

POST
MINING
TRANSIT BOOK
No. 384F

POST

MINING
TRANSIT BOOK

No. 384F

Book 4

USFS

BOOK # 4

BOOK # 4 of 5

T 141 N

R 30 W

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55										

PLAT OF SEC. 30 ON PAGE 53

Z-25

SE. COR. SEC 36

ORIGINAL GOV'T. SURVEY NOTES OF 1873

Y. PINE 22° N 33° W 25 1/2s 16.50'

Now a burned stump at bearing 5' dist

MAPLE 6" N 69° E 26 1/2s 17.16'

No evidence found.

C-C Notes from 1937, they found an iron pipe & cap in good condition 6" above ground. Apparently set by County Engineer. Metal location poster on a (Red Pine 12" west side of tree, $\#$ 573° E 11.88')

Chained south from iron post at $\frac{1}{4}$ Cor sec's 31 & 36
T141N R 30 $\frac{1}{2}$ 29 W 2640.0'
Found iron post at corner and also old c-c poster on pine as call for in notes.

10-2-64

James Ekstrom

Affidavit

RITZ

Found two pipes at this location 185.0' apart bearing N 79° W

5/27

Curro says he possibly has notes on this corner other surveyors have no knowledge

To perpetuate this corner I set a 2" inside dia 5' long galvanized steel pipe filled w/ concrete & capped w/a 3" dia bronze tablet stamped

T141N
R30W R29W

SP
536 537
51

T140N R30W
1965
ALS NO 6807

From which bears

Maple 19" N 25° E 35.9' scribed 531 BT

Y Pine 11" N 53° W 10.9' scribed 536 BT

Steel sign post 72" long set 24" in ground w/ signs 54-2 & 54-4 attached due North 5.7'

6-8-65
James Ekstrom

ok
JLE
7/24/68

2 Z-23

1/4 COR SECS 36 & 1

ORIGINAL GOV'T SURVEY NOTES OF 1813

ASPEN 12° N 15° W 341ks - 82.44'

(Not Found)

1/2 PINE 7° N 4° E 341ks - 22.44'

(Not Found)

C-C Notes from 1937. They found
an iron pipe & cap in good
condition 18" above ground.

Chained west from iron pipe
found at S.E. corner of sec 36.
2640.0' Found a 2" dia iron
pipe at corner.

4-28-65

James Ekstrom

5/27
No disagreement among surveyors

Affidavit

8ME

To perpetuate this corner I set a
5' long 2" inside dia galvanized steel
pipe filled w/ concrete & capped
w/ a 3" dia bronze tablet stamped

T141N R30W

1/4 S36

T140N

1965

R65 No 6807

From which bears:

✓ Aspen 6" N 46° W 19.6' ✓ Scribed 1/4 S 36 BT

✓ Maple 5" N 53° E 27.5' ✓ Scribed 1/4 S 36 BT

✓ Sign 54-4 attached to Maple BT.

6-8-65

James Ekstrom

1/25/65

3 Z-21

CORNER SECS 35-36+2

ORIGINAL GOVT SURVEY NOTES OF 1873

W. PINE 8" N81°W 77 lks

(Not Found)

ASH 9" N57°E 15 lks

(Not Found)

Chained west 2640.0' from S $\frac{1}{4}$ sec 36. Found a 2" capped iron pipe at this location. also old C-C poster put up in 1938. a very recent line has been cut from this location East approx 290' where there is another pipe which I believe to be the closing cor for sections 1-2 T140-30.

4-28-65

James Ekstrom

Surveyors do not disagree with these corners

Affidavit
site

To perpetuate this corner I set a 2" inside dia 5' long galvanized steel pipe filled w/ concrete & capped w/a 1 3/4" dia bronze tablet stamped

T141N R30W

SC

535 536

52

T140N R30W

1965

RLS NO 6807

From which bears

✓ Ash 13 " ✓ N80°E 17.7' ✓ scribed 536 RT

✓ Ash 7 " ✓ N64°W 28.0' ✓ scribed 535 RT

✓ sign 54-4 attached to NE B.T.

6-8-65

James Ekstrom

This corner is in the middle of lowland brush & swamp. At this time of year there was water there.

ok J.E.
7/25/68

4

Z-19-20

MEANDER POST ON E SIDE LAKE SEL 35

ORIGINAL GOVT SURVEY NOTES OF 1873

ASPEN 5° N 70° E 81 kts. 53.46'

A

ASPEN 5° S 74° E 99 kts. 65.34'Schaider says to see Forbes in
Longville

CERTIFICATE FILED

50.00 CHS FROM WEST

5 Z-17

CORNER SECS. 34 & 35

ORIGINAL GOV'T. SURVEY NOTES OF 1873

SPRUCE 8° N40°W 81ks 5.28'

(Not Found)

SPRUCE 7° N74°E 131ks 8.58'

(Not Found)

Schneider says See Harold Forbes
in Longville for possible infoChained East to this location
Found a 1 1/2" dia iron pipe.Chained to this location from
approx location of Sec Cor
33 & 34 which I determined by
chaining from orig section Cor.
32 & 33. good for dist.

6-9-65

James E. Johnson

Affidavit

SITE

to perpetuate this corner I set a
2" inside dia 5' long galvanized steel
pipe filled w/ concrete & capped w/ a
3" dia bronze tablet stamped.

TWIN R30W

SC

534 635

53

T140N

1965

RLS NO 6807

From which bears

Tamarack 4" N41°W 109.0' scribed X BT

Birch 6" N58°E 48.2' scribed 335 BT

steel sign post 72" long set 24" in
ground w/ signs 64.2 & 64.4 attached
due west 26'Note: this point falls on top of large rock
6' x 6' approx across so monument is only 2' in
ground so I built it up good w/ blocks &
lashed Co pipe to base for support.
6-10-65

James E. Johnson

This corner falls in East edge
of open swamp. There is also
an old road bed with ditches on
both sides on the 10th
standard Parallel.Ok 6/10/65
1/23/65

6 2-15

1/4 COR SECS. 34 & 3

ORIGINAL GOV'T. SURVEY NOTES OF 1873

W. PINE 24° N31°W 621ks

W. BIRCH 12° N47°E 861ks

Searched 1 1/2 min hrs no evidence
Found area has been furrowed
up.

6-9-65

James Weston

CERTIFICATE FILED

7 Z-13

CORNER TO SECS 33 & 34

ORIGINAL GOVT SURVEY NOTES OF 1874

W. PINE 6" N72°W 151ks

BIRCH 7" N68°E 251ks

↓ Believe these Notes for ^{Sec's 3 & 4} CC T140NR380
 C-C Notes from 1938. they found
 a (Tamarack "BT" 9" N40°W 58.08')
 they believe this to be a
 County BT because it does not
 conform with orig Notes.
 Metal Location Poster on a
 Tamarack 9" N.E. side of ?
 Sec. Corner. Corner bears 540°W
 58.08'.

(old Field Book [?] N20°W)

Searched ^{1/2} Man hrs No
evidence Found For Sec Cor 33 & 34

9-28-64

James Estlin

Check with Currier notes

CERTIFICATE FILED

A-13 CLOSING CORNER BET
SECTIONS 3 & 4

1865 TAM. 9 566E 44 LKS.
BL OAK 9 530W 108 LKS.

1978 CASS COUNTY HWY DEPT.
 SURVEY OF CO. RD # 122
 FD, 3/4" I.P. IN PLACE
 MKD TIES
 OAK 6 NNW 93.1'
 OAK 6 NW 101.4'
 BIRCH 12 NW 87.8'

8 2-11

1/4 CORNER SECS 33 & 4

ORIGINAL GOV'T SURVEY NOTES OF 1873

ASPEN 10" N55°W 36 lks.

ASPEN 11" N20°E 33 lks

Not identified by any surveys

Chained from orig. corner at
sections 32 & 33 East 3640. to
this location. No evidence
found.

5-28-65

James Chilton

CERTIFICATE FILED

9 2-9

CORNER TO SECS 32 & 33

ORIGINAL GOV'T SURVEY NOTES OF 1873 ⁽¹⁸⁶⁴⁾

① Y. PINE 8" N14°W 131ks 8.58'

② Y. PINE 6" N69°E 131ks 8.58'

5/27/65

Cur - both B.T. stumps and boiler pipe 2' above

① Now a badly burned pine stump w/ BT visible N14°W 9.0'

② Now a badly burned pine stump w/scribe mark visible N69°E 8.58'

Found a 1 1/2" dia pipe marking corner.

5-28-65

James Epstein

Affidavit
JNE

To perpetuate this corner I set a 5' long 2" inside dia galvanized steel pipe filled w/ concrete & capped w/a 3" dia bronze tablet stamped.

T141N R30W

5C

533 533

55

T140N

1965

R15 NO 6807

From which bears -

Oak 8" N3°E 49.0' scribed 533 BT ✓

N Pine 15" N62°E 80.1' scribed 533 BT

Steel sign post 28" long set 24" in ground w/signs 54-4 E 1535 due west 4.1'

6-1-65

James Epstein

James Epstein
7/27/68

10 Z-7

1/4 CORNER SECS 32 & 5

ORIGINAL GOVT SURVEY NOTES OF 1873

SUGAR 8" N41°W 421ks 27.72

SUGAR 6" N8°E 751ks 49.50

Not been found by Curo, Spain or
Schreider.

Chained from pipe at C.C. ^{7 May not be in} Corner
Section 5 & 6 T140N R30W 2640.
and Round a 2" pipe. recent survey
lines cut South & East.

5-28-66

James Ekstrom

CERTIFICATE FILED

11 Z-5

CORNER TO SECS 31 & 32

ORIGINAL GOV'T SURVEY NOTES OF 1873

W. PINE 20" N67°W 581ks - 33.25'

(Not Found)

PINE STUB 22" N60°E 961ks - 63.36'

(Not Found)

Found two 2" Iron pipes - Capped at this location, about 57' apart. Both pipes are on the North-South line. A RSLP is on South side of old wood's road approx 100' south of 1st pipe.

