

3 Posts.

5 Stone with orthomware under stone

6 Iron corner

7 Stone

8 Stake stumps of original Passyville

14 Posts on Section Lines.

9

10 Stake with orthomware around

11 Stone with broken glass

12 Stake

13 Stake

Stake with broken glass

14

15 Stake

16 Stake

14 Posts on X Lines.

a

b

c

d Stake with broken glass

e

LAND CORNER RECORDATION CERTIFICATE
Filing Requirement of Act 74, Mich. P.A. 1970

For corners in

Newaygo
(County)

Located In:

Corner Code #

#957

NEWAYGO COUNTY
 REGISTER OF DEEDS
 MARLENE TOOGOOD

APR - 6 1990

TIME 2:26 PM
Marlene Toogood

Register of Deeds Stamp & File Number

- | | | |
|---------------------------------------|--------------------|----------------------|
| 1. Public Land Survey | T <u>15N R 11W</u> | <u>T-5, M-5, M-6</u> |
| | T _____ | _____ |
| | T _____ | _____ |
| | T _____ | _____ |
| 2. Property Controlling in Section | S _____ | _____ |
| | S _____ | _____ |
| 3. Miscellaneous Property in Sec. | S _____ | _____ |
| | S _____ | _____ |
| 4. Lot No. _____, Recorded Plat _____ | | |
| 5. Private Claims _____ | | |

	A	B	C	D	E	F	G	H	I	J	K	L	M
2	0		3		4				3		2		1
3													
4	7		8		9				10		11		12
5													
6	16		17		18				15		14		13
7													
8	19		20		21				22		23		24
9													
10	30		29		28				27		26		25
11													
12	31		32		33				34		35		36
13													

I, Gerald J. Gray, in a field survey on December 13, 1982, do hereby certify that under requirements of P.A. 74, Michigan P.A. of 1970, the corner points mentioned in lines 1 and 2 above were in conformance with regulations and rules therefore as required in the current manual of survey instructions of the United States Department of the Interior, Bureau of Land Management or by a decree of a Court of Law and/or that the corner points mentioned in lines 3, 4 and 5 above were in conformance with the rules of the Michigan Board of Land Surveyors or by a Decree of a Court of Law, established, re-established, monumented, re-monumented, recovered, found as expressed below:

NOTE: Not more than 4 corners, all in the same town and range, may be recorded on this certificate.

A. Description of original monument and accessories and/or subsequent restoration:

B. Description of corner evidence found and/or method applied in restoring or reestablishing corner:

- L-5 Found Stone
- M-5 Found $\frac{1}{2}$ " Pipe
- M-6 Found Concrete Monument

C. Description of monument for corner and accessories established to perpetuate locating the position of the corner:

- | | | | | | | | |
|-----------------------|--------|-------|--|--------------------------|--------|-------|---|
| L-5 Stone | | | | M-5 $\frac{1}{2}$ " Pipe | | | |
| 6" Maple | Az 209 | 3.40 | | Tw. Maple | Az 230 | 48.40 | ✓ |
| 10" R. Oak | Az 75 | 36.60 | | R. Oak | Az 280 | 9.00 | |
| W. Pine Stump | Az 332 | 14.15 | | W. Oak | Az 195 | 51.92 | |
| M-6 Concrete Monument | | | | | | | |
| 6" W. Oak | Az 168 | 18.89 | | | | | |
| W. Oak | Az 168 | 18.27 | | | | | |
| R. Oak | Az 168 | 18.98 | | | | | |

Signed by Gerald J. Gray
 Surveyor's Michigan License No. 177477

Date April 2, 1990





2004 Newaygo County Remonumentation Project

LAND CORNER RECORDATION CERTIFICATE
Filing Requirement of Act 74, Mich. P.A. 1970

For corners in
Newaygo
(County)

Located in: Corner Code #

VOL. 4 272

1. Public Land Survey	T15 N	R11 W	M-5
	T N	R W	
	T N	R W	
	T N	R W	
2. Property Controlling in Section	S	T N R W	
	S	T N R W	
3. Miscellaneous Property in Sec.	S	T N R W	
	S	T N R W	

Filed

4. Lot No. _____ Recorded Plat _____
5. Private Claims _____

Register of Deeds Stamp & File Number

	A	B	C	D	E	F	G	H	I	J	K	L	M
2	6	5	4	3	2	1							
3													
4	7	8	9	10	11	12							
5													
6	18	17	16	15	14	13							
7													
8	19	20	21	22	23	24							
9													
10	30	29	28	27	26	25							
11													
12	31	32	33	34	35	36							
13													

I, Norman L. Ochs, in a field survey on June 25, 2004, do hereby certify that under requirements of P.A. 74, Michigan P.A. of 1970, the corner points mentioned in lines 1 and 2 above were in conformance with regulations and rules therefore as required in the current manual of survey instructions of the United States Department of the Interior, Bureau of Land Management or by a decree of a Court of Law and/or that the corner points mentioned in lines 2, 4 and 5 above were in conformance with the rules of the Michigan Board of Land Surveyors or by a Decree of a Court of Law; established, re-established, monumented, re-monumented, recovered, found as expressed below:

Note: Not more than 2 corners, all in the same town and range, may be Recorded on this certificate.

Section corner common to Section 12 and 13, Norwich Twp. Newaygo County

A. DESCRIPTION OF ORIGINAL MONUMENT AND ACCESSORIES AND/OR SUBSEQUENT RESTORATION:

GLO John Hodgson
3rd Quarter 1838
Set post corner of Section 12 and 13
#1 10" Beech S18½°W 59 links (38.94')
#2 8" Beech N71°W 21 links (13.86')

Patrick A. Salisbury, RLS #13594 &
Robert A. Griffin, RLS #13584
Drawing #73143B February 20, 1976
Set ½" pipe inside a ¾" pipe at GLO distance (648.12) North of creek on East section line and GLO distance (221.76) East of old line tree stump on GLO original North Section line.
#3 Twin Maple S50°W 48.40' spike in South
#4 18" Red Oak N80°W 9.00' spike in South side
#5 White Oak S15°W 51.92' spike in West side

OVER ↗

B. DESCRIPTION OF CORNER EVIDENCE FOUND AND/OR METHOD APPLIED IN RESTORING OR REESTABLISHING CORNER:

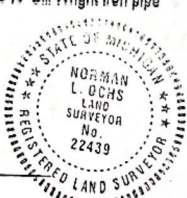
I found a ¾" x 20" Iron Pipe that was raised with a ½" x 16" Iron Pipe to project 6"± above grade. There are remnants of a North/South fence 12±E. There is a fence running East 11±North. No apparent occupation at the corner to West. The condition of the witnesses are as follows: #1 and #2 are gone, #3 thru #5 are in good condition. I did not except Bill Wright's ¾" Iron Pipe 99.94' North at a 3 way fence. Possible property corner.

C. DESCRIPTION OF MONUMENT FOR CORNER AND ACCESSORIES ESTABLISHED TO PERPETUATE LOCATING THE POSITION OF THE CORNER:

I removed the ¾" x 20" Iron Pipe that was raised with the ½" x 16" Iron Pipe and set a 4" diameter Harrison cast iron monument marked "County Surveyor #22439" to project 4"± above grade as a substantial marker for the section corner and is accepted as a careful and faithful reestablishment of the position of the original corner. I removed the ¾" Bill Wright Iron pipe

#3 12"-14" Twin Maple with blaze S50°W 48.29'
#4 24" Red oak with blaze N62°W 8.92'
#5 18" White Oak with blaze S8°W 51.90'
6" Maple N75°E 31.85'

Found spike in SE side
Found spike in South side
Found spike in West side
Set 40d spike with tag in North side



Signed by Norman L. Ochs
Norman L. Ochs

Date September 27, 2004

Surveyor's Michigan License No. 22439

Form approved by Michigan State Board of Land Surveyors, Jan. 28, 1971
Revised May 14, 1975
Revised Jan., 1983

Approved by Peer Review Group on September 15, 2004
Norman L. Ochs, County Representative.

