



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63036

Entry Year 2020

Acreage: 1,933

County Osceola

Management Area: Evert Block

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**Revision Date:** 2018-06-11

**Stand Examiner:** Cheryl Nelson

## Legal Description:

T17N R07W, Sections 1, 2  
T17N R08W, Sections 8, 17, 18  
T18N R07W, Sections 1, 2, 11, 12, 13, 24  
T19N R10W, Section 5  
T20N R10W, Sections 1, 2, 8, 11, 32

## Identified Planning Goals:

Vegetation management in the Evert Block management area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period years will focus on balancing the age-class distributions for aspen and regenerating oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are the need to regenerate oak, the need to continue to balance aspen age classes, the need to diversify forest cover types and an increase in recreation pressure.

## Soil and topography:

The topography in this compartment ranges from rolling hills to flat marshland. Soils in this area are McBride, Montcalm and Kalkaska.

## Ownership Patterns, Development, and Land Use in and Around the Compartment:

This compartment is scattered throughout Osceola County and has private land around all sides of the various blocks of state land. There are three exceptions in which state land adjoins compartment 36, in the northwest a chunk of compartment 36 adjoins compartment 142 in Wexford County. On the east side of Osceola County two areas of the compartment border state land in Clare County.

## Unique Natural Features:

Blanding's turtle have been documented to the East and Northeast. Red-shouldered hawk have been seen to the west and north. Grasshopper sparrows have been documented to the south. Other species spotted near the compartment include Northern goshawk to the west and northwest, Loon to the east and southeast, Bald eagle to the southeast, Wood turtle to the northwest. The compartment has potential for red-shouldered hawk and goshawk. There also is potential for ebony boghaunter and secretive locust in bogs. The compartment also has potential for Blanding's turtle, eastern Massasauga, eagle, osprey, and great blue heron rookery.

## Archeological, Historical, and Cultural Features:

None known

## Special Management Designations or Considerations:

Visual management is important in this compartment due to large frontages on major highways. Age class distribution can not be developed in most areas because of there small size and isolated nature of most of the compartment.

## Watershed and Fisheries Considerations:

The Pine River and Muskegon River watersheds are within this compartment. No known problems or special considerations.

## Wildlife Habitat Considerations:

Featured wildlife species in this Management Area are pileated woodpecker, ruffed grouse, and white-tailed deer. All three may be found in this compartment and a compatible with existing management on the unit which results in a diversity of age classes and habitat types. Treatment decisions should be made with the current habitat conditions on the adjacent private land taken into consideration as this compartment is made up of many small parcels surrounded by private lands.

## Mineral Resource and Development Concerns and/or Restrictions

Sand/ gravel pits are not located in this area. There appears to be some sand potential within the compartment on the uplands. The nearest oil & gas production, past or present, is located more than three miles away. There is currently no active mineral leasing in the area and oil & gas potential is considered low at this time. There is no known metallic mineral potential in this part of the state. The state does not own all of the mineral rights within Sec 11. Private mineral rights owners must be provided reasonable access to the land should they choose to explore and/or develop the minerals.

#### **Vehicle Access:**

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

#### **Survey Needs:**

#### **Recreational Facilities and Opportunities:**

Most of this compartment has water frontage along rivers and lakes as a result these areas are used as undeveloped access sites. The compartment is also used for hunting, fishing and trapping as well.

#### **Fire Protection:**

Some areas have limited county road access, but most of the terrain is favorable for fire equipment access. There are numerous urban interface areas within the compartment. BET 6-4-2018

#### **Additional Compartment Information:**

#### **The following reports from the Inventory are attached:**

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

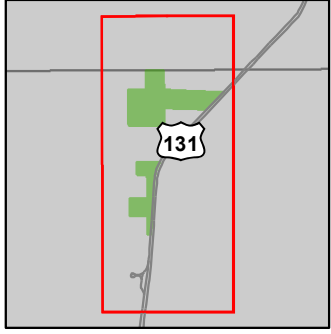
#### **The following information is displayed, where pertinent, on the attached compartment maps:**

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

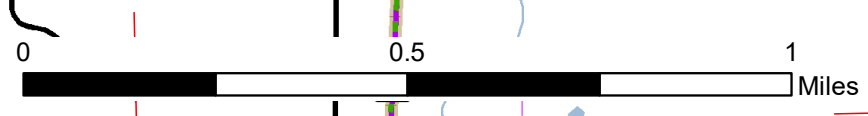
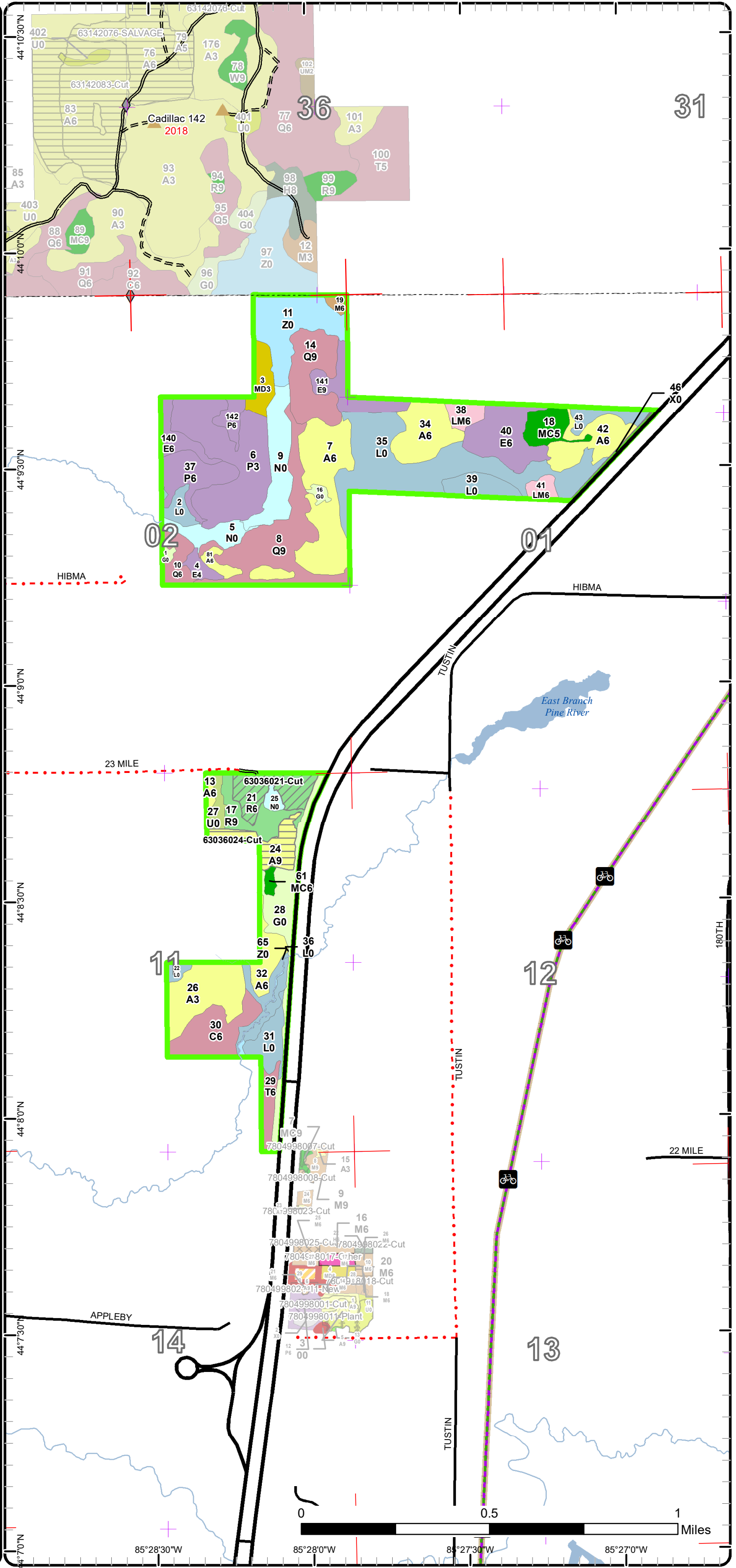
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 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2020  
 Acres: 1,933 GIS Calculated  
 Examiner: Cheryl Nelson  
 Map Revised: 10/23/2018  
 Map Phase: Post - Review



- Miris Corners
- Remonumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Bike Trails
- Snowmobile Trails
- Designated Hiking Trails
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- Designated RailTrail
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- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Berms
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
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31

36

02

01

11

12

14

13

180TH

22 MILE

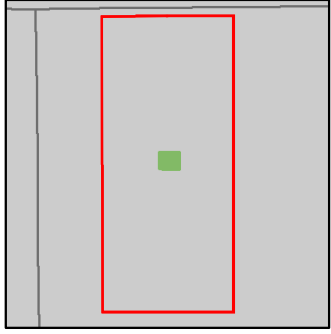
23 MILE

44°10'30"N 44°10'00"N 44°9'30"N 44°9'00"N 44°8'30"N 44°8'00"N 44°7'30"N 44°7'00"N 85°28'30"W 85°28'0"W 85°27'30"W 85°27'0"W