11-20-64

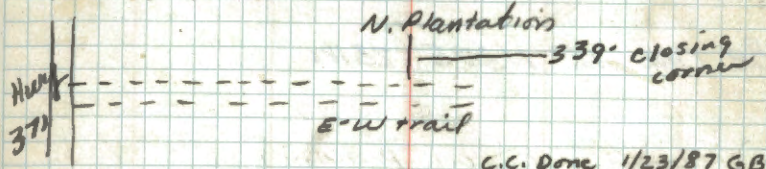
James Ekstrom

Pipe to north is on 10th parallel south is true C. Found by Green Cure, Spain, Schneider agree to this. Use corner to South as tie.

Notes for this Corner are on page 4 of Book #5

CERTIFICATE FILED

9/4/96 Ausk, Brama
Chained S72W 339' from closing corner of sec. 5, 6.
Found no evidence of iron pipe. E-W trail may have wipe out corner or cutover area to the north of trail.



1921 ST. HWY DEPT.
RIW MAP IN RECORDERS OFFICE
COR. IS 1962.6' E OF PROPOSED
R.R. TIE

12 2-4

1/4 CORNER TO SECS 31 & 32

ORIGINAL GOV'T. SURVEY NOTES OF 1874

W. BIRCH 3" N19°W 361ks

BR. OAK 12" N30°E 231ks

Spain 1/4 cor. on peninsula trail to S.

1 1/2" pipe (in resort)

See resurvey notes.

CERTIFICATE FILED

9/6/86 G.O. BB

Chained east from M.C. (county galv. cap pipe)
county dist. position falls in private home
yard. Fd. no evidence of original nor iron pipe.

C.C. O'Connell 1/23/87 G.B.

13 Z-1

TOWN COR. S.W. COR SEC 31

ORIGINAL GOV'T. SURVEY NOTES OF 1874

CORNER MARKED W. BIRCH 15" DIA.

LINN (BASSWOOD) 8° N 30° W 231ks

IRONWOOD 5° N 27° E 151ks

stake

Spain - Cor in and good galv cap pipe
also M.C. cast (under water)

Coro - same as above

Found a 2" dia Iron pipe
Marking Corner. Corner lies west
of Albert Thomas house approx 100'
plat is on record in the Cass Co.
Court house.

March 1915

County Survey Book B, survey No. 252, pg 65 states
they found no evidence of original Birch, Basswood
or Ironwood. Frank Donner set a 1" rod 3'
in the ground. He later removed rod and April
14, 1915 set a 2'x48" galv. iron pipe.

Affidavit
& ITC

To perpetuate this corner I set a 6"
dia 2' long cylindrical concrete monument.
Capped w/ a 3" dia bronze tablet flush
w/ ground & stamped

T.141 N.
R.31 W. R.30 W

SC

536 531

51

T.140 N. R.31 W ✓

1965

R.I.S. NO. 6807

From which bears -

Oak 11" S 63° E 31.4' Not scribed ✓

Oak 16" S 34° E 41.1' Not scribed ✓

North west Edge of Barn Foundation
S 26° E 130.7'

Archie
7/19/68

6-14-65
James Ekstun

9/3/82 CKW:EH

FD CAP LEVEL WITH GROUND IN OPEN MARY FIELD APPROX 100' W OF OLD HOUSE
AND 40' N OF DRIVEWAY TO ABANDONED BUILDINGS
1" X 1" X 5' HIGH IRON SHAFT AT NORTH EDGE OF MONU.
NEED TO CHECK WITH OWNER BEFORE WE TARGET

14

M.C. ON N. BANK OF LAKE (TEN MILE)

ORIGINAL GOV'T. SURVEY NOTES OF 1874

WHITE OAK 4" N 57°30'E 31ks

WHITE OAK 4" WEST 31ks

PAGE 41 THIS BOOK IS SAME CORNER

CERTIFICATE FILED

March 1915 - County Book B, Survey No. 252, page
67. FRANK DONNER states finding no evidence.
Set 2" x 48" galv. iron pipe to witness Meander
Corner. This corner is 3926.6' north of Sec.
Cor. 31 + 36.

15

1/4 CORNER BETWEEN SECS 31 & 32

ORIGINAL GOV'T. SURVEY NOTES OF 1874

POPLAR 8° S 75° W 21 1/2

POPLAR 10° N 7 1/2° E 27 1/2

FS APPYOK 4" TAM 36" ABOVE GROUND
FORM 458 ON 6" TAM S 84° E 36' 30 FT

1939

CERTIFICATE FILED

15 16

1/4 CORNER BETWEEN SECS 32 & 33

ORIG. ORIGINAL GOV'T. SURVEY NOTES OF 1874

R. OAK 10° N 77 1/2° E 191ks 12.54'

POPLAR 12° N 73° W 751ks 49.50'

F. Chained south 2640. From
FO Section Cor 28-29-32-33
193 to this location. Point Falls
in flooded area. Searched
2 Man hr's No evidence found.

4-27-66

James E. Horton

CERTIFICATE FILED

17

M. C. on the South Shore of
Cub Lake. Bet. Secs. 33/34

Original Gov't Notes of 1872.

y. Pine 10" 549°E 54 Lks - 35.64'

y. Pine 12" 533°W 67 Lks - 44.22'

CERTIFICATE FILED

4/6/86 - CK, GO, JA

Chained recorded dist. north from sec. cor.
33, 34. Fd. no evidence.

C.C. Done 1/23/87 GB

13 X, Y-13

M.C. ON N. BANK of Cub Lake

Bet. Sec's 33, 34

Original Gov't Survey Notes of
1873.

y. Pine 10" ~~15"~~ N27°E 350E 13 1/2' - ~~22 1/2'~~ 19.14' 8.58'

Poplar 3" 350E N65°E 39-1/2' 33 1/2' - 21.78' 19.14'

Found a very old 4' High snag
which has been chopped into
years ago. Mr Wood ~~off~~ had
run these lines out in 1910
with Moss Morris who at
that time, was surveying for
the County, stated that they
found this BT at this time.

9-28-14

James E. Stum

CERTIFICATE FILED

4/6/96 CK, J.A. G.P.
E.D.M. from ~~AM.C.~~ from the south to this
point record dist. No evidence found.

C.C. Done 1/23/876B

M.C. on S. Bank of Lake

Sec. 34-35

Original Gov't Survey Notes
of 1873.

y. Pine 13" $550^{\circ}E$ 29 Lks - 19.14'

Poplar 3" $N65^{\circ}E$ 33 Lks - 21.78'

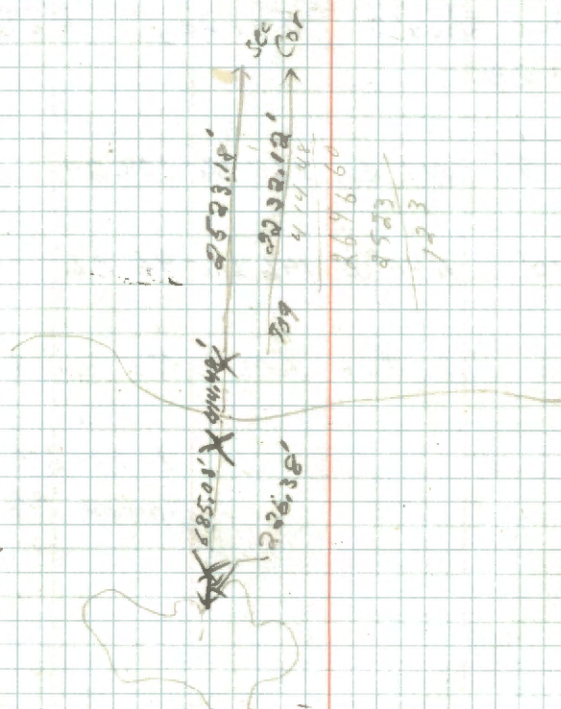
Searched 1 Man hrs No
evidence Found.

9-29-64

James E. Chilton

CERTIFICATE FILED

4177



4/6/86 CK, GB, JA
E.D.M. from M.C. to the south to this point.
Found no evidence. Cornu position seems
to fall in lake. c.c. Done 1/23/88 GB

M.C. on N. Bank of Lake
 Bet. Sec's 33, 34
 Original Gov't Survey Notes
 of 1873.

W. Pine 5" N1°E 164 Lks-108.24'

W. Pine 10" N45°W 146 Lks-96.36'

Searched 2 Max hrs No evidence
 Found.

9-28-64

James Ebstum

CERTIFICATE FILED

4/6/86 - CK, JA, GB

E.D.M. from approx M.C. to the south, to
 this area. Fd. no evidence.

C.C. Ome 1/23/87 GB

21 X-17

1/4 Corner Sec's 34-35

Original Gov't Survey of 1873.

Tamarack 5" N88°E 22 Lks 14.52'

Tamarack 5" N60 $\frac{1}{2}$ °W 32 Lks 21.12'

CERTIFICATE FILED

4/10/86 CK-GB
ON 4/9/ CHAINED SOUTH FROM SEC. COR. 26-27-34-35
1050'S ENT SWP. NE+SW - 1775'S LV. SWP. NW-SE ACROSS HIGHLAND
RIDGE 2315' S. OF WOODTICK TRAIL # 2107 - Fd. 4x4 CEDAR POST
15' E OF OUR LINE ON N SIDE OF ROAD 2 FSLPS. - OLD BRUSHED
LINE FROM SEC COR. SOUTH (E OF OUR LINE AT ROAD IS APPROX 35'E)
OLD BRUSH LINE CONTINUES SOUTH
CHAINED TO 2690' - SEARCH IN AREA Fd. SEVERAL TAM STUBS
ON TREES SHOW SIGNS OF BEING CHAPPED INTO YEARS AGO
NO EVIDENCE FOUND - EST. APPROX. COR. RIBBON ON BRUSH
PUT FSLP ON TAM 11 S81W 47' FROM APPROX. COR.
LOCATION IN OLD TAM SWP. WITH HEAVY BRUSH - APPROX. 100'E
TO ASPEN HIGHLAND NE-SW - FAIRLY WET SWAMP
C.C. DMW 1/23/87 GB

X-21

 $\frac{1}{4}$ Corner Between Sec's 35-36Original Gov't Survey Notes
of 1873.

