

102-A

Auditors Plat
Lot 5-SW. 3E. 3.22.

MINING
TRANSIT BOOK
363

Village of
May 26, 1914 Remer
Extension of 1st Ave. N.
Running N.

Sta. 0 = X 1st Ave. & Main St.
26+93 X with N. Sec. Line Sec. 1
Running W.

31+61' = $\frac{1}{16}$ Cor.

45+01.8 = Sec. Cor.

May 16. Road on Line bet. 34-35

Sta. 0 Flynn's Cor. N.E. Cor. Sec. 34

26+60.4 = $\frac{1}{4}$ Cor.

$\frac{1}{4}$ Cor. East Sta. 0 = $\frac{1}{4}$ Cor. Flynn's

8 = wet - cul

11 - " Fill

18+73.4'

26+59.7 = Cor. Sec.

Leo Penn } chain
Fred Lincoln }
J. M. Greene - Transit

J. Greene
J. Murchie
L. Penn

L

Auditors Plat. L. 5, S. 22,
142-31.

Aug. 21, 1922.

I recd. Order from C. L. Bacon
County Auditor to make Plat
of Govt. 5 and SW $\frac{1}{4}$, SE $\frac{1}{4}$ of
Sec. 22, 142-31.

E. B. Horst.

Aug. 22, 1922.

E. B. Horst, and B. M. Beach,
begin survey of Aud. Plat Lot 5^{ex}
Beginning at 445. Cor. mkd. by 92" x 48"
I.M. and a G.L.O. I.M. from which we
cut a line N. 2° 05' W. along
back of Lots, heavy brush & old fence.

P.M.

Beach cuts line

E. B. Horst, and B. M. Beach, begin survey of

Aug. 24-25-26-1922

W. W. Olson copying deeds from
Register of Deeds Office for Auditors
Plat.

¹⁹²²
Aug. 26 E. B. Horst, in office making
a plat from deeds copied of the
SW $\frac{1}{4}$ SE $\frac{1}{4}$ of S. 22-142-31.
E. B. Horst.

Aud. Plat.

Aug. 28, 1922.

E. B. Horst, + B. M. Beach.

Plat a part of Lot 5 from deeds
P.M. We work in field as follows:Beginning at S. Side Mich Ave. in Cent.
of 7th. St Village of Walker and run
S. $1^{\circ}35'E.$ on 7th extension

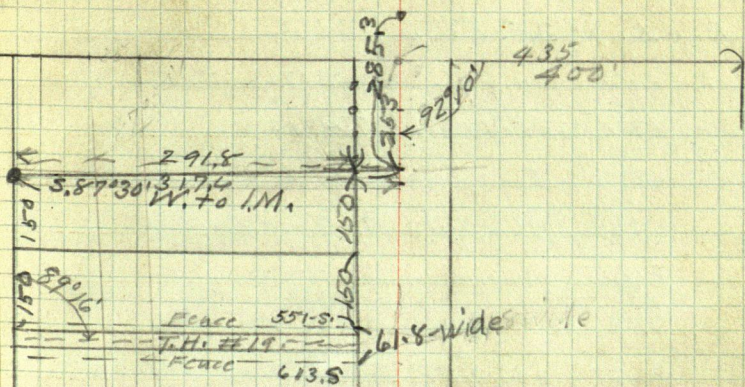
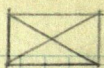
Aug. 29-30.

Continue same Line S. and
set point near S. line of sec. 22
at sta. 2275.6

see pages 5-6

Aug. 31 ^{Retreat}Horst + Beach establish S. line
of sec 22 E. of $\frac{1}{4}$ S. cor.also make tie to $\frac{1}{4}$ sec cor. from
Hub 2275.6 as follows.from Δ 2275.6 thence S. $89^{\circ}14'W.$ 300.3 ft. to a point 5 ft. S. of $\frac{1}{4}$ S. cor.

P.M. Beach making stakes.



N. 15° 0' E.

From ϕ . of 7th St. and S. Line of Mich Ave
Run S. $1^{\circ}35' E$.