NLO

A. Continued

Gerald J Gray RLS # 17741
LCRC #957, December 13, 1982
Found ½" Pipe
#3 Twin Maple Az 230 48.40
#4 18" Red Oak Az 280 9.00
#5 White Oak Az 195 51.92

Jack E Pierson RLS # 19305
File No. SL-030-97 September 29, 1997
Found ¾" Pipe



STATE OF MICHIGAN

JENNIFER M. GRANHOLM
GOVERNOR

DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

March 10, 2008

Mr. Tobin Lake
Newaygo County Grant Administrator
PO Box 885
White Cloud, MI 49349

Dear Mr. Lake:

RE: East line of T15N-R11W (M-01 through M-13), Norwich Twp., Newaygo Co., MI
West line of T15N-R10W (A-01 through A-13), Big Rapids Twp., Mecosta Co., MI

Please have the above referenced corners addressed in this year's program in the following manner.

Provide ties to all of the government corners (section corners and 1/4 corners) along the full length (six miles) of this line and to other occupational features which may help in the determination of the location of the government corner positions such as 1/4 and 1/16th (commonly referred to as 1/8th lines/corners) line corners and fences along the township line. Also, provide bearings and distances between corners K-3, L-3 and M-3; K-5, L-5 and M-5 and K-7, L-7 and M-7.

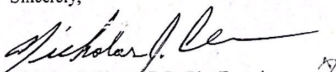
Please keep our office informed of the status of the government corners along this township line.

Make note that it is the charge of the program to establish a marker at the locations of the original government corners. It is imperative that the establishment of markers at locations not consistent with the GLO survey be avoided.

We are also providing a letter to Mecosta County relative to the locations of the corners along this township line.

If this request necessitates a budget revision with the current remonumentation grant please advise our office. If you have any questions, please contact me at telephone number (517) 241-6320 or email address clevern@michigan.gov.

Sincerely,


Nicholas J. Clever, P.S., Plat Examiner
Office of Land Survey and Remonumentation

CAROL WHITE
231-795 5023
EXT 8671

NJC/jd

cc: ✓ Mr. Norman Ochs, P.S., Newaygo County Representative
Mr. James G. Knapp, P.S., Mecosta County Representative
Ms. Joanne B Brown, Mecosta County Grant Administrator

Providing for Michigan's Safety in the Built Environment

BUREAU OF CONSTRUCTION CODES
P.O. BOX 30704 • LANSING, MICHIGAN 48909
Telephone (517) 241-6321 • Fax (517) 241-6301
www.michigan.gov



STATE OF MICHIGAN

JENNIFER M. GRANHOLM
GOVERNOR

DEPARTMENT OF LABOR & ECONOMIC GROWTH
LANSING

KEITH W. COOLEY
DIRECTOR

March 10, 2008

Ms. Joanne B. Brown, Register
Mecosta County Grant Administrator
400 Elm Street
Big Rapids, MI 49307

Dear Ms. Brown:

RE: West line of T15N-R10W (A-01 through A-13), Big Rapids Twp., Mecosta Co., MI
East line of T15N-R11W (M-01 through M-13), Norwich Twp., Newaygo Co., MI

Please have the above referenced corners addressed in this year's program in the following manner.

Provide ties to all of the government corners (section corners and 1/4 corners) along the full length (six miles) of this line and to other occupational features which may help in the determination of the location of the government corner positions such as 1/4 and 1/16th (commonly referred to as 1/8th lines/corners) line corners and fences along the township line. Also, provide bearings and distances between corners A-3, B-3 and C-3; A-5, B-5 and C-5 and A-7, B-7 and C-7.

Please keep our office informed of the status of the government corners along this township line.

Make note that it is the charge of the program to establish a marker at the locations of the original government corners. It is imperative that the establishment of markers at locations not consistent with the GLO survey be avoided.

We are also providing a letter to Newaygo County relative to the locations of the corners along this township line.

If this request necessitates a budget revision with the current remonumentation grant please advise our office. If you have any questions, please contact me at telephone number (517) 241-6320 or email address clevern@michigan.gov.

Sincerely,

Nicholas J. Clever, P.S., Plat Examiner
Office of Land Survey and Remonumentation

NJC/jd

cc: Mr. James G. Knapp, P.S., Mecosta County Representative
✓ Mr. Norman Ochs, P.S., Newaygo County Representative
Mr. Tobi Lake, Newaygo County Grant Administrator

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MECOSTA COUNTY SURVEY AND REMONUMENTATION

120 NORTH DEKRAFT
BIG RAPIDS, MICH. 49307
(231) 796-2611 FAX#(231) 796-5287

CO. REPRESENTATIVE
JAMES G. KNAPP P.S.
CO. ADMINISTRATOR
JOANNE BROWN

PEER REVIEW GROUP
JAMES H. CARTER P.S.
JOHN D. HENRY P.S., P.E.
JOHN I. NELSON P.S.

April 23, 2007

Mr. Norman L. Ochs P.S.
County Surveyor/County Representative
274 N. Charles St. (M-37) P.O. Box 35
White Cloud, MI 49349-0035

Dear Norm,

The Mecosta County Peer Review Group on April 20, 2007, met and approved the position of corner A-05, T15N-R10W, as presented by Tom Sage P.S., and supports the position presented, which is at the location of the four-way fence intersection, 100 Feet +/- North of the position of the Newaygo County Remonumentation Monument.

The Peer Group respected Sage's findings for retracing the original G.L.O. Line with the recovery of G.L.O. Line trees remains, both North and South of the corner in question. They also believe that the G.L.O. tie to a distant stream is some what weak to re-establish a corner position, especially when there is no definite crossing point and with the stream flowing in a S.W. to N.E. direction.

Numerous court cases would show that when ownerships to a fence corner; is evident for long periods the surveyor shouldn't upset that peace to an area, by creating more questions about property lines.

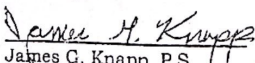
I understand that Tom has been keeping you, as well as Bob Griffin, aware of the developments of his finding in the re-establishment of this corner position.

I will not record the L.C.R.C. for this corner in the immediate future, if the two counties would attempt to bring this corner position to a location that is suitable to both peer groups.

We will be happy to meet with you on site, and this Peer Review Group would also meet your Peer Review Group on site, if it would help to agree to a common position, as it should be.

Also, for your information, the corners A-03 and A-04, T15N-R10W, were approved.

