



GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 72 ENTRY YEAR: 2010

GIS Compartment Acreage: 2043 County: Iosco

Revision Date: 9/12/2008

Stand Examiner: Lucas Merrick

Legal Description: (Oscoda Township) T24N, R09E, Sections 4, 5, 6, 7, 8, 9, 17, 18, 19, 30, 33, and 34.
(Au Sable Township) T23N, R09E, Section 4.

Management Goals: To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment while providing for multiple use and visual management.

Soils and Topography: Terrain is flat to slightly rolling hills. Soils consist mainly of Rubicon-Roselawn sands with areas of Grayling sand. There are also Tawas and Rife soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is made up of large parcels of State land surrounded by private property. Wurtsmith Airport borders much of the compartment. There is an extensive 2-track trail system throughout the compartment which is currently being used extensively for recreational walking, illegal trash dumping, and illegal ORV use.

Unique, Natural Features: A floodplain forest occurs in the compartment. This area is a designated Ecological Reference Area (ERA). There are also areas of northern shrub thicket and northern wet meadow found in the immediate area of the floodplain forest. There is potential for the following plant species of concern: Hill's thistle, Pitcher's thistle, wild rice and lake cress. There is also potential for the following animals of concern: Massasauga rattlesnake, Blanding's turtle, wood turtle, goshawk, bald eagle, osprey, heron rookeries, Kirtland's warbler, and prairie warbler.

Archeological, Historical, and Cultural Features: None at this time.

Special Management Designations or Considerations: A designated Ecological Reference Area (ERA) floodplain forest is found in section 6. Van Etten Lake Campground is a Special Conservation Area (SCA).

Watershed and Fisheries Considerations: This compartment includes portions of the Pine River, a cool water river with cold water head waters and tributaries. Van Etten Lake is found in this compartment. A dam is found at the south end of the lake; this structure controls the legally-established lake levels. Duell Lake is a shallow lake found in section 33. The meandering waters of the Au Sable River are also present in sections 33 and 34.

Wildlife Habitat Considerations: Try to promote and expand aspen cover types where possible. Make attempts to improve snag habitat as well as down-dead woody debris habitat during timber management operations.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Coldwater Shale and Marshall Sandstone. The Marshall has been used as a building stone in the past. Gravel pits are located in Section 6, and there appears to be some potential. This Compartment is not currently leased for oil and gas development.

Vehicle Access: Within section 6 there is currently a walking easement to the land-locked parcel. State owned lands within sections 33 and 34 (T24N R09E) and section 4 (T23N R09E) are difficult to access legally. The rest of the compartment is easily accessed through county roads and forest two-tracks.

Survey Needs: None at this time.

Recreational Facilities and Opportunities: Dispersed recreation occurs throughout. The extensive 2-track systems are frequented by hikers. These same 2-tracks also seem to attract frequent illegal ORV usage.

Fire Protection: Many of the current cover types in this compartment pose a threat for extreme fire behavior under dry conditions. There are several natural and man made fuel breaks throughout the area so major complex fire events are unlikely.

LOTS Compartment Acreage: 2079

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: 72

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	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	150-159	All Aged	Total
Aspen		15		30	127								26						198
Bog or Marsh	11																		11
Grass	64																		64
Jack Pine		112	78	655	15	41		20		4									925
Lowlnd Brush	23																		23
Marsh	21																		21
Mx Swmp Cnfr										7		8					8		23
Oak			71	26				41		175	10	75	20						418
Paper Birch											10								10
Red Pine				34	39	20	14			9	58		6						180
Swamp Hrdwds										7	20	33					44		104
Upland Brush	5																		5
Upland Hdwds									2								22		24
Water	37																		37
Total	161	127	149	745	181	61	14	61	2	202	98	116	52				74		2043

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Individual Compartment Report

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: 72

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	198																										198
V Bog or Marsh			11																								11
G Grass					64																						64
J Jack Pine							925																				925
L Lowlnd Brush									23																		23
N Marsh											21																21
Q Mx Swmp Cnfr												23															23
O Oak														418													418
B Paper Birch															10												10
R Red Pine															180												180
E Swamp Hrdwds																			104								104
U Upland Brush																								5			5
M Upland Hdwds																									24		24
Z Water																									37		37
Total	198		11		64		925		23		21	23		418	10	180				104				5	24	37	2043

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

IOSCO COUNTY

COMPARTMENT: **72**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2560 Cds	Hardwood	8 Mbf
Hardwood	1921 Mbf	Sum CutVol	16 Cds
Softwood	3240 Cds		
Softwood	1037 Mbf		
Sum TotVol	11716 Cds		
Total Cmpt Acres		Acres Proposed For Cut..... 0	
2043			