- at 253 an I.M. W. 317.6 (Fence 25.8 W.)
 " 551 N. fence T.H. 19
 " 613 S. " " "
 " 674 N. edge A. Erickson House Root
 " 711 S. " " " "
 " 712 a fence runs W.
 " 826 N. side Anderson House
 " 838.5 a fence runs E.
 " 852 S. side anderson House
 " 912. fence runs W.
 " 958 N. End chick House on W. side
 " 967 N. " Jell Jackson House
 " 983 S. end chick. House
 " 1004 S. " J. Jackson House
 " 1011 fence runs E.
 " 1022 N. end Westlund.
 " 1033 N. " Alf. Jackson House
 " 1050 S. end Westlund
 " 1062 S. end Alf. Jackson (a fence runs W.)
 " 1119 N. end Clarence Jackson
 " 1146 S. " " "
 " 1180 Quams S. House
 " 1212 a fence runs E.

- at 1270.5-S. Nils Broughton N. fence runs ^{W.}
- " 1324. " " fence
- " 1437.5 set Hub.
- " 1469.5 Nouseus N.E. Cor (3/4 MI.) sets W. 12 ft.
- " 1720 R. of a Road running S. about 80° W.
- " 1727.4 Hub. at top of Ravine
- " 1971.5 Hub.
2162 - fence E & W.
- " 2275.5 Hub end of line thence S.
89° 14' W. 300.3 ft. to a point 5.0 ft. S.
of the 1/4 S. Cor. between secs. $\frac{22}{27}$.

- at 316-S-N. edge Fields House
- " 366-S-S. " " "
- " 403.0-S-N. " Barkers House
- " 433.5-S-S edge " "
- " 483.9 post sets W. probably Barkers S. line.

Sept 4-8 Beach cuts Line

From the 1/4 S. cor. bet. Secs. 11
 $\frac{22}{27}$ thence N. $2^{\circ}05'$ W. on true
 line

- at 220.5 fence bet. Ferrin & Stuede
- " 225.0 set stake
- " 229.1 Garage
- " 241.4 Dr. garage
- " 294.2 Fence bet. Stuede & Malngent
- " 300 set stake
- " 495 I.M.
- " 496 New fence runs W.
- " 594 old fence W. bet. Berger & Rice
- " 738.4 " " W. " Rice & Horst
- " 738.8 I.M. $3/4 \times 36"$
- " 795.9 N. edge of a .25 x 5 ft. I.M.
 bet. Horst & Larson
- at 966 - N. set stake (mkd. dist.) New fence
 runs E. also about line running W.
 bet. Lucas & Powers.
- at 999 Hub a fence runs Easterly
- " 10636 Powers & Ellis fence.
- " 116210 Ellis Reeves "
- " 1262.0 Reeves & Stedland fence
- " 1262.2 Mk'd Tree

Sept. 9. Horst + Beach run + chain 1/4 line.

- at. 1352.2 S. Line of C. Andersons.
- " 135.9 fence bet Steadland + Lucier.
- " 1452.2 Andersons N.W. cor. 9 saw blade.
- " 1630.8 fence S. of T.H. #19.
- " 1681.0 Hub E, T.H. #19.
- " 1710.0 fence N. Line T.H. #19.
- " 1727.5 Hub.
- " 1861.0 (mm stake)
- " 2010.0 a $2\frac{1}{2}'' \times 48''$ LM. set by F.M. Moynihan
Under the direction of County surveyor
John W. Curo for the C.S. 1/16 S. cor. of Sec.
22. An old post at this point was
identified by Walker residents as having
been placed there more than 20 years ago.
This occurred during the survey and
plotting of Parkside Addition to Walker.
The post was marked (1/16 S. cor.) with a
Timber scribe.

Sept. 11. Horst + Beach

1. 1/4 line + chain.

Sept. 12. 1922. Post to the

North, from the

Sept 1-2-5-6, 1922

Forest & Beach run following lines.
Also Meander of Lake Maycreek page

Beginning at the G.L.O. 1Mth N.C. on
E. side Lake May bet. secs. $\frac{22}{29}$

Thence along Wedge of T.H. 19 & Edge
Lake 4 ft. from Waters edge

N. 28° 45' W. 200 ft. AP. 1.

N. 34° 45' W. ^{at 83.5 in line with fence.} 320 ft. AP. 2. from this pt.

N. 66° 30' W. ^{158.5 Main St. fence.} to pt. in line

at 82.5 ft. Cent of May creek bridge

" 205.0 fence running Northwly

" 533.0 Fence on E. side of Braddens

" 662.0 Bradden Ldry on S. side Road

" 754.0 Fence running N. (Braddens side)

about 825' old grade runs N.W.