Sincerely,


James G. Knapp P.S.
County Representative

USDA-FOREST SERVICE

Index File No. **V21**

CORNER RECORD (SEARCH)
(Ref. FSM 7151.4)

Tract or Survey No. _____ Cor. No. _____

T 15 R. 11 R.D. _____ County _____
Merid. _____ N.F. _____ State _____

CORNER DIAGRAM



DESCRIBE CORNER MONUMENT FOUND SW Cor Sec 25

Iron under patch in pavement (Didn't dig up)

Griffin 11-3-82

DESCRIBE BEARING TREES OR OTHER OFFICIAL ACCESSORIES FOUND

USGS Bench Mark S 52 W 48.7
Power Pole # BH2 156 N 6 W 57.9 OBT
40' SW W. Oak 24 S 42 E 63.2 OBT

PHOTO IDENTIFICATION DATA

Photo No. _____
Filed At _____
Object Ident. _____
Ident. By _____
Signature _____

DESCRIBE CORNER LOCATION RELATIVE TO NEAR-BY FEATURES, ALSO HOW TO REACH CORNER

at E-W Pavement .8' South
in @ Rd to South

PLANE COORDINATE POSITION DATA

State _____ Zone _____
X _____
Y _____
Estab. By _____
Agency _____

Signature _____ Title _____ Division _____ Headquarters _____ Date _____ 7100-52 (3-68)

Index No. V25

LAND CORNER RECORD
(Instructions on Survey 71)

FS-7104-4 (Rev. 6/13/67)
GPO 500-127

T 15 N R. 11 W Mer. N.F. _____ County _____ State _____
SG Corner common to sections 25 and _____

EXISTING SURVEYS

Original Government Survey		Original Evidence Found	
Year surveyed _____	Original monument _____ <small>(Wood post, stone, pile of stones, post, etc.)</small>	Year of search _____ By _____	Monument found _____
Bearing Trees		Original Bearing Trees Found	
Species _____	Diameter _____	Species _____	Diameter _____
Bearing _____	Distance _____	Bearing _____	Distance _____
Subsequent Corner Restoration		Evidence of Subsequent Corner Restoration Found	
Year surveyed <u>1975</u> By <u>S. Lohonen</u>	Where filed or recorded <u>Mc Costa Reg of Deeds</u>	Year of search _____	By _____
Monument <u>Set 6" Steel Pin 2" diam, head</u>	<small>(Original, concrete post, iron rod, etc.)</small>		
Bearing Trees, Reference Objects		Bearing Trees, Reference Objects	
Species <u>POWEL IRON PIPE IRON</u>	Diameter <u>PIPE 2" Stake (sqn)</u>		
Bearing <u>245° 42' 225° 42' 67° 42' ?</u>	Distance <u>76.58' 43.72 70 ?</u>		

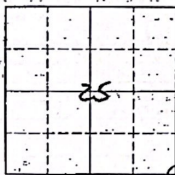
CORNER RECORD (PERPETUATION)

MONUMENT: DESCRIBE NEW MONUMENT SET, OR WORK DONE TO PRESERVE EXISTING MONUMENT

ACCESSORIES: DESCRIBE NEW BT'S WITNESS OBJECTS ETC. ESTABLISHED, OR WORK DONE TO PRESERVE EXISTING EVIDENCE

Work Done By _____ Title _____ Date _____ State Registration No. _____
 Certified Cor. Record Prepared? Yes No Filed At _____ Date _____
 REMARKS _____

Index File No. T. R. M. Tract or Surv. No. Cor.



Sketch
 O - Corner F.S. Land

Relation of Evidence to Record Features Along Section Lines

Section line to sections _____
 Object _____
 Record distance _____
 Measured distance _____

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines, plantations, etc.. Cite source of testimony if any.

At time of search:

1. Did you have the record description?
 Yes _____ No _____

2. How was search area located?
 Pacing, chaining, photos, maps,
 etc.

3. Man hours spent in search _____

4. Do you think additional search might
 recover evidence? Yes _____ No _____

5. Signature _____

Perpetuation Record

Monument and accessories established. Include brief description of area.

Certified corner restoration certificate prepared: Yes _____ No _____
 Filed in county records at _____ Date _____ County Document No. _____
 Identified on aerial photo No. _____ Which is filed at _____

INDEX NO. V-25 TWP. Norwich

NEWAYGO COUNTY SURVEYOR
LAND CORNER RECORD

15 N R 11 W CORNER SE section 25

me cost a Reg. of Deeds

EXISTING SURVEYS

SUBSEQUENT CORNER RESTORATION

Year Surveyed 1975 By S. Lahaen
Monument set 6" steel pin 2" diameter head

Bearing Trees
Species P. Pole Iron Pipe IRON
Diameter _____
Bearing AZ 245° AZ 225°? AZ 67°?
Distance 76.58 43.72 70?

SUBSEQUENT CORNER RESTORATION

Year Surveyed _____ By _____
Monument _____

Bearing Trees
Species _____
Diameter _____
Bearing _____
Distance _____

ORIGINAL GOVERNMENT SURVEY

Year Surveyed _____ By _____
Monument _____

Original Bearing Trees Found
Species _____
Diameter _____
Bearing _____
Distance _____

SUBSEQUENT CORNER RESTORATION

Year Surveyed _____ By _____
Monument _____

Bearing Trees
Species _____
Diameter _____
Bearing _____
Distance _____

Index No. T 25
(Subsequent - Resurvey)

LAND CORNER RECORD
(RECTANGULAR SURVEYS)

89-7150-4 (Rev. 6/13/67)
GPO 806-824

T. 15N R. 11W Mer. N.F. _____ County _____ State _____
E/4 Corner common to sections 25 and _____

EXISTING SURVEYS

Original Government Survey	Original Evidence Found
Year surveyed _____	Year of search _____ By _____
Original monument _____ <small>(Wood post, stone, pile of stones, pipe, etc.)</small>	Monument found _____
Bearing Trees	Original Bearing Trees Found
Species _____	Species _____
Diameter _____	Diameter _____
Bearing _____	Bearing _____
Distance _____	Distance _____
Subsequent Corner Restoration	Evidence of Subsequent Corner Restoration Found
Year surveyed: <u>1975</u> By <u>S. Lakonen</u>	Year of search _____ By _____
Where filed or recorded: <u>McCosko Co Reg. Books</u>	
Monument: <u>3/4" x 3/8" IRON ROD</u> <small>(Original, concrete post, Van No. 2, etc.)</small>	
Bearing Trees, Reference Objects	Bearing Trees, Reference Objects
Species <u>Oak</u> <u>Oak</u> <u>Oak</u>	
Diameter <u>8"</u> <u>10"</u> <u>14"</u>	
Bearing <u>47°Az</u> <u>142°Az</u> <u>332°Az</u>	
Distance <u>14.2'</u> <u>18.4'</u> <u>38.5'</u>	

Index No. V-1
(Subsequent - Resurvey)

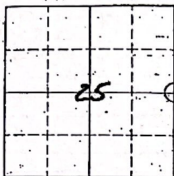
LAND CORNER RECORD
(RECTANGULAR SURVEYS)

89-7150-4 (Rev. 6/13/67)
GPO 806-824

T. 15N R. 11W Mer. N.F. _____ County _____ State _____
SW Corner common to sections 30 and _____

EXISTING SURVEYS

Original Government Survey	Original Evidence Found
Year surveyed _____	Year of search _____ By _____
Original monument _____ <small>(Wood post, stone, pile of stones, pipe, etc.)</small>	Monument found _____
Bearing Trees	Original Bearing Trees Found
Species _____	Species _____
Diameter _____	Diameter _____
Bearing _____	Bearing _____
Distance _____	Distance _____
Subsequent Corner Restoration	Evidence of Subsequent Corner Restoration Found
Year surveyed: <u>1971</u> By <u>G. Gorch</u>	Year of search _____ By _____
Where filed or recorded _____	
Monument: <u>3/4" IRON</u> <small>(Original, concrete post, Van No. 2, etc.)</small>	
Bearing Trees, Reference Objects	Bearing Trees, Reference Objects
Species <u>Pstp</u> <u>Pstp</u>	
Diameter _____	
Bearing <u>N37W</u> <u>N85W</u>	
Distance <u>60.0</u> <u>67.2</u>	



Sketch

Corner F.S. Land

At time of search:

1. Did you have the record description?

Yes No

2. How was search area located?

Pacing, chaining, photos, maps, etc.