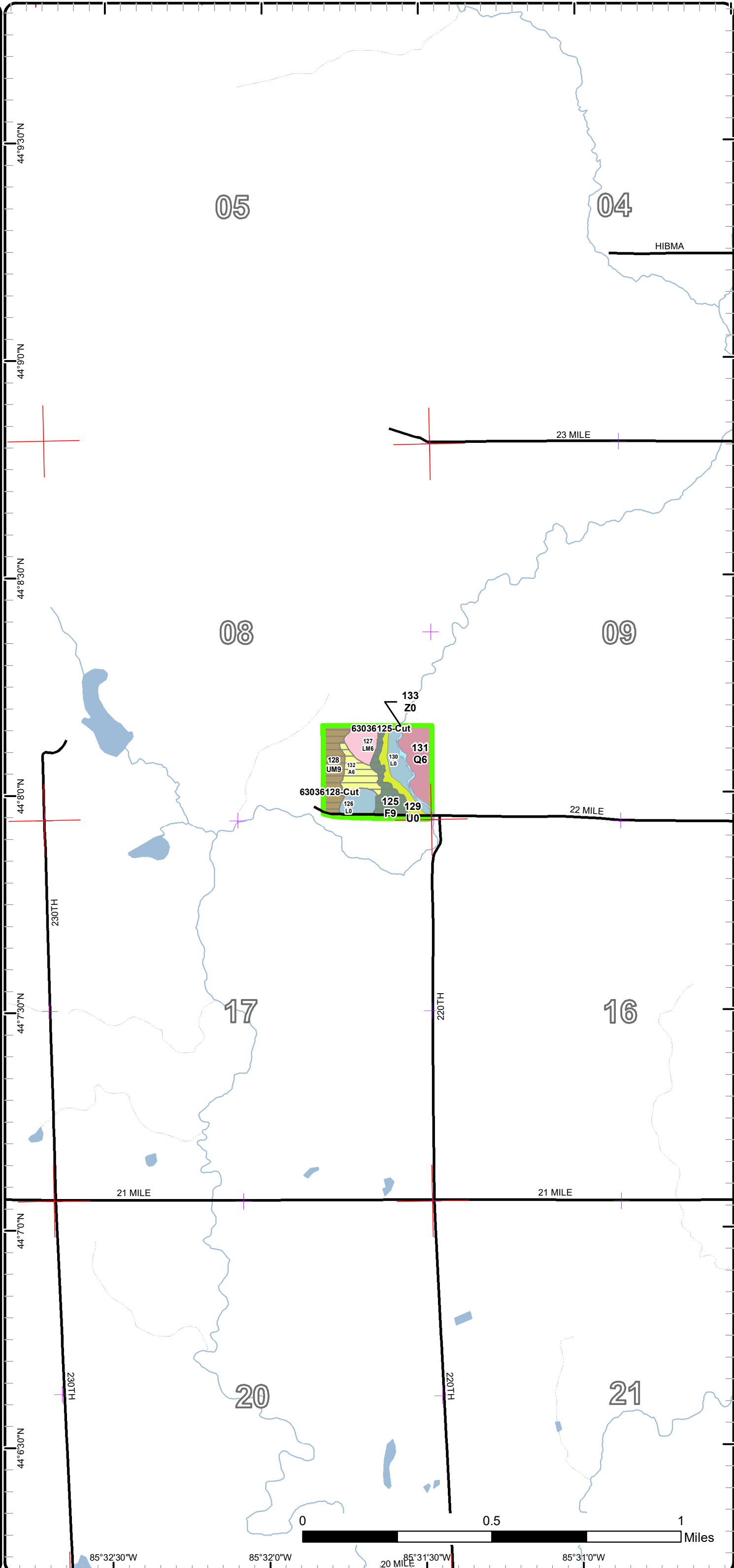
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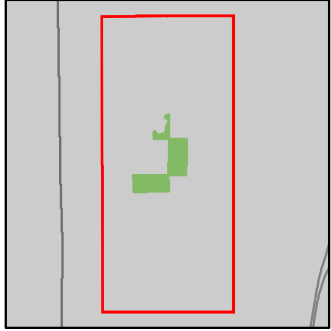
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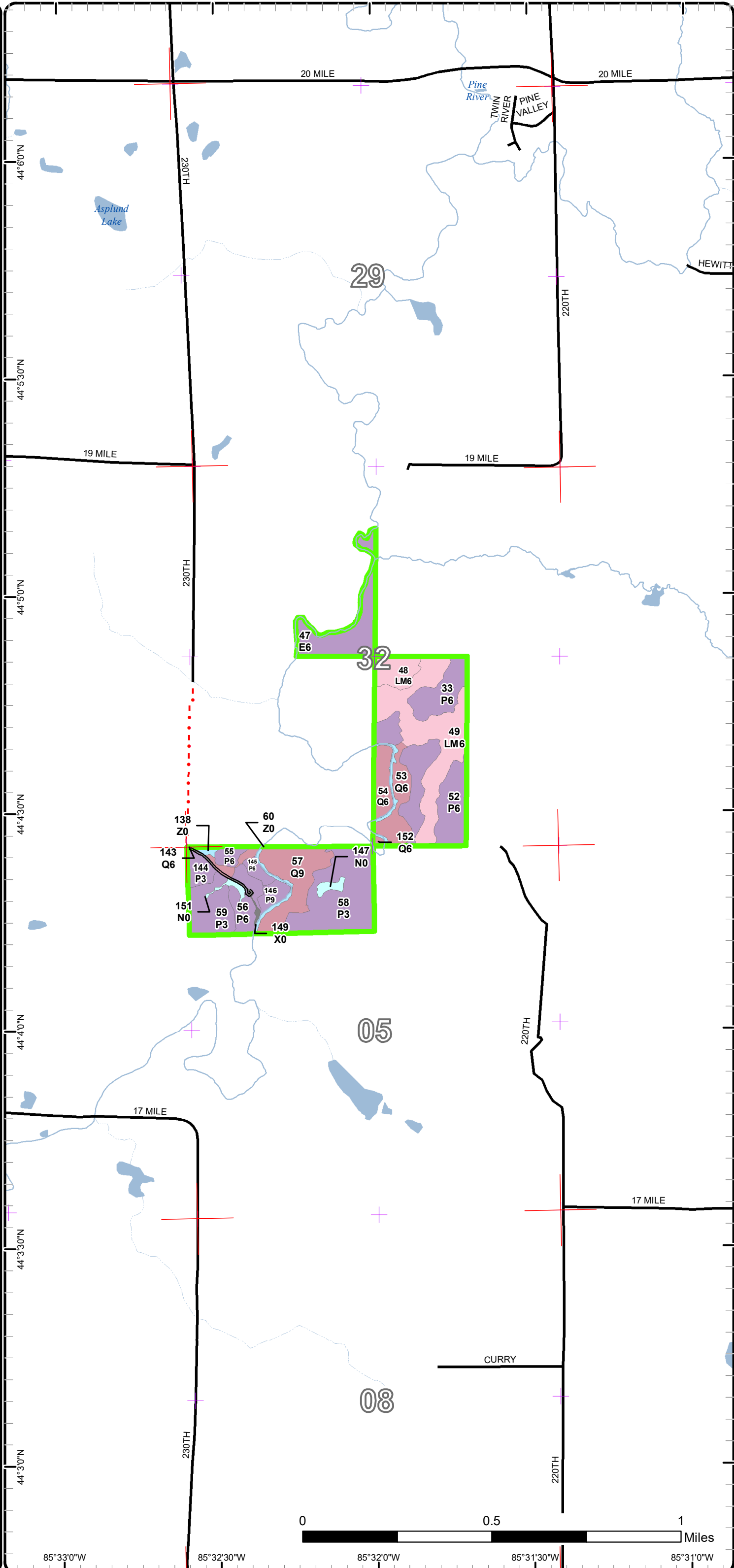
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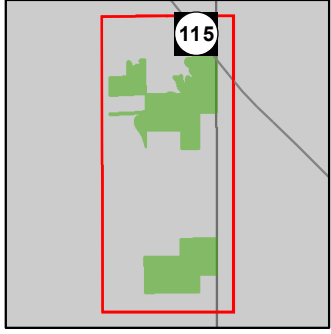
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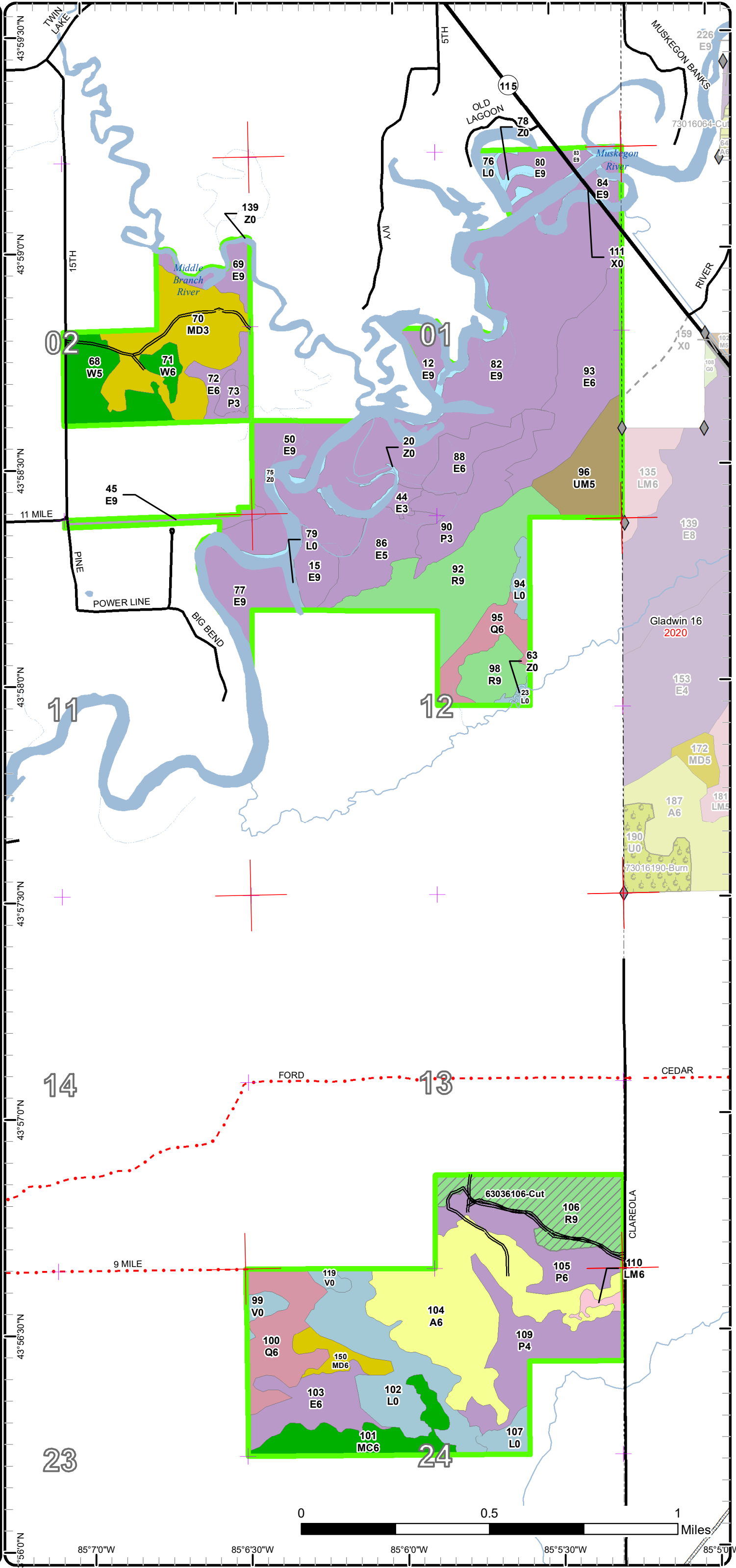
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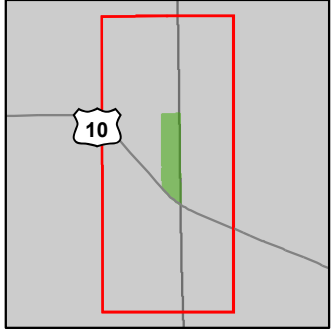
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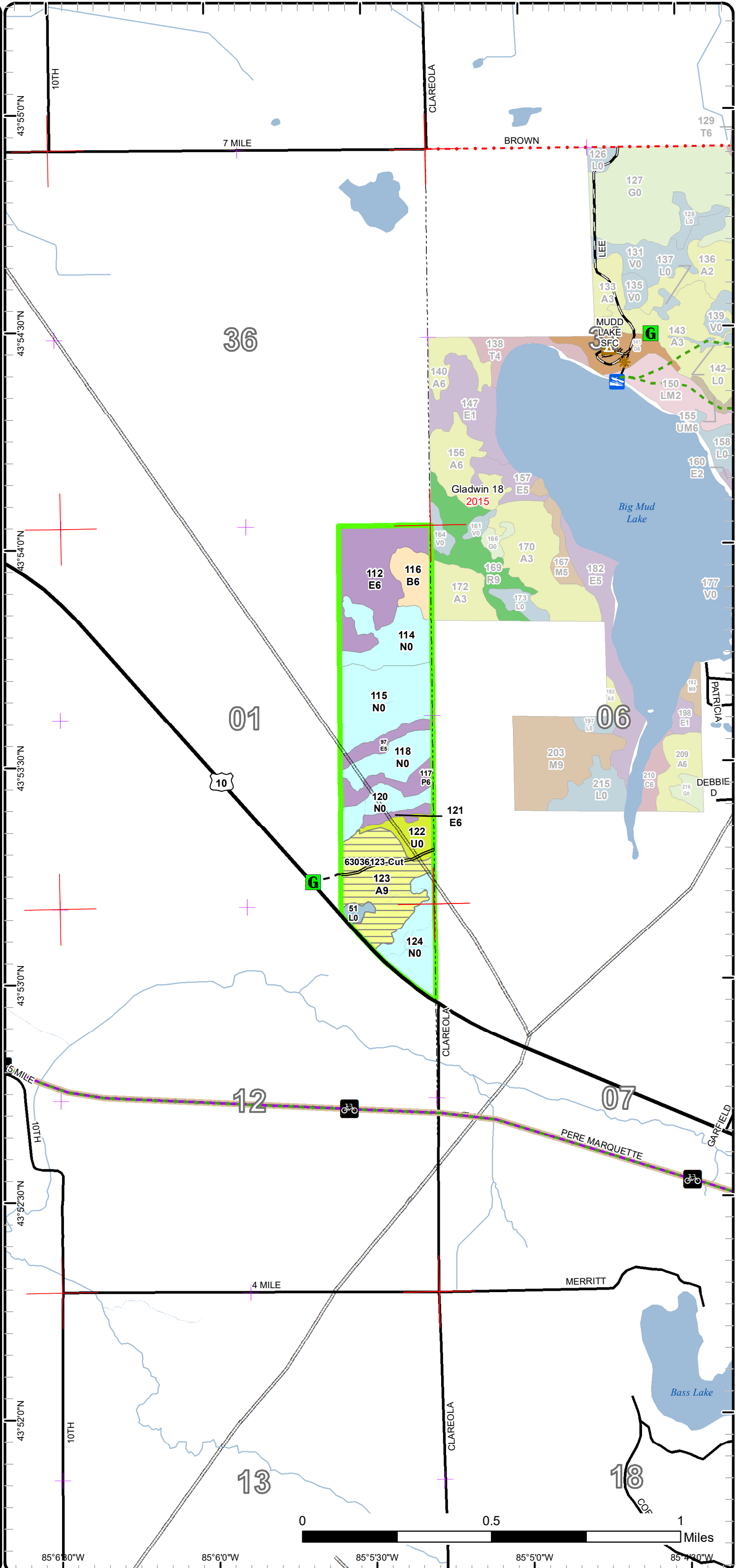
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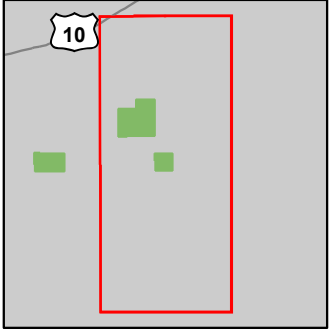
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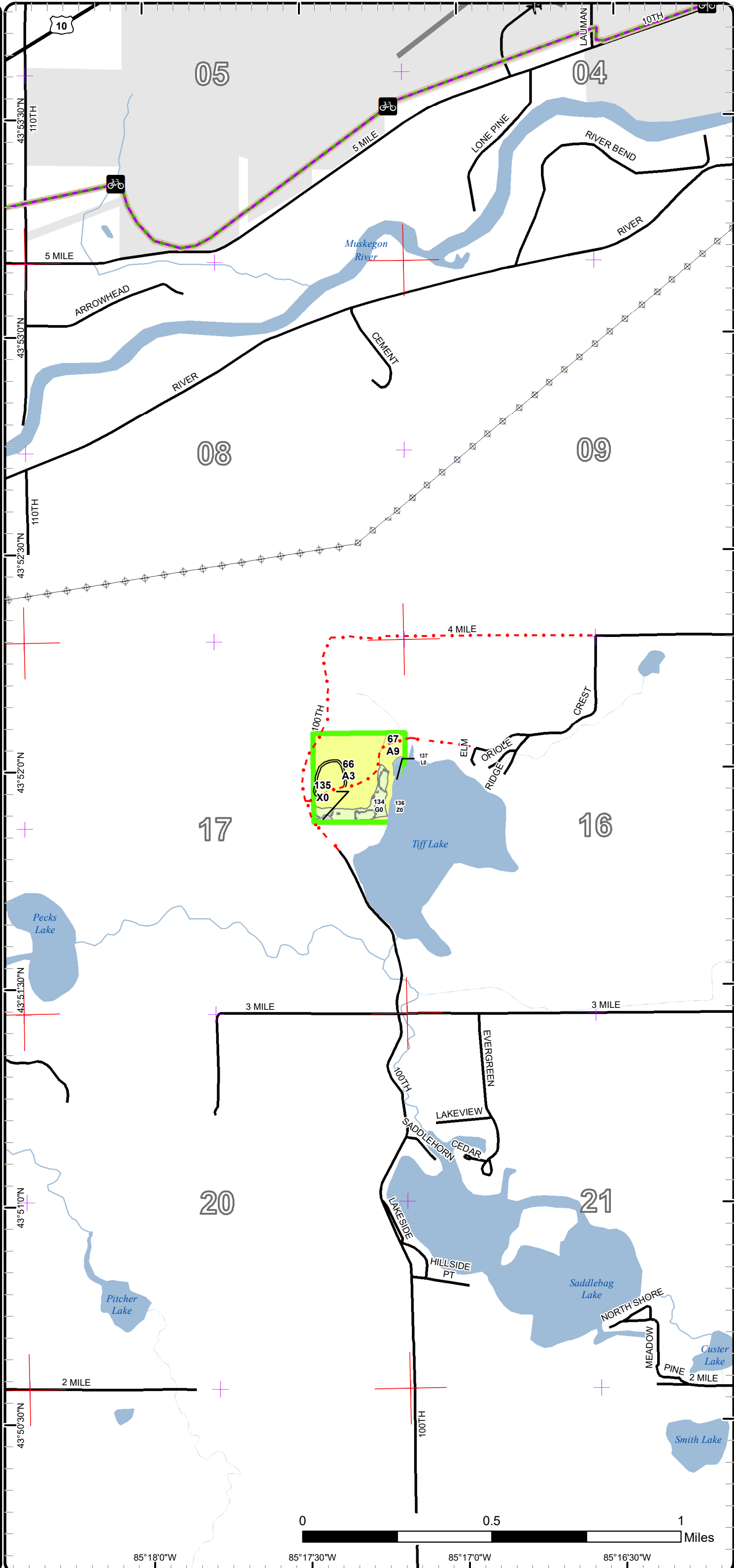
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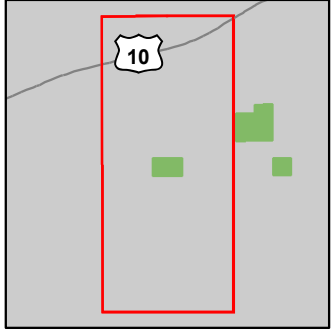




