Co. .50<sup>0</sup>

J. G. Wilson

County Ditch No 8  
Sup 141-26  
Wednesday Aug 9/18

F. J. Wilson Asst. Engineer  
H. F. Baldwin Rodman & Clapp  
Alex Bush Axeman  
Westake & of Ditch 25' E of Sec.



- 000 Head of Ditch  
20' W Bonow Pit  
+20 Edge of Bonow Pit  
+40 N End of Culvert (Prop.)  
+64 S R.R.  
1 S End of Culvert (Prop.)  
1449.8 Hub.  
L 5134° 26' NE  
13450 Closes Flynn Road  
134864 Cross  $\frac{1}{4}$  Line E & W  
14450 Hub.  
Lat #1 & N 135° 21' SE

9

H. F. Baldwin goes to Federal Barn  
on the 3 P.M. Train

Alex Bush & I locate approx.  
1/4 Ditch along road <sup>metres</sup>  $\frac{1}{4}$  lane  
in 2 about 6000 feet. Then  
South into meadow then  
southerly into swamp.

We quit at 6 P.M.

J. Wilson

County Ditch No 8  
Aug. 14-26

10

F.H.

Saturday Aug 10/18

J. Wilson Asst Engineer  
Alley B. ysh Ate  
John Shelloo ate

We continue cutting S west  
into Swamp up to the  $\frac{1}{4}$  line N & S  
in sec 2.

In P.M.

H F Baldwin returns from  
Federal Dam & we go to  
Sec Cor. 1, 2, 11, 12 & run line  
west we cut about 2100  
feet and quit at 6 P.M.

J. Wilson

11

County Ditch No 8

Top. 141-26

Friday Aug 11  
16

J. H. Wilson Asst Engineer.

H. F. Baldwin Rodman, Allynwood

✓ John Shelton Asst Engineer

Continue line west. to Post  
between 2 & 11

000 Sec. Cor. 1, 2, 11, 12

1800 Hub.

1447.5 Hub.

1906.5 Hub.

1920 enter Spruce Poplar.

2507.2 Hub. enter swampy ground

2664.9 Hub.  $\frac{1}{4}$  Cor. Stake S 55.9'

From Hub 2664.9 turn angle E 92° 30' S

Set Hub 541' Turn angle N 92° 40' W

33 Hub.  $\frac{1}{4}$  Cor 1.8's + 3' E

1322 Supposed.  $\frac{1}{16}$  Cor.

2645 Sec Cor. 2, 3, 10, 11, Stake N 1'  
all PTS here

County Ditch N<sup>o</sup> 8  
Twp. 141-2<sup>0</sup>

12  
Friday Aug 11/16

We run N from Sec. Cos. 2, 3, 10, 11  
 $L N 91^{\circ} 31' E$

Swamp.

000 Sec. Cos. 2, 3, 10, 11

1003.2 Sub.

1320.5 Supposed  $\frac{1}{4}$  cos. 1' 3' W

1684.9 Sub + notch in tree stump

2200 leave Swamp

2676.5 Sub.

J. Flynn, surveyor & cruiser has reference  
ties to  $\frac{1}{4}$  cor. between 2+3+ we will  
make correction as soon as we can  
get notes from Flynn  
We quit at 6 P.M.

F. Fairlawn

Note. —

2672.2 Sub.

$\frac{1}{4}$  cor. sets W 22.9 ft.

13

Aug-14-26 ~~Cloudy~~ Ditch No. 8.  
 Saturday Aug 13  
~~Cloudy~~

F. F. Wilson asst. engineer  
 A. T. Baldwin Rodman, Alex  
 Bush & John Shetler Axeman.

We go to Sec Cor 2, 3, 10, 11 &  
 Run line South.  $1588^{\circ} 29' E$

000	Sec Cor 2, 3, 10, 11 $1588^{\circ} 29' E$
1000	Leave Sam Swamp
1249.6	Sub.
1631.8	Sub.
2002	Sub.
2200	Enter Sam Swamp.
2662	Sub. $\frac{1}{4}$ cor between 10, 11 $\frac{4}{4}$ stands W 11.9'

We run East  $15889^{\circ} E$   
 000 Hds. 2662 - 11.8' E of  $\frac{1}{4}$  Cor.  
 2100 leave swamp.

We quit at  
 5 p.m.  
 F. F. Wilson

County Ditch No 8

Sunday Aug 13/16 14

We do not work.

County Ditch no 8  
15 Top. 141-26  
Cloudy Monday Aug 11/16  
F.F. Wilson Ass't Eng'g'r  
H.F. Baldwin Rodman & Son  
Alex Bush, John Shelton Alex

We continued running line  
E from  $\frac{1}{4}$  between 10 & 11

22 59.7 Hub

26 50.8 Hub

35 38 Hub

39 50 enter muskeg

4500 ridge

4556.1 Hub Swamp

46 86 Hub

47.25 enter Swamp

53 40.8 Hub  $\frac{1}{4}$  cor between 11 & 12  
5 stuck Post,

Note change from  $\frac{1}{4}$  Post to  $\frac{1}{4}$  Post  
 $= 53\ 40.8 + 11.9 = \underline{\underline{53\ 52.7}}$

County Ditch No 8  
Twp 141-26-  
mon day Aug. 14  
16

We run section line between  
11 & 12 N from  $\frac{1}{4}$  Cor.

000  $\frac{1}{4}$  cor. between 11 & 12  
 $\angle W 88^{\circ} 21' N$

1278.6 Sub

2653.7 sec cor. 12, 11, 12  
into  $L^c S 92^{\circ} 24' N$  with  
Random line run west along N by  $9^{\circ} 11'$   
Road deflection going N  
Defl.  $1^{\circ} 18'$  Right  
into  $L^c SW$  cor Sec 2  
with Random line run west from  
S.E. cor. of sec.  $W 88^{\circ} 54' N$ .

000 sec cor. 12, 11, 12

NOTE:-

367.6 Sub,

Correct dis. 2637.5 I.M.  $\frac{1}{4}$  cor. between 11 &  
is 2646.2'; so deflection going N.  
indications are that  $1^{\circ} 25'$  Left.  
the point that they used as Sec. Cor.  
is 8.7' North of true Cor.

17

County Ditch No 8

Sup. 141-26

Tuesday Aug. 15/16

Warm &amp; clear

J. F. Wilson Asst. Engineer

H. T. Baldwin Rod &amp; Flag

Alex Bush &amp; John Shellen Acremen

We set  $\frac{1}{4}$  cor between 2 + 3  
 from J. Flynn's notes he having  
 placed corner & witness trees & same  
 from Govt Bearing Trees which  
 were destroyed in making Town Road.  
 on  $\frac{1}{4}$  line E & W. in Sec 2.

B. 15 to  $\frac{1}{4}$  Cor Sec 2 + 3 - 141-26

Tan 105 16E 41'

Tan 13N 8W 29'

$\frac{1}{4}$  Cor stands W 22.9' from Sh. 3  
 26 72.2' NW our line from N from  
 Sec Cor 2, 3, 10, 11.

We run line E

000  $\frac{1}{4}$  Cor. between 2 + 3

0 22.9 Sh. 26 72.2

LS 88° 43' E

1334 Fence  $\frac{1}{16}$  cor supported.

Twp. 141-26 County Ditch No 8

13

26 59 (Fence.) supposed  $\frac{1}{16}$   
26 64 old fence  $\frac{1}{16}$  sec

2793.8 Hub.

4101.2 Sub

5359  $\frac{1}{4}$  cor between 1+2  
stands 11.3' S.

We make correction + set  
Hub 4101.2 S 8.6'

Correction

$$\frac{11.3}{5359} \times 4101.2 = \underline{\underline{8.6'}}$$

We run Q of ditch 25' South  
of  $\frac{1}{4}$  line E & W

19

County ditch No 8

Tues Aug 14/10

We continue ditch & 25' S  $\frac{1}{4}$  back  
in Sec. 2

14 + 13 Hub.

$L^{\circ} W 87^{\circ} 45' N$

deflection  $92^{\circ} 15' Right$

→ 27 + 02 Hub

$L^{\circ} E 88^{\circ} 06' S$

deflection  $91^{\circ} 54' Left$

See Change  
Aug 25 + 03

31450.4 Hub.

$L^{\circ} W 122^{\circ} 01' N$

deflection  $57^{\circ} 59' Right$

48 + 56.3 Hub.

Fence E  $122^{\circ} 17' S$

We quit work at 6 P.M.

H. Wilson

County Ditch N<sup>o</sup> 8

20

Wednesday Aug 15/14

Cloudy & Hot

H.F. Wilson Asst Engineer

H.F. Baldwin Rod & Flag.

Alex Bush & John Shelton Axe.

We locate P of Ditch in  
SE  $\frac{1}{4}$ , NW  $\frac{1}{4}$  sec 11 - 241-26

It rains in afternoon  
about 2 P.M.

H.F. Baldwin assists me in  
calculating & writing notes.

J.F. Wilson

21

County Ditch No 8.

Thursday Aug 17/17

Extremely hot + millions mosquitoes

J. F. Wilson Asst. Engineer

H. F. Baldwin Rodman & Flag

Alex Bush Aperian

We locate ditch & through  
NW  $\frac{1}{4}$ , NE  $\frac{1}{4}$  sec. 11 - 141-26 &  
into NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  sec. 11 - 141-26  
We use compass on location  
Survey.