**Proposed Treatments
With NO Limiting Factors**

Compartment: 72

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
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Total Acres..... 0

**Proposed Treatments
With Limiting Factors**

Compartment: 72

Entry Year:2010

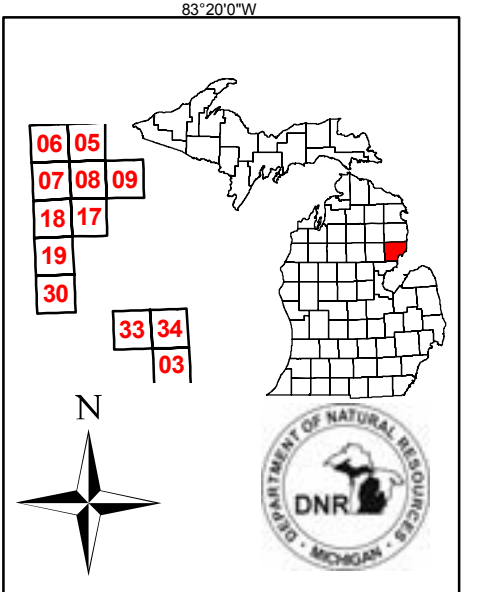
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

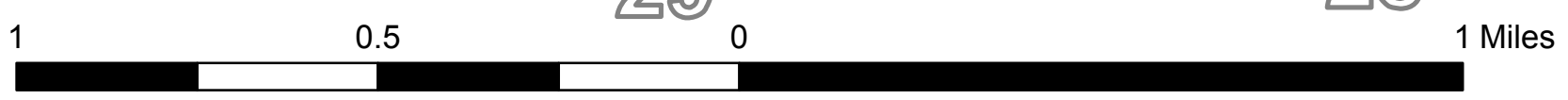
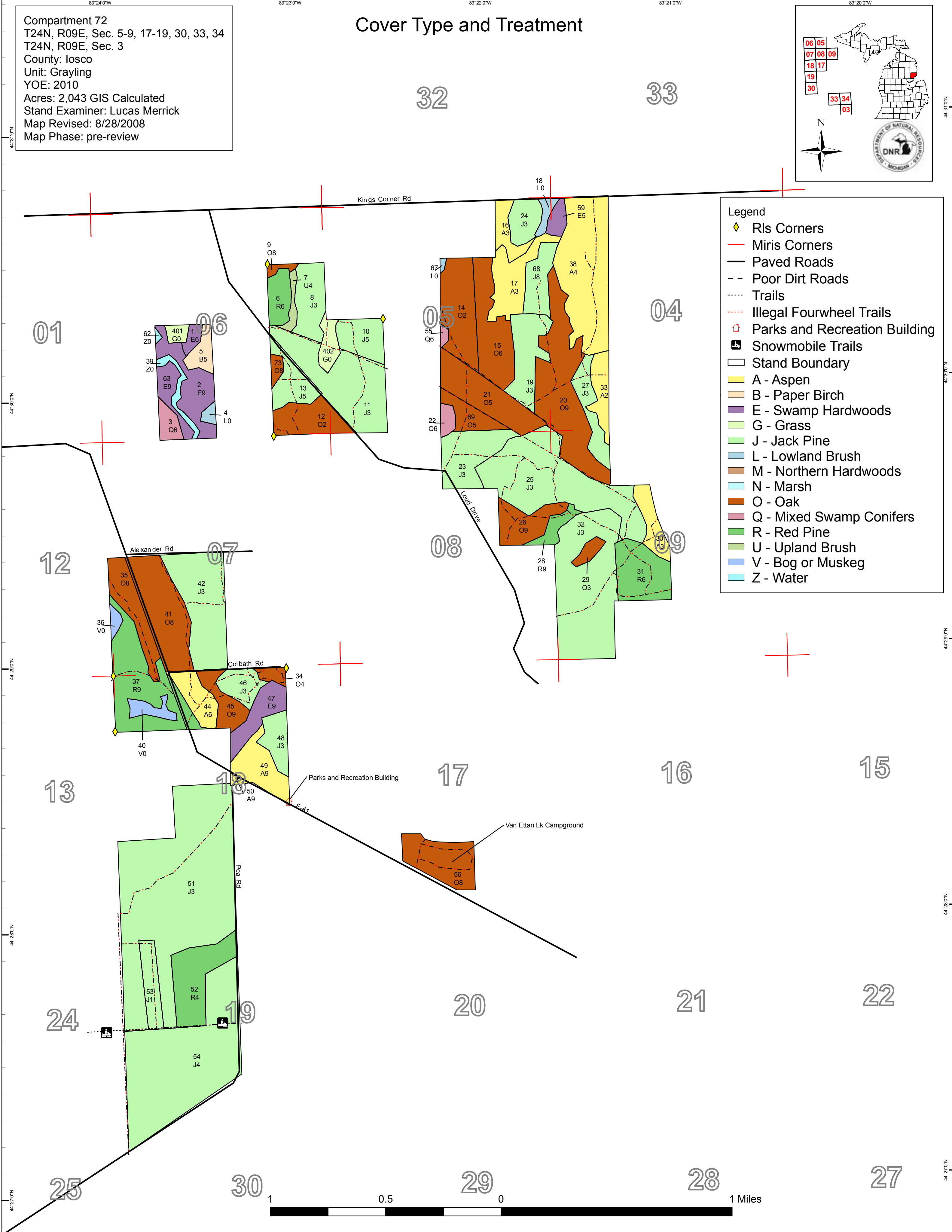
Cover Type and Treatment