Maple 2" N68W 21.1Ks - 13.86'

(Not Found)

Poplar 4" N80E 29.1Ks - 19.14'

(Not Found)

Chained North 2640'. From Sec
Cor. 35-36 to this location.
Found a 2" dia Iron pipe.

4-28-65

James Estrom

Affidavit

8ME

To perpetuate this Cor. I set a 2"
inside dia 5' long galvanized steel
pipe filled w/ concrete & capped w/a
3" dia bronze tablet stamped.

T4111R30W

 $\frac{1}{4}$

✓ 535 | 536

1965

ALS. NO. 6800

From which bears:

✓ N Pine 17" N54°W 37.6' scribed $\frac{1}{4}$ 535 BT.✓ N Pine 16" N63°E 31.2' scribed $\frac{1}{4}$ 536 BT.

6-11-65

James Estrom

OK
1/25/68

X-25 1/4 Corner Between Sec's 31-36

Original Gov't Survey Notes of
1873.

Poplar 12" N10°W 38 Lks - 25.08'

(Not Found)

Found a 2" dia Iron pipe at
Corner, Chained south from old
poster on Rd # 2107.

10-2-64

James Ekstrom

To perpetuate this Corner I set a
3" inside dia 5' long galvanized steel
pipe filled w/ concrete & capped w/a
3" dia bronze tablet stamped

T141N

✓ R30W R29W

536 531

1965

RLS NO 6807

From which bears -

Maple 5" N 24° E 18.2' Scribed ✓ 1/4 S 31 BT

Oak 17" N 53° E 41.0' Scribed ✓ 1/4 S 31 BT

Maple 15" N 5 19° E 41.5' Scribed ✓ 1/4 S 31 BT

Steel sign post 22" long set 24" in
ground w/ signs 54-2 & 54-4 attached
due North 25.8' ✓

5-24-66

James Ekstrom

536
7/23/68

V-25 Section Cor. Sec's 25-30-31-36

Notes of Orig Gov't Survey
of 1873.

Poplar 6" N47½°E 40 Lks - 26.40'

y. Pine 14" N50°W 56 Lks - 36.96'

y. Pine 12" S30°W 60 Lks - 39.60'

y. Pine 11" S65°E 20 Lks - 13.20'

Fd 2 ^{capped} N.P. on small island in meadow
at 1552 from poster on road

10-1-64
who

To perpetuate this corner, I set a
6" inside dia 5' long galvanized
steel pipe filled w/ concrete &
capped w/ a 3" dia bronze tablet
stamped

7141 N
R.30W R.29W

535 530

536 531

1965

RLS NO 6807

From which bears -

- ✓ N Pine 19" N25°E 43.3' scribed 530 BT
- ✓ N Pine 17" N35°W 42.6' scribed 525 BT
- ✓ y Pine 13" S48°E 46.2' scribed 531 BT
- ✓ Aspen 9" N64°W 47.7' scribed 536 BT

Steel sign post 72" long set 24" in
ground w/ signs 54-2 & 54-4 attached due
South 81.3'

5-24-65

James E. Hester

ok
7/24/68

25

V-23 $\frac{1}{4}$ Corner Sec's 25-26Original Gov't Survey Notes
of 1873.R. Oak 8" N11 $\frac{1}{2}$ °E 39.46 - 25.74'W. Pine 14" S35 $\frac{1}{2}$ °W 35.14 - 28.10'C-C Notes From 1937. They found
an iron pipe & cap at corner.
Apparently set by a County
Engineer.Fd 2" capped i.p. - did not have sufficient
time to search for B.T.'s.10-64
whoAffidavit
JTETo perpetuate this corner I set a
2" inside dia galvanized steel pipe filled
w/Concrete and capped w/a 3" dia bronze
tablet stamped

T141NR30W

 $\frac{1}{4}$ S26

1965

ALS NO 6807

From which bears

✓ Maple - 4" ✓ N36°W 22.8' ✓ scribed $\frac{1}{4}$ S26 BT✓ Maple - 5" ✓ S44°E 11.2' ✓ scribed $\frac{1}{4}$ S36 BT✓ N PINE - 12" ✓ S86°E 39.8' ✓ scribed $\frac{1}{4}$ S36 BTSteel sign post 72" long set 24" in ground
with signs, 54-2 f 54-4 attached over
West $\frac{1}{4}$.

5-20-65

James Ekstrom

57781CK

Fd. F.S. MONU. IN PLACE - IN GOOD CONDITION & CO. I.P.

N. PINE 14 S86E 39.8' OPEN SCRIBE

R. OAK 8 S44E 11.2 CLOSED SCRIBE

MAPLE 7 N36W 22.8 " "

CORNER ON HARDWOOD RIDGE - SIGN POST & SIGNS OK
FSLP ON 1/4 R. OAK SW 13.5'ok
7/15/68

V-21 Section Cor. Sec's 25-26-35-36

Notes of Orig Gov't Survey of 1873.

Birch 10" S65½°E 59 Lks - 38.94'

Maple 8" S5°W 34 Lks - 22.44'

Poplar 5" N20°E 48 Lks - 31.68'

W. Pine 14" N38°W 65 Lks - 42.90'

No BT's Found. area has been
furrowed up.C-C Notes of 1937 states
that at that time they found
an iron pipe 3" Cap Apparently
set by a Co. Engineer.Found a 2" dia iron pipe at
Corner location.

9-22-64

James Ekstrom

To perpetuate this Corner I set a
6" dia 5' long cylindrical Concrete
Measurement Capped w/a 3" dia bronze
tablet stamped.

T141NR30W

526	525
535	536

1965
R46 NO 6807

From which bears -

✓ Oak - 8" " S56°E 53.8' scribed 526 BT

✓ Oak - 5" " S15°E 33.9' scribed 536 BT

✓ Oak - 14" " N55°E 55.6' scribed 525 BT

✓ Maple - 6" " N50°W 18.4' scribed 526 BT

steel sign post 72" long set 21" in
ground w/signs 54.2 54.4 attached
due East 10.0'

5-24-65

James Ekstrom

The corner is located 20' West
of Sheared area. There is also
an old Plantation Post West of
Corner 4.'Line to Standard goes east from corner.
4/24/86 - GB Found corner in good condition. Corner is
on east edge of W. Pine Plantation approx 400' SE of
a trail.

V-19 1/4 Corner Sec's 26-35

Original Gov't Survey Notes
of 1873.

P. Oak 5" S 31° W 27 Lks - 17.82'

Spruce 7" N 22 1/2° E 46 Lks - 30.36'

Chained west from Iron pipe at
Section Cor. 25-26-35-36 on orig,
running Notes stopped at plantation
posts set in 1939 & 1940. Area
has been all furrowed up. No
evidence found. Searched 2 Max
hrs

8-2-64

James Elston

1983 GARY STEVENSON R.L.S. - CORNER CERTIFICATE

SET 2" X 36" IRON PIPE WITH BRASS CAP - AT LAST POSITION

CORNER IS 1.5' E OF 3" W. OAK

NEW TIES

W. OAK	20	N 16° W	15.65
W. OAK	7	S 58° E	37.94
W. OAK	5	S 28° W	11.90

CERTIFICATE FILED

1983 GARY STEVENSON

CERT.

E 116 $\frac{26}{35}$

2 x 60 I.P.

SET MID POINT BET 1/4 & S.C.

ASPEN 10 N 58° E 26.14'

ASPEN 8 S 30° E 42.83'

Section Corner Sec's 26-27-34-35

Original Gov't Survey of 1873

y. Pine 13° S45°E 46 Lks - 30.36'

Fd burned stp at record brg & dist

y. Pine 14° N70°E 49 Lks - 32.34'

Fd burned stp at record brg & dist

y. Pine 9° N81½°W 44 Lks - 29.04'

Fd burned stp at record brg & dist

y. Pine 16° S41°W 98 Lks - 64.68'

Fd burned stp at record brg & dist

C-C Notes from 1937. they found
an Iron Monument 1½" dia.
in good Condition 20" above
ground. Apparantly set by a Co.
Engineer.

Fd 1½" i.p.

9-30-64
who

To perpetuate this Corner I set a
2" inside dia 5' long galvanized steel
pipe filled w/ concrete & capped w/a
3" dia bronze tablet stamped

T141N R30W

527 526

534 535

1965

RIS NO 3807

From which bears

J Pine 8" N58°W 20.3' scribed 527 BT

J Pine 15" N22°W 58.3' scribed 527 BT

ELM 5" N62°E 18.6' scribed 526 BT

Oak 16" S12°E 6.1' scribed 535 BT

Steel sign post. 72" long, set 24" in
ground w/signs 54-2 1/2" 54-4" due East
7.6" SIGN POST & SIGNS OK 7.6'E

4/9/86 CK-GB-JA-TF Fd. FS, IRON CAP IN PLACE 1½" CO. I.P. AT SW
ALONGSIDE 5" HIGH - LINE TO STD. GOES EAST FROM THIS COR.

BT'S. AS FOLLOWS

J. PINE 10 N53W 20.3' SCRIBE VISIBLE

J. PINE 15 N15°W 6' HIGH " "

ELM 11 N62E 18.6' " "

W/OAK 11 SIZE 6.1 " "

6-14-65

James E. Chatham

V-16, 17

Mc East Bank of
Diamond Lake Sec's 27-34

Original Gov't Survey of 1873.

y. Pine 12" $N80\frac{1}{2}^{\circ}E$ 55 $1\frac{1}{2}$ ' - 36.30'

W. Pine 12" $S47\frac{1}{2}^{\circ}E$ 48 $1\frac{1}{2}$ ' - 31.68'

No evidence of original trees
w/NO 9-30-64

CERTIFICATE FILED

4/8/86 - Ck, JA, GB, TE
Measured from Sec. corner from the west, east
to this area. Fd. no evidence. C.C. Dora 1/23/87

30

V-16, 17

MC West Bank of

Diamond Lake Sec's 27-34

Original Gov't Survey Notes of
1873.

y. Pine 24" S24°E 38 Lks - 25.08'

W Pine 24" N72°W 123 Lks - 81.18'

No evidence of original trees, very
badly burned - 9-30-64
who

CERTIFICATE FILED

4/8/86 - CK, JA, GB, TF

Measured from Sec. corner from the west, east
to this area. Fd. no evidence. C.C. Done 1/23/82 GB

31

V-13, 16

M.C. East Bank of
Grass Lake Sec's 27-34.