J. F. Wilson

County Ditch No 8

22

Friday Aug 18/16

Hot & Extremely Sultry

F. F. Wilson Ass Engneer  
G. F. Baldwin Rodman & Flagg.  
Alex Bush & John Shelton Hd

We cut  $\frac{1}{4}$  of Ditch through NN $\frac{1}{4}$   
NE $\frac{1}{4}$  sec 11 into NE $\frac{1}{4}$  NN $\frac{1}{4}$   
sec 11 about 700 feet.

We continue  $\frac{1}{4}$  Ditch from  
Sta 48+56.3 to Sta 55+50

48+56.3 Sub  
52 00 Island.

55+50 Sub.

LE 122° 17' S

refl. 57° 43' Left

23

## County Dist No 8

Saturday Aug 19/16

Rain &amp; Cloudy Very Rotten P.M.

T. T. Wilson asst. Engineer

H. F. Baldwin Rod &amp; Flag

Alex Bush &amp; John Shelton A.R.

In A.M. I wrote notes  
 & H. F. Baldwin get a iron  
 from Station at Soo Ry - J.W.  
 Curs having shipped several  
 & Remet & go to.

$\frac{1}{4}$ . cor between secs 1+36  
 141-26 - 142-36 where foot  
 notes call for the following

B.T.S.

Prop dist

Pop. + N 65° E 100s. = 6.6 7'  
 W.P. 8 S 38° W 58 4s. = 38.3. 41.2  
 we find U.S. B.T.S and.

Set I.M. + pits 4'E + 4'N'

B.T.S. proposed stand

pop 10 N 55° E - 7'  
 stp. W.P. 14 S 48° W - 41.2

County Ditch No 8

24

Saturday Aug 19  
18

In P.M. with crew continue  
cutting & of main ditch thro'  
 $\text{S.E. } \frac{1}{4}$ ,  $\text{SW. } \frac{1}{4}$  sec. 2 +  $\text{NE. } \frac{1}{4}$ ,  $\text{NW. } \frac{1}{4}$   
sec. 11 +  $\text{NW. } \frac{1}{4}$ ,  $\text{N.E. } \frac{1}{4}$  of sec. 11.  
Twp. 141-26, Remond Twp.

55+50 Hub.

L E  $122^{\circ} 17' S$

defl.  $57^{\circ} 13' L$ eft.

64+19.5 intersect s by sec 2

$\frac{1}{4}$  between 2 + 11 stands  
S  $88^{\circ} 25' E$  589.6'

66+14 Hub

L N  $119^{\circ} 47' E$

deflection  $60^{\circ} 13' L$ eft

92+14.1 Hub.

L S  $145^{\circ} 37' W$

deflection  $34^{\circ} 23' R$ ight

We quit work at 6 P.M.

F. Wilson

25

County Ditch No 8

Sunday Aug 20/18

We do not work

J. Wilson

County Ditch No. 8

monday Aug 21<sup>26</sup>/18

Rain + Cool.

J. J. Wilson Asst. Engineer  
H. G. Baldwin Rod + Flag.

In A.M. we work on notes  
and in P.M. we got  $\frac{1}{4}$  cor.  
~~Step~~ between 2 + 3 - 141 - 26  
and set I.M. with Bearing  
keels as follows

Tam. step 10  $519^{\circ}E$  41'  
" step. 13  $N21^{\circ}W$  29'

" we set I.M. true sec cor. 1, 2, 35, 36

New B.T.S

Norway 8	$545^{\circ}50'N$	$56.7'$
Poplar 18	$N 8^{\circ}15'W$	$58.7'$

J. J. Wilson

27

County ditch No 8

Tuesday Aug 22/

Cool &amp; cloudy to fair &amp; warm.

F. F. Wilson Asst Engineer  
 A. L. Baldwin Rod & Chain  
 Alex Bush & John Shelton Work.

Line routine & of ditch to outlet.

92+14.1 Hub

LS  $145^{\circ} 37' W$ defl.  $34^{\circ} 23'$  Right105+52.1 Hub =  $49 + 11.9 \frac{1}{4}$  Line  $\frac{W}{E}$ LS  $116^{\circ} 55' E$ defl  $63^{\circ} 05'$  Left

109+68.5 Hub

LS  $92^{\circ} 08' N$ defl  $87^{\circ} 52'$  Right

113+73.3 Hub. End of Ditch.

Note sta. 109+68.5 to sta. 113+73.3

Q. West Bank of side ditch S.H.A.

S.R.H. # 83. Q  $25' W$  see line.

## County Ditch No 8.

28

Aug 22/16

## Levels.

Sta	T.S	H.I.	-S	Elev	Remarks
B.M.	4.84	Nail in 3" Saw E side		90.64	
W End of culvert.		Road at State Ditch			
	95.48	8.68		86.80	
113 + 13.3			6.6 ground	86.7	
			8.6 ditch	86.9	
113			6.9 ground		
			8.3 ditch		
112			6.3 ground		
			8.5 ditch		
111			6.25		
			7.80		
110				89.0	
			6.3		
			8.0	87.5	
109 + 68.15			6.1		
			8.30		
TP.	5.03		5.53	89.95	
	94.98				
109			5.30		
108			5.40		
107			5.10		
106			4.8		
105 + 62.1			5.2		
B.M., sg'd 7" Saw stP. Jack in painted top			2.30	92.68	
TP.	4.96		4.24	90.14	

29

County Ditch N<sup>o</sup> 8

Aug 22/16

Sta	+5	HI	-5	Elev	Remarks
		95.70			
105			5.7	90.2	
104			5.9	89.8	
103			5.4	90.3	
102			5.4	90.3	
101 + 50			5.9		
101			5.4		
TP.	5.17		5.06	90.64	
		95.81			
100			4.9		
99			5.0		
+ 50			4.6		
98			4.3		
97			5.0		
96			5.0		
95 + 50			4.8		
TP	5.72	96.93	4.60	91.21	
95			6.0		
94			5.6		
93			5.1		
92 + 141			5.40		
BM	Sqd. 3" square pointed top 50' N.N.N		4.42	92.51	
TP.	4.96		4.67	92.26	

## County Ditch № 8

Aug 22/16 <sup>30</sup>

Sta.	to	HT	-S	Elev	Remarks
92		97.22	6.0		
91			5.5		
90			5.2		
89			4.8		
88			5.1		
87			4.9		
86			5.0		
TP.	3.52	98.65	2.09	95.13	
85			6.1		
84			5.8		
83			5.3		
82			5.3		
81			5.0		
80			5.0		
TP.	4.24	99.66	3.23	95.42	
79			5.8		
78			5.3		
77			5.4		
76			5.3		
75			5.5		
74			5.5		
TP	5.38	100.21	4.83	94.43	

31

County Detch No 8

Aug 22/16

Sta	+S	H I	-S	Elev	Remarks
		100.21			
73			5.5		
72			5.2		
71			5.1		
70			5.4		
69			5.6		
68			5.2		
TP	4.27	100.30	4.08	96.13	
67			5.0		
66+14			5.1		
66			5.1		
65			4.7		
64			5.2		
TP+BM	4.84	100.64	4.50	95.80	7 nail in fence post
63			5.0		
62			5.4		
61			5.3		
60			5.3		
59			5.4		
58			5.3		
TP	4.68	100.36	4.46	96.18	

## County Ditch No 8

32

Aug 27/16

Sta	TS	HI	-S	Elev.	Remarks
57		93.65	5.6		
58			5.1		
55+50			5.3		
55			5.1		
57			5.4		
53.			4.6		
TP.	5.73	104.19	2.40	98.46	
52			8.80		
+10			8.6		
51			8.6		
50			4.8	99.4	
49			5.6	98.6	
B.M.			4.0	100.19	4" nail in 6" Buck 15' N

33

County Ditch No 8

Wednesday Aug 23/16

Clear &amp; warm

T. Wilson Asst Engineer

H. T. Baldwin Flag &amp; Chain

Alex Bush &amp; John Shultz Ake.

We go to  $\frac{1}{4}$  Cor between 2 + 11 - 14 1/2  
 to Run  $\frac{1}{4}$  line N + S.

	000	$\frac{1}{4}$ Cor. Between 2 + 11
Cloud Swamp	1258	Intersect main ditch at Run 48 + 56.
	1470	Klement water hole 25' W
	1850	Land.
	25.98	Klement N fence limit
	26.55	Fence N side road $\frac{1}{4}$ line E 460
Past	2800	Swamp
	2906.7	Sub. Cloud Swamp
	3531.9	Sub.
	3700	enter Swamp
Spur Past	3959	Spike in stump E 2.5' supposed $\frac{1}{4}$ Cor.
	41.22	Sub.
	4250	Leave Swamp proper
	4888.4	Sub
Spur Past Bldm	5298	$\frac{1}{4}$ Cor between 2 + 35 stands E 1.5'

We find one U.S. B.T. S.E. & set Cor. Lump

County Ditch No 8

34

Aug 23

1916

See Plan Way Sec 2 E

000 - 53 01.5 Hect.

1° E 88° 49' S

300 wet

500

1265 Hect

begin work at 6 P.M.

J. Carlson

35.

