

# CERTIFICATE OF SURVEY

## LEGEND

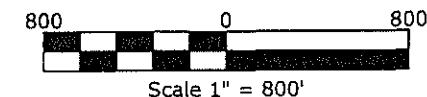
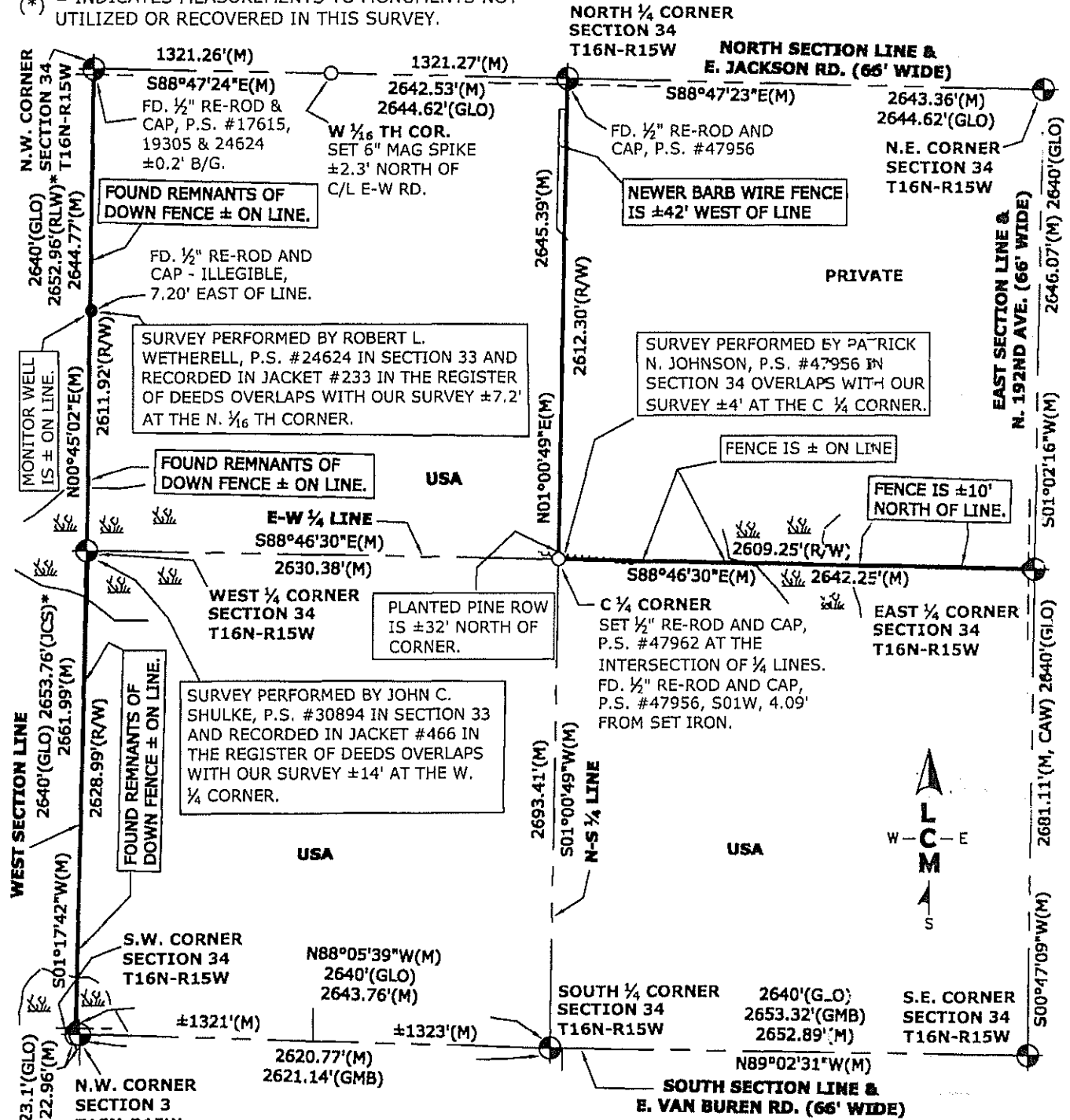
- ⊙ = EXISTING PLSS CORNER POSITION ACCEPTED
- = SET ½" x 18" LONG RE-BAR & CAP, P.S. #47962
- = SECTION SUBDIVISION CORNER FOUND AS NOTED
- (M) = MEASURED GRID DISTANCE
- (C) = CALCULATED GRID DISTANCE
- = BOUNDARY LINE POSTED & MARKED
- \* \* = FENCE LINE
- (R/W) = DISTANCE TO THE ROAD RIGHT OF WAY
- ☁ = SWAMPY AREA
- (\*) = INDICATES MEASUREMENTS TO MONUMENTS NOT UTILIZED OR RECOVERED IN THIS SURVEY.