Original Gov't Survey of 1873

W. Pine 24" N70°E 1031k - 67.98'

Oak 8" S10°E 971k - 64.02'

Fd 36" + W. Pine on bank of lake
very near our compass line from the
east, but quite long for distance,
presuming we started from approx.
the right place on Diamond Lake.

A C.C. tag from 1939 was nailed
on tree S 94° W 6.5 ch to approx.
corner. This could possibly be
the original B.T. did not chop
into it 9-30-64
WLD

CERTIFICATE FILED

I Chopped into W. Pine but it is
all rotten & hollow inside. No evidence
of scribe marks

6-14-65

James Johnston

4/8/86 - CK, GB, JA, TF

Measured from sec. cor. from the west, east across lake.
Fd. no evidence of original corner.

C.C. Done 1/23/87 GB

33 V-14, 15

M.C. West Bank of
Grass Lake Sets 27-34

Original Gov't Survey of 1873

W. Pine 12" N54°W 37 Lks - 24.42'

W. Pine 12" S44°W 119 Lks - 78.54'

Fd no evidence by running brg
across lake approx

10-16-67
who

CERTIFICATE FILED

CK-3A-6B

417/86 CHAINED TO THIS LOCATION FROM APPROX SEC. COR. TO WEST
AT BEARING N88E (CCC) 1920' NO EVIDENCE FOUND - ONLY FOUND
ROTTED ASPEN STUMPS IN HEAVY BRUSH - NO PINE STUMPS IN AREA
OUR LINE FROM WEST HITS ISLAND IN LAKE APPROX. 1/3 INTO FROM
N SIDE - MAKE OFFSET N 150' THEN N88E 190' TO LAKE SHORE
FROM E SHORE WE SHOULD SEE THIS POINT FOR EDM DISTANCE ACROSS LAKE
C.L. Done 1/23/87 G.B.

V-13 Section Cor Sec's 27-28-33-34

Original Gov't Survey of 1873

y. Pine 8" S40°E 46 Lks - 30.36'

y. Pine 11" N50°E 47 Lks - 31.02'

y. Pine 7" S70°E 44 Lks - 29.04'

y. Pine 5" N47°W 79 Lks - 52.14'

C-C Notes from 1937. they found a iron pipe in good condition 36" above ground. Apparently set by a County Engineer.

Found an old F.S. L.P. on 14" Oak and also a very old point on swamp's edge w/ checks out good to a pine stump S40°E 30.36' Location poster is approx 100.' South.

9-28-64

James E. Hutton

CERTIFICATE FILED

4/9/86 CK-GB WALK INTO AREA FROM EAST SEARCHED 1 1/2 HRS NOTHING FD, OF ORIG, BT'S FD, OLD FSLP ON 22" W. OAK IN AREA - WILL CHAIN IN ANOTHER TIME FROM SOUTH + EAST
4/17/86 CHAINED UP NZW FROM APPROX. STD. COR. 33-34 (CCC DISTANCE) 50.56" NO EVIDENCE WAS FOUND AT THIS TIME - CONTINUE EAST FROM APPROX. LOCATION TO CHECK TIE FOR MILE EAST CK-34-68

C.C. Done 1/23/87 G.B

Book 4 of CCC's 6/9/39 Set 4" tam. post 36" high for approx corner F.S. L.P. on 12" R. Oak N76E 97 Lks. See page 27

V-11 1/4 Corner Sec's 28-33

Original Gov't Survey of 1873

Birch 10" N27°E 26 Lks - 17.16'

y Pine 9" S41°W 44 Lks - 29.04'

Found a F.S.L.P. at Corner location.
 Put up in 1937, by C.E.S. stating
 that approximate Section Corner
 is N80°E 246 Chs - 30.36'. Area has
 been furrowed up, and evidence
 of fire at one time in this
 area is visible. Search Time
 1 Man hr

9-18-64

James Ekstrom

Chained from an orig Corner. 1/2
 Mile west. Falls in same location
 that G-C poster states.

9-22-64

James Ekstrom

CERTIFICATE FILED

BOOK #4 CCC NOTES PAGE 28

APPROX. 1/4 28+33 6/9/39

SET 3" R. OAK POST 48" HIGH

FSLP ON FENCE CORNER POST
 S80W 46 LKS.

CCC HAVE 40.11 CHS E+W
 OF 1/4 COR, APPROX. LOCATION
 IF WE FIND POST W/ TAG
 WILL USE AS APPROX. COR.

V-9 Section Corner Sec's 28-29-32-33

Original Gov't Survey of 1873.

y Pine 13" S33°W 29 Lks - 19.14'
(Now a decayed stump at record bearing dist)y. Pine 16" N51½°W 32 Lks - 21.12'
(Now a Pine stump w/BT visible at bearing dist)Oak 10" S30°E 54 Lks - 35.64'
(No evidence found)Poplar 14" N31°E 99 Lks - 65.34'
(No evidence found)

Found a mound of stone
under a cover of Moss &
leaves at Corner location also
a very old F.S.L.P on a 10"
Birch 54°W 10.0'

9-22-64

James E. Stearns

C.C. Notes 5-9-37

Aspen post scribed 4" dia. 24" above ground in mound of rock

Burned N. Pine stps ident. as orig. 18" N51½°W .32 ch. ✓

" " " 14" S33°W .29 ch.

Set post on Fe. post N34°W .09 ch

Set a 2" dia 5' long galvanized
steel pipe filled w/ concrete &
capped w/a 3" dia bronze tablet
stamped

✓ T141N R30W

529 | 528

532 | 533

1964

R25 NO 3807

From which bears

OAK - 7" N66°W 26.8' Scribed - 529 BT

OAK - 5" N76°E 16.0' Scribed - 528 BT

OAK - 8" S13°W 58.1' Scribed - 532 BT

N Pine - 18" S50°E 117.5' Scribed - 533 BT

Sign 54-4 attached on N.E. BT.

gone

The corner is in sheared area. With
two of the BT gone

12-2-64

James E. Stearns

Steak
7/22/64

36 V-7

1/4 Cor Sec's 29-32

Original Gov't Survey of 1873.

Tamarack 5" N5 1/2 W 15 Lks - 9.90'

Tamarack 18" S3 W 35 Lks - 23.10'

C-C Notes From 1937, they found a 3" square post, in good condition from which bears.

Rotten Tamarack stump - 12" N4 W 9.90'

Post is 12.20' south of water's edge. Metal location poster is on a "Ash 5" S46 W 12.54'".

CERTIFICATE FILED

NOTES BY E.B. HORST CO. SURVEYOR BOOK C PAGE 466

FD. 1/4 COR. 1920

E.B. HORST 1922 SET IRON MONUMENT FD. ORIG. BT'S.

8/12/86 - Brama, Ausk

Scaled position on quad and searched with metal detector. FD. no evidence of corner position.

Bog is semi dry near Peach Lake.

C.C. Bora 1/23/87 GB

CCC BOOK #104

P.2 1/4 29 5/9/37
32

FD. 3" SQD. TAM. POST 30" HIGH

FROM POST TO ORIG BT,

TAM. STP. 12 N4W 15 LKS.

FSLP ON 5 ASH N46E 19 LKS.

V-5 Section Cor Sec's 29-30-31-32

Original Gov't Survey of 1873.

y. Pine 13" S43°W 29 Lks - 19.14'

y. Pine 16" N51½°W 32 Lks - 21.12'

Oak 10" S30°E 54 Lks - 35.64'

Poplar 14" N31°E 99 Lks - 65.34'

Notes of County Survey Notes
are on record in Cass Co.
Court house.

Iron Monument (Not Found)

C-C's Had Found This Corner in
1937. they put up a 4" post
along side of Pipe at That
Time. FS.LIP on a (5" Ash N75°W 2118')

I found a very old Blazed line
leading to shore of Gobell Lake.
Bearers have dammed up Lake so

CERTIFICATE FILED

I believe Sec. Corner falls
out along ways in water. also
Made search for Orig. Bts. But
No evidence Found.

Search Time 3 Mon
Hrs.

9-18-64

James Estum

4/10/86 CK, GB

Measured from S¼ sec's 29, 30 county dist.
south 1357. Fell in a floating bog. Hard to search.
4/15/86 Discovered a distance error between S¼ and ¼.
See page 51 of this book. Possibly need to search for
sec. corner 91' north of first position.

8/12/86 Aust, Brama

Floating bog has dried up. Pulled 91'
north and searched with metal detector.
Fd. no evidence of corner. Found some good
size pine stps. one stp. has old nail on top
and chopping on side. cc. Done 1/23/87 GB.

3/4/88 Krause, BRAMA

Fd 2" iron pipe well pitted. Cap appears to be
broken or rusted off. Pipe is N32W, 204' from
target. Search area was determined by inverting
from S¼ sec 30, county distance 2641 over to
this corner.

1922 E.B. HORST

COUNTY RESURVEY E-38

IRON MONU.

3/4/88 CK

DISTANCE FROM S¼ SEC. 30 - 2641.2'

DISTANCE FROM E¼ SEC. 30 TO S¼

IS 1437' THEN FROM S¼ TO

SEC. COR. 1337'

DISTANCE FROM S¼ SEC. 30 TO PIPE

AT SE. COR. CHECKS OK

DISTANCE FROM E¼ TO SE COR. IS OFF

BY APPROX. 60' WITH PLAT DISTANCE

V-3 1/4 Cor Sec's 30-31

Original Gov't Survey of 1873

Tamarack 10" S76°E 60 Lks - 39.60'

Tamarack 12" N64°E 76 Lks - 50.16'

Notes of E. B. Horst engineer
in 1920.