Compartment 72
 T24N, R09E, Sec. 5-9, 17-19, 30, 33, 34
 T24N, R09E, Sec. 3
 County: Iosco
 Unit: Grayling
 YOE: 2010
 Acres: 2,043 GIS Calculated
 Stand Examiner: Lucas Merrick
 Map Revised: 8/28/2008
 Map Phase: pre-review



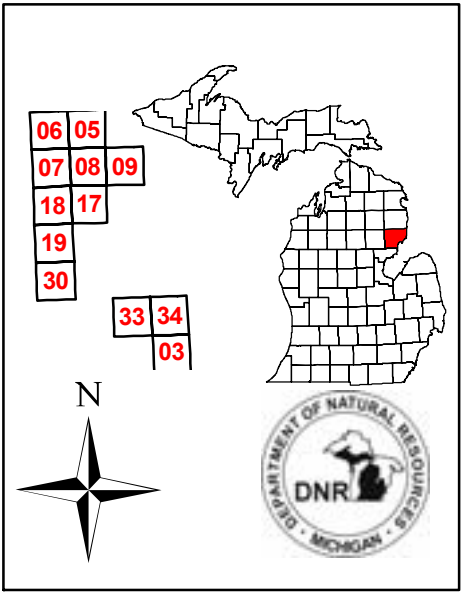
Legend

- ◆ RIs Corners
- Miris Corners
- Paved Roads
- - Poor Dirt Roads
- Trails
- - - - Illegal Fourwheel Trails
- 🏠 Parks and Recreation Building
- 🚙 Snowmobile Trails
- ▭ Stand Boundary
- A - Aspen
- B - Paper Birch
- E - Swamp Hardwoods
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- O - Oak
- Q - Mixed Swamp Conifers
- R - Red Pine
- U - Upland Brush
- V - Bog or Muskeg
- Z - Water