SPACE RESERVED FOR REGISTER OF DEEDS

**OR Liber 2021 Page 9879 - 9882**

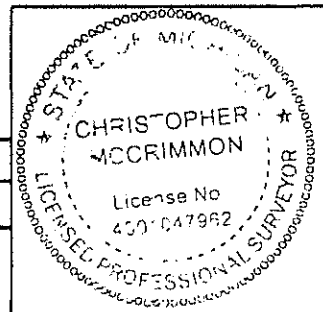
Filed for Record in OCEANA COUNTY, MICHIGAN  
 RICHARD A HODGES, REGISTER OF DEEDS  
 On 04-15-2021 At 11:11:20 am.  
 Document Number 202100002834  
 LAND SURVEY 30.00

SV 1045



**BASIS OF BEARING: NAD 83 MICHIGAN CENTRAL STATE PLANE GRID**

*Christopher J. McCrimmon*  
 Christopher J. McCrimmon  
 Professional Surveyor No. 4001047962



**Surveying & Engineering INC**  
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 225 E. MAIN ST. MARION, MI 49855

DATE: 11/24/2020  
 DRN BY: CJM  
 CHD BY: CJM  
 SHEET 1 OF 4

CLIENT: USDA Forest Service  
 JOB NO: 20241  
 Part of Section 34,  
 T16N, R15W,  
 Colfax Twp., Oceana Co., MI.

2021-11-24 11:11:20 AM  
 OCEANA COUNTY, MICHIGAN  
 2021-11-24 11:11:20 AM

# LEGALS AND COORDINATES

SPACE RESERVED FOR REGISTER OF DEEDS

COORDINATE LIST  
 NAD83 MICHIGAN CENTRAL ZONE INTERNATIONAL FEET STATE PLANE COORDINATES  
 ELEVATIONS SHOWN TO TWO DECIMAL PLACES ARE ORTHOMETRIC HEIGHTS DERIVED FROM GPS  
 MEASUREMENTS AND THE GEOID09 MODEL. ALL OTHER ELEVATIONS ARE SCALED.  
 NAD83 GEOGRAPHIC COORDINATES ARE SHOWN AS NORTH LATITUDE AND WEST LONGITUDE.  
 (DEG MIN SEC.SSSS)

POINT	NORTHING	EASTING	ELEVATION	LATITUDE	LONGITUDE	S.F.	C.S.F.	CONVERGENCE
NW3416N15W	160420.79	19227403.88	882.60	43 44 35.77516	86 05 53.63825	1.000129825	1.000092974	-1 13 23.48823
N143416N15W	160364.99	19230045.82	866.41	43 44 35.77955	86 05 17.64608	1.000129824	1.000093745	-1 12 58.06310
NE3416N15W	160309.16	19232688.59	852.02	43 44 35.78060	86 04 41.64253	1.000129824	1.000094443	-1 12 32.62992
SW3416N15W	155114.94	19227309.08	868.93	43 43 43.37406	86 05 53.38658	1.000135106	1.000098905	-1 13 23.31045
S143416N15W	155027.02	19229951.37	862.77	43 43 43.06145	86 05 17.38916	1.000135138	1.000099229	-1 12 57.88161
W143416N15W	157776.25	19227369.24	869.51	43 44 09.66005	86 05 53.34111	1.000132449	1.000096222	-1 13 23.27833
E143416N15W	157663.52	19232640.66	900	43 44 09.65188	86 04 41.53484	1.00013245	1.000094759	-1 12 32.55385
SE3416N15W	154982.66	19232603.89	900	43 43 43.17782	86 04 41.26510	1.000135126	1.000097433	-1 12 32.36331

**LEGAL DESCRIPTION OF THE NATIONAL FOREST SYSTEM LAND:**

The Southeast 1/4 AND the Southwest 1/4 AND the Northwest 1/4, Section 34, T16N-R15W,  
 Twp. of Colfax, Oceana County, Michigan.