3. Man hours spent in search _____

4. Do you think additional search might recover evidence? Yes No

5. Signature _____

Relation of Evidence to Record Features Along Section Lines

Section line to sections _____

Object _____

Record distance _____

Measured distance _____

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines, plantations, etc.. Cite source of testimony if any.

Perpetuation Record

Monument and accessories established. Include brief description of area.

Certified corner restoration certificate prepared: Yes No

Filed in county records at _____ Date _____ County Document No. _____

Identified on aerial photo No. _____ Which is filed at _____

Relation of Evidence to Record Features Along Section Lines

Section line to sections _____

Object _____

Record distance _____

Measured distance _____

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines, plantations, etc.. Cite source of testimony if any.

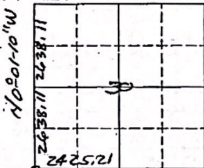
Perpetuation Record

Monument and accessories established. Include brief description of area.

Certified corner restoration certificate prepared: Yes No

Filed in county records at _____ Date _____ County Document No. _____

Identified on aerial photo No. _____ Which is filed at _____



Sketch

Corner F.S. Land

At time of search:

1. Did you have the record description?

Yes No

2. How was search area located?

Pacing, chaining, photos, maps, etc.

3. Man hours spent in search _____

4. Do you think additional search might recover evidence? Yes No

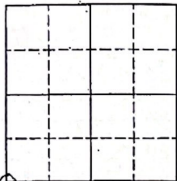
5. Signature _____

T. 15 R. 11 Mer. N.F. H-M County Newaygo State Mich
SW Corner common to sections 24 and

EXISTING SURVEYS	
<p style="text-align: center;">Original Government Survey</p> <p>Year surveyed _____</p> <p>Original monument _____ <small>(wood post, stone, pile of stones, etc.)</small></p> <p style="text-align: center;">Bearing Trees</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>	<p style="text-align: center;">Original Evidence Found</p> <p>Year of search <u>1912</u> By <u>W.M. Jacques</u></p> <p>Monument found <u>STAKE</u></p> <p style="text-align: center;">Original Bearing Trees Found</p> <p>Species <u>Pine</u> <u>Pine</u></p> <p>Diameter <u>16"</u> <u>20"</u></p> <p>Bearing <u>S69°26'E</u> <u>N30°E</u></p> <p>Distance <u>15 1/2 ft</u> <u>15 ft</u></p>
<p style="text-align: center;">Subsequent Corner Restoration</p> <p>Year surveyed _____ By <u>Unknown</u></p> <p>Where filed or recorded <u>d.o.</u></p> <p>Monument _____ <small>(original, concrete post, iron rod, etc.)</small></p> <p style="text-align: center;">Bearing Trees, Reference Objects</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>	<p style="text-align: center;">Evidence of Subsequent Corner Restoration Found</p> <p>Year of search <u>1967</u> By <u>L.P. Stillwell</u></p> <p>Found a <u>1" Iron Rod</u>, <u>3" above ground</u></p> <p style="text-align: center;">Bearing Trees, Reference Objects</p> <p><u>P. Oak</u> <u>Tripla P. Oak</u> <u>Fern corner</u></p> <p><u>28"</u> <u>12"</u></p> <p><u>South</u> <u>East</u></p> <p><u>19 ft.</u> <u>31 ft.</u></p>

T. 15 R. 11 Mer. N.F. _____ County _____ State _____
NE Corner common to sections 25 and

EXISTING SURVEYS																					
<p style="text-align: center;">Original Government Survey</p> <p>Year surveyed _____</p> <p>Original monument _____ <small>(wood post, stone, pile of stones, etc.)</small></p> <p style="text-align: center;">Bearing Trees</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>	<p style="text-align: center;">Original Evidence Found</p> <p>Year of search _____ By _____</p> <p>Monument found _____</p> <p style="text-align: center;">Original Bearing Trees Found</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>																				
<p style="text-align: center;">Subsequent Corner Restoration</p> <p>Year surveyed <u>1975</u> By <u>S. Lokonen</u></p> <p>Where filed or recorded <u>Macosth Ca Pgs Deeds</u></p> <p>Monument <u>3/4" x 3/8" IRON ROD</u> <small>(original, concrete post, iron rod, etc.)</small></p> <p style="text-align: center;">Bearing Trees, Reference Objects</p> <p>Species <u>Pine</u> <u>Stp Oak</u> <u>R. Oak</u></p> <p>Diameter <u>10"</u> <u>12"</u> <u>16"</u></p> <p>Bearing <u>338°42'</u> <u>63°42'</u> <u>129°42'</u></p> <p>Distance <u>33.0'</u> <u>15.83'</u> <u>(47.13)</u></p>	<p style="text-align: center;">Evidence of Subsequent Corner Restoration Found</p> <p><u>April</u> Year of search <u>1975</u> By <u>GCiffin</u></p> <p>Found <u>3/4" IRON ROD BY LAKANEN</u> <u>48 ft east of plantation #499 ft S of trail &</u></p> <p style="text-align: center;">Bearing Trees, Reference Objects</p> <p style="text-align: center;">X</p> <table style="width:100%; border: none;"> <tr> <td style="border: none;">W. Oak</td> <td style="border: none;">R. Oak</td> <td style="border: none;">Pine Stp</td> <td style="border: none;">R. Oak</td> </tr> <tr> <td style="border: none;">8"</td> <td style="border: none;">13"</td> <td style="border: none;">10"</td> <td style="border: none;">9"</td> </tr> <tr> <td style="border: none;">N63°E</td> <td style="border: none;">S51°E</td> <td style="border: none;">N22°E</td> <td style="border: none;">S63°W</td> </tr> <tr> <td style="border: none;">15.83</td> <td style="border: none;">18.51</td> <td style="border: none;">33.0'</td> <td style="border: none;">36.15'</td> </tr> <tr> <td style="border: none;">OBT</td> <td style="border: none;">OBT</td> <td style="border: none;">OBT</td> <td style="border: none;">OBT by Bungey Dist</td> </tr> </table>	W. Oak	R. Oak	Pine Stp	R. Oak	8"	13"	10"	9"	N63°E	S51°E	N22°E	S63°W	15.83	18.51	33.0'	36.15'	OBT	OBT	OBT	OBT by Bungey Dist
W. Oak	R. Oak	Pine Stp	R. Oak																		
8"	13"	10"	9"																		
N63°E	S51°E	N22°E	S63°W																		
15.83	18.51	33.0'	36.15'																		
OBT	OBT	OBT	OBT by Bungey Dist																		



Sketch

Corner F.S. Land

At time of search:

1. Did you have the record description?

Yes No

2. How was search area located?

Pacing, chaining, photos, maps,
etc.

3. Man hours spent in search 24

4. Do you think additional search might
recover evidence? Yes No

5. Signature _____

Relation of Evidence to Record Features Along Section Lines

Section line to sections _____

Object _____

Record distance _____

Measured distance _____

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines
plantations, etc.. Cite source of testimony if any.

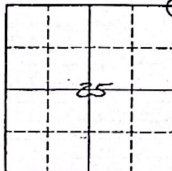
Perpetuation Record

Monument and accessories established. Include brief description of area.

Certified corner restoration certificate prepared: Yes No

Filed in county records at _____ Date _____ County Document No. _____

Identified on aerial photo No. _____ Which is filed at _____



Sketch

Corner F.S. Land

At time of search:

1. Did you have the record description?

Yes No

2. How was search area located?

Pacing, chaining, photos, maps,
etc.

3. Man hours spent in search _____

4. Do you think additional search might
recover evidence? Yes No

5. Signature _____

Relation of Evidence to Record Features Along Section Lines

Section line to sections _____

Object _____

Record distance _____

Measured distance _____

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines,
plantations, etc.. Cite source of testimony if any.