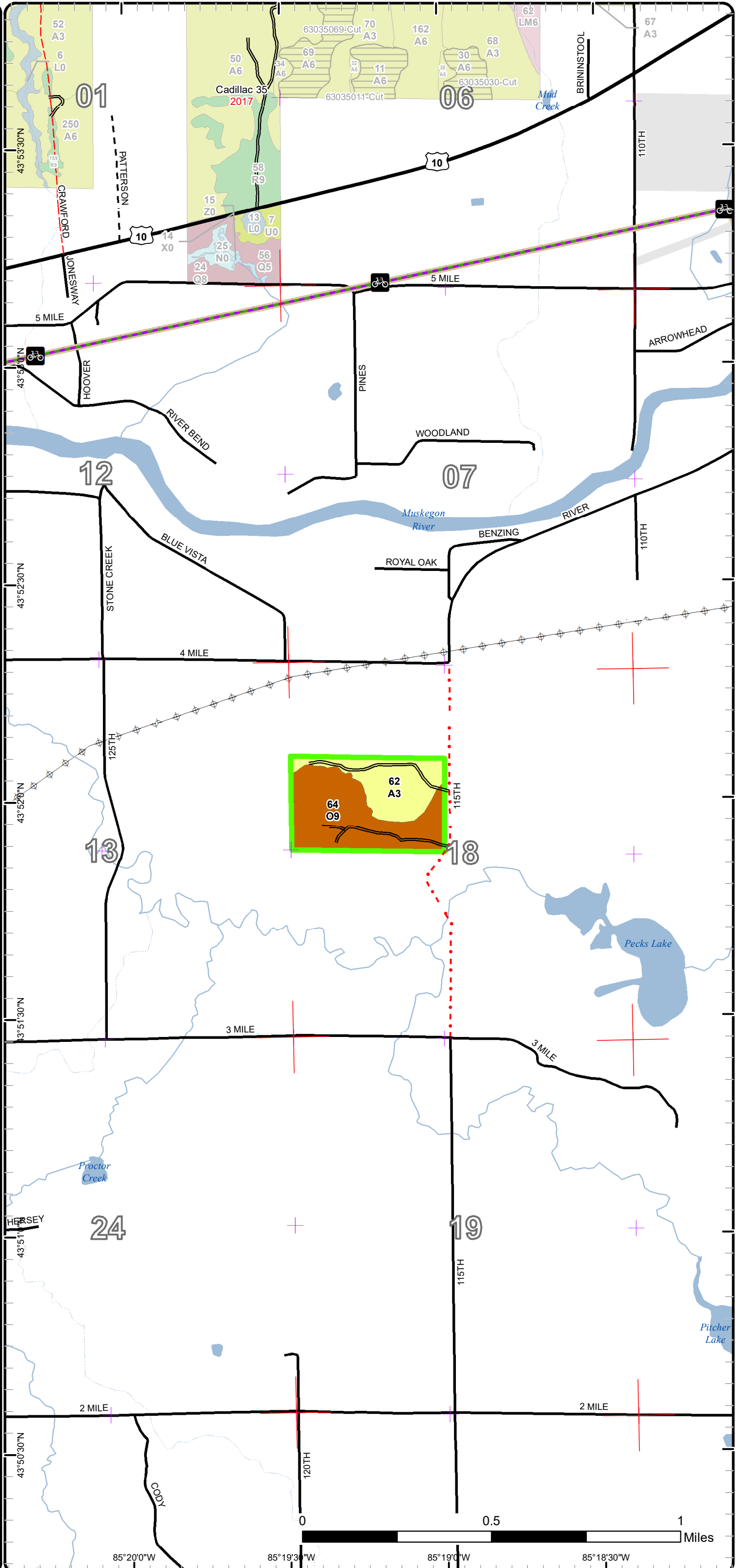
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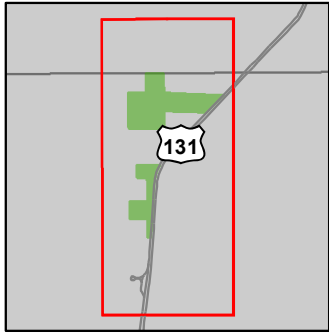
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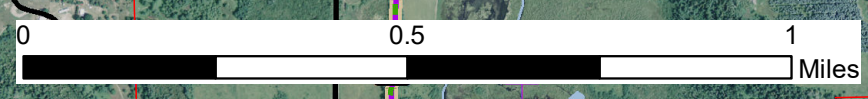
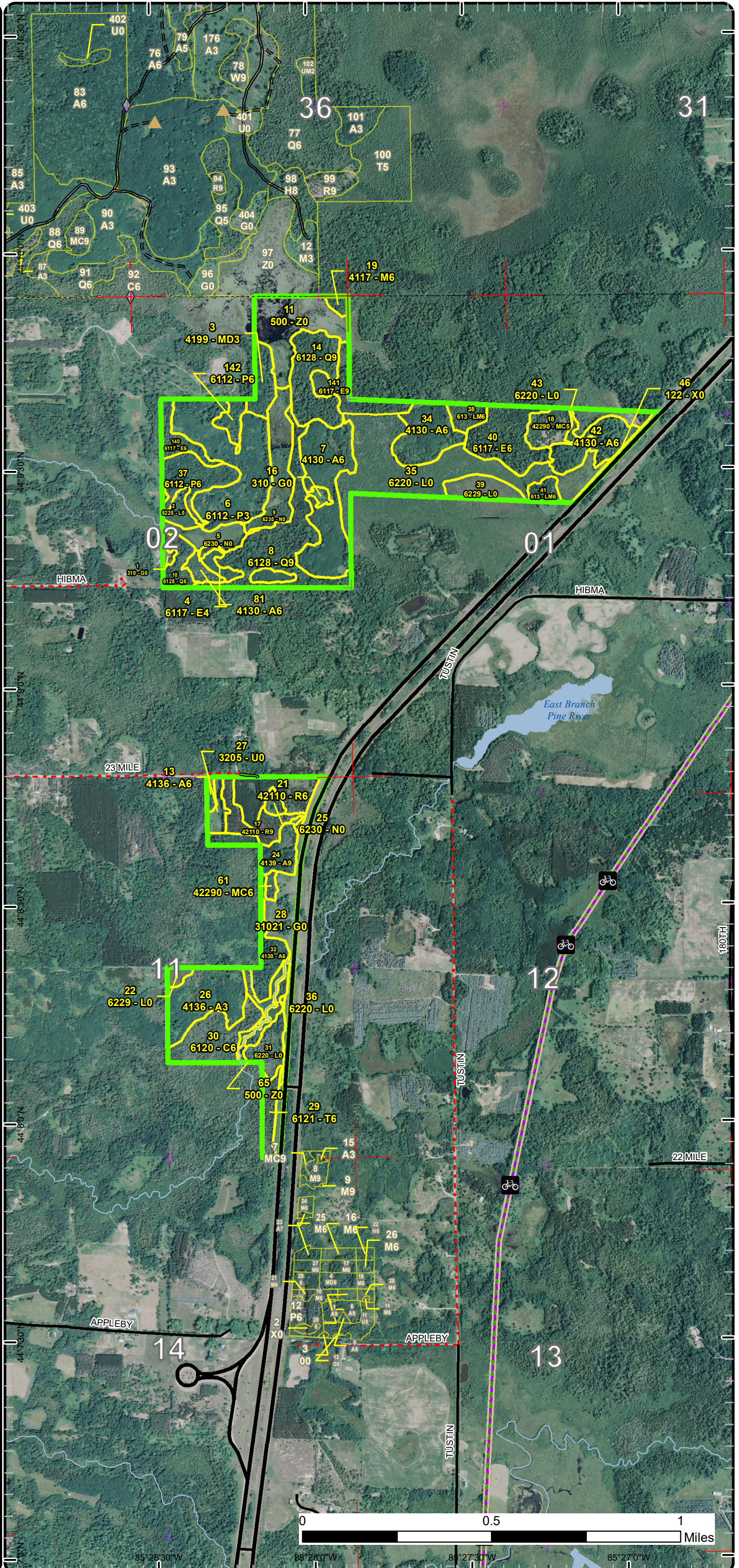
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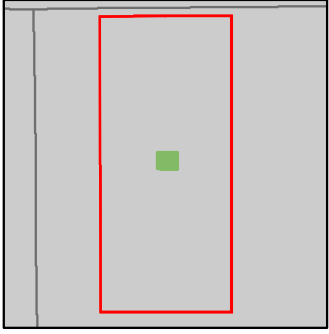
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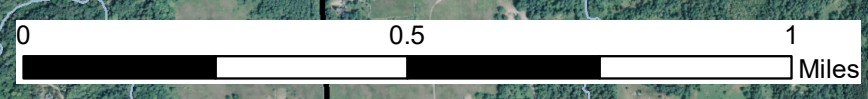
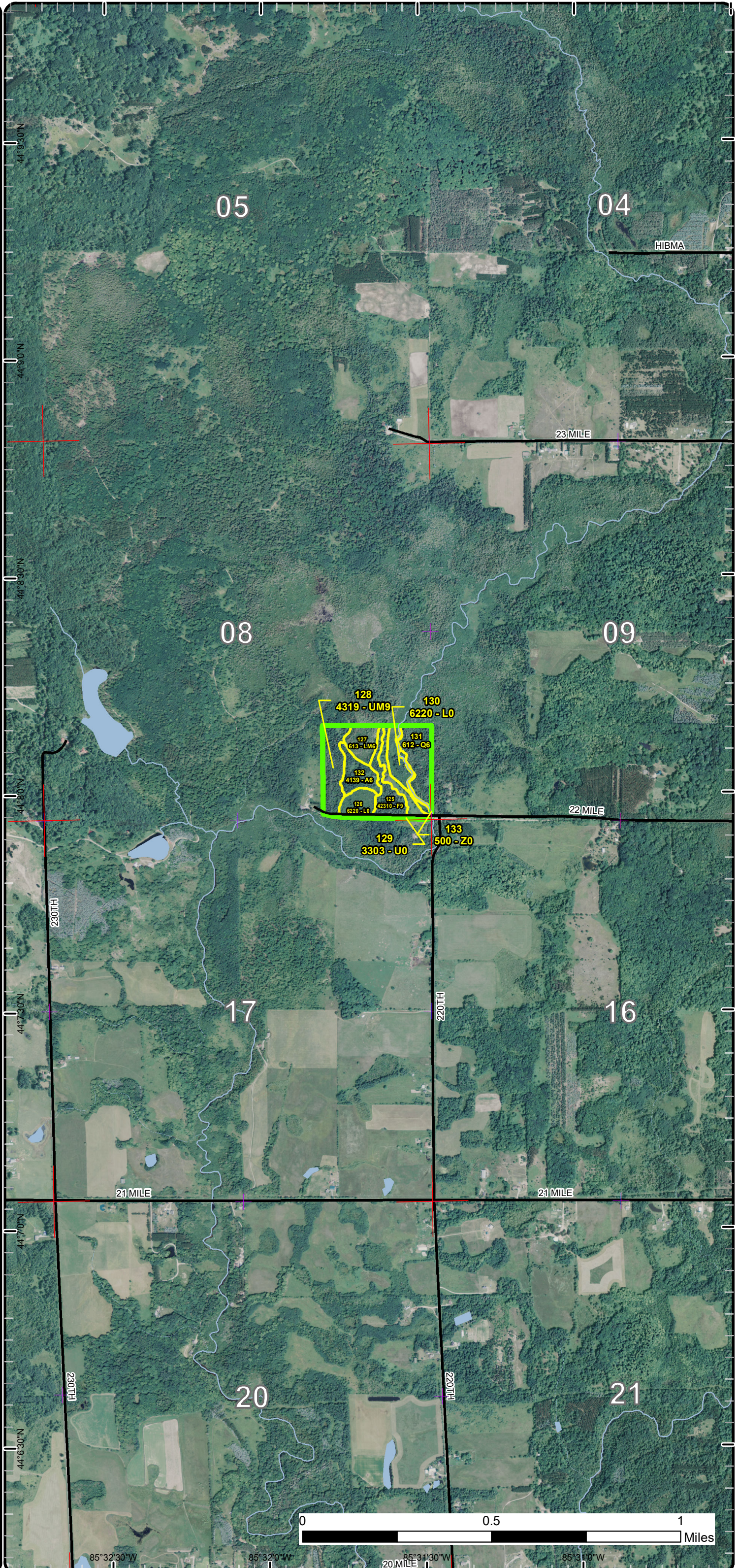
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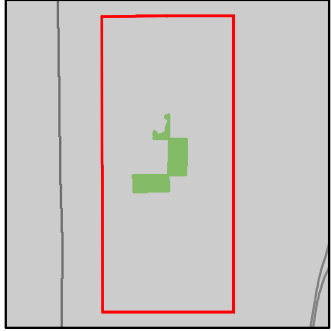