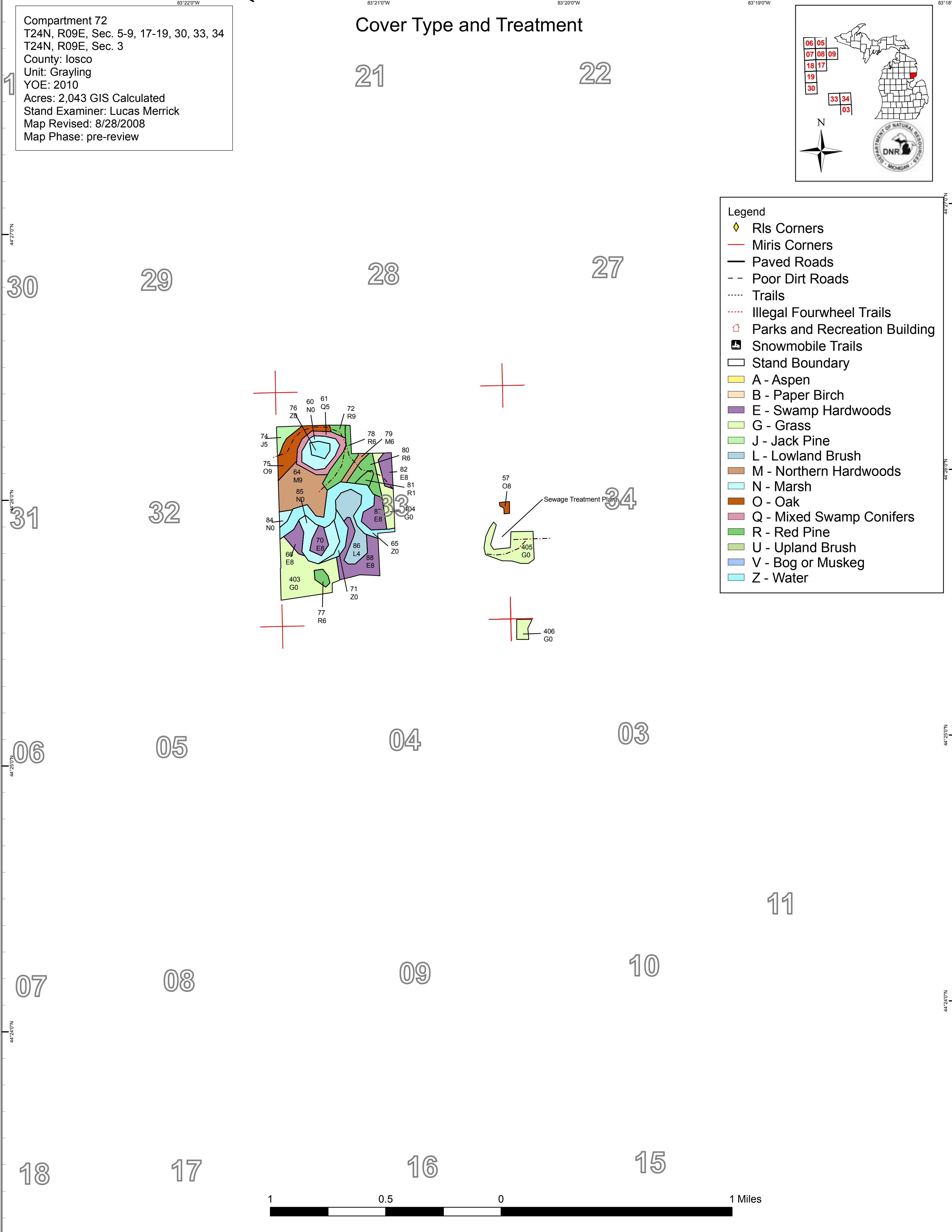
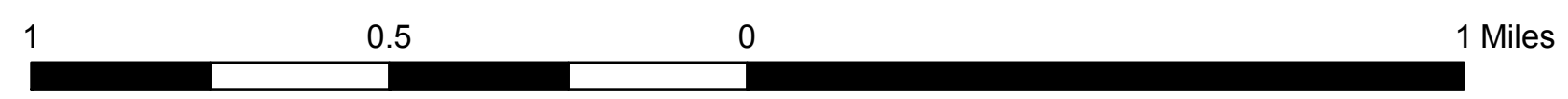
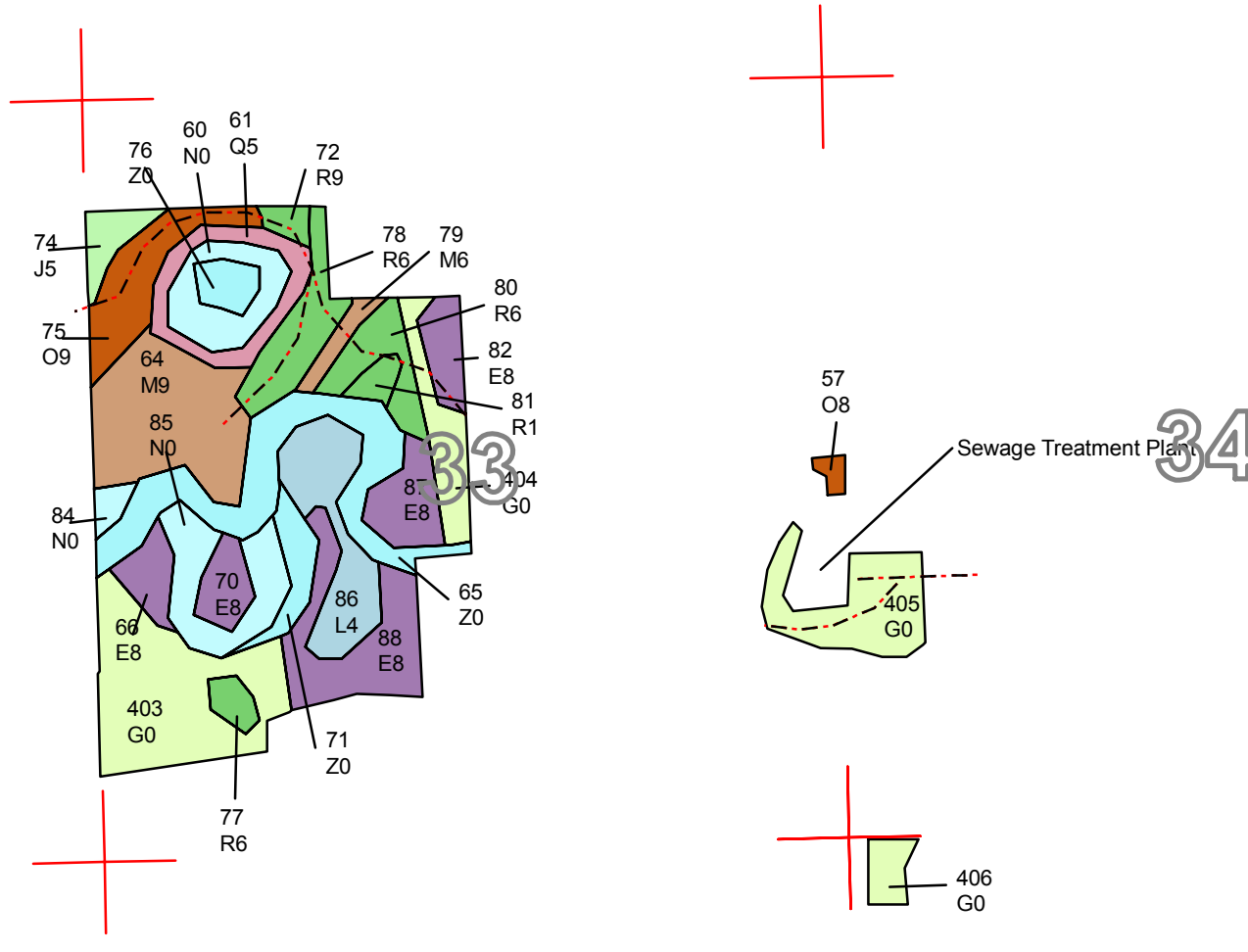
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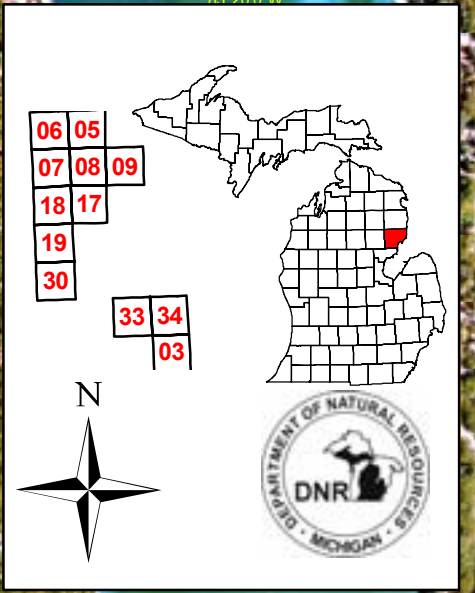
Legend