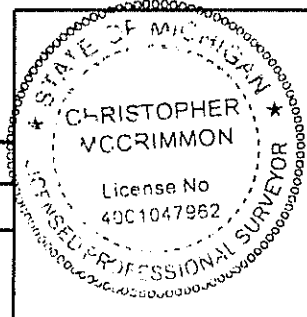
**SURVEYORS LEGEND**  
 GLO = Mullett & Brookfield Township lines (1838)  
 GLO = John Hodgson - Subdivisions (1838)  
 GMB = George M. Blass, R.L.S. #5489 (1968)  
 RLW = Robert L. Wetherell, P.S. #24624 (1978)  
 CAW = Carol A. Waite, P.S. #43074 (2005, 17)  
 JCS = John C. Schulke, P.S. #30894 (1991, 2018)

DISTANCES ARE SHOWN IN NAD 83 MICHIGAN CENTRAL  
 STATE PLANE GRID IN INTERNATIONAL FEET.  
 1 INTERNATIONAL FOOT = 0.3048 METERS. COMBINED  
 GRID FACTOR FOR THE PROJECT = 1.00008968125.

GRID DISTANCE = GROUND DISTANCE  
 COMBINED GRID FACTOR

*CJM*

Christopher J. McCrimmon  
 Professional Surveyor No. 4001047962



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 120 E. MAIN ST. MARION, MI 49858

DATE: 11/24/2020	CLIENT: USDA Forest Service
DRN BY: CJM	JOB NO: 20241
CHD BY: CJM	Part of Section 34, T16N, R15W, Colfax Twp., Oceana Co., MI.
SHEET 2 OF 4	

# WITNESSES

SPACE RESERVED FOR REGISTER OF DEEDS

NW Corner, Sec. 34, T16N, R15W

Found 4" diameter cast iron monument in monument box in c/l e-w road and extension of down occupation north and south.  
 N83E - p.k. nail in S face of P. Pole - 283.23'  
 S25E - spike in NE face of 10" Oak - 88.57'  
 S02E - spike in W face of 10" Maple - 68.64'  
 South - 1/2" re-rod and cap, P.S. #24624 - 33.00'  
 N83W - p.k. nail in SW face of P. Pole - 310.65'

N. 1/4 Corner, Sec. 34, T16N, R15W

Found 5/8" re-rod in monument box +/-0.7' below grade & +/- 3' north of c/l e-w trail road.  
 S42E - 60d spike in W face of 12" Maple - 111.55'  
 South - 1/2" re-rod and cap, P.S. #47956 - 33.00'  
 S52W - 60d spike in SE face of 20" Basswood - 72.79'  
 N33W - 60d spike in E face of 5" Beech - 42.93'

NE Corner, Sec. 34, T16N, R15W

Found 4" diameter cast iron monument 1.3' below grade in monument box at intersection of roads.  
 S47E - spike in SW face of 18" Maple - 65.89'  
 S23E - N.W. Cor. Foundation of Town Hall - 93.90'  
 S45W - p.k. nail in NW face of P. Pole - 43.89'  
 N28W - USFS CONC. MON "ERIC" "LEEMON" GPS STATION - 68.70'  
 N11W - p.k. nail in E face of P. Pole - 157.58'

W. 1/4 Corner, Sec. 34, T16N, R15W

1/2" x 36" long smooth rod at surface in 0.5' of water  
 N38E - 60d spike in S face of 4" Maple - 27.32'  
 S58E - 2" diameter pipe - 16.35'  
 S12E - 60d spike in E face of 5" Maple - 20.05'  
 S68W - 60d spike in N face of 5" W. Pine - 29.28'  
 N19W - 60d spike in E face of 5" Maple - 22.75'  
 North - fiberglass post - 1'

C. 1/4 Corner, Sec. 34, T16N, R15W

1/2" x 18" long re-rod and cap, P.S. #47962 flush with the ground at the intersection of 1/4 lines  
 N06E - 60d spike in W face of 9" Oak - 54.96'  
 N51E - 60d spike in NW face of 6" R. Pine - 33.70'  
 S01W - 1/2" re-rod and cap, P.S. #47956 - 4.09'  
 S23W - 60d spike in E face of 5" Cherry - 45.05'  
 N86W - 60d spike in S face of 8" R. Pine - 56.13'  
 North - fiberglass post - 1'