Iron Monument:

From which bears:

Tamarack 8" S66°W
S55°W (No dist) 46.35'

Tamarack 6" N62°E (No dist)

Chained East from Iron pipe
at Cor to Sec's 30-31-25-36
to this location No evidence
found 11-17-64James Chilton
Search Time 2 Man hrs

CERTIFICATE FILED

CK-JA-6B

4/16/86 CHAIN ON HIGHLAND AND EDM ACROSS WET SWAMPS
FROM SEC. COR. TO WEST AT BRG. S89°E ALONG OLD BRUSHED
LINE FROM SEC. COR. - DISTANCE TO E EDGE OF BLK TOP OF MLY 371
AND INTERSECTION OF WOODTICK TRAIL NE (AT THIS POINT DISTANCE
IS 2417' THEN BY TRAVERSE JEFF COMPUTED A BEARING OF S81°E AND
DISTANCE OF 456' - SEARCHED IN AREA WITH METAL LOCATOR
AND FOUND 2" CAPPED IRON PIPE IN PLACE LEANING WITH OLD WOOD
POST & POINT UP & DOWN AT COR. POSITION - IN VERY WET - FLOATING
MARSH - BEAVER HAVE THIS SWP. FLOODED - FROZEN CONDITIONS
MAY BE ONLY TIME TO GET TO THIS LOCATION - APPROX 60° SE
OF BEAVER LODGE - VISIBLE FROM WOODTICK TRAIL - RIBBON ON
BRUSH AT CORNER C.C. Done 1/23/87 GB.

1895 - Lothrop Plat by R.E. Tatt 1895

1920 - E. B. HORST found corner. Set iron
pipe. Book C page 465 and 468.

1922 E.B. HORST county resurvey E-38

1969 - Browns Ten Mile Shores Plat by
R. F. Schneider.

3/3/88 CK, W.C., T.F., G.B., MH

Set a U.S.F.S. brass capped monument 2"x48" galv.
pipe. Monument set over 14' of steel sign posts.

Set reference objects:

1. 8' steel sign post N45°E 8.25 Land Survey Sign
2. 8' steel sign post south 8.40 " " "
3. 8' steel sign post N81°W 5.94 " " "

Found 2"x36" galv. cap county iron monument.
Placed this monument on north side of U.S.F.S.
mon.

Search for original BT'S. Found no evidence
at this time.

Found evidence of one county BT marked in 1920.
Tamarack 10' stub, 9" dia. S66°W 46.35'.

V-1 Section Cor. Sec's 25-36-30-31

Original Gov't Survey of 1873

y. Pine 10" N73°0'E 148 Lks 97.68'

CURIO FOUND STUMP PLAINLY MARKED (1911)

y. Pine 13" N33°0'W 147 Lks 97.02'

CURIO FOUND STUMP PLAINLY MARKED (1911)

Aspen 3" S16°30'W 38 Lks 25.08'

Aspen 3" S19°30'E 35 Lks 23.10'

Notes of John Curio, Cass Co.

Surveyor in 1911. BOOK A SURVEY #170

PAGES 384-385

Iron Monument - Cap on top
(Found Iron Monument w/ Cap on top)

Notes of E. B. Horst - Engineer -

in 1920.

J. Pine 8" S67°W 32.0' *James Ekstrom*

N. Pine 10" N43°30'W 89.0'

(Now a 18" N Pine (N43°W Mag bearing" 89.0')

ST. Hwy 5840 Feet.

To perpetuate this Cor, set a 5 foot long 2" inside dia galvanized steel pipe filled w/ concrete and capped w/a 3" dia bronze tablet stamped.

T141N	
R31W	R30W
525	530
536	531
1965	
BLS NO 6807	

From which bears:

J. Pine 12" S17°W 19.0' scribed 536 BT

Aspen 8" S61°E 13.9' scribed 531 BT

Oak 14" N20°E 69.8' scribed 530 BT

N. Pine 18" N35°W 89.0' scribed BT
CO. BT

5-7-65

James Ekstrom

finds
4/16/86 - ck, JA, GB
Fd. 2" galv. iron pipe with B.C. set 20" above ground with 2" county cap pipe on south side.
Fd. evidence of 1 BT recorded by County in 1911. N. Pine N38W 89.0'
Fd. evidence of 3 BT'S recorded by Ekstrom in 1965
J. Pine 517W 19.0' scribe vis.
Rotted aspen stp. S61°E 13.9' scribe vis.
Red Oak N20W 69.8' Scars closed.

Corner falls on a south side slope of a hill and approx. 35' north of a E-W grass marsh.

See BOOK 2 - T141N R31W Page 39

MC on Point in Ten Mile
Lake

Original Gov't Survey of 1873.

Tamarack 5" S10°W 6 LAs - 3.96'

Aspen 4" S19°E 4 LAs - 2.64'

CERTIFICATE FILED

March 1915 - County Book B, Survey No. 252, page 67.
FRANK Donner states finding no evidence.

M.C. North Bank of Ten
Mile Lake.

Original Gov't Survey of 1873.

W. Oak 4" N57°30'E 3 Lks - 1.98'

W. Oak 4" West 3 Lks - 1.98'

PAGE 14 THIS BOOK IS SAME CORNER

CERTIFICATE FILED

M.C. South Bank of Ten Mile
Lake

Original Gov't Survey of 1873

Aspen 6" S20°W 17 Lks- 11.22'

Birch 8" S17°W 32 Lks- 21.12'

CERTIFICATE FILED

March 26, 1915 - County Book B, Survey No. 252
pg. 67. FRANK DONNER states finding no evidence.

43 V, W-1

M.C. North Bank of Ten Mile
Lake. Bet. Secs. 36, 31

Original Gov't Survey of 1873.

W. Pine 20" N93°0'W 120 Lhs - 79.20'

Aspen 14" N23°0'E 177 Lhs - 116.82'

See Book 2 - T141N R31W, Page 38 for
information.

CERTIFICATE FILED

This M.C. is 1452' south of Sec. Cor.
C.C. Done 1/23/87 G.B.

T-1 $\frac{1}{4}$ Cor. Sec's 25-30

Original Gov't Survey of 1873

W. Oak 8" N19°W 36 Lks - 23.76'

Birch 7" N80°E 7 Lks - 4.62'

Searched 2 Max hrs, but No
evidence Found. Area has been
all cut over years ago. alot of
old Hard wood Log piles (rotten)
Near by. Chained North 2640.0'
as per Call for in orig running
Notes from County Pipe at
Section Corner 25-36-30-31.

10-6-64

James Ekstrom

S, T-25 M.C. South Bank of Tepee
Lake. Sec's 25 & 30

Original Gov't Survey of 1873.

Tamarack 5" $542\frac{1}{2}^{\circ}E$ 12 Lks - 7.92'

Tamarack 6" $575^{\circ}W$ 21 Lks - 13.86'

Chained North from where my
distance fell for $\frac{1}{4}$ Con. Sec. 25 & 30
699.60' as per Call for in
orig running Notes. I hit Lake
shore at 625.0' I believe M.C.
falls out in Tepee Lake. Heavy
Beaver cutting on Lake shore.

10-6-64
James E. E. E.

CERTIFICATE FILED

S, T-25 M.C. North Bank of Tepee
Lake. Sec's 25 & 30

Original Gov't Survey of 1873.

W. Pine 6" $558^{\circ}E$ 23 Lks - 15.18'

Poplar 8" $N4^{\circ}W$ 25 Lks - 16.50'

To find location for this line,
I set "Day-glowe paper" on south
shore of Tepee Lake and sighted
across with Hand Compass. Being M.C.
Corner, on south shore, which I
believe falls in lake approx
25' I also believe this corner
does also. Further explained
on "page 47" this Book.

10-6-64
James Ekstrom

CERTIFICATE FILED

R-25 Section Cor. Sec's 24-25-19-30

Original Gov't Survey Notes
of 1873.

Tamarack 7" N42 $\frac{1}{2}$ °E 9 Lks - 5.94'

(Now decayed stump at bearing & dist)

Tamarack 6" N19°W 67 Lks - 44.22'

(Now decayed stump at bearing & dist)

Tamarack 5" N55°W 16 Lks - 43.56'

(Now decayed wood & roots at bearing & dist)

Tamarack 7" N61°E 14 Lks - 9.24'

(Not Found)

(Found very old Squared Post)

Also found very old Point order box.

after subtracting distance, from
orig running notes, To Make up
for increasing water levels in
Tepee Lake, I Chained North
535.0' I subtracted 25' from 610.50'
which was total dist. Came approx
10.0' from old post.

10-6-64

James Ekstrom

To perpetuate this corner I set a 2"
inside dia, 5' long galvanized steel pipe
filled w/ concrete & capped w/a 3" dia
brass tablet stamped

T141N
R30W R29W

524 519

525 530

1965
RLS NO 6407

From which bears -

Aspen 8" 547°E 70.0' scribed 530 BT ✓

Aspen 7" N74°W 78.0' scribed 524 BT ✓

Tan 7" N60°E 77.3' scribed 519 BT ✓

steel sign post 72" long set 24" in
ground 564°W 5.5' w/sign 54-4
attached.

steel sign post 72" long set 24" in
ground w/sign 54-2 attached due
North 8.2'.

6-11-65

James Ekstrom

ENTERED 3/86 CK

NOTES BY J.W. Curo 1915 BOOK C PAGE 464 SR# 467
FOUND EVIDENCE OF NE + SE ORG. BT'S. + OLD STAKE
SET NEW POST

R-23 1/4 Cor. Sec's 24 & 25

Original Gov't Survey of 1873

W. Pine 12" S36°W 66 Lks- 43.56'

R. Oak 12" N32°W 63 Lks- 41.58'

Searched 2 Man hrs, No evidence
Found. Area has had very heavy
Fire Damage.