" 1055.0 Hub in Cent. of road run N.

" 1132.0 \angle G.N. side track

" 1143.4 Hub in Line with old grade

" 1162.9 \angle G.N. Side Track.

" 1177.9 \angle G.N. Main line.

Thence from Hub 1143H w. run

N. 16° 30' E. on line of old grade. (G.N.)

at 353.5 P.I. old grade Running S.E.

" 530.0 fence bet. Bradden & Anderson

" 605.0 Hub at F. Anderson Ad.

Isola Hub N. $9^{\circ}30'E$. on Road into Walker.

with old grade road. (^{back to the} S. end of R.R. X sign is online.)

drive way.

Sept. 23, 1901

- at 734.0 fence E.
 " 814.0 fence E.
 " 990.0 Mohlers House Left 100?
 " 1053.0 Mitchell House R. 30' ?
 " 1196.0 S. line Parkside addition
 " 1248.3 9 3" I.M. sets. on S. edge of
 1356.0 S. line of Mich. Ave.
 " 13938 Hub on old grade in Mich.

Thence N. $87^{\circ}00'$ E. on Mich. Ave.

at 573.0 ft E. end of Parkside add.

" 1013. Cent Lake May Creek.

" 1332.0 Set Hub and sight S. $1^{\circ}31'$ E.

Hub, 1332.0 is 13.5 S. and 4 ft E. of

Center lines of Mich. Ave and
R.R.s to this bolt are

Tel. Pole N.E. 24.0' } to Iron Bolt.
 Tel. Pole N.W. 16.0' }

58 ft. E. of Lot stake on W. side grade
Avenue.

on line produced S. from 7th. St.

a $\frac{3}{4}$ " x 18" bolt which I set at the P.I. of
7th. St.

13

Sept. 15

Horat + Anderson

Traverse of T.H. 19.

Beginning at Cent. of 9th & Mich.

S. $1^{\circ}35' E.$ 616.5 ft.S. $87^{\circ}45' W.$ ft. to Hub on

at 113 fence runs N. on W. side Erickson

167 W side Erickson garage + fence.

" 233 fence runs N. bet. Culvert + Oliver

" 240 " " S. along E. Hagens

" 311.8 Δ on $\frac{1}{4}$ line. A.P. 2.S. $41^{\circ}15' W.$ 163.0 A.P. 3.S. $23^{\circ}30' W.$ 211.5 fence - 338 fence -S. $10^{\circ}15' W.$

at 91 ft. Reeves + Ellie. fence

at 184 Ellis and Powers. fence.

at 292.5 Powers + Lucas. fence.

" 353.0 S. side main line with Lucas

438 S. side Ole Larson House

454 along E.

508.5 Line bet. Horat + Rice

513.6 A.P. 5 spike in S. of road

S. $7^{\circ}45' W.$ to Hub at Lake

at 156.5 Rice + Berg. line fence

at 253.0 Berg + Malmqvist fence.

" 301.8 Hub on lake may traverse

146 1/4 line.

357.7 A.P. 4. Spike in 4. Road.

Hub of Bridge
 146 1/4 line

House

Hub End Bridge

Aug. 31. 1922

Traverse of Lake May Creek.
E.B. Horst, B.M. Beach, Harold Reeves.Beginning at cent. of Bridge and
on Lake May traversethence N. $23^{\circ}55'$ E. Sta. 0.0

at 7.0 ft. Spike on Lake May

" 32.5 " N. end bridge bottom

" 129.0 " A.P. 1.

= S. end of bridge bottom at water
transverse

17) 1922
Sept. 1-2,

Traverse of Lake May Creek.