85° 32' 30\"/>

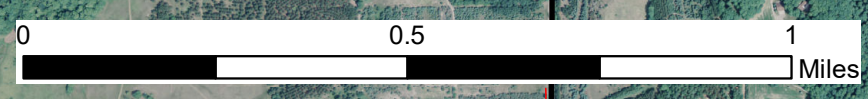
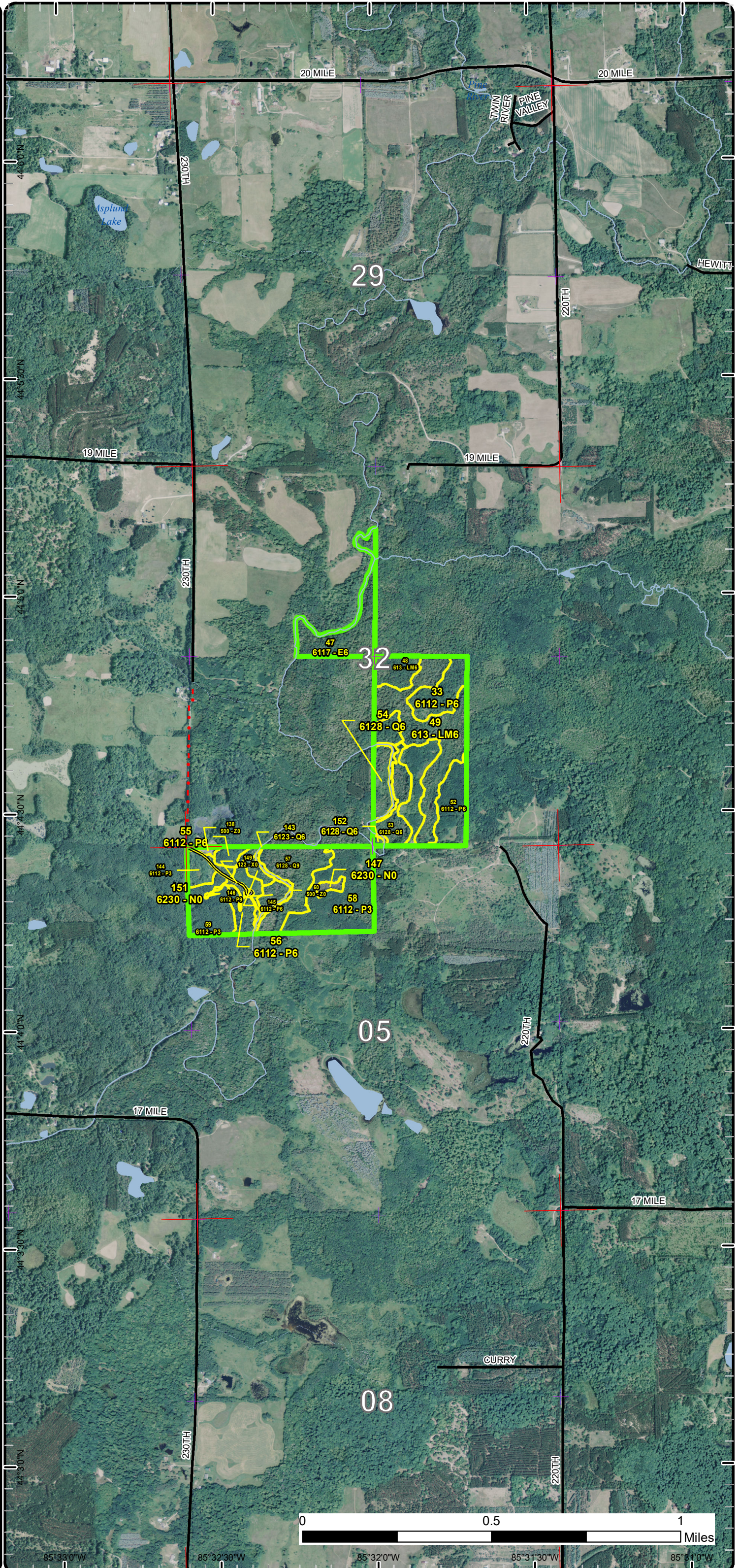
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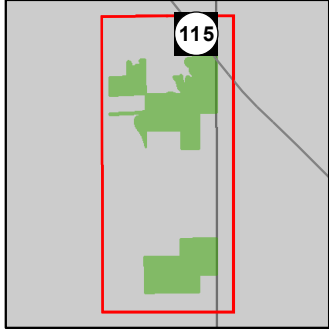


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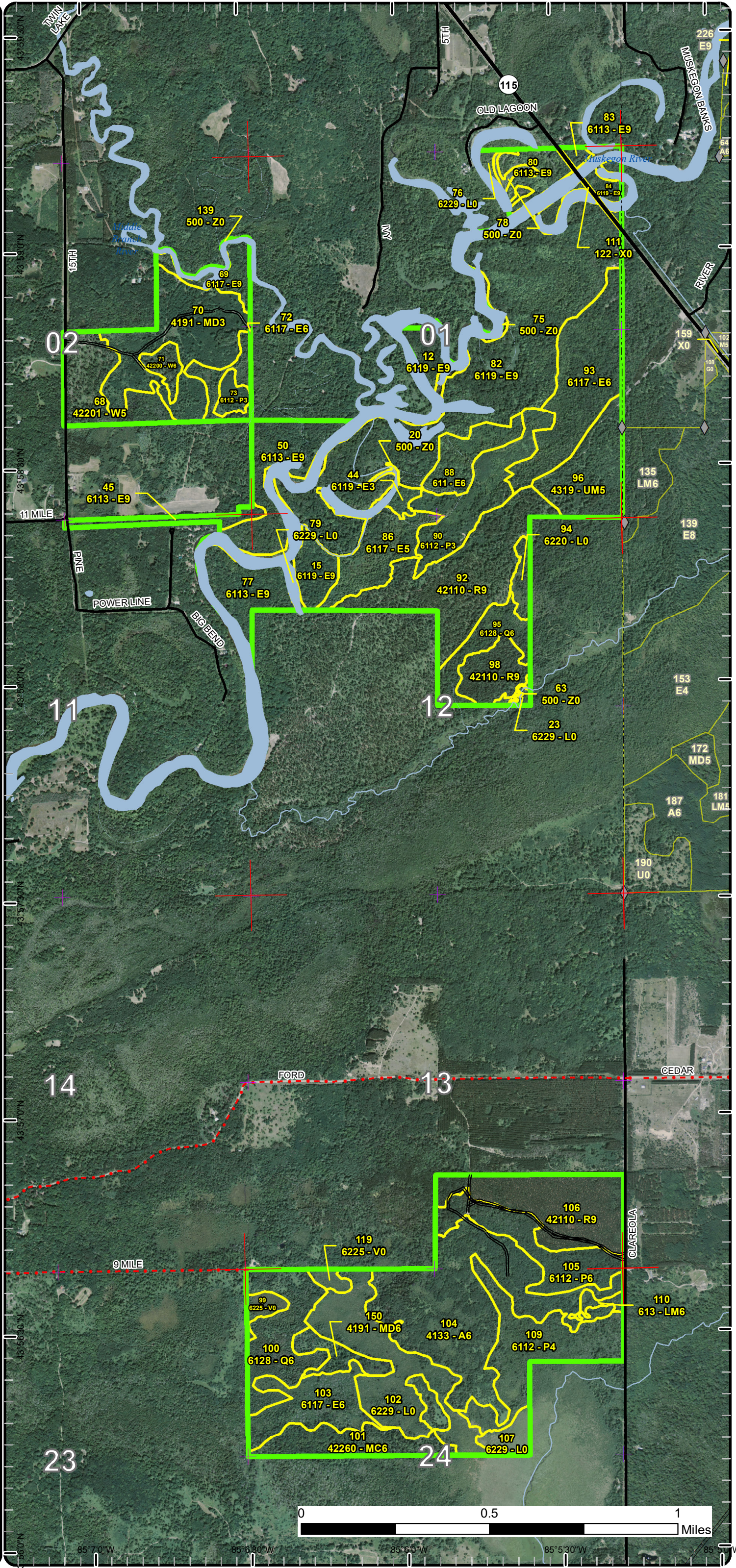
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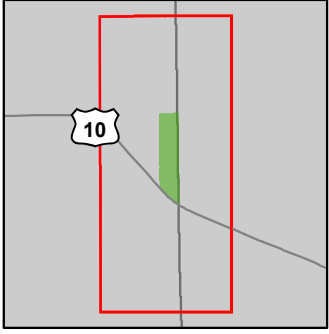
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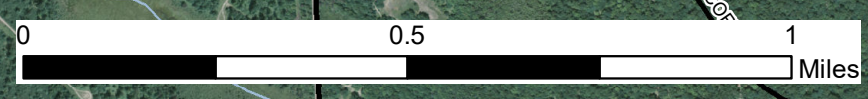
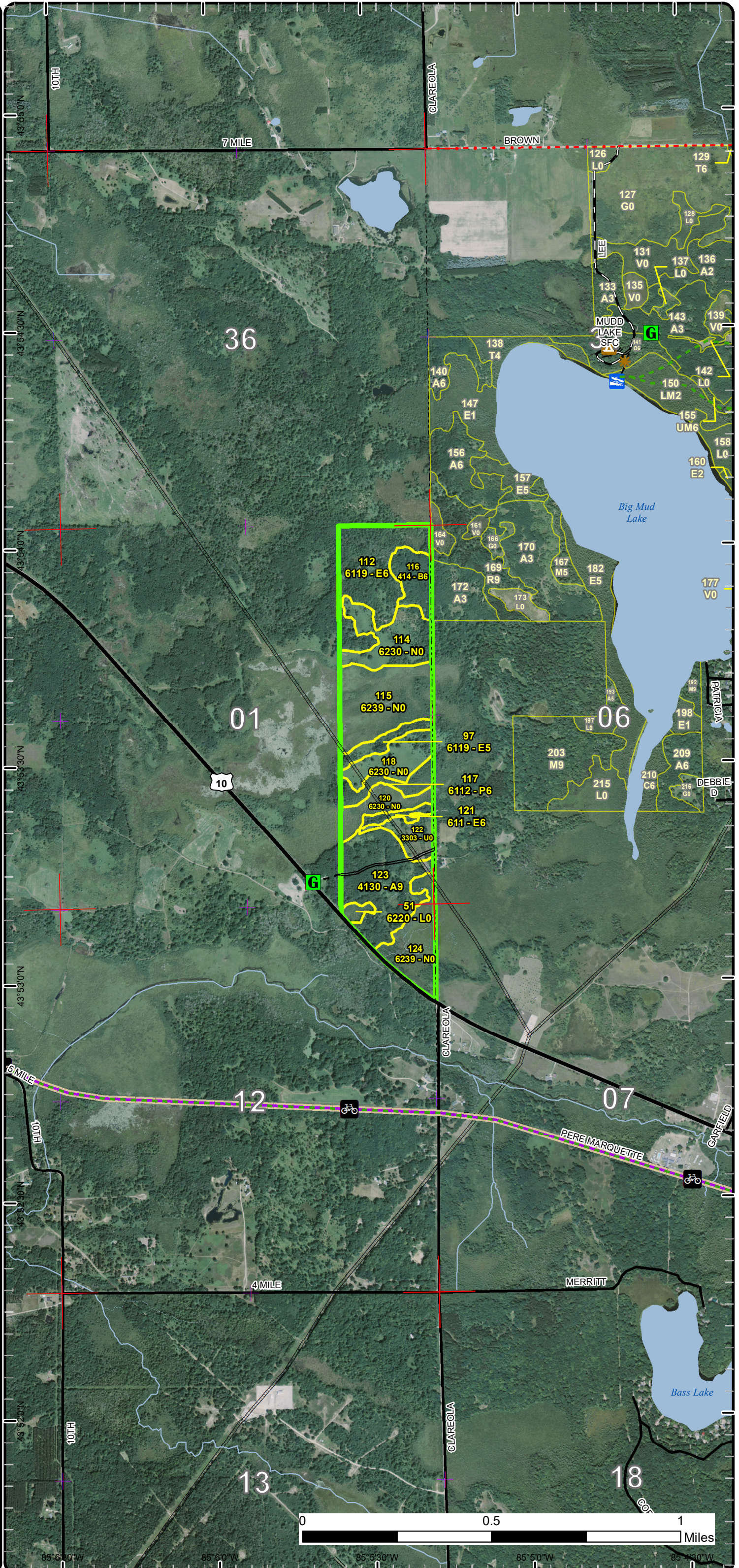
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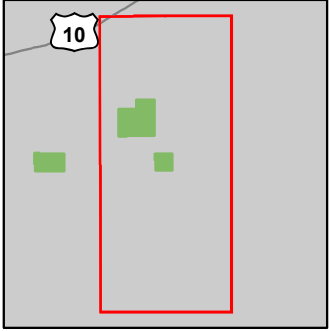
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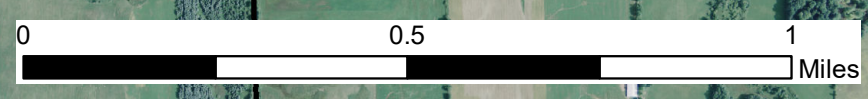
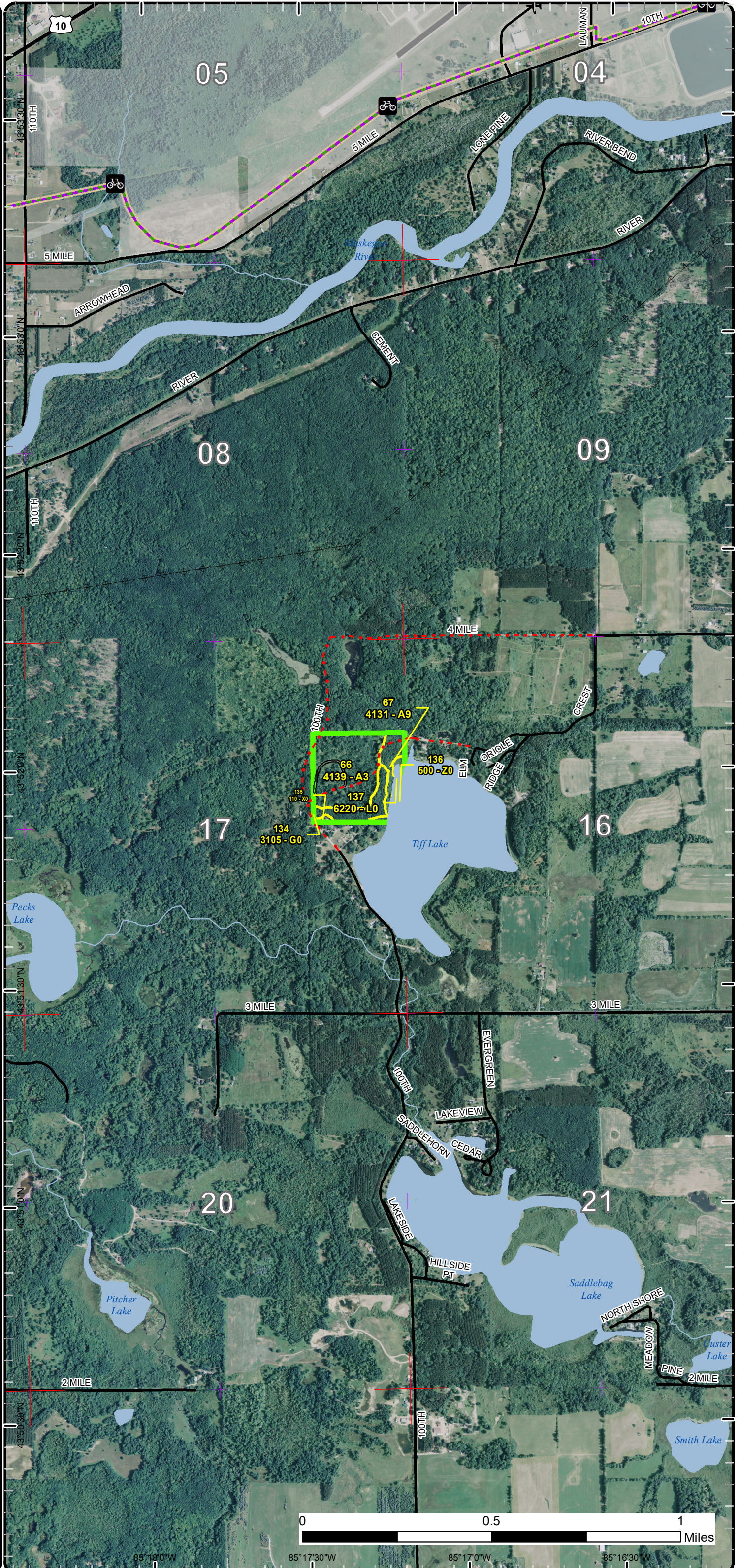
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- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- 🚲 Bike Trails
- 🚲 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Designated RailTrail
- ~ Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ✈ Airport
- ⊕ Powerline
- ⊕ Airports
- ⊕ Cities
- Compartment Boundary
- Stand Boundaries
- 413 - Aspen
- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub



85°18'0"W      85°17'30"W      85°17'0"W      85°16'30"W

# Stand Boundary Map

Compartment: 36

County: Osceola

Unit: Cadillac

Mgmt Area: Evert Block

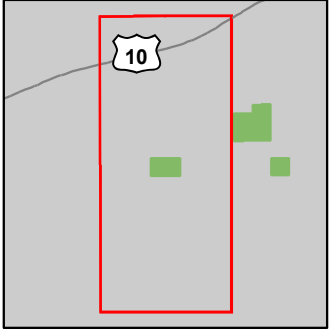
YOE: 2020

Acres: 1,933 GIS Calculated

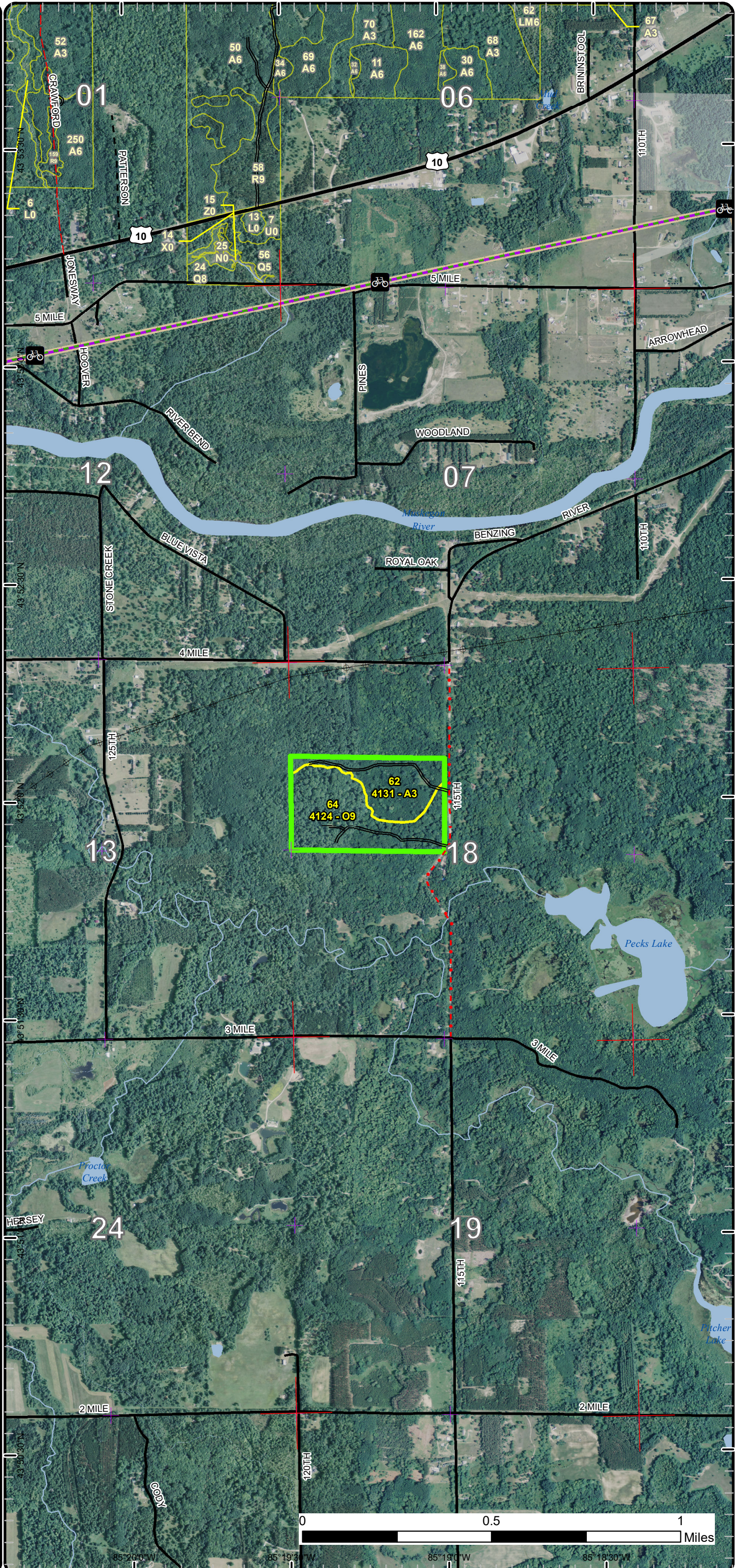
Examiner: Cheryl Nelson

Map Revised: 10/23/2018

Map Phase: Post - Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚲 Bike Trails
- 🚲 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ⊕ Powerline
- Cities
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen

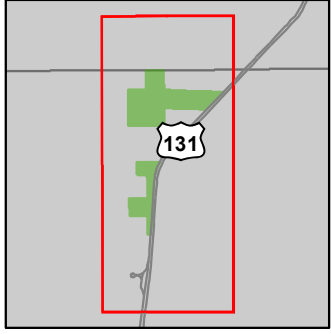




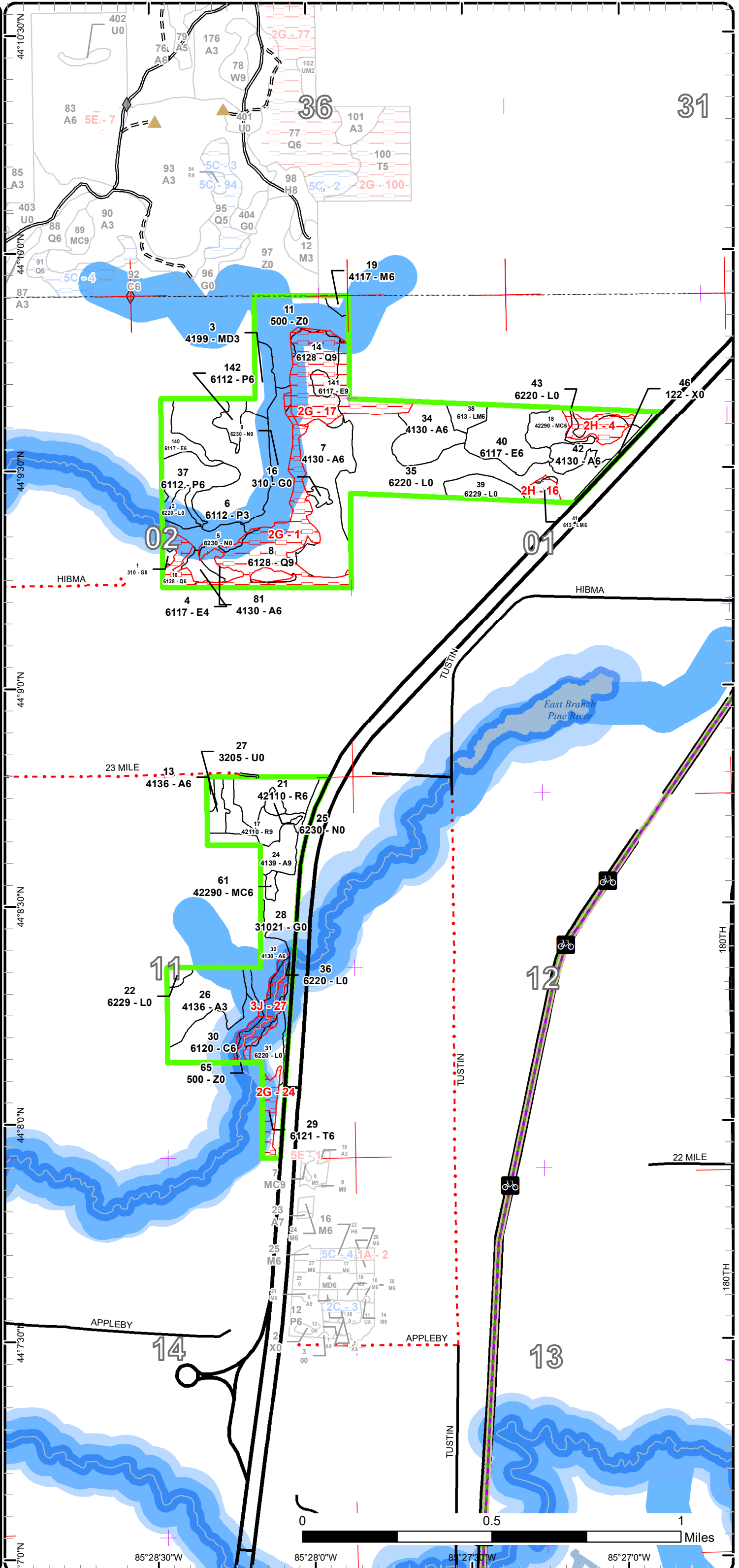
# Special Conservation Areas & Site Conditions Map

Compartment: 36

County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2020  
 Acres: 1,933 GIS Calculated  
 Examiner: Cheryl Nelson  
 Map Revised: 10/23/2018  
 Map Phase: Post - Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- 🚲 Bike Trails
- 🚲 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ▲ Berms
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Rail-Trail Corridor