10-7-64
James Chilton

CERTIFICATE FILED

R-19 $\frac{1}{4}$ Cor. Sec's 23 & 26

Original Gov't Survey Notes of 1873

Poplar 10" S42W 66 Lks - 43.56'

Poplar 3" N48E 23 Lks - 15.18'

No evidence of orig BT's Found.
 Chained west to this location
 From C-C tag at Sec Corner 23-24-25-26
 Found a C-C tag at this
 location that Approx Corner lies
 N76 $\frac{1}{2}$ °E 0.35 Cbs Found a Mound
 of stone here, area has been
 all furrowed up. Tag is on a
 very old Fence Post. Fence runs
 North & South.

5-26-65

James Estrom

CERTIFICATE FILED

R-17, 18 M.C. East Bank of Horde
Lake. Sec's 23 & 26

Original Gov't Survey Notes
of 1873.

W. Pine 18" N11°E 56 1/4 - 36.96'

W. Pine 24" S61 1/2°E 114 1/2 - 75.24'

Searched 2 Man Ac's No evidence
Found.

5-26-65

Jamie Etcham

CERTIFICATE FILED

4/29/86-CK, GB, JA

Ran the meander lines on the south end of
Horde Lake. Lines seem to fit the lake, but sometimes
went on high ground away from the lake.
Established approx. m.c. from meander lines and
2 pine stps. Neither stumps fit bearing &
distance right on. C.C. Done 1/23/87 GB

T-5 1/4 Cor Sec's 297' 30"

Original Gov't Survey Notes of
1873

Pine 10" N65°W 86 Lks - 17.16'

Spruce 5" S18½°E 23 Lks - 15.18'

Searched 3 Man hrs for this Corner
but No evidence found. Chained
from both North & South to this
location. Location falls in very
heavy brush and ground is boggy.
(C-C Notes say they found this
Corner in 1937. From which bears
a "Tamarack snag 6" S15°W 13.20')

9-17-64

James Johnson

ENTERED 3/6/86 CK

NOTES AT CASS COUNTY COURTHOUSE - SURVEY # 467

1922 E. B. HORST BOOK C PAGE 469

SET 2" X 48" IRON MONUMENT

CERTIFICATE FILED

4/15/86 CK-JA-6B

CHAINED NORTH FROM S'116 BET. 29430 - 1357' TO AREA OF
1/4 COR. OUR DISTANCE FELL IN MARSH GRASS & BRUSH SWP. E/W
APPROX. 90' IN SWP. - SEARCH WITH LOCATOR E/W 100' FROM END
OF CHAINING - NO EVIDENCE FOUND AT THIS TIME (SWP FROZEN)
FELT OLD DOWN WIRE FENCE AT SOUTH EDGE OF MARSH BRS E-W
OLD FENCE CORNER ON HIGHLAND APPROX. 150' SW OF OUR
LOCATION - NYS ROAD IS APPROX. 250 TO 300' E

4/21/86 CK-JA-6B

SEARCH AGAIN USING COUNTY TIES W & S AND FOUND 2" IRON
LYING IN SWAMP ALSO 3" SQD TAM. POST LEANING NORTH
OLD FENCE LINE N & S SOME FENCE POSTS & WIRE FROZEN IN SWP.
RIBBON AREA AROUND CORNER LOCATION - NO TREES NEAR
TIE TO WEST WAS 210' FROM 1/4 COR. REESTABLISH BY COUNTY
TIE TO SOUTH WAS 116' ON RANDOM LINE 135' E OF IRON
BOTH TIES CHECK WITHIN 10' NOW FROM IRON PIPE

(S 120' W 210') LV. SWP. - IRON STILL FROZEN IN ICE
AND POST - WILL STRAIGHTEN WHEN WE TARGET POSITION
NOTE: WHEN WE RAN LINE SOUTH AT 91' SOUTH THE END OF
COUNTY DISTANCE 1357.4' CHAINED NORTH FROM S'116 29430
IN POWERLINE IS APPROX. 50' W OF THIS LINE RUN TODAY
SO S'116 MUST BE OUT OF POSITION BY AT LEAST 90'

C.C. DOME 1/23/87 6B

S-5 North $\frac{1}{4}$ Cor Sec's 29 & 30

Notes of County Survey. Notes
are on record in Cass Co.
Court house.

Iron Monument:

Found a 2" dia Iron Monument
at Fence Corner.

10-5-64

James Ekstrom

To perpetuate this Corner I set
a 2" inside dia 5' long galvanized
steel pipe filled w/ concrete and
capped w/a 3" dia bronze tablet
stamped -

T141N R30W

N $\frac{1}{4}$

530 529

No trees near

5/17/65 James Ekstrom

1965

ALS NO 6807

4" x 4" x 5' long red top Cedar post due North
5.0' w/signs 54-2 & 54-4 attached.

4" x 4" x 5' long red top Cedar post due South
8.3' w/signs 54-2 attached.

10/15/65

21-5 South $\frac{1}{16}$ Cor Sec's 29³' 30

Notes of County Survey. Notes
are on record in Cass Co.
Courthouse.

Iron Monument:

found a F.S.L.P. on a 26" Pine
stump. which says Corner bears
N75³ 21.12' ground at this
point has been disturbed. Found
2" iron pipe south of point
about 6.0' feet. New R.E.A. line at
this location. 9-17-64 James Epton

To perpetuate this Cor. I set a 6" dia 5' long
cylindrical Concrete Monument Capped w/a 3" dia
bronze tablet stamped:-

T141N R30W

3/16

530 529

1965

RES NO 6887

From which bears-

W Oak \downarrow 111⁴ N34°W 74.0' scribed 5/16 BT
W Oak \downarrow 16²⁰ N77°W 85.0' scribed 5/16 530 BT
R Oak \downarrow 11" S48°E 85.1' scribed 5/16 529 BT

Steel sign post 72" long set 24" in ground
w/sign 54-2⁵ 54-4 attached due North 14.55'
5-20-65 James Epton

Affidavit
SITE

1441.0'	1346.8'	1346.8'	1346.8'	
1315.3	1326.2	1286.0	1346.2	1362.4
1454.4'	1352.1'	1340.2'	1340.2'	
1315.3	1326.2	1336.0	1346.2	1362.4
1467.9'	1357.4'	30 1333.7'	1333.7'	
1315.3	1343.6	1369.5	1363.6	1362.4
1484.1	1363.8'	1327.1'	1327.1'	
1816.3	1343.6	1369.5	1363.6	1362.4
1500.3'	1370.2'	1320.6'	1320.6'	2655

Iron Monuments set:

There is road approx. 30'
North of corner running East West
411086 F.S. MONU + SIGN POST IN POWERLINE CLEARING
Mon. is broken and out of position. Base may
be in place.

ok
9-22-68

5429.6
(5424.8)
Plat. 4110

31/32

P-1 1/4 Cor Sec's 19E 24

Original Gov't Survey Notes of 1873.

W. Pine 6" N31 1/2°W 44 Lks- 29.04'

W. Pine 10" N64 1/2°E 39 Lks- 25.74'

Notes of John Curo Cass Co.
Surveyor in 1911 set an

Oak Stake-

Poplar 3" N63°E 26.5'

Poplar 3" S60°E 20.0'

From Section Corner 24-25-19-30
I Chained North 2640.0' At
Corner location found a very
old fence running west, also a
rotten Aspen stump N63°E 26.5'
with a possible squared post lying
on stump, believe some one took
it out of old road and put it by

CERTIFICATE FILED

the 187 years ago, also at
dist 5' bearing to stump point falls
on East Edge of road due East of
Pence line.

10-7-14

James E. Peterson

3/86 SURVEY RECORD # 204 - BOOK A
OCT, 28, 1912 J.W. CURO & CREW
FOUND W. PINE STUMP NE PLAINLY MARKED
FOUND W. PINE ROOTS NW
SET 3X3X36 OAK POST AT TRUE CORNER POSITION
AND WITNESSED BY NEW BTS.
POPLAR 3 N63E 26.50'
POPLAR 3 S60E 20.00'

M.C. Sec's 6 & 31 East
Shore Ten Mile Lake.

East side of point west of Quarter

Notes of Original Gov't Survey
of 1873.

W. Pine 12" N60°E 7 Lks - 4.62'

CURO FOUND STUMP OF THIS BT. IN 1911

W. Pine 14" 57°W 13 Lks - 8.58'

CURO FOUND STUMP OF THIS BT. IN 1911

Notes by John Curro. Cass Co.
Surveyor in 1911 BOOK A P385

REMOVED WOOD POST AND SET - Survey No. 170

Iron Monument - 2" x 48" Capped on
top in bed of Cement & rock.

A joining land owner says that
he has never seen this pipe
but believes it is out along
ways in lake. There had been a
land dispute between two resorts
at this corner so he said a
few years ago "Curro" established
the line from the south & put
in a witness corner on line
11-20-64 James Ekstrom

513.48
70
CERTIFICATE FILED

CERTIFICATE BY JIM NIELSEN MN. DOT 1983

Book B, Survey Record No. 252, Frank A. Donner both
stumps of original plainly marked and 2" x 48" iron pipe
set nearly all in the ground as established by John Curro
(March 23, 1915)

R-1 Section Cor. Sec's 19-24-25-30

Original Gov't Survey of 1873.

Post-

Tamarack- 5" N11°E 54 Lks - 35.64'

Tamarack- 4" N32½°W 34 Lks - 22.44'

Tamarack- 3" S64°W 10 Lks - 6.60'

Tamarack- 3" S62½°E 15 Lks - 9.90'

Notes of E. B. Horst, Engineer
in 1920 Fd. NE BT (ORIG) and original
corner post 1' under now. R.B.C P. 406

Iron Monument - 2½" x 30" Capped.

"No BT's" (Not Found) point
falls in old Hi way.

11-18-64

James Skatum

CERTIFICATE FILED

T-19 Center $\frac{1}{4}$ Section. 26.

C-C Notes From 1937. They
Found an Iron pipe in Good
Condition 18" above ground.