Beginning on the Bridge at a
Point N. $66^{\circ}30'$ W. 87.5 ft. from A.P. 2
on Lake May Traverse, thence

N. $23^{\circ}55'$ E.	129.0 ft.	G.P. 1.
N. $20^{\circ}50'$ W.	66.0 "	" 2.
N. $20^{\circ}20'$ E.	55.5 "	" 3.
N. $8^{\circ}23'$ W.	31.4 "	" 4.
N. $10^{\circ}10'$ E.	60.9 "	" 5.
N. $13^{\circ}42'$ W.	46.7 "	" 6.
N. $21^{\circ}28'$ E.	52.7 "	" 7.
N. $35^{\circ}30'$ W.	59.8 "	" 8.
N. $4^{\circ}35'$ W.	38.5 "	" 9.
N. $32^{\circ}30'$ W.	71.9 "	" 10.
N. $10^{\circ}08'$ E.	101.9 "	" 11.
N. $66^{\circ}27'$ E.	43.2 "	" 12.
N. $00^{\circ}47'$ E.	175.8 "	" 13.
N. $21^{\circ}50'$ W.	126.7 "	" 14.
N. $49^{\circ}10'$ E.	69.1 "	" 15.
N. $11^{\circ}45'$ E.	58.0 "	" 16.
N. $89^{\circ}30'$ E.	82.2 "	" 17.
N. $6^{\circ}10'$ E.	194.2 "	" 18.
N. $23^{\circ}32'$ E.	290.6 "	" 19.
N. $87^{\circ}28'$ E.	171.2 "	to I.M.

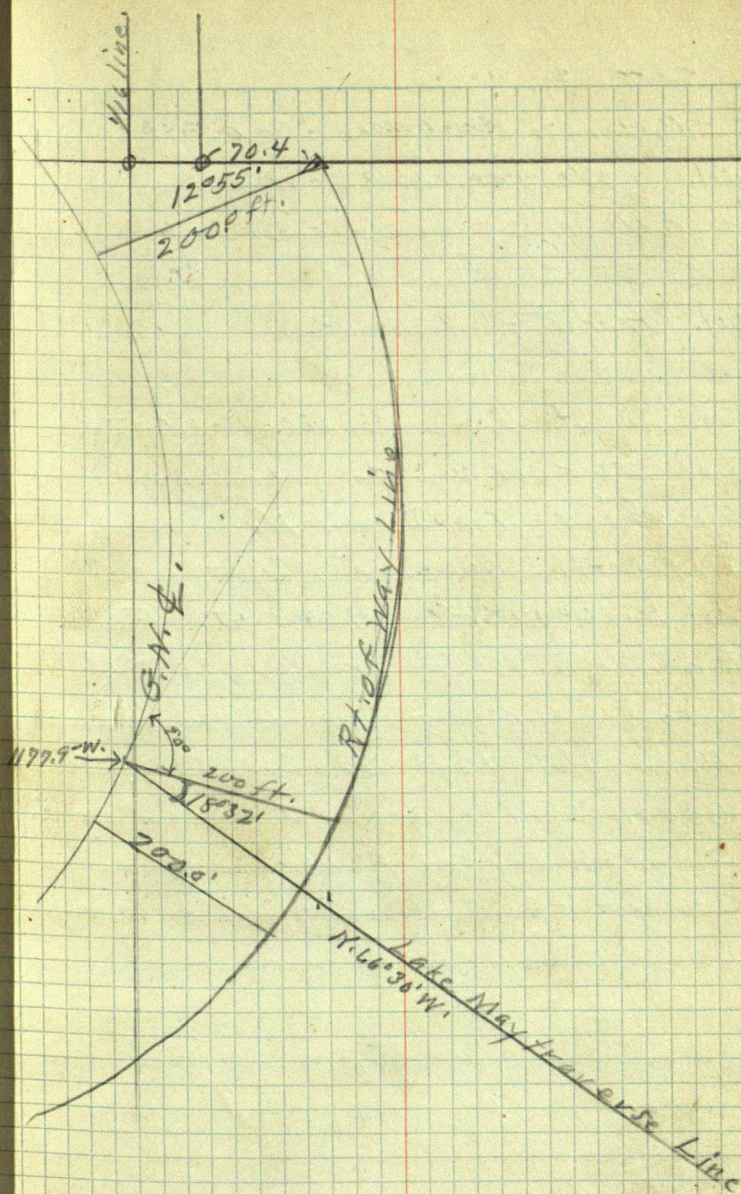
at N. $\frac{1}{2}$ S. cor. on E. sec 22.