31

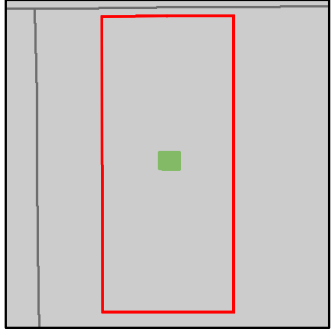
0 0.5 1 Miles

44°10'30"N 44°9'30"N 44°9'0"N 44°8'30"N 44°8'0"N 44°7'30"N 44°7'0"N 85°28'30"W 85°28'0"W 85°27'30"W 85°27'0"W

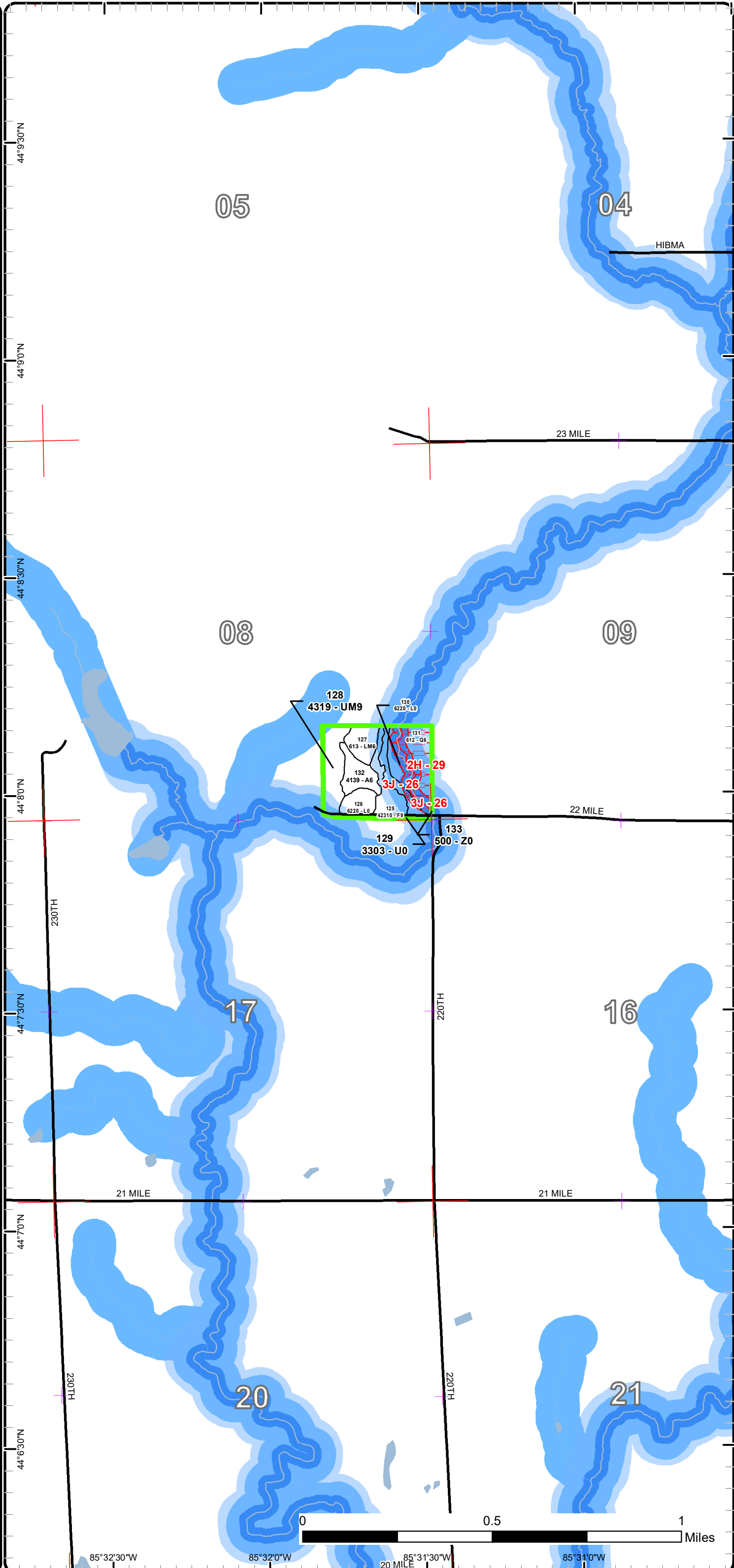
# Special Conservation Areas & Site Conditions Map

Compartment: 36

County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2020  
 Acres: 1,933 GIS Calculated  
 Examiner: Cheryl Nelson  
 Map Revised: 10/23/2018  
 Map Phase: Post - Review



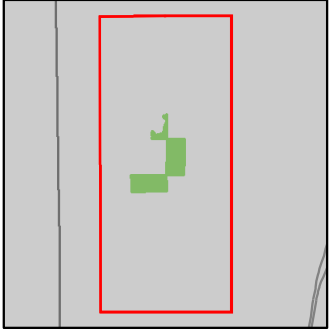
- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State / County - Paved Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer



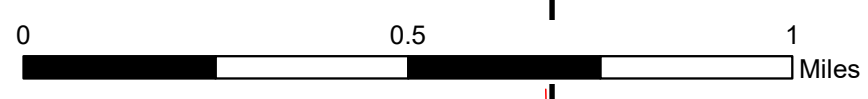
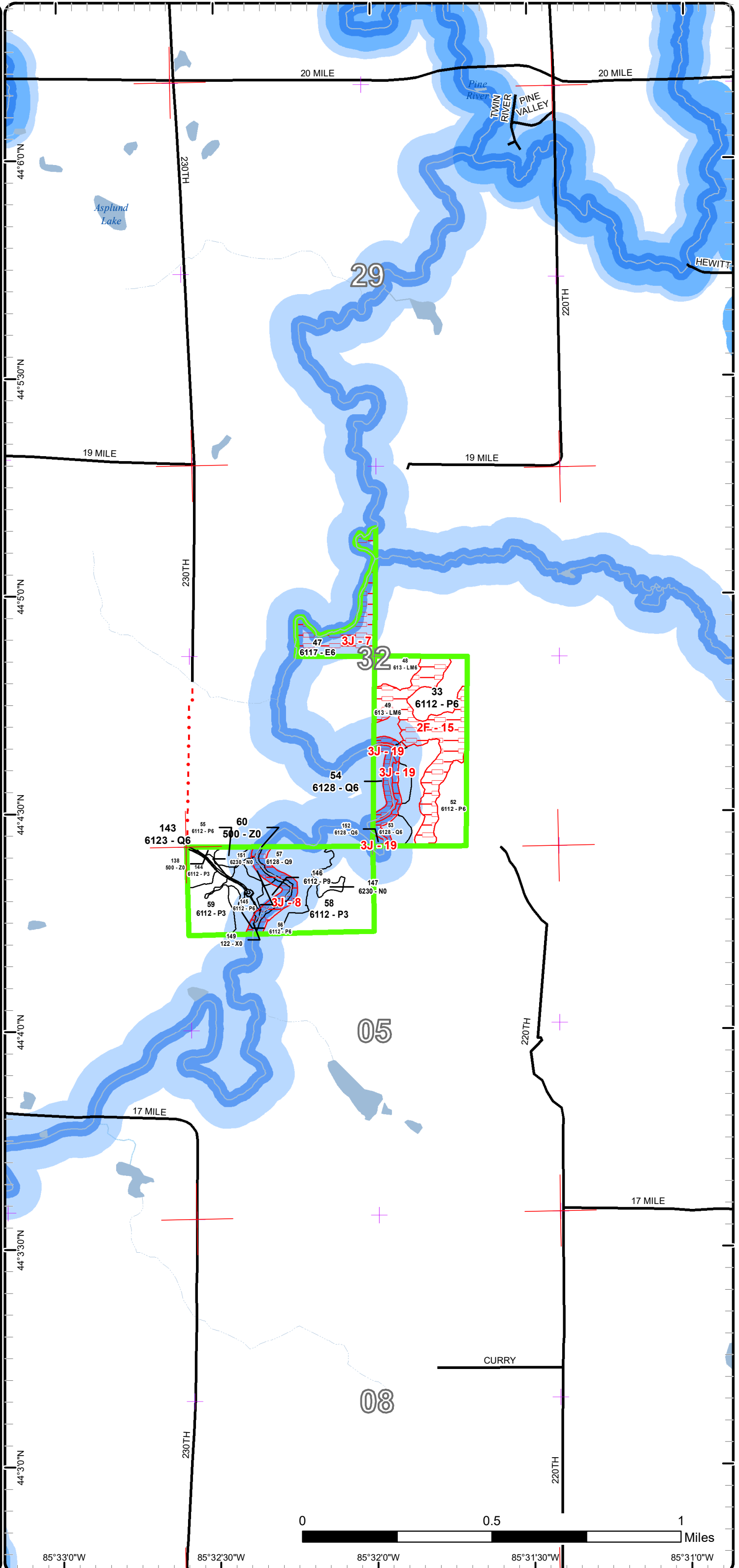
# Special Conservation Areas & Site Conditions Map

Compartment: 36

County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2020  
 Acres: 1,933 GIS Calculated  
 Examiner: Cheryl Nelson  
 Map Revised: 10/23/2018  
 Map Phase: Post - Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer



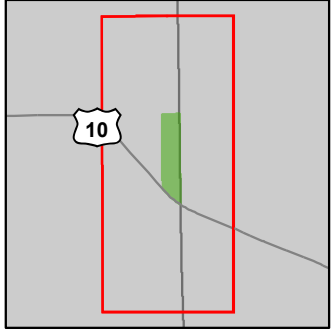
85°33'0"W    85°32'30"W    85°32'0"W    85°31'30"W    85°31'0"W



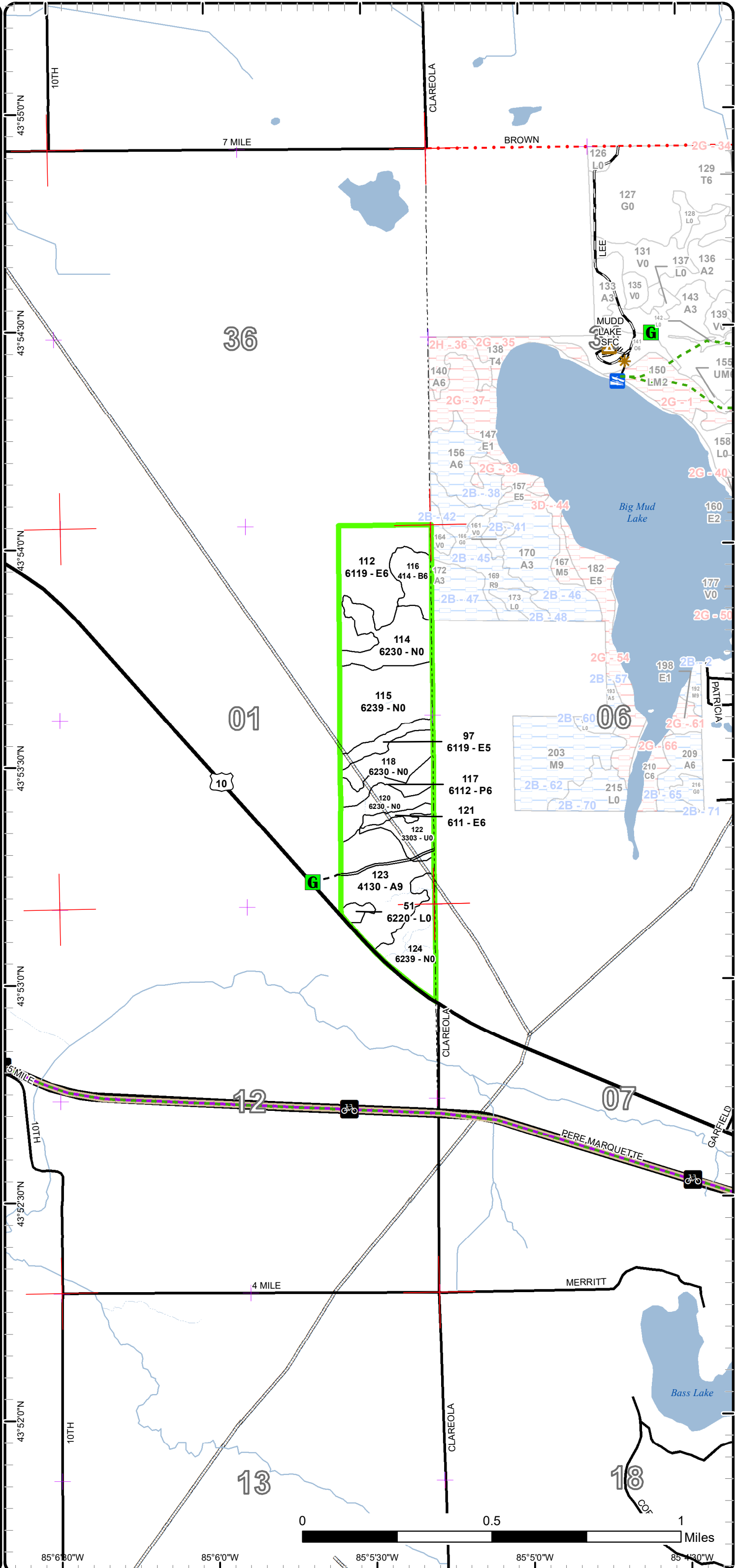
# Special Conservation Areas & Site Conditions Map

Compartment: 36

County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2020  
 Acres: 1,933 GIS Calculated  
 Examiner: Cheryl Nelson  
 Map Revised: 10/23/2018  
 Map Phase: Post - Review



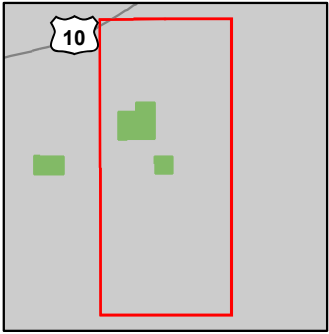
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- 🚲 Bike Trails
- 🚲 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Ski Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- G Gate
- 🚤 Boating Access Site
- 🏕️ Campground
- 🌟 Trailhead
- Pipeline
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- Rail-Trail Corridor