- ◆ RIs Corners
- Miris Corners
- Paved Roads
- - Poor Dirt Roads
- Trails
- Illegal Fourwheel Trails
- ⊠ Parks and Recreation Building
- ⊠ Snowmobile Trails
- Stand Boundary
- A - Aspen
- B - Paper Birch
- E - Swamp Hardwoods
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- O - Oak
- Q - Mixed Swamp Conifers
- R - Red Pine
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Compartment 72
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Stand Boundary Map



- Legend**
- RIs Corners
 - Miris Corners
 - Paved Roads
 - Poor Dirt Roads
 - Trails
 - Illegal Fourwheel Trails
 - Parks and Recreation Building
 - Snowmobile Trails
 - Stand Boundary



Kings Corner Rd

Alexander Rd

Park Rd

Parks and Recreation Building

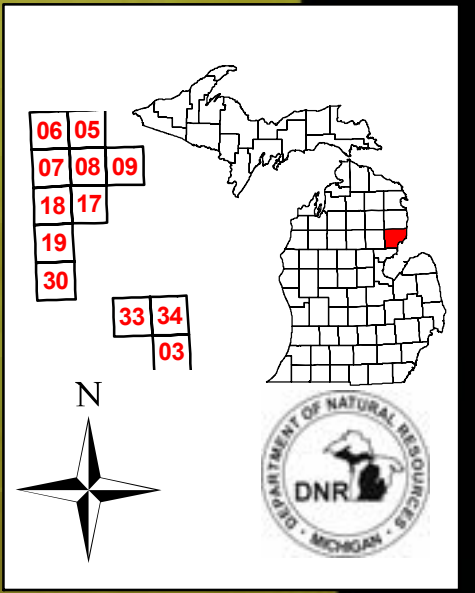
Van Etan Lk Campground

0.5 1 Miles

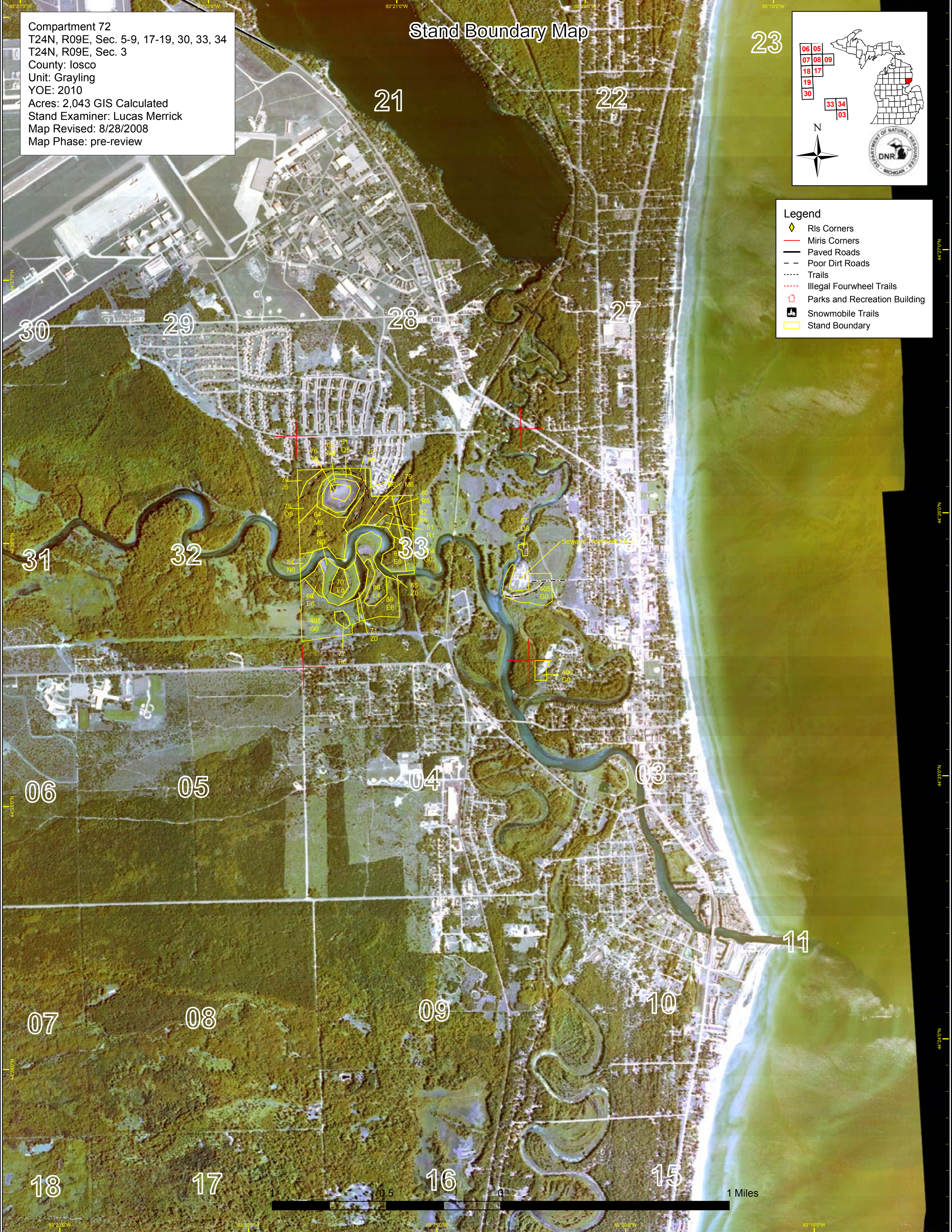
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Stand Boundary Map

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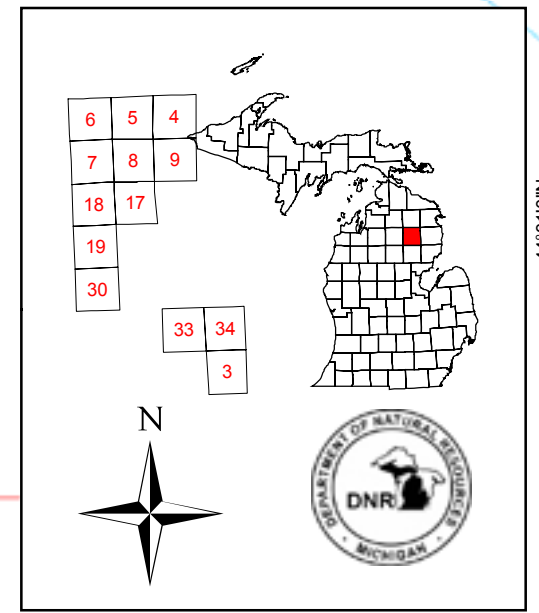


- Legend**
- ◆ RIs Corners
 - Miris Corners
 - Paved Roads
 - - Poor Dirt Roads
 - ⋯ Trails
 - ⋯ Illegal Fourwheel Trails
 - Parks and Recreation Building
 - Snowmobile Trails
 - Stand Boundary