Perpetuation Record

Monument and accessories established. Include brief description of area.

Certified corner restoration certificate prepared: Yes No

Filed in county records at _____ Date _____ County Document No. _____

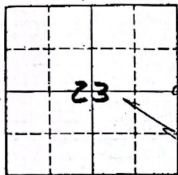
Identified on aerial photo No. _____ Which is filed at _____

Index No. P-21 LAND CORNER RECORD (RECTANGULAR SURVEYS) No. 7160-4 (Rev. 6/13/67) GPO 508-127
 T. 15N R. 11W Mer. N.F. _____ County _____ State _____
E/4 Corner common to sections 23 and _____

EXISTING SURVEYS	
<p style="text-align: center;">Original Government Survey</p> <p>Year surveyed _____</p> <p>Original monument _____ <small>(wood post, stone, pile of stones, post, etc.)</small></p> <p style="text-align: center;">Bearing Trees</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>	<p style="text-align: center;">Original Evidence Found</p> <p>Year of search _____ By _____</p> <p>Monument found _____</p> <p style="text-align: center;">Original Bearing Trees Found</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>
<p style="text-align: center;">Subsequent Corner Restoration</p> <p>Year surveyed <u>1974</u> By <u>J.C. Norton</u></p> <p>Where filed or recorded _____</p> <p>Monument <u>Conc. Mark (set)</u> <small>(original, concrete post, iron rod, etc.)</small></p> <p style="text-align: center;">Bearing Trees, Reference Objects</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>	<p style="text-align: center;">Evidence of Subsequent Corner Restoration Found</p> <p>Year of search _____ By _____</p> <p>_____</p> <p>_____</p> <p style="text-align: center;">Bearing Trees, Reference Objects</p> <p>_____</p> <p>_____</p> <p>_____</p>

Index No. P 25 LAND CORNER RECORD (RECTANGULAR SURVEYS) No. 7160-4 (Rev. 6/13/67) GPO 508-127
 T. 15N R. 11W Mer. N.F. _____ County _____ State _____
E/4 Corner common to sections 24 and _____

EXISTING SURVEYS													
<p style="text-align: center;">Original Government Survey</p> <p>Year surveyed _____</p> <p>Original monument _____ <small>(wood post, stone, pile of stones, post, etc.)</small></p> <p style="text-align: center;">Bearing Trees</p> <p>Species <u>Beech</u> <u>Beech</u></p> <p>Diameter <u>8"</u> <u>8"</u></p> <p>Bearing <u>S18W</u> <u>N20W</u></p> <p>Distance <u>15 p</u> <u>38 p</u></p>	<p style="text-align: center;">Original Evidence Found</p> <p>Year of search <u>1916</u> By <u>E. E. Sears</u></p> <p>Monument found _____</p> <p style="text-align: center;">Original Bearing Trees Found</p> <p>Species <u>E. Oak</u></p> <p>Diameter <u>5"</u></p> <p>Bearing <u>N45W</u></p> <p>Distance <u>10 p?</u></p>												
<p style="text-align: center;">Subsequent Corner Restoration</p> <p>Year surveyed _____ By _____</p> <p>Where filed or recorded _____</p> <p>Monument _____ <small>(original, concrete post, iron rod, etc.)</small></p> <p style="text-align: center;">Bearing Trees, Reference Objects</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>	<p style="text-align: center;">Evidence of Subsequent Corner Restoration Found</p> <p><u>April 24</u> Year of search <u>1975</u> By <u>Grafflin</u></p> <p><u>Set 1/2" IRON in rotted fence corner Post (fence N.E.) this may or may not be the 1/4 corner.</u></p> <p style="text-align: center;">Bearing Trees, Reference Objects</p> <table style="width:100%; border: none;"> <tr> <td style="width:33%;"><u>E. Oak</u></td> <td style="width:33%;"><u>W. Pine Sap</u></td> <td style="width:33%;"><u>E. Oak</u></td> </tr> <tr> <td><u>Sprout</u></td> <td><u>26"</u></td> <td><u>12"</u></td> </tr> <tr> <td><u>N42 E</u></td> <td><u>N54 E</u></td> <td><u>S69 E</u></td> </tr> <tr> <td><u>5.67</u></td> <td><u>15.1</u></td> <td><u>21.49</u></td> </tr> </table> <p><u>(OLD 3 MARK MARKS)</u></p>	<u>E. Oak</u>	<u>W. Pine Sap</u>	<u>E. Oak</u>	<u>Sprout</u>	<u>26"</u>	<u>12"</u>	<u>N42 E</u>	<u>N54 E</u>	<u>S69 E</u>	<u>5.67</u>	<u>15.1</u>	<u>21.49</u>
<u>E. Oak</u>	<u>W. Pine Sap</u>	<u>E. Oak</u>											
<u>Sprout</u>	<u>26"</u>	<u>12"</u>											
<u>N42 E</u>	<u>N54 E</u>	<u>S69 E</u>											
<u>5.67</u>	<u>15.1</u>	<u>21.49</u>											



Sketch

○ Corner F.S. Land

Relation of Evidence to Record Features Along Section Lines

Section line to sections

Object

Record distance

Measured distance

$N12^{\circ}49'27''E$ 2663.16
 $S12^{\circ}49'27''W$ 2657.82

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines, plantations, etc.. Cite source of testimony if any.

$S89^{\circ}50'11''W$ 5157.93'

At time of search:

1. Did you have the record description?

Yes No

2. How was search area located?

Pacing, chaining, photos, maps, etc.

3. Man hours spent in search

4. Do you think additional search might recover evidence? Yes No

5. Signature

Perpetuation Record

Monument and accessories established. Include brief description of area.

Certified corner restoration certificate prepared: Yes No

Filed in county records at _____ Date _____ County Document No. _____

Identified on aerial photo No. _____ Which is filed at _____



Sketch

○ Corner F.S. Land

Relation of Evidence to Record Features Along Section Lines

Section line to sections

Object

Record distance

Measured distance

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines, plantations, etc.. Cite source of testimony if any.

Perpetuation Record

Monument and accessories established. Include brief description of area.

Found 28" W. Pine Stp with 3 old black marks pointing toward old fence corner. This stump is 9 ft north of an old fence east. Fence corner post (badly rotted - bottom only) is at the east edge of a W. Pine plantation & 22.6 ft north of a trail road.

Certified corner restoration certificate prepared: Yes No

Filed in county records at _____ Date _____ County Document No. _____

Identified on aerial photo No. _____ Which is filed at _____

Index No. N 25
SUBSECTION - NEQUANT

LAND CORNER RECORD
(RECTANGULAR SURVEYS)

RD-7 150-4 (Rev. 6/15/67)
GPO 806-924

T. 15N R. 11W Mer. N.F. _____ County _____ State _____
SE Corner common to sections 13 and _____

EXISTING SURVEYS

Original Government Survey		Original Evidence Found	
Year surveyed _____	By _____	Year of search <u>1900</u>	By <u>Anderson</u>
Original monument _____ <small>(Wood post, stone, pile of stones, etc.)</small>		Monument found _____	
Bearing Trees		Original Bearing Trees Found	
Species _____		Species <u>Maple</u>	
Diameter _____		Diameter <u>12"</u>	
Bearing _____		Bearing <u>North</u>	
Distance _____		Distance <u>20 feet</u>	
Subsequent Corner Restoration		Evidence of Subsequent Corner Restoration Found	
Year surveyed _____	By _____	Year of search _____	By _____
Where filed or recorded _____			
Monument _____ <small>(Original, concrete post, iron rod, etc.)</small>			
Bearing Trees, Reference Objects		Bearing Trees, Reference Objects	
Species _____			
Diameter _____			
Bearing _____			
Distance _____			