County Ditch No 8

Thursday Aug 24/16

Clear &amp; warm

T. Johnson Ass't Engineer

L. T. Baldwin Flag &amp; Chain

Alex Bush &amp; John Shelton Aide

we continue running N by E sec. 2

1335.1	1265 Hub
1350.0	1337.8 L 300.0y
212685.1.	1719.1 Hub
1342.5	2161.2 Hub
30	
1312.5	

2670.2 Sec Col 1, 2, 3, 5, 36  
 Stand N 18'  
 L<sup>le</sup> S 91°42' W

we change location of P main  
 ditch Sta. 27402 to Sta 32+59

27402 Hub

27488 Sub.

 $LS 88^{\circ} 47' E$ deflection  $91^{\circ} 13'$  Left

32+96.4 Sub

 $LW 122^{\circ} 41' N$ deflection  $57^{\circ} 19'$  Right

Note. Sta 32+59 = Sta 32+96.4

County Ditch No 8

Aug 24/16 36  
/16

Sta 32 to Sta 33 = 137.4'

We locate Lateral #2 in SW $\frac{1}{4}$  NE $\frac{1}{4}$   
Sec. 2.

000 ftns = Sta 2788 main ditch  
L W 88° 47' N

0+58 Hub  
• L NW 141° 20' S  
Deflection 38° 41' Left

7 high land W 1000 E 400

8 point

9+25 leave point W  $\frac{1}{4}$  line E + W

11 high land W 200 E 400

13 " " W 300 E 400

14+18.6 Hub

L 2 153° 24' W

Defl. 23° 36' Left.

19+95 Hub End of Ditch

= 39 59 NW  $\frac{1}{4}$  line N + S

31

County Ditch #08

Aug 24/  
1/8

Lateral #1

000 Sub. 14+13 Main Ditch

0+37 Sub

$\angle N 135^{\circ} 25' E$

depth.  $44^{\circ} 35'$  Left

16

7+66 Ints. fence

11+80 Ints. road

12+00 End of Lateral #1

County Ditch No 8

38

Friday Aug. 25/16

Rain & Cloudy

F. T. Wilson Asst. Engineer

H. J. Baldwin Flag & Chain & Rod.

Alex Bush & John Shelton Axe

Set I. M. and dig pits

4' E & 4' W at  $\frac{1}{4}$  Cor. Between  
2 + 35.

live Run levels sta. 49 to  
sta. 27488 main ditch  
and lateral #2 from sta 0+00  
to sta 19+95 End of ditch.

39

## County Ditch No 8

## Main Ditch

Aug. 25/16

sta	+5	H.I.	-5	Elev	Remark
B.M.	4.59	104.78		100.19	mail in 6' Box at sta 49+0
48+56.3			5.9		
48			5.7		
47			4.7	.	
46			5.0		
45			4.8		
44			5.3		
43			5.1		
T.P.	3.52	104.92	3.38	101.40	
42			5.5		
41			5.4		
40			5.4		
39			4.6		
38+50			3.4		
38			3.7		
37			5.05		
T.P.	2.90	104.94	2.88	102.04	
36			5.6		
35			5.5		
34			4.9		
33			5.5		
<u>32+59=32+964</u>			5.4		
T.P.	6.11	106.83	4.72	100.22	

## County Ditch No 8

Aug. 25/16 ~~40~~

sta	+s	HI	-s	elev	Remarks
32		106.33	6.3		
31			5.9		
30			4.3		
29			3.8		
28			3.8		
27+88			4.2		
TP.			3.75	102.58	Main Ditch
TP.			4.43	101.90	Lateral #2
 Lateral #2					
TP.	5.67	107.57	4.3	101.90	
0+58			5.40	<u>101.90</u>	
1			5.5		
2			5.9		
3			4.7		
4			4.9		
5			5.0		
TP	5.72	109.17	4.12	103.45	
6			6.4		
7			6.2		
8			5.5		
9 +50			4.1		
10			4.6		
11			6.4		
			6.5		

# County Ditch No 8  
Lateral #2

Aug 28/6

Sta.	+5	H.I.	-5	Elev	Remark
TP.	5.17	108.15	5.59	103.58	
12			5.1		
13			5.4		
14 +14			5.0	.	
			5.5		
<u>B.M.</u>			<u>3.0</u>	105.75	4" mail in Bal. Sta. 25W
15			4.1		
16 +50			6.6		
17		6.9	6.8		
TP.	5.27	108.84	5.18	103.57	
18			6.5	102.3	
19			5.7	103.1	
19+95			5.45	103.4	

## County Ditch No 8

42  
Saturday Aug 26/16

J. Wilson Ass't Engineer

L. F. Baldwin Engineer

Alex Bush & John Shelton Workers  
live Run levels - m. A.M.

Sta	+S	H.T	-S	Elav	Remarks
TP.	5.62	107.90		102.28	Hub at 27+88
27			5.9	102.0	
26			5.9	102.0	
25			5.2	102.7	
24			5.3	102.6	
23			5.7	102.2	
22			6.4	101.5	
TP.	4.36	106.33	5.94	101.97	
21			5.0	101.3	
20			5.2	101.1	
19			5.1	101.2	
18			5.4	100.9	
17			5.6	100.7	
16			5.8	100.5	
TP. B.M.	4.84	105.94	5.23	101.10	g' nail in place Post 25' N
15					
14+35			4.5	101.4	
14+13			4.9	101.0	
14			5.1	100.8	
TP. B.M.			5.08		Hub. Previous hub

43

## County Ditch No 8.

Aug. 26/16

Sta	+S	HI	-S	Elev	Remarks
13		105.94	5.1	100.8	
12			5.3	100.6	
TP.	4.77	106.39	4.32	101.62	
11			5.7	100.7	
10			5.4	101.0	
9			5.1	101.3	
8			5.4	101.0	
7			5.5	100.9	
6			5.7	100.7	
TP.	4.85	106.59	4.65	101.74	
5			6.0	100.6	
4			5.6	101.0	
3			5.3	101.3	
2 + 50			5.4 <del>6.44</del>	101.2	
2			6.9	99.7	
1 + A 9.8			6.5	100.1	
TP.	10.48	111.22	5.85	100.74	
1 + 25			8.9	102.3	
1			3.50	107.7	
0 + 85			3.20	108.0	
0 + 45			9.40	101.8	
0 + 20			10.20	101.0	
Water Level	1.5' water		11.82	100.00	
B.M.			7.79	103.43	2' spike in Tel pole 25' L SLE Otpo

County Ditch No 8 44

Sat. Aug 26/16

Lateral #1

sta	+5	H.I	-5	Elev.	Remarks
0+37		105.89	5.2		
1			5.3		
2			5.9		
TP.	4.99	105.49	5.39	100.50	
3			5.7		
4			5.6		
5			5.4		
6			5.2		
7			4.7		
8			4.9		
TP.	5.28	107.05	3.72	101.77	
9			6.5	100.6	
10			5.5		
11			3.7		
11+50			3.9		
12			5.3	101.75	
B.M.			4.31	<u>102.74</u>	<u>4" spike</u> <u>NW cor Mill</u>

45

County ditch No 8

Saturday Aug. 26/16

In P.M. unknown section line  
 Between Dees 2+3 141-26  
 North from  $\frac{1}{4}$  Post.

Toples - British - Brundt - 1600	000 $\frac{1}{4}$ cor. stands W 22° 9' L N 91° E. Angle of intersection with true $\frac{1}{4}$ line 27 N thru center of Sec 2.
2000	Land 800' E drains E
2046.3 Hub.	Land 700' E drains E
26 38.8	Sec. cor. 23, 34, 35 stands W 33° 4'

We find U.S. B.T.

W.P. 24 S 18° W 24.4'

We set I.M. from this B.T. and  
 take new B.T.s as follows

W.P. 25 N 26° E 45'  
 Poplar St. 10 N 45° 30' W 13.7'

County Ditch No 8 ~~45~~  
Sat Aug 26/16

W.P. stp. 20 S  $45^{\circ}$  E 18.2'

We quit at 5 P.M.  
today Cloudy.

J. F. Wilson

#1

County Ditch No 8

Sunday Aug 27/16

warm & clear

J. F. Wilson Ass't Engineer  
H. F. Baldwin Rodman

Check Levels from Sta  
113 + 73.3 to Sta. 12 on main ditch

49

County ditch No 8

Monday Aug 28  
1916

F. Wilson Asst Engineer  
H. H. Baldwin  
John Shelton.

Take Shelton & check  
levels Lateral #2

Baldwin sets iron at  
 $\frac{1}{4}$  cor between 2 + 11' { 141 - 26  
 $\frac{1}{4}$  " 10 + 1 " }  
 $\frac{1}{4}$  sec cor. 2, 3, 10, " taking  
near Bearing Trees as follows

$\frac{1}{4}$  cor between 2 + 11'

W. Birch 10 N  $50^{\circ}$  E 37'  
Balsam 7 N 63 W 46.2'

sec cor 2, 3, 10, "

Tan 5 S  $62^{\circ} 30'$  W 18.2'

Tan 5 S 59 E 10.3'

Tan 5 N 23 E 33.9

Tan 5 N 75 W 38.7

$\frac{1}{4}$  cor between 10 + 11'

Balsam 5 S  $43^{\circ} 30'$  W 15'  
Tan 5 12 N  $21^{\circ}$  W 11.6'

County Detet No 8 50

Monday Aug 29/16

Lateral #2

sta.	+ s	H.I.	- s	Elev.'	Remarks
19+95		107.47	4.40	103.07	
Stp. BM			2.87	104.60	Slope 1/16 C.R. at 1325
19			5.0		
18			5.6		
17			5.9		
16			5.8		
15			3.6		
14+18			4.8		
TP	3.44	107.61	3.30	104.17	
14			4.7		
13			4.9		
12			5.5		
11			5.1		
10			5.3		
9			3.7		
8			4.6		
TP	3.63	107.60	3.64	103.97	
7			5.5		
6			5.7		