Thurs. Sept. 7, 1922

E.B. Horst, C.J. White, Ben Beach &

Chas. E. Anderson (Ebener)

Beginning at Sta. 11 77.9 on Lake
May traverse and $\frac{1}{2}$ of G.N. Ry. R.
Thence E. at 90° to G.N. $\frac{1}{2}$ 200 ft.
thence run N. on E. Rt. of Way
line and set stakes 50 ft. chords.
Deflection $\angle = 0^\circ 56'$ per 100 ft. Chords
or $0^\circ 28'$ for 50 ft. Chords
at 1145.0 ft. = S. line of Parkside
Add. 70.4 ft. E. of 2nd. 1st.



Sept. 25, 1922

E.B. Horst, Transitman, & E. Anderson

A.M. We run E. R.R. of way line S.
to Pillsbury addition line.

P.M. Horst & Anderson.

Begin at the U.S. MC. G.L.O. IM.

bet ~~27~~²⁹ on W. side Lake May

From which Iron N. $2^{\circ}20'W.$ \rightarrow

219.4 ft. thence Right $11^{\circ}15'$

or N. $8^{\circ}55'E.$ 1108.0 ft. Flag Pole

Thence L. $19^{\circ}00'$ or N. $10^{\circ}05'W.$ —

South corner of Parkside Addition

From Hub 724³ the S.W. Cor. of

South Line Parkside = N. $86^{\circ}18'E.$

From S.W. Cor. of Parkside Addn.

Center of Justice's Head on court

$$\left(\begin{array}{l} \text{Q. } 11^{\circ}15' \text{ Right } 1108 \text{ ft.} = \end{array} \right. \begin{cases} \text{N. } 1086.9 \\ \text{E. } 216.6 \end{cases}$$

From M.C. = 1306.3 - N.

From W. line Pillsbury Add. = 318.0 ft. E.

→ 90 ft. flag Pole on School House bears $\text{N. } 64^{\circ}58'E$

on school House bears $\text{N. } 84^{\circ}20'E$.

724.3 ft. $\frac{1}{4}$ R.R. on switch back tie

15.88 ft. W. of Δ 724.3.

Parkside Addition (1.M.) bears $\text{N. } 22^{\circ}28'E$ $\overline{122.7 \text{ ft.}}$

the flag Pole on school House bears $\text{S. } 80^{\circ}50'E$
House bears $\text{N. } 80^{\circ}26'E$.

$$\begin{array}{r} \text{N } 86^{\circ}18'E \\ 2^{\circ}03' \\ \hline 88^{\circ}21'E \end{array}$$

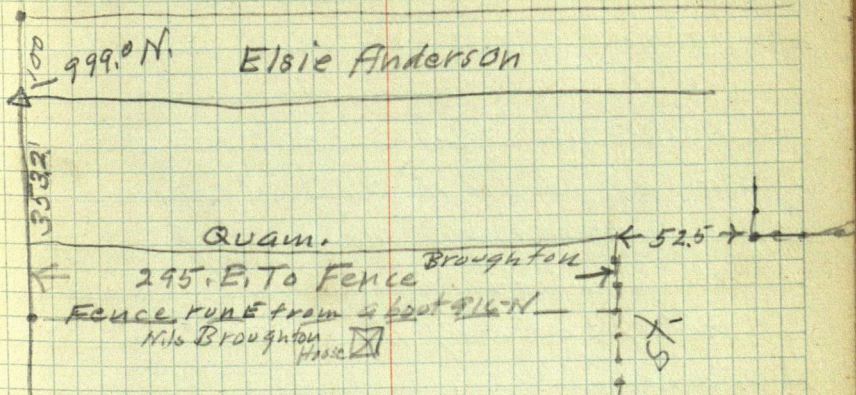
Auditors Plat Lot 3 & 5, S. 22-42-31.

Time sheet for October 1922.

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
E. B. Horst	1	1	1	1	1	1/2	0	0	1	1/2	1	1	1	0	1			11 days = 63 1/2 ^{\$}
H. J. Beach,	1	1	1	1	1	1/2	0	0	1	1/2	0	0	0	0	0	0		7 days = 17 1/2 ^{\$} 24 1/2

Horst - Anderson.