Index No. E 21LAND CORNER RECORD
(RECTANGULAR SURVEYS)RP-7150-4 (Rev. 6/13/67)
GPO 806-824T. 15N R. 11W Mer. N.F. _____ County _____ State _____
SW Corner common to sections 1 and _____

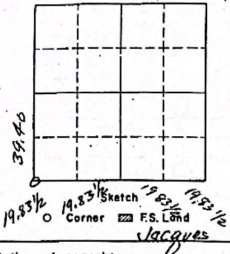
EXISTING SURVEYS

Original Government Survey	Original Evidence Found
Year surveyed _____	Year of search <u>1908</u> By <u>W.M. Jacques</u>
Original monument _____ <small>(stone post, stone pile of stones, post, etc.)</small>	Monument found <u>STONE</u>
Bearing Trees	Original Bearing Trees Found
Species _____	Species _____
Diameter _____	Diameter _____
Bearing _____	Bearing _____
Distance _____	Distance _____
Subsequent Corner Restoration	<u>April</u> Evidence of Subsequent Corner Restoration Found
Year surveyed: ? By ?	Year of search <u>1975</u> By <u>GLIFFIN</u>
Where filed or recorded <u>Book #2</u>	<u>Ed broken BUGGY AXLE (12" dia)</u>
Monument <u>STAKE & Dog Tooth with glass</u>	<u>at road intersection</u>
Bearing Trees, Reference Objects	<u>DW spikes</u> <u>Shiner</u>
Species <u>USGS</u>	Bearing Trees, Reference Objects <u>Pink Cor</u>
Diameter <u>BH</u>	<u>Post</u>
Bearing <u>S51W</u>	<u>S72W</u>
Distance <u>42 ft</u>	<u>76.42</u>
	<u>USGS</u>
	<u>BH</u>
	<u>S52W</u>
	<u>41.93</u>

Index No. E 25LAND CORNER RECORD
(RECTANGULAR SURVEYS)RP-7150-4 (Rev. 6/13/67)
GPO 806-824T. 15N R. 11W Mer. N.F. _____ County _____ State _____
SE Corner common to sections 1 and _____

EXISTING SURVEYS

Original Government Survey	Original Evidence Found
Year surveyed _____	Year of search <u>1908</u> By <u>W.M. Jacques</u>
Original monument _____ <small>(stone post, stone pile of stones, post, etc.)</small>	Monument found <u>STONE</u>
Bearing Trees	Original Bearing Trees Found
Species _____	Species _____
Diameter _____	Diameter _____
Bearing _____	Bearing _____
Distance _____	Distance _____
Subsequent Corner Restoration	<u>April</u> Evidence of Subsequent Corner Restoration Found
Year surveyed: _____ By _____	Year of search <u>1975</u> By <u>GLIFFIN</u>
Where filed or recorded _____	<u>Ed TRUCK SPRING at road intersection</u>
Monument _____ <small>(Original, concrete post, iron rod, etc.)</small>	<u>(raised it to surface with 10" Deck spike)</u>
Bearing Trees, Reference Objects	<u>1 1/2" Col m</u>
Species _____	Bearing Trees, Reference Objects <u>STONE</u>
Diameter _____	<u>Post</u>
Bearing _____	<u>(3.1 x 2.5 x 20 1/2 in)</u>
Distance _____	<u>S42W N26W</u>
	<u>87.72</u>



Relation of Evidence to Record Features Along Section Lines

Section line to sections _____
 Object _____
 Record distance _____
 Measured distance _____

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines, plantations, etc.. Cite source of testimony if any.

At time of search:

1. Did you have the record description?
 Yes _____ No _____

2. How was search area located?
 Pacing, chaining, photos, maps,
 etc. _____

3. Man hours spent in search _____

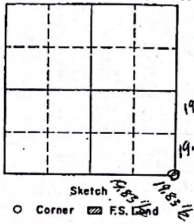
4. Do you think additional search might
 recover evidence? Yes _____ No _____

5. Signature _____

Perpetuation Record

Monument and accessories established. Include brief description of area. _____

Certified corner restoration certificate prepared: Yes _____ No _____
 Filed in county records at _____ Date _____ County Document No. _____
 Identified on aerial photo No. _____ Which is filed at _____



Relation of Evidence to Record Features Along Section Lines

Section line to sections _____
 Object _____
 Record distance _____
 Measured distance _____

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines, plantations, etc.. Cite source of testimony if any.

At time of search:

1. Did you have the record description?
 Yes _____ No _____

2. How was search area located?
 Pacing, chaining, photos, maps,
 etc. _____

3. Man hours spent in search _____

4. Do you think additional search might
 recover evidence? Yes _____ No _____

5. Signature _____

Perpetuation Record

Monument and accessories established. Include brief description of area. _____

Certified corner restoration certificate prepared: Yes _____ No _____
 Filed in county records at _____ Date _____ County Document No. _____
 Identified on aerial photo No. _____ Which is filed at _____

USDA-FOREST SERVICE

Index File No. **C 25**

CORNER RECORD (SEARCH)
(Ref. FSM 7151.4)

Tract or Survey No. _____ Cor. No. _____

T 15 R. 11 S.D. _____ County _____

Merid. _____ N.F. _____ State _____

CORNER DIAGRAM

DESCRIBE CORNER MONUMENT FOUND **E 1/4 Sec 1**



Iron

DESCRIBE BEARING TREES OR OTHER OFFICIAL ACCESSORIES FOUND

Fleed bly wrong

PHOTO IDENTIFICATION DATA

Photo No. _____
Filed At. _____
Object Ident. _____
Ident. By _____
Signature _____

DESCRIBE CORNER LOCATION RELATIVE TO NEAR-BY FEATURES, ALSO HOW TO REACH CORNER

Prob Henry Mulder informs me that Ferris Students Ran the East line & set the 1/4 cor 1/2 way & that some private surveyor broke sec 6 of 15-10 & used the Ferris Students Corner.

PLANE COORDINATE POSITION DATA

State _____ Zone _____
X _____
Y _____
Estab. By _____
Agency _____

Signature _____ Title _____ Division _____ Headquarters _____ Date _____ 7100-52-13(68)

Index No. **C 25**

LAND CORNER RECORD
(REPLACES FORM 507-1)

99-7150-4 (Rev. 6/15/67)
GPO 502-127

T 15N R 11W Mer. N.F. _____ County _____ State _____
Corner common to sections 1 (DRC) and _____

EXISTING SURVEYS	
<p>Original Government Survey</p> <p>Year surveyed _____</p> <p>Original monument _____ <small>(wood post, stone, pile of stones, etc.)</small></p> <p>Bearing Trees</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>	<p>Original Evidence Found</p> <p>Year of search <u>1987</u> By <u>W.M. Jorgies</u></p> <p>Monument found <u>IRON</u></p> <p>Original Bearing Trees Found</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>
<p>Subsequent Corner Restoration</p> <p>Year surveyed <u>1977</u> By <u>Griffin</u></p> <p>Where filed or recorded _____</p> <p>Monument <u>No Mon - location computed by Griffin using BOLDT REICHERT & VIGT EVREN (OIL FERRIS STATE COLLEGE students) field project info</u></p> <p>Bearing Trees, Reference Objects</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>	<p>Evidence of Subsequent Corner Restoration Found</p> <p>Year of search _____ By _____</p> <p>Bearing Trees, Reference Objects</p> <p>Species _____</p> <p>Diameter _____</p> <p>Bearing _____</p> <p>Distance _____</p>

CORNER RECORD (PERPETUATION)

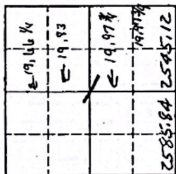
MONUMENT: DESCRIBE NEW MONUMENT SET, OR WORK DONE TO PRESERVE EXISTING MONUMENT

ACCESSORIES: DESCRIBE NEW BT'S WITNESS OBJECTS ETC. ESTABLISHED, OR WORK DONE TO PRESERVE EXISTING EVIDENCE

Work Done By _____ Title _____ Date _____ State Registration No. _____
 or Agency _____
 Certified Cor. Record Prepared? Yes No Filed At: _____ Date _____

REMARKS

Index File No. T. R. M. Tract or Surv. No. Cor.