E. 1/4 Corner, Sec. 34, T16N, R15W

5" square concrete monument with brass cap  
 S38E - 60d spike in SW face of P. Pole - 56.23'  
 West - 16 penny spike in S face of 4" sq. post - 32.90'  
 N88W - 1/2" re-rod and cap, P.S. #47962 - 33.00'  
 N08W - 35" Maple - 115.31'  
 West - fiberglass post - 34'

SW Corner, Sec. 34, T16N, R15W

5/8" x 36" long re-rod and illegible cap, 0.3' below grade 5' north of c/l e-w gravel road  
 North - 1/2" re-rod and cap, P.S. #47962 - 33.00'  
 S88E - 5/8" x 36" long re-rod and illegible cap (closing corner) - 22.96'  
 S83E - 60d spike N face of 12" Balsam Fir - 335.38'  
 S65E - 1/2" re-rod - 53.03'  
 S70W - 1/2" re-rod - 51.82'  
 N84W - 60d spike in S face of 16" Maple - 334.82'  
 N66W - p.k. in north end of C.M.P. - 33.08'  
 North - fiberglass post - 9.6'

S. 1/4 Corner, Sec. 34, T16N, R15W

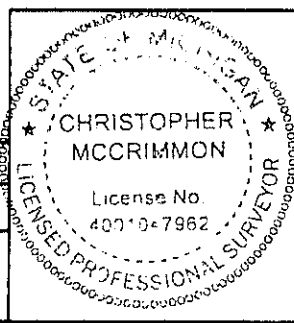
1/2" x 42" long smooth rod +/-0.5' below grade, +/-10' west of c/l road south and in c/l east-west road  
 N55E - 60d spike in SE face of 5" R. Oak - 125.46'  
 S31E - 60d spike in SW face of 6" Maple - 125.39'  
 N66W - 60d spike in NE face of 6" R. Oak - 100.40'  
 N17W - 60d spike in NE face of 10" R. Oak - 72.26'  
 North - fiberglass post - 33'

SE Corner, Sec. 34, T16N, R15W

5" square concrete monument with brass cap  
 N64E - spike in SE face of 24" W. Oak - 53.58'  
 S88E - spike in S face of 24" Beech - 70.94'  
 S82W - spike in N face of 9" Cedar - 29.77'  
 N25W - 60d spike in SW face of 9" W. Pine - 55.50'



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 Professional Surveyor No. 4001047962



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 225 E. MAIN ST. MARION, MI 49655

DATE: 11/24/2020	CLIENT: USDA Forest Service
DRN BY: CJM	JOB NO: 20241
CHD BY: CJM	Part of Section 34, T16N, R15W, Colfax Twp., Oceana Co., MI.
SHEET 3 OF 4	