51

County Detach N<sup>o</sup> 8

Aug. 28/16

Sta	+5	HJ	-5	Elev	Remarks
4		107.60	5.4		
3			5.4		
2			5.5		
TP	3.48	106.73	4.35	103.25	<u>Hub.</u>
			5.0		
+58			5.05		
0+00			4.46	102.27	<u>Hub.</u>

## County Ditch No 8

52

## Main Ditch Checked. Levels

Sta	+S	H.I.	-S	Elev	Remarks
B.M.	4.62			90.70	
Top Culvert	TP	95.32	6.52	88.80	4" nail in TAM. 50' T west end of Culvert DRH #22
113+73.5				88.90	
113				88.70	
112				89.20	
111				89.20	
110				89.20	
109+68.5				89.10	
109				89.70	
108				89.60	
107				89.80	
106				89.90	
105+62.1				89.70	
B.M.			2.70	92.52	Tack in end TAM 50' SDR
TP	4.52	95.15	4.69	90.63	
105					
104					
103					
102				5.1	
101				5.1	
100				4.5	
99				4.7	
TP	3.10	95.75	2.50	92.65	
98				4.9	
97				5.0	
96				5.1	
95				4.9	
94				4.8	
93				4.3	
92+14				4.4	
B.M.			3.20	92.45	Tack SDA SDR STP 50' T
TP	4.48	96.67	3.56	92.19	
92				5.4	
91				5.3	
90				4.8	
89				4.7	
88				4.7	
88 <sup>86</sup>				4.7	
TP	3.14	98.22	1.54	95.09	

53

County Ditch No 8.  
Main Ditch Levels

Sta.	+S	H.I.	-S	Elev.	Remarks
			98.22		

85			5.8	
84			5.8	
83			5.4	
82			5.1	
81			4.9	
80			4.7	

TP.	3.77	99.16	2.83	95.39
-----	------	-------	------	-------

79			5.4	
78			5.3	
77			5.3	
76			5.0	
75			5.0	
74			4.9	

TP.	4.97	99.75	4.38	94.78
-----	------	-------	------	-------

73			5.5	
72			5.2	
71			5.1	
70			5.1	
69			5.1	
68			4.9	

TP.	3.88	99.94	3.69	96.06
-----	------	-------	------	-------

67			4.7	
66+14			4.9	
66			4.9	
65			4.4	
64			4.5	

B.M. TP.	4.39	100.22	4.11	95.83	Find in fence post
----------	------	--------	------	-------	--------------------

63			5.3	
62			5.1	
61			5.2	
60			5.1	
59			5.0	
58			4.6	

TP.	4.20	100.47	3.95	96.27
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## County Ditch No 8

54

## Main Ditch

## Levels

Sta.	+S	H.I.	-S	Elev.	Remarks
57		100.47		5.2	
56				4.9	
55				4.8	
54				5.0	
53				4.1	
TP	5.22	103.80	1.89	98.58	
52				3.4	
51				8.4	
50				4.8	
49				5.0	
B.M.				3.81	4' nail in Birch 10' R.
48				5.2	
47				4.4	
TP	3.96	104.06	3.70	100.10	
46				4.9	
45				4.6	
44				5.0	
43				4.6	
42				5.1	
41				5.3	
TP	6.39	105.57	4.88	99.18	
40				6.9	
39				6.0	
38				4.9	
37				6.0	
36				6.7	
35				6.9	
TP	5.25	104.12	6.70	98.87	
34				4.7	
33				5.1	
$32 + 59 = 32 + 964$				4.9	
32				4.6	
31				4.3	
TP	5.64	107.19	2.66	101.46	

55

## County Ditch #8

## Main Ditch Levels

Sta.	+5	H.I.	-5	Bler.	Remarks
		107.10			
30			5.9		
29			4.9		
28			5.0		
27+88			4.83	102.27	Hab. T.P.
27+88			5.2		
27			5.4		
26			5.5		
TP.	3.67	106.67	4.10	103.00	
25			4.4		
24			4.4		
23			4.6		
22			5.2		
21			5.7		
20			5.6		
TP.	4.70	105.49	5.88	100.99	
19			4.8	100.7	
18			4.9	100.7	
17			5.0	100.5	
B.M.			4.47	100.86	4" nail in fence post
16			5.0	100.5	
15			5.0	100.5	
14+13			4.9	100.6	Steel.
TP. B.M.	4.77		3.87	101.62	Hab at 12+00
13					
12					
11			5.7		
10			5.4		
9			5.1		
8			5.4		
7			5.5		
6			5.7		
TP.	4.85	106.59	4.65	101.74	
5			6.0		
4			5.6		
3			5.3		
2+50 { Top			5.4		
Bot.			6.4		

County Ditch No. 8  
Main Ditch Levels

56

Sta.	+ s	H.I.	- s	Elev.	Remarks.
2				6.9	
1449.8				6.5	
TP	10.48	111.22	5.85	100.74	
1+25	Bot			10.80.	
	TOP			9.1	
1				8.9	102.3
+85				3.5	108.7
+60				3.2	108.0
+45				9.40	101.8
+20				10.2	101.02
Water Level				11.22	100.00 Bonne Pit 1.5' water
B.M.				7.79	103.43 # nail in Telegraph 25' to

57

County Ditch No 8

Monday Aug. 28/16

J. T. Wilson → A. J. Baldwin  
take the 3<sup>rd</sup> fm. Soo. Line  
to Bemiji. Have supper at  
Markham House and take the  
midnight m/s to Walker.  
We stay at the Chase Hotel in  
Walker.

R.R. fare Temes to Bemiji	<sup>to Cass Lake</sup>	\$1.26 each
Supper Markham		.50 each
R.R. Bemiji to Walker		.69 each

J. T. Wilson

County Ditch No 8

28

Tuesday Aug. 29/16

J.J. Wilson Ass't Engineer & H.F. Baldwin take the 4.20 AM train to Pine River. Baldwin spends the day working on estimates County Ditch No 8 & I spend part of day on Estimates Ditch No 8.

Expense Chase Hotel .75<sup>c</sup> each  
Rodrigos & Breakfast

R.R. Walker to Pine River .67 each,

J.J. Wilson

59

County Ditch No 8  
Sept. 5/16

J. J. Wilson Ass't Engineer.  
I work on Estimated County  
Ditch No 8 - in A. C. Knobles's  
Office at Pine River

J. J. Wilson

61

**County Ditch # 8  
TIME SHEET**

T	M	J	A	S	J	N	T	S	J	A	S	N	T	W	I	T							
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

18      \$ 1

F.F. Wilson

Travellers Board  
Hotel Pine River

*Expense*

RR. Pine River to Walker	.67
Supper Hotel Chase	.40
RR. Walker to Pine River	.67

61

County Ditch No 8

Sept 6/16

work on Estimates County  
Ditch No 8

H. Wilson

County Silo No 8

62

Tuesday Sept. 12/16

I work in Plat County Silo  
No 8

P. Wilson

63

County Ditch No 8  
Wed Sept. 12/16

Work on Plots County  
Ditch No 8

Wilson

County Ditch No 8 64  
Shans. Sept 13/16

Work on Plots & Estimates

County Ditch No 8

J. J. Wilson

65

Sept. 14/16

Work on Plat Estimates  
County Ditch No 8

H. Wilson

66

Sept 15/16

Work on Estimates

County Ditch N<sup>o</sup> 8

T. Carlson

67

County Ditch No 8

Saturday Sept. 16/16

~~Work on Plots~~  
~~Estimates County Ditch No~~  
8 —

J. H. Wilson

County Ditch No 8

68

Monday Sept. 18/16

I work on Estimate County  
Ditch No 8

I go to Walker on the 3<sup>15</sup>  
P.M. train to get information  
to complete flat County Ditch  
No 8.

Expense R.R. fine River Walker .67

Super Hotel Chase .40

R.R. Walker fine River .67

H. G. Carlson

69

County Ditch No 8  
Tuesday Sept. 19/16

Work on Estimates  
County Ditch No 8.

J. Wilson

County ditch no 8 70

Wednesday Sept 20/16

I work now estimates County  
Ditch No 8.

J. J. Wilson

11

County ditch No 8  
Thursday Sept 2<sup>1/2</sup>

Work on Waukesha County  
ditch No 8

J. G. Wilson

County Ditch No 8 12

Friday Sept 22/16

Work on Estimates County  
Ditch No 8

J. Wilson

73

Det. Sept 23 / 16

Work on estimates County  
ditch No 8.

J. G. Wilson

County Ditch No 8

33

Monday Sept 25/16

Work on Estimates County  
Ditch No 8.