Sketch
 Corner F.S. Land

Relation of Evidence to Record Features Along Section Lines

Section line to sections _____
 Object _____
 Record distance _____
 Measured distance _____

Other Evidence

Describe evidence of use and occupation such as roads, fences, clearings, timber cutting lines, plantations, etc., Cite source of testimony if any.

GLO Student Measurement Computed
 2598.42 2585.12
 2640.00 2585.84
 5238.42 5130.96

At time of search:

1. Did you have the record description?
 Yes _____ No _____

2. How was search area located?
 Pacing, chaining, photos, maps,
 etc. _____

3. Man hours spent in search _____

4. Do you think additional search might
 recover evidence? Yes _____ No _____

5. Signature _____

Perpetuation Record

Monument and accessories established. Include brief description of area.

Certified corner restoration certificate prepared: Yes _____ No _____
 Filed in county records at _____ Date _____ County Document No. _____
 Identified on aerial photo No. _____ Which is filed at _____

MEASUREMENTS ALONG RANGE LINE
T15N, R10/11 W

5/05/08

C. WHITE
N. OCHS

RANGE LINE MEASUREMENTS

C. WAIT
N. OCHS

T15N, R10/11 W

GPS BASE @ ① MID-MICH. ENGR. CONTROL PT
1/2" REBAR w/ CAP

ANT HT = 5.93 CB 5.955 PH

- | | | |
|-------------------------|-------------------------------|--------------------------|
| 2 = | B/C 17741 ± NE Sec 36 | 2-RTK ✓ GOOD |
| 3 = | 1 3/4" TOPPED PIN ± NE Sec 36 | 2-RTK ✓ GOOD |
| 4 = | MELCOSTA Co Mon SE Sec 36 | 2-RS ± 0.2' VAR. |
| 5 = | NEWAYGO Co Mon SE 017411 | 3-RTK ✓ GOOD |
| 6 = | B/C 19305 ± NE Sec 24 | 3-RS 1 Fix Held |
| 7 = | 3/4" BAR ± E 1/4 Sec 24 | 3-RS 2 GOOD |
| 8 = | 3/4" BAR ± SE Sec 24 | 2-RS, 1-RTK ✓ NO |
| 9 = | B/C 17741 ± SE Sec 24 | 2-RS ✗ NO GOOD SOLUTIONS |
| 10 = | SPK FOR BASE 2 CHECK | ✓ GOOD |
| 11 = | SPK FOR BASE 2 - OPUS | |
| ANT HT 6.13 CB 6.155 PH | | |

- | | | |
|------|------------------------------|-----------------------|
| 12 = | MELCOSTA Co. Mon ± SE Sec 12 | 3-RS 1 FIX HELD |
| 13 = | NEWAYGO Co. Mon ± SE Sec 12 | 2-RS CHECK DIST 12-12 |
| 14 = | NEWAYGO Co. Mon SE Sec 13 | 2-RS ✓ GOOD |
| 15 = | NEWAYGO Co. Mon NE Sec 1 | 2-RTK 1-RS ✓ GOOD |
| 16 = | NEWAYGO Co. Mon SE Sec 1 | 3-RTK 1-RS ✓ GOOD |