Chained North to this location
From approx $\frac{1}{4}$ Cor Sec's 26 & 35
7642'. Chaining stopped at edge
of plantation. Searched $1\frac{1}{2}$ HON
hr's No evidence of pipe found.

5-3-65

James Chestnut

CERTIFICATE FILED

Center East $\frac{1}{6}$ Cor, Sec 30

IRON Monument:

C-C Notes from 1937. they Found
a 2" Galv. Iron Pipe in good
Condition - Laying on ground -
Metal location Poster on a
Tamarack 6" S 150°W? 0.27 Lks.
17.82' Corner on Fence line
running North & South.

CERTIFICATE FILED

R-4 East $\frac{1}{4}$ Cor. Sec's 19 $\frac{1}{2}$ 30

Notes of Cass County Survey.
Notes are on record in Cass
County Court house:

Iron Monument (Found a 2"
dia iron pipe at fence corner,
fence running North & West - from
pipe.

10-6-64
James Ekstrom

To perpetuate this corner I set a
2" inside dia 5' long galvanized steel pipe
filled w/Concrete & capped w/a 3" dia
bronze tablet stamped

T141 N R 30W
E $\frac{1}{4}$ $\frac{5.19}{5.30}$ /
1965
A.L.S. NO. 6807

Affidavit
SITE

From which bears
Tamarack - 3" N75°W / 114.6' scribed X BT
Oak - 10" S80°E 96.0' scribed EX 680BT
steel sign post 72" long, set 2' in
ground w/ signs 54-2 & 54-4 attached
due North 15.7'

James Ekstrom
1/18/68

5/19/65
James Ekstrom

R-2 West $\frac{1}{16}$ Cor. Sec's 19 & 30

Notes of Cass County Survey Notes
are on record in Cass County
Courthouse.

Iron Monument (Found a 2"
dia iron pipe at record distance,
run West 1346.8' From $\frac{1}{4}$ Cor
Sec's 19 & 30 on 2° dec.
also came good on bearing.

10-6-64

James Ekstrom

To perpetuate this corner set a
2" inside dia 5' long galvanized
steel pipe filled w/ concrete & capped
w/a 3" dia bronze tablet stamped.

T141N R30W

W $\frac{1}{16}$ 519

520

1965

ALS NO 6807

From which bears:

Oak	6"	N26°W	20.7'	scribed w $\frac{1}{16}$ BT
Oak	8"	N19°E	23.6'	scribed w $\frac{1}{16}$ 519 BT
Oak	7"	S35°W	12.4'	scribed w $\frac{1}{16}$ BT

Steel sign post, 22" long set 24" in ground
w/signs 54-2 & 54-4 attached due East
8.9'

5/10/65

James Ekstrom

✓ J. Ekstrom
7/2/65

61

S-~~2~~ North west $\frac{1}{4}$ Cor. Sec 30

Notes of Cass County Survey.
Notes are on record in Cass
County Courthouse.

Iron Monument (Not found) found
old barb wire around oak tree
at corner location, but no
evidence of pipe.

10-5-64

Jamies Ekstrom

CERTIFICATE FILED

Center west $\frac{1}{4}$ Cor Sec 30

Notes of Cass County Survey.
Notes are on record in Cass
County Court house.

Iron Monument (Found a 2"
dia pipe at Fence Corner. Fence
runs North-South & East.

10-5-64

James Ekstrom

To perpetuate this Corner set a
3" inside dia 5' long galvanized
steel pipe filled w/ concrete & capped
w/ a 3" dia bronze tablet stamped

T141N R30W

CW $\frac{1}{4}$ S30

1965

RLS NO 6807

From which bears:

Oak	5"	S20°E	30.1'	Scribed CW $\frac{1}{4}$ BT
Oak	4"	S15°W	37.6'	" X BT
Oak	5"	S54°W	35.8'	" CW $\frac{1}{4}$ BT

Steel sign post 72" long 24" in ground
w/ signs 54-2 & 54-4 attached due North 9.1'

check
7/20/65

T-3 Center $\frac{1}{4}$ Con Sec 30

Notes of Cass County Survey.
Notes are on file in Cass
County Court house.

Iron Monument (Not Found) dist.
falls at old Fence Corner
but No evidence of pipe.

10-5-64

James Ekstrom

CERTIFICATE FILED

S-3 Center North $\frac{1}{6}$ Cor. Sec 30

Notes of Cass County Survey,
Notes are on record in Cass
County Courthouse.

Iron Monument (Found) a 2"
dia Iron pipe unde Fence
line. Fence runs North & South
over pipe.

10-5-64

Janus Ekstrom

To perpetuate this Corner set a
2" inside dia galvanized steel pipe
filled w/Concrete & Capped w/a 3"
dia bronze tablet stamped

5/10/65 Janus Ekstrom

T141N R30W

CN $\frac{1}{6}$ 530

1965

From which bears

R15 NB 6807

Oak 8" N47°W 14.1' Scribed CN $\frac{1}{6}$ BTOak 9" N58°E 39.9' " CN $\frac{1}{6}$ BTOak 11" N34°E 46.3' " CN $\frac{1}{6}$ BT

Steel sign post 72" long set 29"
in ground w/signs 54-41 & 54-2 due west 7.9'

Ekstrom
7/22/68

.65

S-4 North East $\frac{1}{16}$ Cor. Sec 30

Notes of Cass County Survey.
Notes are on record in Cass
County Court house.

Iron Monument. (found) a 2"
dia iron pipe at Fence Corner.

10-5-64
James Ekstun

CERTIFICATE FILED

66

P-5 1/4 Cor. Sec's 19-20

Notes of orig gov't Survey of
1873.

Poplar - 8" N84°E 24 Lks - 15.84'

Oak 10" S32½W 19 Lks - 18.54'

Chained North to this location
from a County Pipe at Section
Cor. 19-20-29-30. Searched 2 Man
hrs. No evidence found. area has
been heavily burned over.

4-19-65

Janus Ekstrom

CERTIFICATE FILED

11-1 South $\frac{1}{4}$ Cor Sec's 85 E 30

Notes of Cass County Survey.
Notes are on file in Cass
County Court house, BOOKC SURVEY #467
1922

Iron Monument - (found 2" iron at corner)

4/21/86 CK
THIS CORNER WAS IN ERROR AS SET

11-17-64

AND WAS TO BE MOVED SOUTH 9.1'

AND WEST 13.0' PAGE 469 IN NOTES

To perpetuate this Cor. set a
2" inside dia 5' long galvanized,
steel pipe filled w/ concrete &
capped w/a 3" dia bronze tablet
stamped.

T141 N

R31W R30W

3 1/6

525 530

1965

From which bears

RLS NO 6807

Aspen 6" S60°W 5.6' Scribed 5/16 BT

Aspen 7" S13°E 16.5' Scribed 5/16 BT

W Pine 16" N22°E 39.2' Scribed 5/16 S30BT

Steel sign post 72" long set 24" in ground
w/ signs 54.2' & 54.4' attached due west 6.3'

4/16/86 - CK, GB, JA

Found 2" galv. iron pipe with B.C. set 24" above
ground. 2" galv. iron pipe with cap (county iron)
on west side.

Fd. 3/4" iron pipe S75W at 13.2' from U.S.F.S.
monument

Fd. remains of 3 BT's recorded by Ekstrom in 1922

1. Rotted Aspen stump. S60W 5.6 BT vis.

2. Rotted Aspen stp. S13E 16.5 BT vis.

3. 17" White Pine snag N22E 39.2 Scribe vis.

Mkd. Temporary BT.

W. Oak 5" N61W, 69.6 Tag & spike

W. Oak 5" S37W, 53.8

Corner falls in heavy brush on top of a small hill.
Gravel pit (NE corner) is south 200' from corner.
6" sign post in place.

NOTE: GARY STEVENSON SET I.P. Fd. TO SW ON STRAIGHT LINE AND
MID POINT BETWEEN SEC. COR. & 1/4 COR. IN 1979
GARY HAS TRAVERSE IN HIS OFFICE AT WALKER, MN.

68

$\frac{1}{4}$ Cor Sec's 25 f' 30

Notes of orig gov't Survey
of 1873.

Aspen 6" S37°E 4 lks

Maple 5" S30°W 10 lks

Notes of Cass Co. Survey
Notes are on file in Cass
Co. Courthouse.

Iron Monument (Not Found, point
falls in railroad Bed.)

11-18-64

James Elstein

CERTIFICATE FILED

S-1 North $\frac{1}{6}$ Cor. Sec's 25 & 30
 Notes of Cass County Survey
 Notes are on file in Cass
 Co. Courthouse.

Iron Monument (Found a 2" Iron
 Post at Corner Location)

11-18-64

James Ekstrom

To perpetuate this Corner set a
 6" diameter 5 foot long cylindrical
 concrete monument capped w/a
 3" dia. bronze tablet stamped,

T141X

R 31W R 30W

N $\frac{1}{6}$

5-7-65

S 25 S 30 ✓

James Ekstrom

1965

ALS NO 6807

From which bears:
 Oak
 Maple - 7" S 79° W 14.2' ✓ Scribed N $\frac{1}{6}$ BT
 Oak
 Maple - 8" N 37° W 9.0' ✓ " N $\frac{1}{6}$ S 25 BT
 EIM - 5" N 59° E 15.0' ✓ Scribed N $\frac{1}{6}$ S 30 BT
 steel sign post 72" long set 34" in ground
 w/ signs 1505, 544 attached due south 7.9'

Affidavit
8NE

2/23/86 CLK MH EH

PLACE FSLP ON 8" N. PINE ON W SIDE OF HWY 371
 250' S 86W TO CONCRETE MONU.
 BT'S CUT-OFF TODAY

East $\frac{1}{4}$ Cor Sec's 6-31

Found a 2" iron pipe at Corner
Location, chained West from
pipe found at section Corner
to 315'32. 1320.0' But fell
short of this pipe approx 50'

11-20-64

James Ekstrom

CERTIFICATE FILED

Z-3-4 MC #37

ORIG.