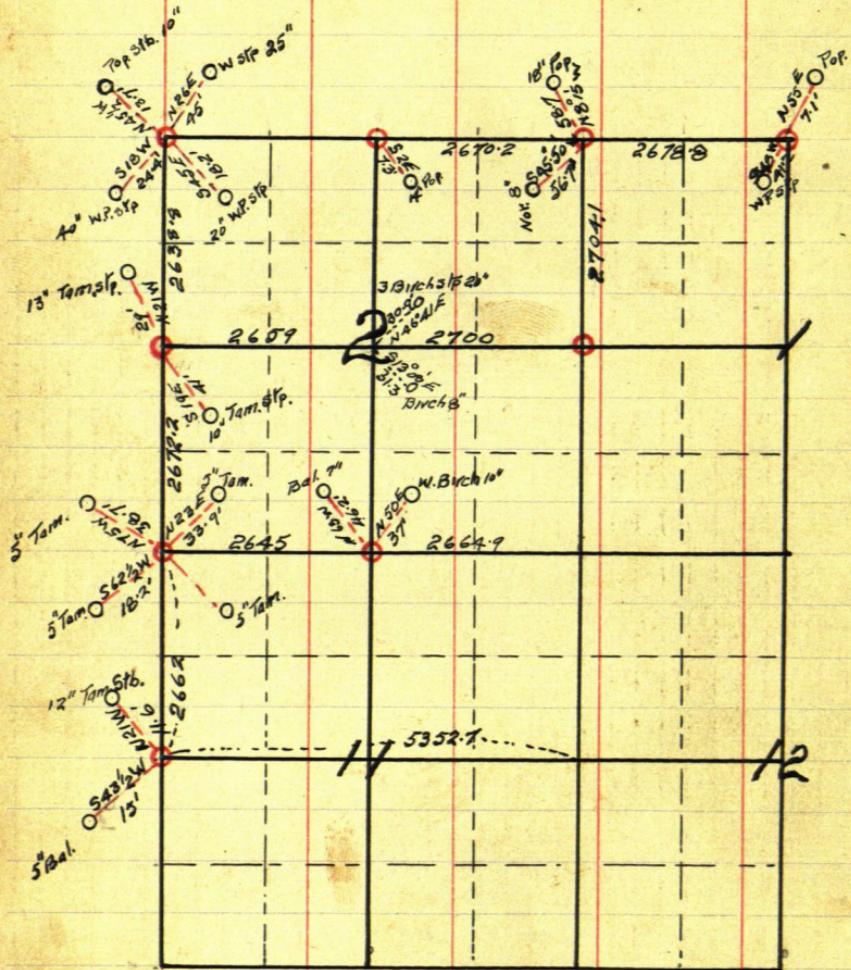
J. J. Wilson

75

County Ditch N<sup>o</sup> 8

Plat secs. 1, 2, 11, 12. Twp. 141, Rg 26.

Showing

I.M.S. & B.T.S. To be recorded.

County Ditch No 8. 76  
Tuesday Sept. 26 /16

I work in Ammons tax  
office at Pine River  
and finish making flats, profiles,  
& estimates County Ditch No 8.

J. F. Wilson

77

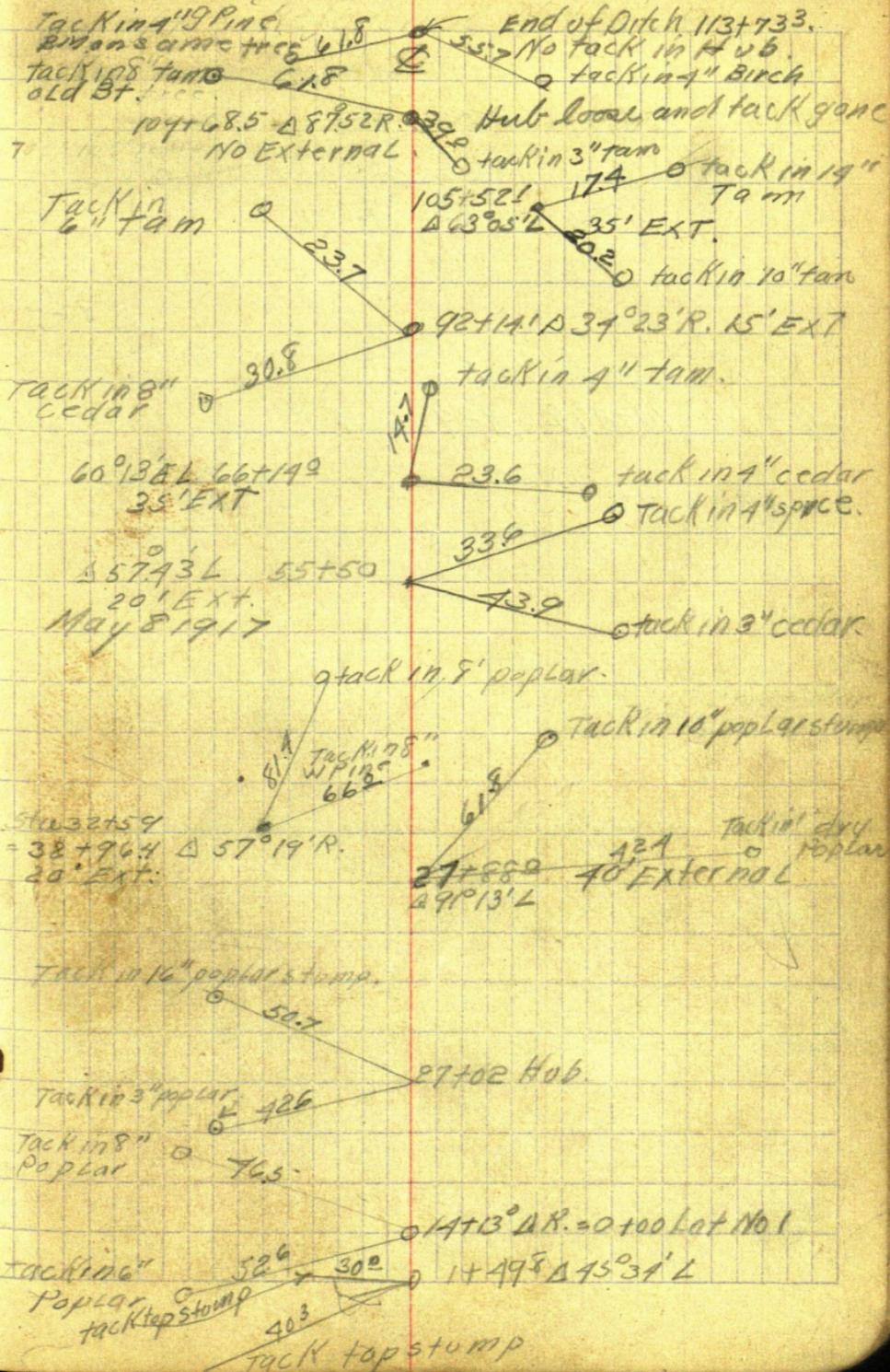
Right of way notes on Co  
Ditch No. 8. May 1, 1917  
Main Ditch

sta	to sta.	total dist	R.D.	W.	sq feet	feet
2756 <sup>0</sup>	3787 <sup>0</sup>	131 <sup>0</sup>	30 FT.		3930	.0902
1175 <sup>0</sup>	13700	125 <sup>0</sup>	30 FT		3750	.0860
18756	52700	3381.4	35 FT		118349	2.7196
32700	33700	137.7	35		TOTAL DIST	
52700	113733	6173.3	30		INCLUDING LONG	
					STA.	
						4.2545
						<u>7.1423</u>

For grubbing M.D.

2756 <sup>0</sup>	3787 <sup>0</sup>	131	30'	.0902
1175 <sup>0</sup>	13700	125	30'	.0860
15700	27788	1288	30'	8870
				<u>1,0632</u>
		1.063		
		30		
		<del>31.890</del>		

J.F. Pomeroy Asst Engr. Ext And  
G. Crossman. Axeman. Reference Notes



79

## Row of Way

Lat No 2 of Main Ditch No 8,  
sta to sta dist. of Row. sq ft. Acres.

27+88°	28+17	29.	35'	
80	16+00	1600	<u>Ex 35'</u>	1.309
17+17	19+95	278	25'	0.160
				1.469

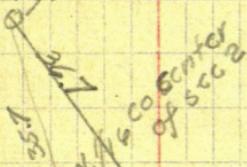
## Lat No 1.

6+00	10+292	429.	25'	0.296
				1.715

May 7 1917  
 EXternals and  
 Reference Notes on Lat Noz. Co Ditch #8

85

Tack K 105" Dry tam.



Tack K 103 "Palsoor" 36.7' 1917.95° End of Lat Noz.

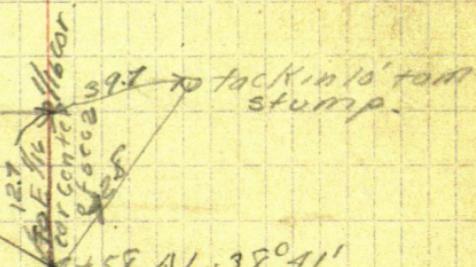
Tack K 108" Dry tam.

O

Tack K 108" Dry tam. 146.6'

1918.6 15' External  
 32° 36' L

tack K 105" cedar 36.7'  
 fence post O



158 AL 38° 41'

	Elev of Bottom	CROSS SECTION of CO Ditch NO E	out.	cu yds.	
113	86.80	2.1		5.4	"
112	86.85	2.4		8.2	"
111	86.90	2.3		9.8	"
110	86.95	X 2.3		9.8	"
109		2.7		50.9	
108		2.5		53.9	
107		2.4		50.9	✓
106		2.6		53.9	✓
105		2.5		53.9	✓
104		2.5		53.9	✓
103		2.7		50.9	✓
102	87.15	2.3		452.4	✓

continued on next page.

45 ft. per Month of May 1917.

Rood Contractors  
Wadona Minn.

45 ft. per Month of May 1917.  
56.28 + 0.13 + 733.  
6999.1 cu yds.