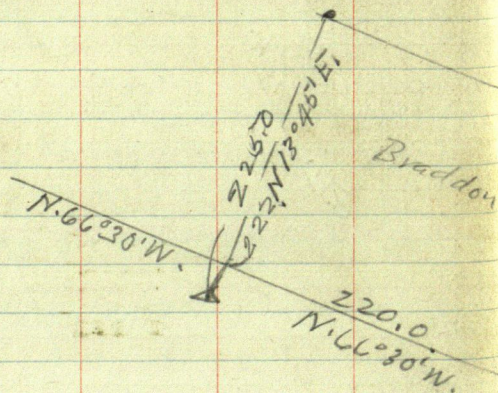
Wed. Sept. 20. 1922



Anderson assisting 1/4 day.

set stakes on E. Line of Pillsb.
 Add. one at P.I. with Lake and
 E. line thence chain N. on E. line
 at 232.7 Hubon crossline 208 ft.
 E. of $\Delta 310$ N. on 2nd course of
 traverse from M.C.N.
 at 286.5 ft. N. on E. line P.I. with
 G.N. R. of way line. 200 ft. E. of
 track.

		N.	S.	E.
S. 72° E.	78.0	—	24.1	74.2
N. $10^{\circ}25'$ E.	928.0	912.7	—	167.8
N. $87^{\circ}20'$ W.	208.	9.7	24.1	242.8
		922.4		209.8
		24.1		734.2
		N. — 898.3		E.
		0.5		
+ Brq.		898.8		



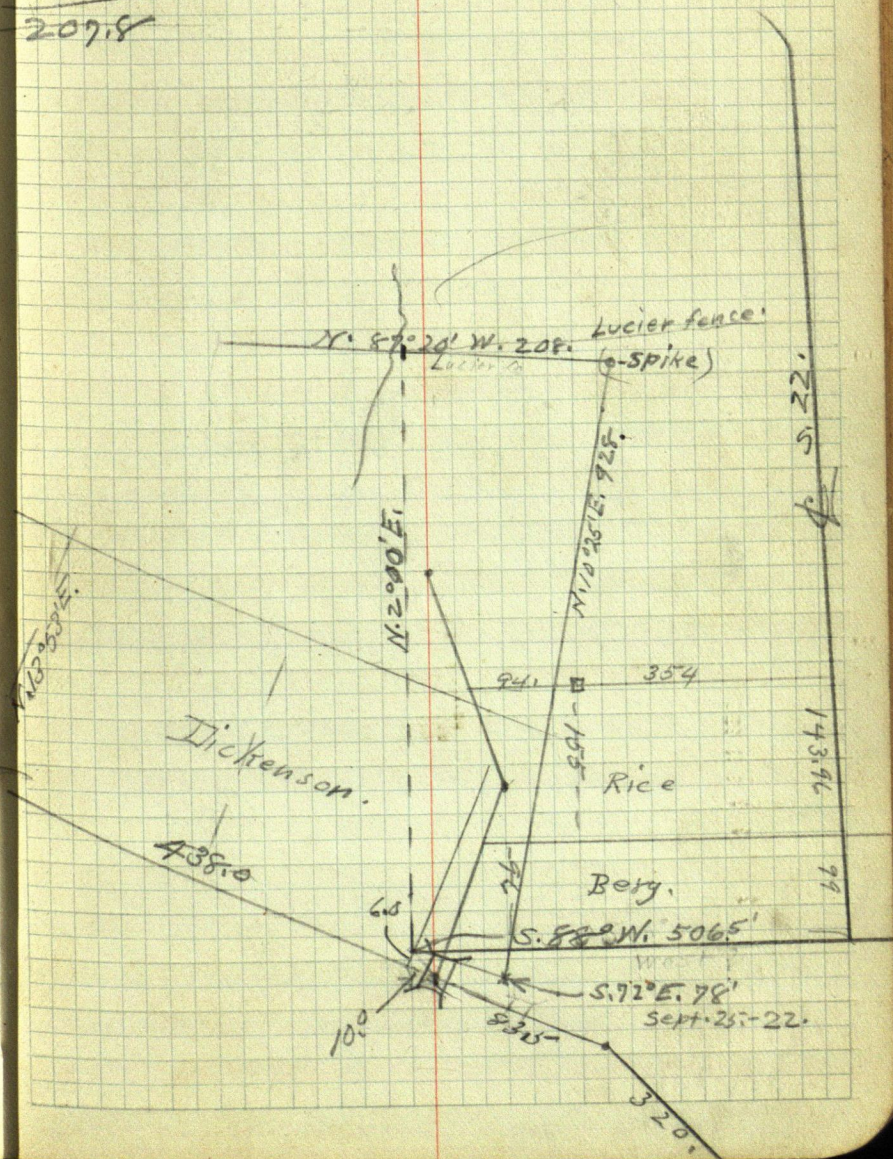
W.