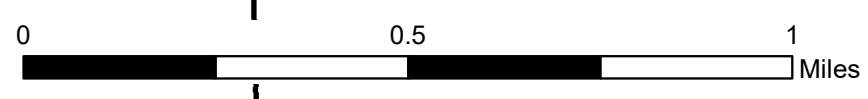
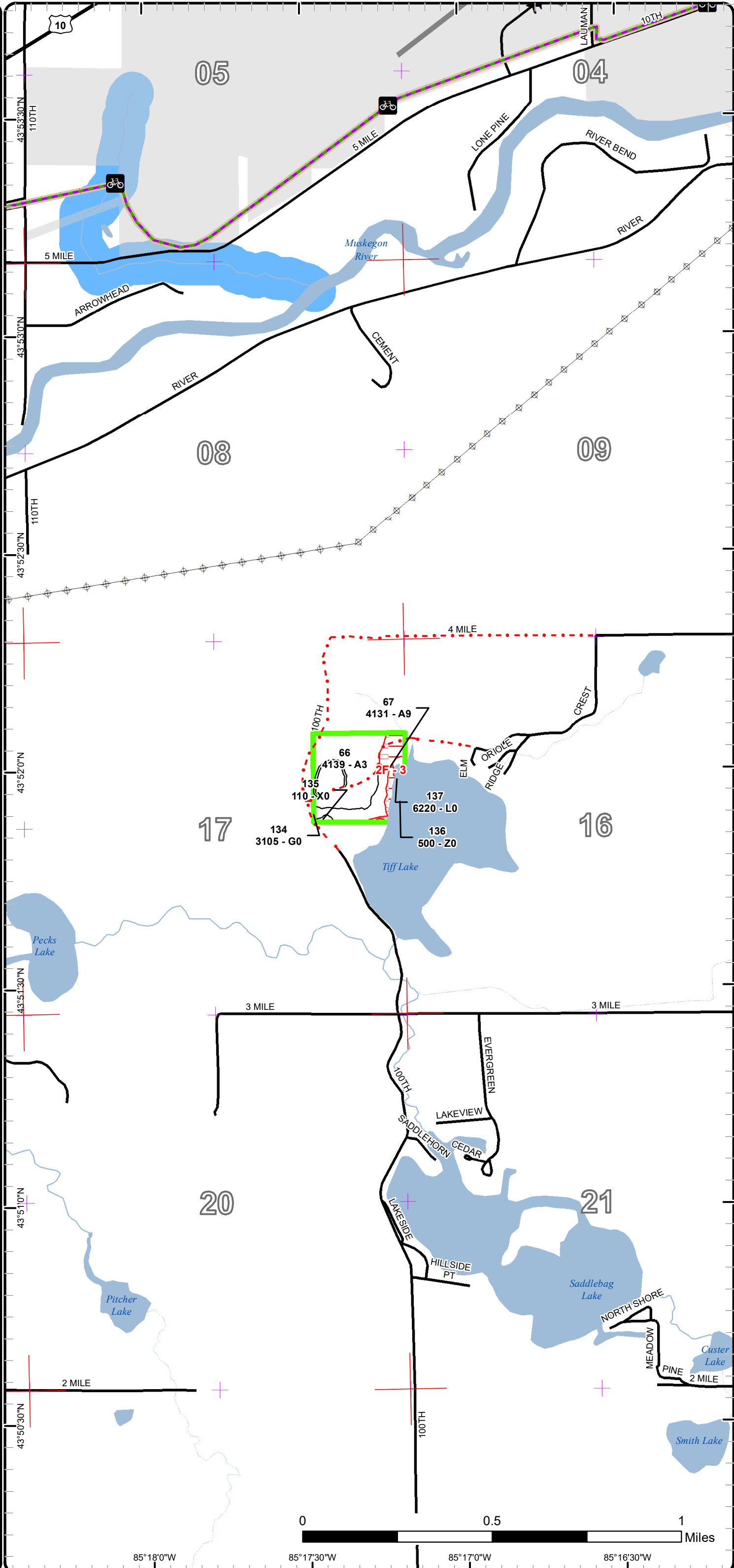
# Special Conservation Areas & Site Conditions Map

Compartment: 36

County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOY: 2020  
 Acres: 1,933 GIS Calculated  
 Examiner: Cheryl Nelson  
 Map Revised: 10/23/2018  
 Map Phase: Post - Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- Bike Trails
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ✈ Airport
- Powerline
- Airports
- Cities
- Compartment Boundary
- Unavailable
- 2F: Too steep
- Stand Boundaries
- SCA
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Rail-Trail Corridor

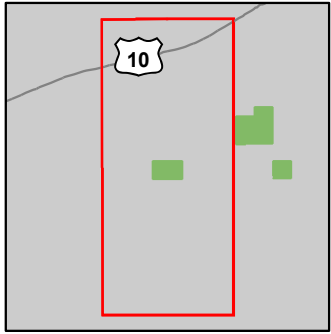


85°18'0"W      85°17'30"W      85°17'0"W      85°16'30"W

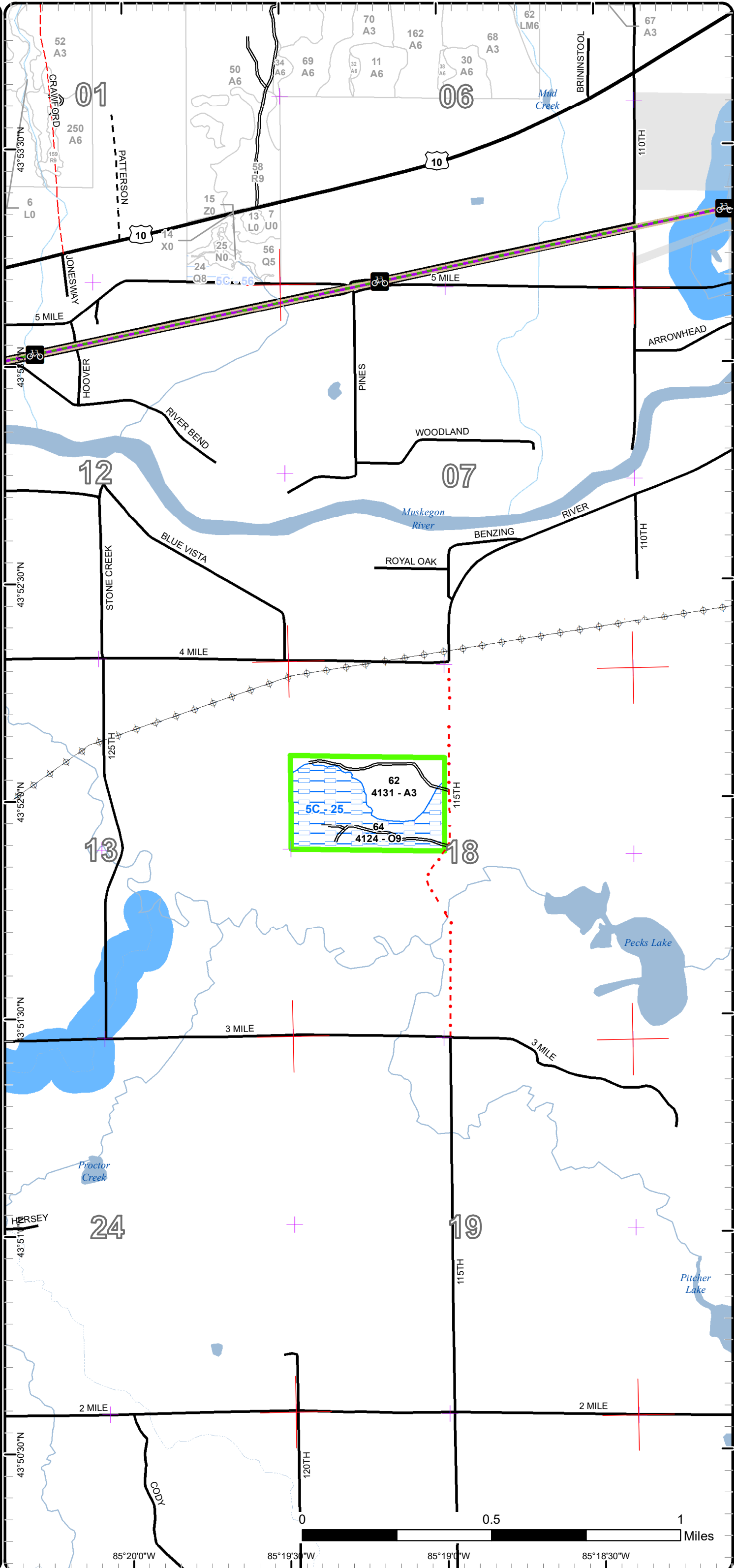
# Special Conservation Areas & Site Conditions Map

Compartment: 36

County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOE: 2020  
 Acres: 1,933 GIS Calculated  
 Examiner: Cheryl Nelson  
 Map Revised: 10/23/2018  
 Map Phase: Post - Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
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- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- 🚲 Bike Trails
- 🚲 Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ⊕ Powerline
- Cities
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Rail-Trail Corridor



# Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 36

Year of Entry 2020

Cheryl Nelson : Examiner



## Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	109	87	0	17	31	22	0	0	0	0	0	0	0	0	0	0	266
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Cedar	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	14
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	0	0	44	71	0	36	54	7	0	0	0	0	0	0	0	0	0	31	242
Lowland Conifers	0	0	0	0	0	33	0	37	0	51	14	0	0	0	0	0	0	0	135
Lowland Deciduous	0	0	0	0	0	0	51	37	83	34	115	0	0	0	0	0	0	153	473
Lowland Mixed Forest	0	0	0	0	0	0	3	17	0	27	0	0	0	0	0	0	0	0	47
Lowland Shrub	153	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	153
Marsh	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110
Mixed Upland Deciduous	0	0	51	0	0	6	0	0	0	9	0	0	0	0	0	0	0	0	66
Natural Mixed Pines	0	0	0	0	1	7	0	0	0	27	0	0	0	0	0	0	0	0	35
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Oak	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	40
Paper Birch	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	12	0	0	51	56	0	15	0	0	0	0	0	0	0	134
Tamarack	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	5
Upland Mixed Forest	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	36
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Spruce/Fir	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Water	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
White Pine	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	0	0	32
<b>Total</b>	<b>388</b>	<b>0</b>	<b>213</b>	<b>158</b>	<b>13</b>	<b>99</b>	<b>139</b>	<b>247</b>	<b>139</b>	<b>207</b>	<b>146</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>184</b>	<b>1930</b>





## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 36

Total Compartment Acres: 1,933

Commercial Harvest - 113  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	45	0	0	0	0	0	0	0	0	45
Red Pine	0	0	0	0	0	54	0	0	0	54
Upland Mixed Forest	8	0	0	0	0	0	0	0	0	8
Upland Spruce/Fir	6	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>59</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>54</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>113</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	113	0	0	0	0	0	5	0	0	119
Next Step	0	0	0	0	0	0	59	0	0	59
<b>Total</b>	<b>113</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>64</b>	<b>0</b>	<b>0</b>	<b>178</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
21	63036021-Cut	11.7	42110 - Planted Red Pine	Poletimber Well	36	201+	Harvest	Systematic Thinning	4221 - Natural Red Pine	Even-Aged	Approved Proposal

**Habitat Cut: No****Site Condition:**

Prescription Remove approximately 1/3rd of basal area.

Specs:

Next Step

Treatments:

Acceptable Planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

24	63036024-Cut	8.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	60	Unspec ified	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all aspen and red maple. Use grouse spec in timber sale. Retention focused along drainage that separates the stand north and south.

Specs: Crane mat or portable bridge will be necessary to access southern portion of stand.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen and other upland deciduous species with a conifer component.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

106	63036106-Cut	42.6	42110 - Planted Red Pine	Sawtimber Well	64	171- 200	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Remove approximately 1/3rd of the existing basal area.

Specs:

Next Step

Treatments:

Acceptable Planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

123	63036123-Cut	31.2	4130 - Aspen	Sawtimber Well	57	141- 170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Approved Proposal
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**Habitat Cut: No****Site Condition:**

Prescription Cut all species. Focus retention along drainage and stand 51. If access is denied across private a portable bridge would be needed to cross the

Specs: ditch along US-10.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with a component of other deciduous species.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
125	63036125-Cut	5.7	42310 - Planted Spruce	Sawtimber Well	60	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Cut all species. Focus retention along the lowland areas to the west of stand.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of aspen, red maple, and other deciduous species with a conifer component.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/1 /2019									
128	63036128-Cut	8.1	4319 - Mixed Upland Forest	Sawtimber Well	60	51-80	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut. No retention due to small acreage size.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of upland deciduous and coniferous species.											
<u>Regen:</u>											
<u>Other</u> Use understory shrub protection and grouse spec in timber sale.											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/1 /2019									
132	63036132-Cut	5.0	4139 - Aspen, Mixed Deciduous	Poletimber Well	45	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Approved Proposal
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u> Clearcut. No retention due to small acreage size.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of aspen with other deciduous species. Some conifer component is acceptable.											
<u>Regen:</u>											
<u>Other</u> Use understory shrub protection and grouse spec in timber sale.											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/1 /2019									
134	63036134-Monitor	5.4	3105 - Mixed Upland Herbaceous	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4191 - Mixed Upland Deciduous with Conifer	Two-Aged	Draft Field Boundary
<b>Habitat Cut: No</b>			<b>Site Condition:</b>								
<u>Prescription</u>											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen with mixed upland species.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/3 /2022									



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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Total Treatment Acreage Proposed: 118.6

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
Cheryl Nelson : Examiner

Compartment: 36  
Year of Entry: 2020

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2I	5C	2F	2G	2H	3J
266	230	0	36	Aspen			5	4	26	1
7	7	0	0	Bog						
14	13	0	1	Cedar						1
25	25	0	1	Herbaceous Openland						1
12	11	0	1	Low-Density Trees						1
243	131	0	111	Lowland Aspen/Balsam Poplar				108		3
136	68	0	68	Lowland Conifers				50	6	12
473	69	8	397	Lowland Deciduous	8		30	298	32	37
47	17	0	30	Lowland Mixed Forest			27		3	
153	95	0	58	Lowland Shrub				0	50	9
110	89	0	21	Marsh				21		
67	57	0	9	Mixed Upland Deciduous				9		
35	28	0	7	Natural Mixed Pines					7	
2	0	0	2	Northern Hardwood				2		
40	0	40	0	Oak		40				
9	9	0	0	Paper Birch						
133	117	0	16	Red Pine				1	15	
5	0	0	5	Tamarack				5		
37	37	0	0	Upland Mixed Forest						
3	3	0	0	Upland Shrub						
6	6	0	0	Upland Spruce/Fir						
5	5	0	0	Urban						0
73	51	0	22	Water				20		2
32	32	0	0	White Pine						
1,933	1,101	48	784	Total Forested Acres	8	40	62	519	137	65
	57%	2%	41%	Relative Percent						

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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2	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	249	2F: Too steep	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
<b>Comments:</b>							
3	<b>Unavailable</b>	<b>2F: Too steep</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	15	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<b>Comments:</b> Water quality / BMPs for the Pine River. No legal access.							
8	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Water quality / BMPs for the Pine River.							
9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>2I: Survey needed</b>	8	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walk in access to west side of the Muskegon River.							

## Report 4 – Site Conditions

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12	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	41	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	11	2F: Too steep	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>2F: Too steep</b>	27	2G: Too wet (sensitive soils, does not include access issues)	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified
<b>Comments:</b> No legal access.							
16	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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17	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	27	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Water quality / BMPs for the Pine River.							
21	<b>Unavailable</b>	<b>2F: Too steep</b>	30	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	9	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Inaccessible due to being an island surrounded by the Muskegon River.							
24	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	40	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand treated in 2001. Basal area between 1-50, allow regeneration to grow.							