Sept 1. 1917

3

82

STATION	ELEV OF BOTTOM	CUT.	EXCA CU.YDS.	MARSH DITCH
101	87.85	2.2	45.2 ✓	
100		2.8	78.0 ✓	
99		2.5	53.9 ✓	
98		2.7	53.9 ✓	
97		2.5	53.9 ✓	
96		2.3	48.0 ✓	
95	✓ 0%	2.3	45.2 ✓	
94		2.3	45.2 ✓	
93		2.3	45.2 ✓	
92		2.7	50.9 ✓	
91		2.4	50.9 ✓	
90	88.95	2.9	57.0 ✓	

continued  
on next page63.1 ✓  
660.9 ✓ CUBIC YDS

Final made out May 16 1918

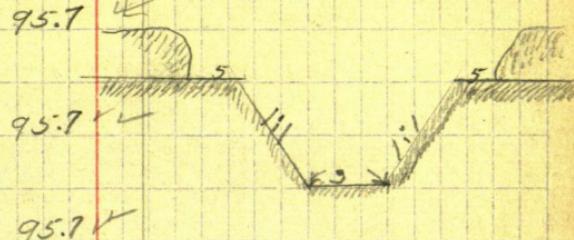
STA	ELEV OF Bottom	CUT.	EXCA. cu yds.	COUN
89	89.05	2.9	60.1 ✓	
88		2.7	57.0" ✓	
87		2.7	57.0" ✓	
86		2.8	63.4" ✓	
85		3.0	63.4" ✓	
84		2.9	66.7" ✓	
83	10%	3.2	77.0" ✓	
82		3.3	80.6" ✓	
81		3.5	88.0" ✓	
80	89.95	3.6	91.8" ✓	
79		3.8	93.7" ✓	
78		3.7	91.8" ✓	
77		3.7	890.5= ✓	cu yds

## TRY DITCH №8

SEPT. 1, 1917.

84

STA.	ELEV OF Bottom	CUT.	EXCA cu. yds.
76	9036	38	95.7 ✓
75	9095	38	95.7 ✓
74		38	91.8 ✓
73		3.7	91.8 ✓
72		3.7	91.8 ✓
71	✓	38	95.7 ✓
70		3.7	91.8 ✓
69		3.7	91.8 ✓
68		3.7	99.7 ✓
67		40	99.7 ✓
66		3.8	99.7 ✓
65	91.45	40	103.7 ✓

7244.60 cubic yds

STA.	ELEVAT	CUT	EXCA.
	BOTTOM.		cu yds.
85-			
64	915.5	3.9	3' Bottom
		3.	88.0 ✓ 1 to 1 slope
63		3.3	
62	90%	3.4	80.6 ✓
	0%		77.0 ✓
61		3.2	73.5 ✓
60	919.5	3.2	73.5 ✓
59		3.1	73.5 ✓
58		3.2	66.7 ✓
57		2.8	63.4 ✓
56	90%	2.9	63.4 ✓
	0%		
55		2.8	53.9 ✓
54		2.4	53.9 ✓
53		2.7	
52		1.9	15.2 ✓
			812.6 cu. yds.

Sept 1 1917

86

sta	Elev of Bottom	CUT	EXCA Cuyds	
57	80	1.7	320.1 ✓	3' bottom
	80		80.6 ✓	1 to 1 slope
50	93.95 - <del>2 XXXXX</del>	5.1	138.7 ✓	
49		4.4	125.0 ✓	
48		4.5 -	143.4 ✓	
47		5.1	118.1 ✓	
46		4.9	143.4 ✓	
45	80	4.9	134.0 ✓	
44	80	4.5 -	134.0 ✓	
43		4.9	129.5 ✓	
42		4.3	112.0 ✓	
41		4.0	103.7 ✓	
40	94.95 -	3.9	116.3 ✓	
				<u>1340.7 cu, yds</u>

Sta	Elev of Bottom	Cut	cuyds	EXCav
37	95.05'	4.6		148.1 ✓
38	95.15'	5.5		148.1 ✓
37	95.25'	1.4		103.7 ✓
36	95.35'	3.6		84.3 ✓
35	95.45'	3.4		91.8 ✓
34	95.55'	3.9		91.8 ✓
33	95.65'	3.4		120.9 ✓
32	95.80	37		95.7 ✓
31	95.90	3.9		129.5 ✓
30	96.00	5.2		183.7 ✓
29	96.10	6.1		200.0 ✓
28	96.20	5.9		183.7 ✓
27	96.30	54		1397.6 cuyds ✓

2157

✓ 137.7

1/0/0

3' Bottom 1:1 slope C & D Pitch No 8

EXCAV

cuyds

Road Construction  
Wadence Minn

Aug 1917

Est. for Month of Aug 1917  
sta 28 to sta 113 + 73.3  
6999.1 cuyds ✓

Coditch №8 9/1.17

stn	Elect Bottom	cut	Exca cuyds.	3' Bottom 1 To 1 slope	88
				162.9 Brat Fwd	
26	9640	52		183.7	
				173.1	
25-		5.8			
				189.0	
24		5.7			
				178.7	
23		5.4			
				148.1	
22	✓ 90%	7.6			
				120.6	
21		9.1			
				103.7	
20	X 97.00	3.9			
				95.7	
19		3.7			
				88.0	
18	0%	3.5			
				80.6	
17	0%	3.3			
				77.0	
16		3.3			
				77.0	
15-	97.25	3.2			
				77.0 1571.1	
				1759.8	

			Condition No 8
			3' Bottom 11% Slope
89			
870	ELCY of Bottom	CUT	cu yds.
14	97.30	3.4	
			87.3
13		3.5-	
			80.6
12		3.2	
			77.0
11		3.3	
			80.6
10	.055-970	3.5-	
			87.3
9		3.5	
			87.3
8		3.4	
			80.6
7		3.3	
			73.5-
6		3.0	
			66.7
5		2.9	
			70.0
4		3.2	
			80.6
3	97.85-	3.5	
			10.3
150	97.88	3.5	902.8

## CO. ditch No 8.

Sept 1, 1917

	ELEV OF STATION	Bottom cut	EXCA. cu yds.	3' Bottom 1:1 slope
			27.0	
2	97.90	18		
			510.0	
+25	97.94	4.1		
			29.1	
1	97.95	4.4		
			8.7	
+40	97.98	4.6		
			16.9	
+20	97.99	3.0		
			6.9	
00	98.00	1.0		

Summary cu yds.

M.D.	- - -	9781.6
LAT N°1	- - -	698.7
LAT N°2	- - -	2377.5

Total 12827.8

Deepening of  
Off take for 2680      3439

Grand total 13171.7

Excav.

Clearing M.D. 7.14 ft

" " LAT N°1 6.72 ft

" " LAT N°2 1.7 ft

Total Clear. 10.33

Grubbing M.D. 1.06 ft

Road Co. & Co. Inc.  
Est. Farmington  
of Sept 1917  
STATION TO 2680  
2963.7 cu yds  
Lat N°1 698.7  
Lat N°2 2377.5  
5804.1

Cement tile  
culvert 2' x 60'

## LAT. No 1 of Co. ditch N

sta.	Bottom ELCV	CUT	cuyds	
00	9730	33		NO FC 00 = 14413 M.D.
137	9730	3.4	292	3' Bottom 1101 scope
			48.5	
1	9740	32		
2	9750	25	63.7	
3	9760	22	48.0	
4	9770	22	92.4	
5	9780	23	45.2	
6	9790	24	74.6	
7	9800	28	53.9	Est. Prod. Construction Co. for month of Sept 1917
8	9810	25	57.0	
9	X 9820	24	49.5	
10	9870	2.9	57.0	
			88.0	
11	99.20	12	70.0	
12	99.70	20	698.7 cu yds	

No 8. Sept 6, 1917.

94

Nov 8 1917

	BS	HI	FS	ELCV	SM
95	2.23	99.75			92.52
00				6.0	888.
-				80	868
1				6.2	886
-				8.0	868
2				6.3	885
-				7.8	87.0
3				6.4	88.4
-				8.0	868
TP	3.33	92.73	8.0 <sup>2</sup>	5.35	89.90
+95				5.5	872
TT				6.3	86.4
4				5.2	87.5
+06				2.9	84.8
+15				1.8	90.9
+25				2.7	90.0
+30				4.7	88.0
+34				4.7	88.0
-				6.4	86.3
5				4.2	88.5
-				4.6	86.3
6				4.1	86.3
-				6.4	86.3
7				4.9	87.8
-				6.4	86.1

continuation of Ditch No 8

from 109+68.5 MD = 0400

10 = 109+68.5-

in ditch

in ditch

in ditch

in ditch

west end culvert top

in ditch

top slope

Edge Road SRH 83

center

Edge

top slope

End culvert

End culvert in ditch

5

in ditch

in ditch

97

BS

HI

FS

ELCV

9273

8

5.3

7

—

4.4

86.1

9

1.9

87.8

—

6.8

85.9

10

4.8

87.9

—

7.0

85.7

11

5.7

87.0

—

12.3

7.2

85.5

TP

190

91.50

3.13

89.60

12

4.3

87.2

—

3.9

85.6

13

4.2

87.3

—

6.2

85.3

14

4.5

87.0

—

5.9

85.6

+32.6 A

5.0

86.5

—

6.0

85.5

BM

305-

88.45

15-

4.8

86.7

—

6.4

85.1

16

5.1

86.4

—

6.4

85.1

17

5.5-

86.0

—

6.4

85.1

Nov 8 1917 Foggy

98

in ditch

Tall in 1' tall stamp 23 L 14 + 50

in ditch

in ditch

in ditch

99	BS	HI	FS	EACH
----	----	----	----	------

91.50

18

18+94 A

19 ~~#~~

T.P.