W. PINE 10 N80E 21 LKS.

W. PINE 5 S33W 18 LKS.

1942 J. Curo

Book D P332

Fd. IRON POST

P-21 Quarter Cor Sec's 23-24
Notes of orig gov't Survey of
1873

W Pine 14" $560^{\circ}E$ 39.60'

W Pine 14" $587^{\circ}W$ 50.82'

See all books #4
Pg. 23

Found a F.S.H.P. put up in 1939
by G.E.S. stating Corner lies
 $N80^{\circ}E$ 0.80 chs. Found a
squared post at this location,
believe to be C-C post, unable
to tie in any tree's.

11-30-64

James E. E. E.

CERTIFICATE FILED

72

R-21 Section Cor Sec's 23-24-25-26
Notes of orig gov't Survey of
1873.

y Pine 24" S87°E 44.88'

y Pine 18" S19°W 50.16'

w Pine 24" N54°W 25.74'

y Pine 18" N46°E 77.22'

Found a F.S.L.P. pot up in
1939 stating Corner lies
N46°W 0.11 Chs. two stumps check
in fairly close but heavy fire
has destroyed all scribing.
also orig running Note check
in close for this location,
to a round pond to the North.

11-30-64

James Ekstrom

CERTIFICATE FILED

4/29/86 CK-GB-JA

SEARCHED AREA FOUND MANY BURNED PINE STUMPS + SNAGS
IN AREA - COULDN'T PUT 3 OR 4 STUMPS TOGETHER - MKD TARGET AREA
CHAINED NORTH FROM LONG LAKE (NORTH M.C.) LOCATION (APPROX)

C. E. Dore 1/23/87 GB

Witness Corner Sec's 19 & 24

Notes of orig gov't Survey
of 1873.

Aspen 18" N2°E 36 Lks - 23.76'

W. Pine 12" N36°20'W 44 Lks - 29.04'

Searched 1 Man hr No evidence
found

6-14-65

James Ekstrom

CERTIFICATE FILED

74

Meander Cor. Sec's 26 & 27

Notes of orig gov't survey of

1873. .75 lks North of

Section Cor 26-27-34-35

W. Pine 8" 589°E 38 lks - 25.08'

W. Pine 10" 542½W 66 lks - 43.56'
stub

CERTIFICATE FILED

75 "North Bank Diamond Lake"

S, T-17 Meander Cor. Sec's 26 & 27
Notes of orig gov't Survey of
1873.

WPine. 24" N21°E 94 Lks - 62.04'

WPine 18" N11°W 216 Lks - 142.56'

Chained west 2640.' Frow approx
Ck's 26 then North 1121.0' to
This location. This location is
57.90 chs North of Sec Cor
26, 27, 34, 35. area ties in good
to Lake to the North 884.0'
old Fence line runs E'W and
approx 200' North of where I
stopped chaining. Area has been
furrowed up years ago. Searched
3 Man hrs NO orig evidence found.

5-3-65

James Ekstrom

CERTIFICATE FILED

4/23/86 CK, GB, JA
Chained south from fractional section
corner bet. sec's 26, 27 gov't distance.
Distance fell way short of Diamond Lake,
because we couldn't see the lake.
Fd. no evidence.

76

Fractinel Section

~~Quarter~~ Cor. Sec's 26 & 27Notes of orig gov't Survey
of 1873.

W Pine 30" 522°E 52 Lks - 34.32'

W Pine 36" 525°W 27 Lks 17.82'

Searched 2 Max h's No
evidence Found.

5-3-65

James Ekstrom

CERTIFICATE FILED

4/23/86 CE, JA, GB
fd. no evidence of this corner.

Meander Cor. Sec's 22 & 23
Notes of orig gov't survey
of 1873.

W Pine 16" $N41\frac{1}{2}^{\circ}E$ 112 Lks - 73.92'

y Pine 12" $N62\frac{3}{4}^{\circ}W$ 100 Lks - 66.00'

Found an old F.S.L.P. put up in
1939 that states the corner to
be $52\frac{3}{4}$ 0.31 chs. which at present
time would put the corner out
in the Lake, also found two badly
burner stumps North of this location 100'
that would check good for bearing & dist.
But orig running notes coming from
North don't check for dist to
Lake at this location.

5-25-65

James Ekstrom

CERTIFICATE FILED

78

Quarter Cor. Sec's 22 E 23

Notes of orig gov't survey
of 1873.

Poplar 12" N63°W 55 Lks - 36.30'

R Oak 10" N38°E 120 Lks - 79.20'

Found a F.S.L.P. put up in 1939
states approx corner. I chained
up to this location from old
poster at lake's edge.

5-25-65

James E. Hestum

CERTIFICATE FILED

4/24/73 CK

CHAINED SOUTH FROM SEC. COR. (GRASS CAP) 29.50'S
TO NORTH EDGE OF LAKE - CHECKED MEANDER NOTES E+W
OF OUR LINE - BUT THEY DON'T SEEM TO CHECK WITH LAY OF LAND
Fd. BURNED PINE STP'S. IN AREA
PUT FSLP ON 7" W. OAK FROM TAG APPROX COR. BRS. S30W 20'
(Fd. PINE STUMP N62W 66.0' NO MARKS) FROM APPROX. COR.

CERTIFICATE FILED

79 South Bank Long Lake
T.U.-21 Meander Cor. Sec's 25 & 26
Notes of orig gov't survey
of 1873.

Y Pine 14" $547\frac{1}{2}^{\circ}E$ 28 Lks - 18.48'

Poplar 3" $53\frac{1}{2}^{\circ}W$ 62 Lks - 40.92'

Chained North to this location from
Co. Pipe at Sec. Cor 25-26-35-36
dist. to Lake shore checks good
w/ orig running notes. Found a
old Burned Pine stump w/a faint
Mark on it. But unable to
locate post from bearing and
dist from it.

4-30-65

James Ekstrom

4/24/86-GB, chained north of sec. cor. 25, 26, 35, 36
1630' to south side of Long Lake. Orig.
call of 1597' looks good for M.C. Fd.
1 stp. with a possible flat blaze
near point on lake. Tied ribbons up on
a Birch to mark 1600'.

C.C. Done 1/23/89 GB

80 North Bank Long Lake
 S,T-21 Meander Cor Sec's 25, 26
 Notes of orig gov't survey
 of 1873.

CERTIFICATE FILED

y Pine 13" N71 $\frac{1}{2}$ W 37 Lks - 24.42'
 stub

y Pine 10" N37E 47 Lks - 31.02'
 stub

Found search area by sighting
 across Lake to point that I
 chained up to from Co pipe
 to south. a lot of old pine
 stumps that are badly burned
 in area. unable to find any
 evidence of orig BTB.

5-26-65

James Ekstrom

4/24/86 JA, GB

Measured with EDM from south bank of
 Long Lake across to north bank 1446'

Establish approx. corner west ^{50°} and south
 of that point to fit closer to original
 distance of 1340'. c.c. done 1/23/87 GB

IMPROVED TABLES AND INFORMATION

HORIZONTAL STADIA CORRECTIONS

2°-00'	— 0.1	21°-00'	— 12.8	33°-00'	— 29.7
3°-00'	— 0.3	21°-30'	— 13.4	33°-15'	— 30.1
4°-00'	— 0.5	22°-00'	— 14.0	33°-30'	— 30.5
5°-00'	— 0.8	22°-30'	— 14.7	33°-45'	— 30.9
6°-00'	— 1.1	23°-00'	— 15.3	34°-00'	— 31.3
7°-00'	— 1.5	23°-30'	— 15.9	34°-15'	— 31.7
8°-00'	— 1.9	24°-00'	— 16.5	34°-30'	— 32.1
9°-00'	— 2.5	24°-30'	— 17.2	34°-45'	— 32.5
10°-00'	— 3.0	25°-00'	— 17.9	35°-00'	— 32.9
10°-30'	— 3.3	25°-30'	— 18.6	35°-15'	— 33.3
11°-00'	— 3.6	26°-00'	— 19.2	35°-30'	— 33.7
11°-30'	— 4.0	26°-30'	— 19.9	35°-45'	— 34.1
12°-00'	— 4.3	27°-00'	— 20.6	36°-00'	— 34.6
12°-30'	— 4.7	27°-30'	— 21.3	36°-15'	— 35.0
13°-00'	— 5.1	28°-00'	— 22.0	36°-30'	— 35.4
13°-30'	— 5.5	28°-30'	— 22.8	36°-45'	— 35.8
14°-00'	— 5.9	29°-00'	— 23.5	37°-00'	— 36.2
14°-30'	— 6.3	29°-30'	— 24.3	37°-15'	— 36.6
15°-00'	— 6.7	30°-00'	— 25.0	37°-30'	— 37.1
15°-30'	— 7.2	30°-15'	— 25.4	37°-45'	— 37.5
16°-00'	— 7.6	30°-30'	— 25.8	38°-00'	— 37.9
16°-30'	— 8.1	30°-45'	— 26.2	38°-15'	— 38.3
17°-00'	— 8.5	31°-00'	— 26.5	38°-30'	— 38.7
17°-30'	— 9.0	31°-15'	— 26.9	38°-45'	— 39.1
18°-00'	— 9.5	31°-30'	— 27.3	39°-00'	— 39.6
18°-30'	— 10.1	31°-45'	— 27.7	39°-15'	— 40.0
19°-00'	— 10.6	32°-00'	— 28.1	39°-30'	— 40.5
19°-30'	— 11.2	32°-15'	— 28.5		
20°-00'	— 11.7	32°-30'	— 28.9		
20°-30'	— 12.3	32°-45'	— 29.3		

Chains to Feet

1	.....	66
2	.....	132
3	.....	198
4	.....	264
5	.....	330
6	.....	396
7	.....	462
8	.....	528
9	.....	594
10	.....	660

Feet to Chains

100	....	1.515
200	....	3.030
300	....	4.545
400	....	6.060
500	....	7.575
600	....	9.090
700	....	10.606
800	....	12.121
900	....	13.636
1,000	....	15.151