## Report 4 – Site Conditions

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26	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Water quality / BMPs for the Pine River.							
27	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Water quality / BMPs for the Pine River.							
28	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand blocked by Muskegon River.							
29	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Mgt. Unit

Compartment: #Type!

Year of Entry:



### Report 5 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
<b>Comments</b>				

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
 HCVA = High Conservation Value Area  
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4199 - Other Mixed Upland Deciduous	Sapling Well	6.3	45	1-50	Hardwoods with conifer component. Small lowland component to southwest.
4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	2.6	55	Unspecified	
6	6112 - Lowland Aspen	Sapling Well	33.8	13	Unspecified	Stand treated timber sale #63-035-04-01, "Habitat Aspen". Corduroy road was used to cross low, wet area.
7	4130 - Aspen	Poletimber Well	26.8	16	1-50	Stand treated wildlife habitat cut #W-63-494 in 2002. Specs were to cut all trees 2" and over within boundary line. Cutting of cedar, hemlock, and large white pine was not allowed.
8	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	28.4	82	Unspecified	
10	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.7	80	81-110	
12	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	8.5	90	51-80	
13	4136 - Aspen, Mixed Conifer	Poletimber Well	1.2	60	51-80	A couple of scotch pine in stand.
14	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	16.8	80	141-170	
15	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	10.7	90	51-80	
17	42110 - Planted Red Pine	Sawtimber Well	8.2	60	141-170	Stand treated timber sale #63-015-10-01. C36 Red Pine & Oak".
18	42290 - Natural Mixed Pine	Poletimber Medium	7.0	40	1-50	
19	4117 - Mixed N. Hardwood - Pine	Poletimber Well	1.6	90	81-110	
21	42110 - Planted Red Pine	Poletimber Well	11.7	36	201+	FTP could not be found. Rows are straight.
24	4139 - Aspen, Mixed Deciduous	Sawtimber Well	8.9	60	Unspecified	
26	4136 - Aspen, Mixed Conifer	Sapling Well	18.0	16	Immature	Stand habitat cut in winter of 2002/2003.
29	6121 - Tamarack	Poletimber Well	5.1	80	Unspecified	Appears to have most of the same qualities as stand 30.

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## Cadillac Mgt. Unit

## Report 7 – Forested Stands

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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	6120 - Lowland Cedar	Poletimber Well	14.4	80	51-80	
32	4130 - Aspen	Poletimber Well	7.0	60	51-80	
33	6112 - Lowland Aspen	Poletimber Well	11.9	26	51-80	
34	4130 - Aspen	Poletimber Well	13.9	16	1-50	Stand treated wildlife habitat cut per FTP# W-63-499 in 2002. Specs were to cut all trees 2" and over within boundary line. Cutting of cedar, hemlock, and large white pine was not allowed.
37	6112 - Lowland Aspen	Poletimber Well	11.5	50	Unspecified	
38	613 - Lowland Mixed Forest	Poletimber Well	4.0	60	1-50	
40	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	16.3	60	Unspecified	
41	613 - Lowland Mixed Forest	Poletimber Well	2.8	60	1-50	
42	4130 - Aspen	Poletimber Well	12.0	40	1-50	
44	6119 - Mixed Lowland Deciduous Forest	Sapling Well	3.2	13	Immature	Stand treated per Wildlife habitat cut #W-63-511 in winter 2004/2005.
45	6113 - Lowland Maple	Sawtimber Well	7.6	95	51-80	Hardwoods with occasional conifer.
47	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	15.3	65	51-80	
48	613 - Lowland Mixed Forest	Poletimber Well	5.7	65	1-50	
49	613 - Lowland Mixed Forest	Poletimber Well	27.3	80	81-110	Old railroad grade runs through stand.
50	6113 - Lowland Maple	Sawtimber Well	29.8	95	51-80	
52	6112 - Lowland Aspen	Poletimber Well	18.8	25	51-80	Stand treated timber sale #63-008-92-01, "Pine River Bluffs". Cut in 1993.
53	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.5	60	51-80	

Report 7 – Forested Stands

Compartment: 36  
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Stand	Cadillac Mgt. Unit		Acres	Stand Age	BA Range	General Comments:
	Level 4 Cover Type	Size Density				
54	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	5.4	60	Unspecified	
55	6112 - Lowland Aspen	Poletimber Well	2.2	26	1-50	Stand was treated in 1992. Good regeneration. Few white pine.
56	6112 - Lowland Aspen	Poletimber Well	4.0	24	1-50	
57	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	14.4	90	81-110	
58	6112 - Lowland Aspen	Sapling Well	23.6	25		Stand treated timber sale #63-008-92-01, "Pine River Bluffs". Cut in 1993.
59	6112 - Lowland Aspen	Sapling Well	10.2	28	Immature	Stand was treated commercially in 1990. Paperwork was found but there were no sale numbers available.
61	42290 - Natural Mixed Pine	Poletimber Well	1.2	35	51-80	
62	4131 - Aspen, Oak	Sapling Well	23.9	17	Immature	Stand treated timber sale #63-041-00-01, "Crying Hawk Aspen". Sale cut in 2001.
64	4124 - Red with White Oak	Sawtimber Well	40.4	80	1-50	Stand treated per timber sale #63-045-00-01, "Big Stone Thinning". Cut in 2001.
66	4139 - Aspen, Mixed Deciduous	Sapling Well	21.6	17	Unspecified	Occasional overstory white pine. Stand treated timber sale #63-095-01-01, "Tiff Lake Aspen".
67	4131 - Aspen, Oak	Sawtimber Well	5.0	65	51-80	Diameters become slightly smaller south of road.
68	42201 - Natural White Pine, Mixed Deciduous	Poletimber Medium	26.5	65	1-50	Stand treated timber sale #63-015-10-01, "C36 Red Pine & Oak".
69	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	10.5	75	51-80	
70	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	51.0	18	1-50	Stand treated timber sale #63-057-00-01, "Middle Branch Aspen". Cut in 2001.
71	42200 - Natural White Pine	Poletimber Well	5.5	65	81-110	Stand treated timber sale #63-015-10-01, "C36 Red Pine & Oak".
72	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	9.5	50	Unspecified	
73	6112 - Lowland Aspen	Sapling Well	4.7	18	Unspecified	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
77	6113 - Lowland Maple	Sawtimber Well	24.8	95	51-80	
80	6113 - Lowland Maple	Sawtimber Well	11.3	90	51-80	
81	4130 - Aspen	Poletimber Well	4.5	16	1-50	Stand treated wildlife habitat cut #W-63-488 in 2002. Specs were to cut all trees 2" and over within boundary line. Cutting of cedar, hemlock, and large white pine was not allowed.
82	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	150.1	90	141-170	Stand is a lowland complex with upland areas scattered throughout.
83	6113 - Lowland Maple	Sawtimber Well	1.8	87	81-110	
84	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	6.8	85	Unspecified	
86	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	22.4	96	51-80	
88	611 - Lowland Deciduous Forest	Poletimber Well	15.8	70	81-110	Very hilly terrain.
90	6112 - Lowland Aspen	Sapling Well	30.8	15	Immature	Stand treated wildlife habitat cut per FTP# W-63-511 in winter 2004/2005. Specs: Cut all trees to a 2" dbh. Do not cut oak or cedar.
92	42110 - Planted Red Pine	Sawtimber Well	55.7	76	111-140	Stand treated timber sale #63-015-10-01, "C36 Red Pine & Oak". Previous: Stand treated timber sale #63-044-00-01, "Muskegon Ridges". Cut in 2003. Specs: Cut only aspen, red maple, balsam fir, paper birch, and jack pine tree species.
93	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	46.7	70	81-110	
95	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.9	60	51-80	
96	4319 - Mixed Upland Forest	Poletimber Medium	28.5	60	51-80	
97	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	5.4	60	Unspecified	
98	42110 - Planted Red Pine	Sawtimber Well	14.9	95	111-140	2008 Comment: This stand is inaccessible for harvest. It is an island in the marsh that makes up the majority of this compartment. Also there is privately held land on three sides the amount of line work coupled with size and wetness of the surrounding swamp make a harvest on this site impractical.





Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	31.2	45	Unspecified	
42260 - Natural Pine, Mixed Deciduous	Poletimber Well	26.8	85	Unspecified	
6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	25.7	85	Unspecified	
4133 - Aspen, Mixed Pine	Poletimber Well	86.6	26	1-50	Stand treated timber sale #63-007-92-01, "Dog Leg". Cut in 1992.
6112 - Lowland Aspen	Poletimber Well	28.7	46	81-110	
42110 - Planted Red Pine	Sawtimber Well	42.6	64	171-200	Stand treated timber sale #63-015-10-01, "C36 Red Pine & Oak".
6112 - Lowland Aspen	Poletimber Poor	41.0	50	1-50	Dead and dying ash and elm.
613 - Lowland Mixed Forest	Poletimber Well	2.9	50	1-50	
6119 - Mixed Lowland Deciduous Forest	Poletimber Well	30.2	50	Unspecified	
414 - Other Upland Deciduous	Poletimber Well	9.3	16	51-80	Treated in 2002.
6112 - Lowland Aspen	Poletimber Well	7.3	45	51-80	
611 - Lowland Deciduous Forest	Poletimber Well	3.0	50	51-80	
4130 - Aspen	Sawtimber Well	31.2	57	141-170	
42310 - Planted Spruce	Sawtimber Well	5.7	60	81-110	Ring count = 48 (~10" dbh), added 12 years to reach dbh on average site.
613 - Lowland Mixed Forest	Poletimber Well	4.4	60	51-80	
4319 - Mixed Upland Forest	Sawtimber Well	8.1	60	51-80	
612 - Lowland Coniferous Forest	Poletimber Well	8.3	60	81-110	
4139 - Aspen, Mixed Deciduous	Poletimber Well	5.0	45	51-80	

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Cadillac Mgt. Unit

## Report 7 – Forested Stands

Compartment: 36  
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
140	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.7	55	51-80	
141	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	9.6	70	141-170	
142	6112 - Lowland Aspen	Poletimber Well	3.8	68	1-50	
143	6123 - Lowland Fir	Poletimber Well	2.0	45	Unspecified	
144	6112 - Lowland Aspen	Sapling Well	5.9	14	Unspecified	Stand treated timber sale #63-048-05-01, "Shoeless Aspen". Cut in 2006.
145	6112 - Lowland Aspen	Poletimber Well	1.8	50	81-110	
146	6112 - Lowland Aspen	Sawtimber Well	2.7	65	Unspecified	
150	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.2	85	51-80	
152	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	0.4	78	Unspecified	



Stand	Cover Type	Acres	Managed Site	General Comments:
1	310 - Herbaceous Openland	0.8	No	
2	6220 - Alder/willow	3.8	No	
5	6230 - Cattail	6.5	No	
9	6230 - Cattail	14.4	No	
11	500 - Water	19.9	No	Water with cattails.
16	310 - Herbaceous Openland	1.2	No	
20	500 - Water	3.8	No	
22	6229 - Mixed lowland shrub	1.7	No	
23	6229 - Mixed lowland shrub	2.0	No	Mixed lowland brush with areas of lowland hardwoods.
25	6230 - Cattail	1.7	No	
27	3205 - Mixed Upland Shrub	3.2		Stand treated timber sale #63-015-10-01. "C36 Red Pine & Oak"
28	31021 - Cool Season Grass	17.6	No	Occasional tree/shrub. Two small pockets of quaking aspen, balsam fir, and black cherry. Autumn olive planted per Wildlife FTP# W-63-372 in the early 1990's.
31	6220 - Alder/willow	7.1	No	
35	6220 - Alder/willow	42.8	No	
36	6220 - Alder/willow	6.7	No	
39	6229 - Mixed lowland shrub	6.7	No	
43	6220 - Alder/willow	4.8	No	
46	122 - Road/Parking Lot	2.2	No	US-31 and road edge.



Stand	Cover Type	Acres	Managed Site	General Comments:
51	6220 - Alder/willow	2.0	No	
60	500 - Water	3.3	No	Pine River
63	500 - Water	0.3	No	This stand is inaccessible for harvest. It is an island in the marsh that makes up the majority of this compartment. Also there is privately held land on three sides the amount of line work coupled with size and wetness of the surrounding swamp make a harvest on this site impractical.
65	500 - Water	1.1	No	East Branch of the Pine River
75	500 - Water	34.9	No	Muskegon River
76	6229 - Mixed lowland shrub	2.0	No	
78	500 - Water	4.3	No	
79	6229 - Mixed lowland shrub	2.4	No	
94	6220 - Alder/willow	5.5	No	Occasional hardwood and conifer species.
99	6225 - Bog	4.3	No	
102	6229 - Mixed lowland shrub	48.7	No	
107	6229 - Mixed lowland shrub	7.1	No	
111	122 - Road/Parking Lot	1.6	No	M-115
114	6230 - Cattail	18.5	No	
115	6239 - Mixed Emergent Wetland	28.4	No	
118	6230 - Cattail	12.2	No	
119	6225 - Bog	3.0	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
120	6230 - Cattail	9.3	No	
122	3303 - Mixed Low Density Trees	7.9	No	
124	6239 - Mixed Emergent Wetland	17.1	No	
126	6220 - Alder/willow	4.0	No	
129	3303 - Mixed Low Density Trees	3.8	No	
130	6220 - Alder/willow	4.2	No	
133	500 - Water	1.0	No	North Branch Pine River
134	3105 - Mixed Upland Herbaceous	5.8		Stand treated timber sale #63-012-17-01, "Tiff Lake Aspen". Cut by Lutke F.P. in January/February of 2018.
135	110 - Low Intensity Urban	0.5	No	House and garage in trespass. Trespass is in database.
136	500 - Water	2.0	No	Tiff Lake. Cattails on edge.
137	6220 - Alder/willow	1.6	No	
138	500 - Water	0.7	No	
139	500 - Water	1.4	No	Middle Branch River
147	6230 - Cattail	1.2	No	
149	122 - Road/Parking Lot	0.8	No	
151	6230 - Cattail	1.0	No	