310

90.35<sup>15</sup>

51

86.4

64

85.1

51

86.9

73

87.2

87.25

20 A

—

40

86.4

55

87.9

20+77.5 A

21

—

46

85.6

54

84.8

22

—

45

85.9

58

84.6

23

—

45

85.9

58

84.6

23+43 A

T.P.

210

89.65<sup>70</sup>

310

87.25

24

—

42

85.5

51

84.9

25

—

42

85.5

55

84.2

25

A L

24

—

44

85.1

52

84.4

A 26+28 A L

Nov 8 1917 Fo

100

From page 101

1331.4 Gas. Sta. Base

1.5 Rod

1332.9 H. I

1327.9 5' A. Ground

1324.7 8.2 Con. N.

1325.75 7.15 " S

13244.55 8.35 "

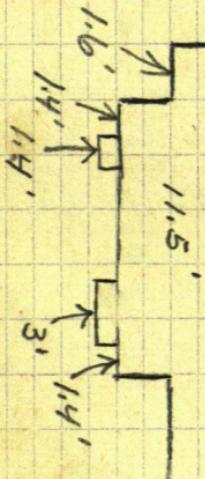
1323.5 overflow 9.4

1322.5 Fishway 10.4

1321.5 opening

Water 4" over dam

Level of water  
1324.0 8.95  
above



101	B.S.	H.I.	F.S.	
		89.65		
24780			63	83.7
B.M.			2.83	8682

June 20, 1933

Notes on levels at Longville.  
 Pine River - Longville Road  
 tied to Miss. River Comm. B.M. at  
 Pine River, B.M. near section house.

1337+78.5 on P.R.-L.Road =  
 OX H.L. Road 976+40.1

	Elev
1322+50 - 25' Rt. Sp. in Tel pole	1328.79
Bridge West end 1324+90	Gone
East end 1325+08	Gone

1321+15 - 40' Rt. Spin Tel pole

Hack-Long, Road.

B.M. Spike in Tel. Pole  
 Sta. 971+30 - 30' Left Gone 1329.68  
 Approx. Elev 1334.65 Sta. 1316.65 Top. Cul

H.I. 3.15  
1337.80

T.P. 1328.65 1328.65 Rail on Bridge  
4.9 3.95

H.I. 1333.55 1324.70 ✓ Bridge Floor  
2.15 1.15

L 1331.90 Cement base  
3.35 Gas Sta.

H.I. 1333.65

in ditch 26780 End of ditch Balance =  
 very water follows old channel to Willow River  
 good face.

B.M. top cedar stump 25' R 25+25 1' stump

B.M.s Hack-Long Road

Sp. in 6" pop. 130' ht. Sta. 953+50 = 1332.50

Sp. in 5" pop. 30' ht. Sta. 930+70 = 1344.15

953+69.6 & R.R. Grade & N.E. 88°46'

944+17.9 O X 25°17'L

B.M.s Pine River-Longville Road  
 Sp. in 5" Pop. 30' Pt. Sta. 1318

Colvert 1316+65 Top 1334.65

Colvert 1313+40 Top 1329.15

Bridge Floor from plans-est. 1325.2

1324+90  
 1315+90  
 1316+90

stn	surface Elev	Bottom Elev	Arcal dist	cont'd
00	88.8	86.30	1.75	
1	88.6	86.19	2.16	7.2
2	88.5	86.08	3.51	10.6
3	88.4	85.97	3.39	12.8
+95	87.2	85.86	1.75	8.9
4	87.5	85.84	0.90	0.8
+106	89.8	85.86	15.60	2.4
+115	90.9	85.84	14.90	5.3
+125	90.0	85.83	16.80	6.2
+130	88.0	85.83	8.80	14.2
+134	88.0	85.82	8.80	1.3
5	88.5	85.75	1.53	12.6
6	88.3	85.64	3.03	8.5
7	87.8	85.53	2.79	10.7
8	87.4	85.42	2.59	10.0
9	87.8	85.31	2.14	8.9
10	87.9	85.20	3.92	8.0
11	87.0	85.09	4.91	15.4
12	87.2	84.98	3.28	18.0
13	87.3	84.87	1.36	12.2
14	87.0	84.76	7.27	15.9
+132.6	86.5	84.72	3.19	6.3
15	86.7	84.65	1.54	6.0
16	86.4	84.54	4.82	11.9
17	86.0	84.43	3.13	14.8

L

R

~~10.5~~ +10.5 +10.5 + Lower water for 1/2  
~~20~~ 20 20 ft from M. D.

~~10.6~~ +10.6 +10.6  
~~21~~ 21

~~10.9~~ +10.9 +10.9

~~24~~ 24

~~10.8~~ +10.8 +11

~~23~~ 24

~~10.5~~ +10.5 0.5

~~20~~ 20

+10.6 1.6 +10.6

~~2~~ 2

~~13.9~~ 3.9 +3.9

~~2~~ 2

~~19.1~~ 7.1 +7.1

~~2~~ 2

~~19.2~~ 7.2 +7.2

~~2~~ 2

~~12.2~~ 2.2 +2.2

~~2~~ 2

~~12.2~~ 2.2 +2.2

~~2~~ 2

~~10.6~~ +0.6 +0.6

~~21~~ 21

~~10.9~~ +0.7 +0.9

~~24~~ 24

~~10.9~~ +0.6 +0.9

~~24~~ 24

~~10.7~~ +0.7 +0.7

~~22~~ 22

~~10.6~~ +0.6 +0.6

~~21~~ 21

~~10.8~~ +0.5 +0.5 +27 +27

~~23~~ 20 25 72

1.4 +1.4 +1.4 +1.4 +1.9 +1.9  
~~34~~ 20 18 18 20 34

+12.2 12.2 +10.6 +10.6 +22 +22

~~37~~ 28 20 15. 30 37

~~10.4~~ +10.4 0.9

~~19~~ 19

~~12.2~~ 11.6 +0.8 1.6 2.2

~~15~~ 20 20 37

+1.8 1.8 +0.8 +0.8

~~33~~ 23 23

+10.4 +0.4 +0.4

~~19~~ 19

+19 +19 9.6 +10.6 +10.6 +19 +19

~~34~~ 20 18 20 23 34

1.6 +1.6 +1.6 +1.6 +1.6 +1.6

~~31~~ 10 20

} EXCA for culvert

	Surface Elev	FL & V Bottom	Area	
18	86.4	84.32	4.50	14.6
19	86.4	84.21	1.75	11.7
20	86.4	84.10	3.04	8.9
21	85.8	83.99	3.04	11.3
22	85.9	83.88	2.59	10.1
23	85.9	83.77	4.07	12.9
24	85.5	83.66	3.14	13.3
25	85.5	83.53	3.50	12.2
26	85.1	83.44	5.00	15.7
27 28	83.4	83.4	4.87	4.2
180		83.4	00	4.7
cords deducted for 3'x32' G.I.P.				352.3
				8.1
				393.9

L.

R.

$\frac{+21}{34}$	$\frac{+20}{20}$	$\frac{+08}{13}$	$\frac{+18}{23}$	$\frac{+08}{23}$
$\frac{+20}{35}$	$\frac{+20}{25}$	$\frac{+10}{2}$	$\frac{+00}{95}$	$\frac{90}{95}$
$\frac{+08}{23}$	$\frac{+08}{23}$	$\frac{+08}{23}$	$\frac{+08}{23}$	$\frac{+08}{23}$
$\frac{+07}{22}$	$\frac{+07}{22}$	$\frac{07}{22}$	$\frac{07}{22}$	$\frac{07}{22}$
$\frac{+08}{23}$	$\frac{+08}{23}$	$\frac{+08}{20}$	$\frac{+08}{22}$	$\frac{+08}{30}$
$\frac{+05}{33}$	$\frac{+07}{12}$	$\frac{+07}{17}$	$\frac{+17}{17}$	$\frac{+18}{33}$
$\frac{+06}{21}$	$\frac{+06}{21}$	$\frac{+19}{34}$	$\frac{+19}{34}$	$\frac{+19}{34}$
$\frac{+18}{33}$	$\frac{+18}{33}$	$\frac{+10}{25}$	$\frac{+00}{25}$	$\frac{+00}{25}$
$\frac{+10}{25}$	$\frac{+10}{25}$	$\frac{+17}{32}$	$\frac{+17}{32}$	$\frac{+17}{32}$
$\frac{00}{15}$	$\frac{00}{15}$	$\frac{00}{15}$	$\frac{00}{15}$	$\frac{00}{15}$

Right of Way Notes on Off Take  
9+95' to 26+80' 25' Rof Way

CROSS SECTION  
AT 500 LINE TRACKS.