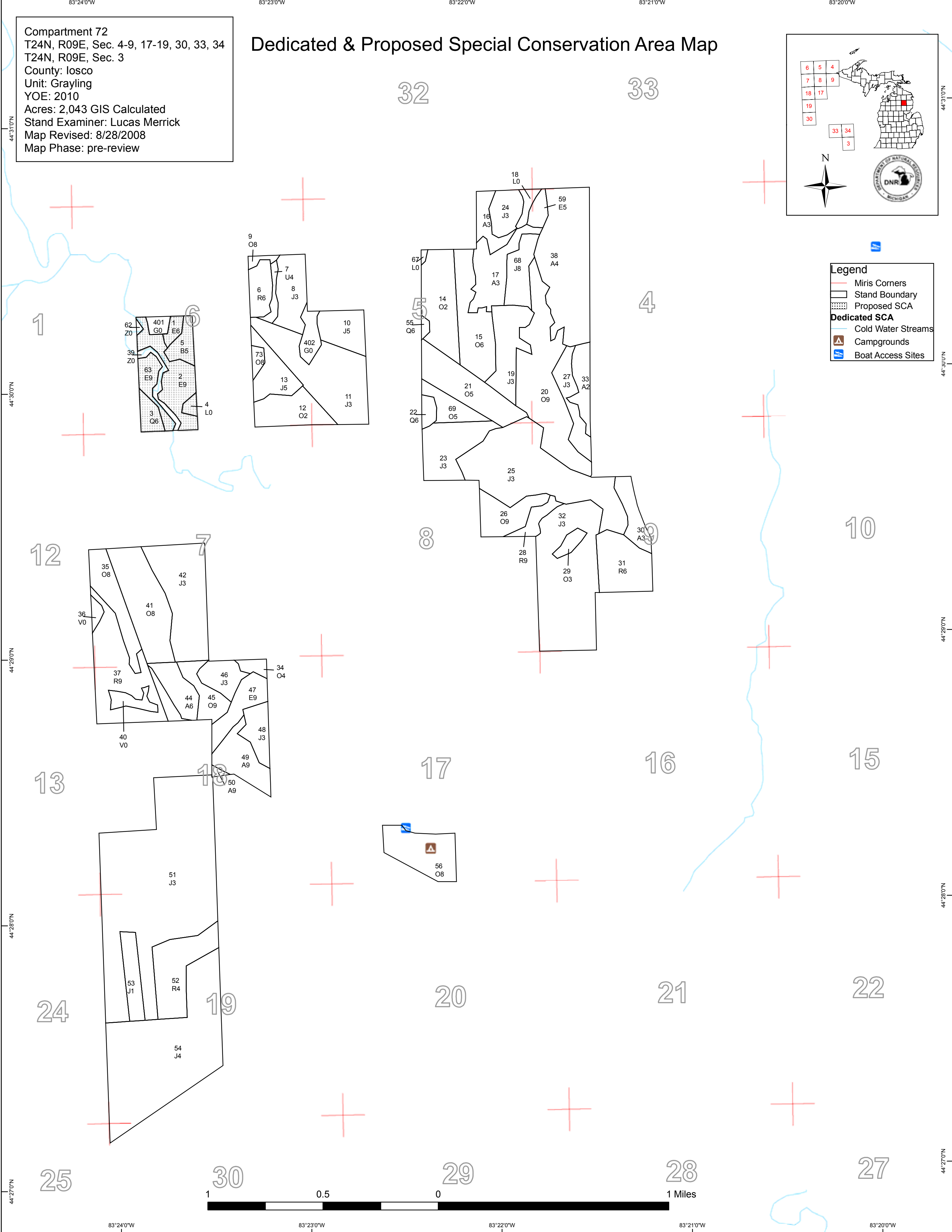
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Dedicated & Proposed Special Conservation Area Map