# REPORT OF SURVEY

SPACE RESERVED FOR REGISTER OF DEEDS

**EVALUATION OF CORNERS AND CONFLICTING MONUMENTATION:**

- The Northwest Corner is a 4" diameter cast iron monument in monument in the c/l of E-W asphalt road. This monument dates to +/-1975 Robert Griffin found iron.
- The North 1/4 Corner is 5/8" re-rod in monument box +/-3' north of c/l E-W asphalt road. This corner was considered lost and set by single proportion by J. Randolph Hepworth in 1997.
- The Northeast Corner is a 4" diameter cast iron monument in monument box at the intersection of roads. This corner is a perpetuation of wood stake and iron fence post as referenced by the road commission pre-1951. In 1975, Robert Griffin found iron at road intersection and fit the 1951 witness to the township hall. This corner fits well with 1/4 corners north and south.
- The West 1/4 Corner is a 1/2" x 36" long smooth rod at surface in 0.5' of water, said rod fits possible GLO stump remains S20E 8lks. There was no found occupation north, south, east and west at the corner position but the 1/2" rod did fit the extension of found fence remains while running the West Section Line. Found 2" diameter x 5' long pipe with 3/4" pipe inside sticking 0.8' above water S58E, 16.35' from 1/2" rod. The 2" pipe is approximate equal distance from section corners north and south and has been used for 3 recorded surveys in Section 33 and an unrecorded Survey in Section 34. The 1/2" smooth rod is of similar characteristics of J. Bean irons set in this township circa 1883 and since it also fits historical occupation I'm accepting as the best available evidence of the position of the original corner.
- The East 1/4 Corner is a 5" square concrete monument with brass cap. This monument is a perpetuation of a pipe referenced by John Clapp in 1968. Upon excavation Robert Griffin found the pipe to be raising a large pointed stone.
- The Southwest Corner is a 5/8" x 36" long re-rod and illegible cap, 0.3' below grade 5' north of c/l e-w gravel road. This corner fits the extension of found fence remains along the West Section Line and a double over of found fence remains at the 1/16<sup>th</sup> line to the east. This corner measures 313' -vs- 330' (GLO) to swamp call east. I also found a 5/8" re-rod and illegible cap at the closing corner 22.96' east -vs- 23.1' (GLO). We did search around this area with a metal locator and didn't find any other evidence of the corner. I'm accepting the found 5/8" re-rod as the best available evidence of the position of the original standard corner.
- The South 1/4 Corner is a 1/2" x 42" long smooth rod +/-0.5' below grade, +/-10' west of c/l road south and in c/l east-west road. George Blass called this the North 1/4 Corner for Section 3 while surveying for Consumers Power Company in 1968. Based upon measurements east and west, road occupation to the south and fitting a double over of 1/16<sup>th</sup> line fence to the west, I believe the found 1/2" iron is the standard corner for T16N-R15W and not the closing corner for T15N-R15W. I searched the area looking for the closing corner but didn't find any evidence. The 1/2" smooth rod is of similar characteristics of J. Bean irons set in this township circa 1883 and I'm accepting it as the best available evidence of the position of the original standard corner.
- The Southeast Corner is a 5" square concrete monument with brass cap. This monument is perpetuating an iron pipe used by John Clapp and George Blass in 1968.
- The Center 1/4 Corner is a 1/2" re-rod and cap, P.S. #47962 set at the intersection of 1/4 lines. Found 1/2" re-rod and cap, P.S. #47956, S01W, 4.09' from the set iron.

**ENCROACHMENTS:**

- There is a monitor well located +/-1329' south of the N.W. Corner that is +/- on line.
- A survey performed by Robert L. Wetherell, P.S. #24624 in Section 33 and recorded in Jacket #223 at Register of Deeds overlaps our survey. The overlap is +/-7.2' at the N. 1/16<sup>th</sup> Corner on the West Line.
- A survey performed by John C. Shulke, P.S. #30894 in Section 33 and recorded in Jacket #466 at Register of Deeds overlaps our survey. The overlap is +/-14' at the W. 1/4 Corner.
- A unrecorded survey performed by Patrick N. Johnson, P.S. #47956 in Section 34 overlaps our survey. The overlap is +/-4' at the C. 1/4 Corner.

**OCCUPATION/FENCES:**

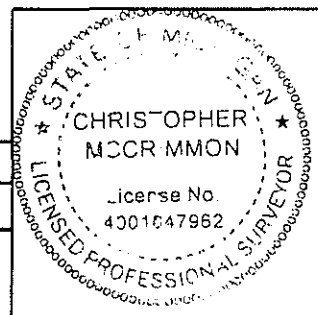
- We found down fence remnants along the West Section Line while posting line consistent with the 1/2" rod found at the W. 1/4 Corner.
- Commencing at the E. 1/4 Corner and running west we found fence remains that were +/-10' north of line for a distance of +/-990'. We crossed a low swampy area and then we found fence remains that were +/- on line until we intersected a planted pine plantation.
- A planted pine plantation starts +/-430' east of the C. 1/4 Corner and runs westerly to a point which is +/-32' north of said C. 1/4 Corner. These pines are part of pine plantation south and west of the line on National Forest land.
- There is a newer barb wire fence starting +/-170' south of the N. 1/4 Corner which encroaches +/-42' and runs for +/-700' along the line.

**SECTION SUBDIVISION:**

This section was computed proportionally holding the intersection of 1/4 lines as the Center 1/4 Corner.

If interior corners were found within acceptable limits I honored those monuments and put a deflection at said position.

Christopher J. McCrimmon  
Professional Surveyor No. 4001047962



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