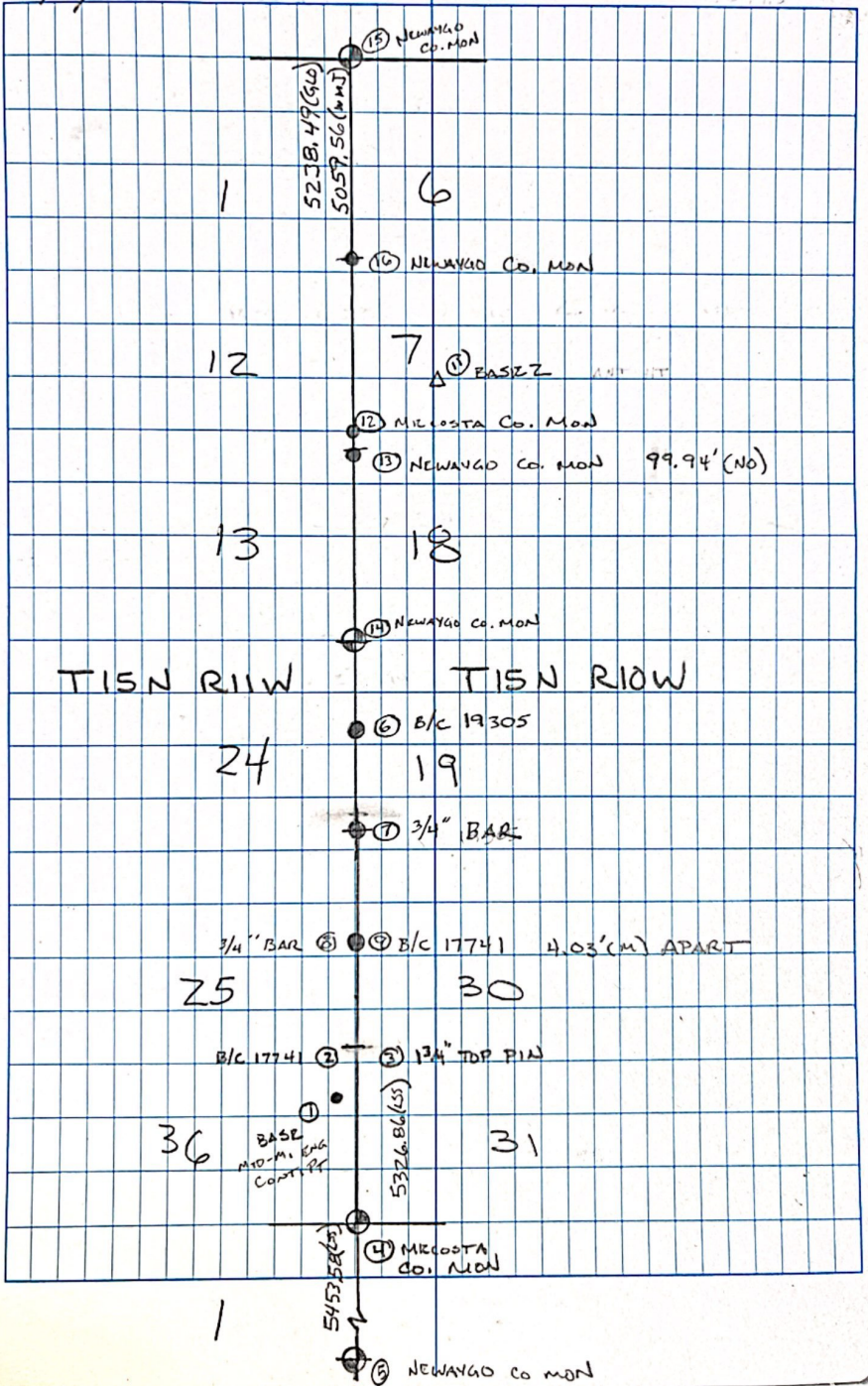
5/5/08

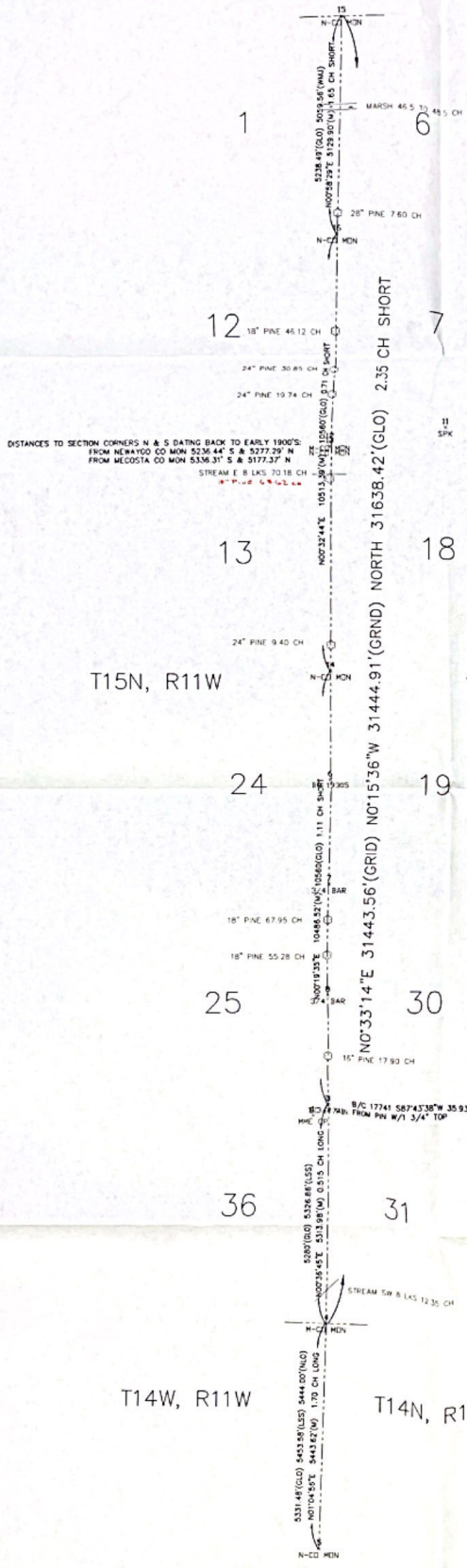
249-0779

156473

J. L. DARLING CORP. TACOMA, WA 98424-1017
www.RiteintheRain.com

No. 302





DISTANCES TO SECTION CORNERS N & S DATING BACK TO EARLY 1900'S:
 FROM NE 1/4 CO MON 52 36 44" S & 5277.27' N
 FROM MECOSTA CO MON 53 36 31" S & 5177.37' N

List Points
 File: C:\Program Files\Carlson Software 2005\WORK\T154R11W\Yongq1.mxd
 Job Description: NAD83 to SOUTH STATE PLANE
 Job Number: 0.000 Job Date: 2008.05.13

Point#	Northing	Easting	Elev	Description
1	787823.048	1206563.195	1155.285	M=CO GP
2	788233.088	12066907.100	1135.851	BC 17741
3	788234.523	12068941.004	1134.256	1 3/4 PIN
4	782920.850	1206886.187	1061.881	M-CO MON
5	777478.198	12068783.371	839.505	N-CO MON
6	796100.365	12069968.619	1236.811	BC 19305
7	793533.357	12069980.213	1176.678	3/4 BAR
8	790884.374	12069961.184	1158.762	3/4 BAR
11	804396.552	12069722.566	1113.796	SPK
12	854057.168	12070184.503	1158.440	M-CO MON
13	833993.304	12070103.453	1158.927	N-CO MON
14	798720.872	12070027.727	1184.308	N-CO MON
15	814362.944	12071190.093	1100.979	N-CO MON
18	809233.788	12071922.831	1090.107	N-CO MON

Number of points listed: 14

M = MEASURED GRID DISTANCE 2008 CAROL A. WAITE
 GLO = 1837 GLO SURVEY BY JOHN HODGSON
 LSS = LYLE S. SHEPARD
 WAJ = WILLIAM JACQUES
 NLO = NORMAN L. OCHS

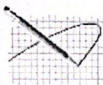
BEARINGS AND DISTANCES REFERENCED TO
 NAD83 MICHIGAN SOUTH STATE PLANE GRID
 UNLESS OTHERWISE NOTED
 MEAN GRID FACTOR ALONG RANGE LINE=0.99995707

List Points

File> C:\Program Files\Carlson Software 2006\WORK\T15NR11W\RangeLine.crd
Job Description> NAD83 MI SOUTH STATE PLANE
Job Number> 0.000 Job Date> 2008.0513

Point#	Northing	Easting	Elev	Description
1	787960.049	12806563.199	1155.285	MME CP
2	788233.098	12806907.100	1135.851	BC 17741
3	788234.523	12806943.004	1134.256	1 3/4 PIN
4	782920.850	12806886.187	1061.881	M-CO MON
5	777478.198	12806783.371	989.505	N-CO MON
6	796100.385	12806968.619	1236.811	BC 19305
7	793533.357	12806980.213	1178.676	3/4 BAR
8	790884.374	12806961.184	1158.760	3/4 BAR
11	804396.552	12809722.566	1113.796	SPK
12	804057.168	12807014.503	1156.440	M-CO MON
13	803957.304	12807010.455	1158.907	N-CO MON
14	798720.872	12807002.727	1184.306	N-CO MON
15	814362.944	12807190.093	1100.979	N-CO MON
16	809233.788	12807102.831	1090.107	N-CO MON

Number of points listed> 14



Carol Waite/R9/USDAFS
05/13/2008 11:48 AM

To JKNAPP@MECOSTAROADS.COM,
NEANDS@NCATS.NET

cc

bcc

Subject RANGE LINE T15N, R10/11W

Norm & Jim,

Attached are the results of the GPS measurements made on 5/5/08. There is a text file with state plane coordinates for all of the points where I had redundant measurements within a tolerance of 0.16' horizontal. Also attached is a drawing file in which I made an evaluation of my measured distances vs. historical measurements between corners which appeared to have history dating back to the early 1900's. Note that there are 2 monuments at the corner common to Sections 25, 30, 31 & 36, which are generally E & W of each other. For my evaluation, I held the Easterly monument since it appeared to be more consistent with the Shepard survey to the South.

The entire 6 miles of range line measures 2.35 chains shorter than GLO. In general, distances between accepted monuments measure shorter than GLO, which would be expected given the topographic conditions. The exception to this is the Southerly mile which measures 0.515 chains longer than GLO, which could be attributed to GLO dropping a 1/2 chain in this mile. Looking at the 2 mile distance between historical corners common to Sections 1, 6, 7 & 12 and 13, 18, 19 & 24, the overall distance is 0.71 chains short of GLO. Of the 2 monuments at the corner common to Sections 12, 7, 18 & 13, it appears as though the Newaygo County monument is significantly more consistent with the GLO survey than the position of the Mecosta County monument, using measurement as collateral evidence of the original GLO position.

There appear to be several other corner positions along the range line with multiple monuments that appear to have been reestablished by a variety of methods that will require compiling additional information to thoroughly evaluate. Using the GLO notes, I added feature calls (streams, marsh, line trees) to my drawing that are potentially recoverable today. I recommend that these features be searched for and tied in order to further aid you with your evaluation and reestablishment of the original GLO positions along this range line.

Thank you for the opportunity to participate in this process and if I can be of further assistance, please feel free to contact me.



Range Line 15N10_11W.txt



RangeLine.dwg

Carol A. Waite, Forest Land Surveyor
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