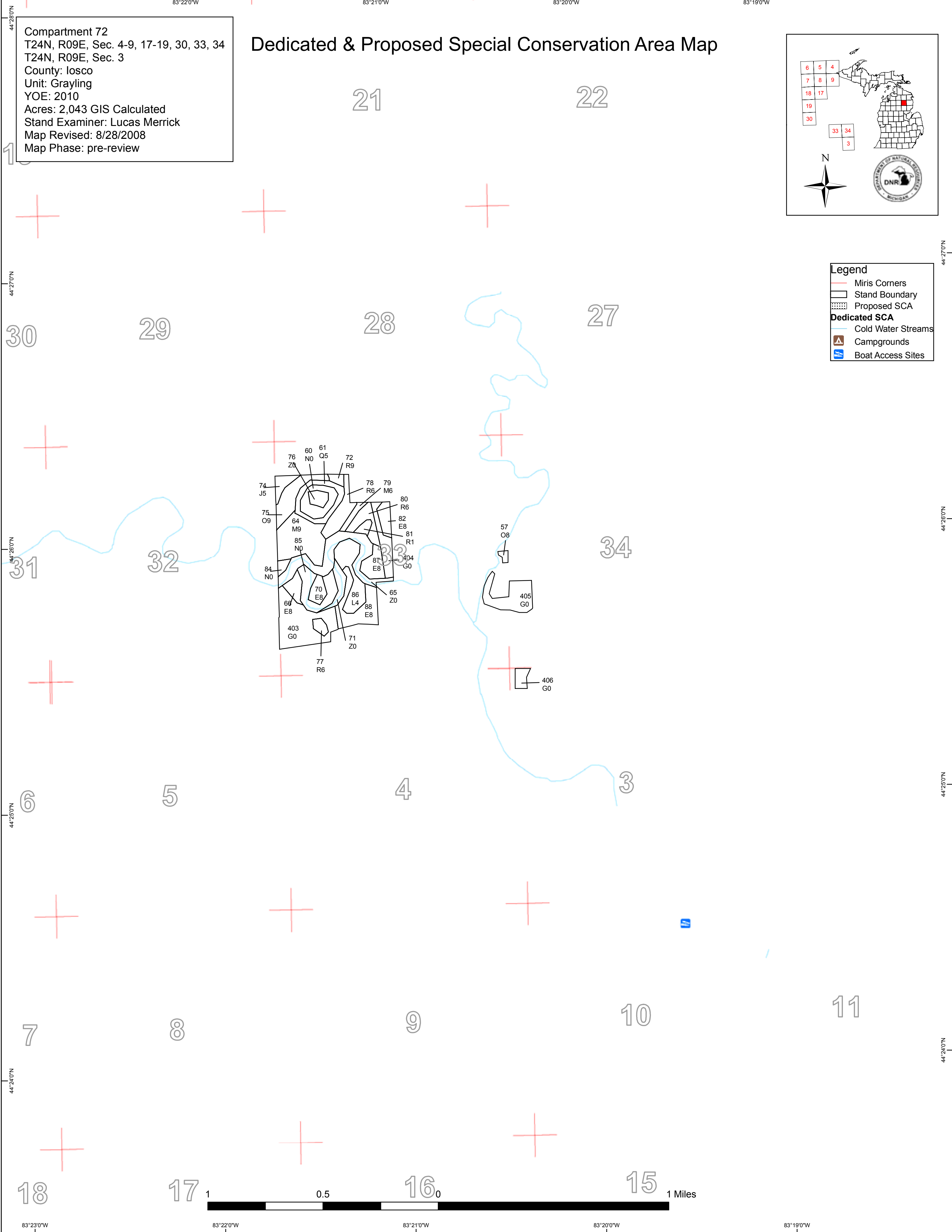
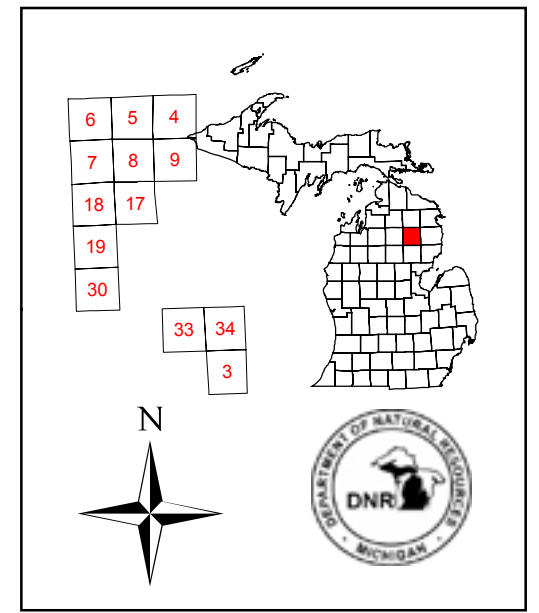
Legend

- Miris Corners
- Stand Boundary
- Proposed SCA
- Dedicated SCA**
- Cold Water Streams
- Campgrounds
- Boat Access Sites



Compartment 72
T24N, R09E, Sec. 4-9, 17-19, 30, 33, 34
T24N, R09E, Sec. 3
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Unit: Grayling
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Dedicated & Proposed Special Conservation Area Map



Legend

- Miris Corners
- Stand Boundary
- Proposed SCA
- Dedicated SCA**
- Cold Water Streams
- Campgrounds
- Boat Access Sites



DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.