00	98.00	cycds
+13	97.99	1.0
+16	97.98	8.9
+90	97.96	6.8
1	97.90	Colvert
+23 6	97.88	26.4
+26	97.87	1.8
+50	97.95	12.9
+75	97.82	9.9
2	97.80	8.6
+36	97.77	14.3
+92	97.74	1.5
Total 102.1		

8' going to be deducted for Roy may  
already cleared

3' Boso 1:1 slope 1:

$$\begin{array}{r} +04 \\ -19 \end{array} \quad \begin{array}{r} +04 \\ -19 \end{array} \quad \begin{array}{r} +04 \\ -19 \end{array}$$

$$\begin{array}{r} +08 \\ -23 \end{array} \quad \begin{array}{r} +08 \\ -23 \end{array} \quad \begin{array}{r} +08 \\ -23 \end{array}$$

$$\begin{array}{r} +26 \\ -91 \end{array} \quad \begin{array}{r} +2.6 \\ -91 \end{array} \quad \begin{array}{r} +2.6 \\ -91 \end{array}$$

$$\begin{array}{r} +3.6 \\ -3.1 \end{array} \quad \begin{array}{r} +3.6 \\ -3.1 \end{array} \quad \begin{array}{r} +3.6 \\ -3.1 \end{array} \quad \text{cover t}$$

24" X 60' culvert

$$\begin{array}{r} +12 \\ -37 \end{array} \quad \begin{array}{r} +12 \\ -37 \end{array} \quad \begin{array}{r} +12 \\ -37 \end{array}$$

$$\begin{array}{r} +11 \\ -3.6 \end{array} \quad \begin{array}{r} +11 \\ -3.6 \end{array} \quad \begin{array}{r} +11 \\ -3.6 \end{array}$$

$$\begin{array}{r} +22 \\ -3.7 \end{array} \quad \begin{array}{r} +2.5 \\ -3.7 \end{array} \quad \begin{array}{r} +2.5 \\ -3.7 \end{array} \quad \dots$$

$$\begin{array}{r} +22 \\ -3.7 \end{array} \quad \begin{array}{r} +22 \\ -3.7 \end{array} \quad \begin{array}{r} +22 \\ -3.7 \end{array}$$

$$\begin{array}{r} +20 \\ -3.5 \end{array} \quad \begin{array}{r} +20 \\ -3.5 \end{array} \quad \begin{array}{r} +20 \\ -3.5 \end{array}$$

$$\begin{array}{r} +16 \\ -23 \end{array} \quad \begin{array}{r} +18 \\ -23 \end{array} \quad \begin{array}{r} +10 \\ -3.3 \end{array}$$

$$\begin{array}{r} +23 \\ -3.8 \end{array} \quad \begin{array}{r} +2.9 \\ -3.8 \end{array} \quad \begin{array}{r} +2.3 \\ -3.8 \end{array}$$

$$\begin{array}{r} 0.0 \\ -1.9 \end{array} \quad \begin{array}{r} 0.0 \\ -1.9 \end{array} \quad \begin{array}{r} +2.9 \\ -3.8 \end{array}$$

109 Snell School

Dec. 3, 1920

Commencing at a point 436 feet South of the N.E. Cor. of Lot 1, Sec. 14, 140-27 and containing one acre of ground, thence running west  $13\frac{1}{3}$  rods, thence south 12 rods, thence east  $13\frac{1}{3}$  rods to the east line of above described lot, thence north along the East line of the above described lot.

Sept. 20, 1919

Same as above, except possession and occupancy clause with reversion.

Dec. 1, 1921

Commencing at a point 387 $\frac{1}{2}$  feet south of the N.E. Cor. of Lot 1, Sec. 14 - 140 - 27, thence running west 17.88 rds, thence south 17.88 rds, thence east 17.88 rds, thence North 17.88 rds to point of beginning.

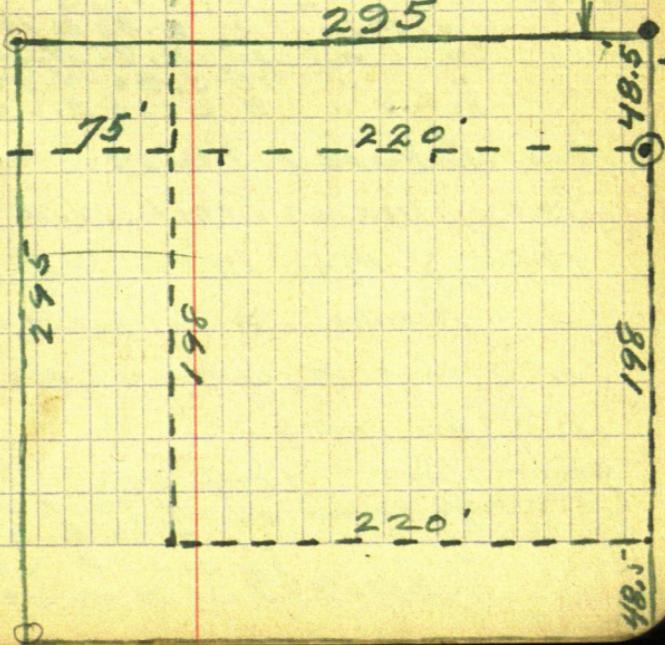
## N.E. Cor. Lot 1

1712.	1324.5
6.4	1318.1
1705.6	6.4
295.0	
2000.6	

1324.5	1318.1
387.5	382.5
1712.0	1705.6
295.0	295.0
2007.0	2000.6
2636.1	

Oct. 18-27 Set 41. M. Sasper  
 George W. Rouse - Axe & chain  
 John M. Greene - Transit & chain  
 Rouse  $\frac{1}{2}$  day @ ~~\$4.00~~ ~~=\$2.00~~  
 Greene 13.50

387.5  
 436



T. 140 N. R. 26 W. 5<sup>th</sup> Mer.

S. Town Line

Cor. 139 & 140, R. 25 & 26

W. Pine 30° N. 50 E. 116

" " 24 S. 48 E. 103

" " 30 S. 22 W. 31

" " 22 N. 38 W. 36

West on true line bet 1 & 36

40.00 Set  $\frac{1}{4}$  post W. Pine 15° N. 80 E. 53  
" " " " 12 S. 89 W. 44

80.00 Cor. 1 & 2, 35 & 36

Aspen 9 N. 20 E. 44

Maple 7 N. 25 W. 15

" 14 S. 78 W. 47

Birch 12 S. 65 E. 15

West bet. 2 & 35

40.00 W. Pine 12° S. 25 E. 28

" " 7° N. 22 W. 39

80.00 Cor. 2 - 3 - 34 - 35

W. Pine 10 N. 82 E. 15

" 15 N. 75 W. 73

" 15 S. 80 W. 94

Scrub " 9 S. 33 E. 15

West between 3 & 34

24.00 Indian Trail N. & S

40.00 Y. Pine 14 N. 18 E. 60

Aspen 9 S. 69 W. 55

53.00 Tarn & Spruce Sub. N. & S

61.00 Lv. same

80.00 Cor. 3 - 4 - 33 - 34

Y. Pine 12 N. 30 W. 35

" 21 N. 34 E. 56

W. " 13 S. 57 E. 60

W. Birch 7 S. 24 W. 66

West bet. 4 & 33

40.00 W. Pine 24" S. 22 E. 62

" " 14" N. 62 W. 21

80.00 Cor. 4-5-32-33

R. Oak 9 N. 62 E. 32

" 12 N. 33 W. 57

W. Pine 24 S. 37 W. 48

" " 20 S. 60 E. 67

West bet. 5 & 32

10.52 M.C. W. Birch 3" S. 85 E. 28

Bl. Ash 4" N. 64 E. 6

23.53 Set M.C. W. Cedar 14" N. 85 W. 52

Across point " Ash 9" S. 68 W. 33

38.68 Set M.C. Elm 9" S. 50 W. 9

Y. Pine 15" N. 65 E. 7

57.93 Set. M.C. W. Birch 10" N. 80 W. 14

" Pine 10 S. 10 E. 67

80.00 5-6-31-32

W. Pine 18 N. 62 E. 130 14

Pine 10 N. 62 W. 38

Y. Pine 15 S. 40 W. 49

" " 15 S. 10 E. 90

West bet. 6 & 31

37.00 Tam swp N.W. & S.E.

40.00 Tam. 3" S. 70 W. 12

" 4" N. 50 E. 8

41.00 Lr. swp N.W. & S.E.

43.62 Set M.C. W. Pine 18 N. 82 E. 33

" " 10 S. 40 E. 25

Cor. 5 & 6 sets 60'ks S. of pond  
brs. N.E. & S.W. - pond 4.40 wide

Cor. 4 & 5 sets 11.5 chs. south of pond.  
Line between 32 & 33 140-26

11.50 Edge of pond

East 2.00

North 4.50

West 2.00

16.00 Over pond.

Line bet 31-32 - 140-26

0.60 Edge of pond brs. N.E. & S.W.

\* E. 2.00 ch.

N. 4.40

W. 2.00 regain line

5.00 Over pond brs. N.E. & S.W.

33.50 Pond marsh

36.00 Over " to Island

40.00 1/4 post N. Pine 8" S. 44E 14  
W. " 16 WEST 18

43.00 N. Edge of Island E & W.

44.51 Over pond br. E. & W.

58.00 Enter open swb.

63.00 Lr. "

80.00 Cor. 29-30-31-32

114

~~26~~

~~24~~

~~4~~

$$\begin{array}{r} \cancel{3} \\ - \cancel{6} \\ \hline \cancel{1} \end{array}$$

R.W. Block.

Possible change of  
a mud sill culvert  
for a G.I.P. ditch No 5  
at road stay about 54.  
Channel cleaning can  
be let by <sup>79</sup> ~~by~~ <sup>Walters</sup>  
request No 5.  
No 8 grubbing along  
Road leveling

8.857

14)

1.3

15  
14  
13  
12  
11  
10  
9  
8  
7  
6  
5

26  
24  
280

1137733

28' 17' 52' 100' 52' 15' 15' 6' 6' 1' 93' 3  
 33' 4' 27' 88' 37' 4' 29' 33' 7' 4' 37' 4'  
 33' 8' 14' 24' 4' 70' 37' 4'

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1 $\frac{1}{2}$  TO 1.

FOR SINGLE TRACK EMBANKMENT.

(13)

ST 3

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

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

MADE IN GERMANY.