34

Sept. 6, Huet 4 Beach.

207.8

207.8



35

Sept. 23.

E. B. Herat & Martin Reid

Chaining points on 7th. St extension

7th St.

Orig. Plat

of Walker

130

130

35'

35'

30'

30'

Enckson

30

Hagen

ole. brdwn.

23'

89°50'

Thurston

W. Jackson

QUAM

Alf. Jackson

89°45'

89°50'

Thurston

23'

30

89°45'

30

20

20

20

20

20

October 16-17-18-19-20,

21-24-25- 1922

E.B. Hart + H. Beach

setting ~~concrete~~ reinforced
concrete monuments at all
lot corners.

Sept. 12-13-14-20-21-26-27

28-29-30 -1922

Oct. 26-27-28-30

E.B. Hart. Platting traverses.

making trial plats, computing Lat + Depart.

computing acreage

investigating deeds, and property
owners claims, investigating contracts
and making final plats.

Statement of costs.

Auditors Plat Lot 5. and
SW $\frac{1}{4}$, S.E. $\frac{1}{4}$. Sec. 22.

E.B. Horst.	\$196.05
B.M. Beach. chain.	27.46
H.J. Beach. "	24.50
C.E. Anderson "	7.39
Martin Reid "	2.60
Harold Reeves. "	2.41
Concrete Mans.	50.00 - 100 at 50¢ per
Walter Olsons	16.20
Copying deeds.	
Total Cost.	326.61.

Return in 5 Days to

HAROLD CURO
COUNTY SURVEYOR, CASS COUNTY
WALKER, MINNESOTA

% Cecil Weasmer

John W. Curo
Preston
Iowa

HAROLD CURO

COUNTY SURVEYOR
CASS COUNTY, MINNESOTA

WALKER, MINNESOTA

May 10th 1950

Dear grandpa

I am with dady writting you this letger Donald wrote td you last night Dady mailed Donalds lettire to day you will get it soon I wish you was here hurry up and get well and come ba ck so we can build that hunting camp We are glad you wrote to us and I will write to often I am in the first grade and go to school every day We all had the mumps at Chrismas Time. We have three more weeks and one day of School left I got a new coat for Christmas and a pair of boots The ice is still on the lakes T Indians are still walking across the lake We could go fishing Saturday if we could find some open water to put our hooks into Edward will write you soon Daddy has some work to do so I will have to stop ffor this time as daddy is showing me what letters to push Hurry up and get well and when you c ome back I will let you have one of my girl

Robert

Dear Dad:-

Bobbie wanted to write you a letter so I tried to help him by showing him what letter to use. I changed his wording which I should not have done. I would ask him what he wanted to say and then show him the letter to use to write it. He did not say We are glad you wrote to us. He said I want to tell him we are happy for his letter. I should have let him write it as he said it. I will next time. Edward will be writting soon I though it best if they did not all write the same day. I have not heard from Cecil for over a month or Gladys eather This has sure been some Spring We have had two nice days so far The roads have all went to peaces all over the county. Howard Moody could not get out for over three weeks the last time he was in Walker he had to use his tracter to get to the main road No 34 the Longville road. Here it is the 12th of May and the Indians still walking a cross Leech Lake on the ice. One of them said yeasterday that it was getting a little soft in spots when he came over It was raining this morning but stoped around 9 oclock the sun is trying to shin throu the clouds Every thing is comming along fine. Hope you are better.

When I went home for dinner yesterday Johnie told me Fido their dog was dead. We had been keeping her in the basement a saleman stoped and John let the dog out . a dozen dogs was waiting for her Gert was mad and said if I could shot I would kill her The saleman said if she had a gun he would shot the dog for her so Gert gave him the 45 and he took fido down in the swamp and shot her for Gert. Last night John and Bob got to fighting and I made them go to bed John wanted Bob to listen to him while he told about the man shoting Fido but Bob had gone to sleep and John was going to beat hell out of Bob because he said Bob was not asleep he only had his eyes shut. John is still cock of the walk. will fight with any one that he can get to fight big or little. well write some times if you get a chance and feel like it. I have not heard from Otto Nelson yet.

Harold

$$\begin{array}{r}
 1079 \\
 7.85 \\
 \hline
 1086.85 \\
 219.4 \\
 \hline
 1306.3
 \end{array}$$

$$\begin{array}{r}
 215 \\
 156 \\
 \hline
 2166 \\
 101.4 \\
 \hline
 3180
 \end{array}$$

$$\begin{array}{r}
 713.4 \\
 4.2 \\
 \hline
 717.6 \\
 1306.3 \\
 \hline
 2023.9
 \end{array}$$

$$\begin{array}{r}
 97.1' \\
 .6 \\
 \hline
 97.7
 \end{array}$$

$$\begin{array}{r}
 318.1 \\
 97.2 \\
 \hline
 220.4
 \end{array}$$

$$\begin{array}{r}
 370.0 \\
 220.4 \\
 \hline
 149.6 \\
 142.6 \\
 \hline
 7.0
 \end{array}$$

$$\begin{array}{r} 18^{\circ}40' \\ 11^{\circ}15' \\ \hline 7^{\circ}45' \end{array}$$

$$\begin{array}{r} 292 \overline{) 2.50000} \overline{) 1} \\ \underline{292} .01 \end{array}$$

$$\begin{array}{r} 999.0 \\ 363.8 \\ \hline 1352.8 \end{array}$$

S. 89° 08' W

S. 1° 41' E

$$\begin{array}{r} 900.49 \\ 10.35 \\ \hline 890.14 \end{array}$$

$$\begin{array}{r} 890.14 \end{array}$$

10

$$\begin{array}{r} 83.5 \\ 95.0 \\ \hline 128.5 \end{array}$$

$$\begin{array}{r} 712 \end{array}$$

$$\begin{array}{r} 712 \end{array}$$

$$\begin{array}{r} 712 \end{array}$$

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

S. 89° 20' E.

$$\begin{array}{r} 153 \\ 144 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 11 \end{array}$$

$$\begin{array}{r} 317.6 \\ 291.8 \\ \hline 25.8 \end{array}$$

$$\begin{array}{r} 53 \\ 38 \\ \hline 94 \end{array}$$

$$\begin{array}{r} 1393. \\ 137 \\ \hline 1356 \end{array}$$

$$\begin{array}{r} 1356 \end{array}$$

$$\begin{array}{r} 28 \end{array}$$

$$\begin{array}{r} 170 \end{array}$$

$$\begin{array}{r} 2 \end{array}$$

$$\begin{array}{r} 780 \end{array}$$

$$\begin{array}{r} 395 \end{array}$$

$$\begin{array}{r} 145 \end{array}$$

$$\begin{array}{r} 1362.0 \\ 9.8 \\ \hline 1352.2 \end{array}$$

$$\begin{array}{r} 1352.2 \end{array}$$

$$\begin{array}{r} 999.0 \end{array}$$

$$\begin{array}{r} 358.2 \end{array}$$

$$\begin{array}{r} 14396 \end{array}$$

$$\begin{array}{r} 995.96 \end{array}$$

$$\begin{array}{r} 495.0 \end{array}$$

$$\begin{array}{r} 300.96 \end{array}$$

$$\begin{array}{r} 99.0 \end{array}$$

$$\begin{array}{r} 201.96 \end{array}$$

$$\begin{array}{r} 58 \end{array}$$

$$\begin{array}{r} 143.96 \end{array}$$

285.3
145.
120.3

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

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

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