



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 184

ENTRY YEAR: 2010
Compartment Acreage: 1,500
County: Cheboygan

Revision Date: April 18, 2008

Stand Examiner: Ken Phillips

Legal Description: T35N - R01W Sections 34, 35 and 36.

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and Topography: A steep ridge runs north and south through Section 35. The remaining upland portions of the compartment are situated on rolling topography. Lowland types generally occupy large, broad flats which are bisected by streams. Soils on the uplands are typically well drained sands while those within the lowlands are poorly drained organics.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There are no private in-holdings within this compartment. State-owned land does, however, adjoin private property along several boundaries.

Unique, Natural Features: An active Eagles nest was recently established in this compartment.

Archeological, Historical, and Cultural Features: With the exception of some logging era railroad grades, no additional historical features were identified.

Special Management Designations or Considerations: Management activities around the Eagle nest will need to be restricted. There is also a strong potential for Red-shouldered hawks to be found within this compartment.

Watershed and Fisheries Considerations: This compartment contains portions of Stoney Creek flooding, Stoney Creek, and Milligan Creek. Milligan Creek is a designated trout stream with Type 1 trout regulations. A minimum buffer (no clear-cut) of 300 feet should be maintained along Stoney Creek and Milligan Creek.

Wildlife Habitat Considerations: This compartment lies east of M33 and north of M68. It contains a mix of upland and lowland cover types. This area supports various wildlife species including deer, grouse, bear, bobcat, eagles, woodcock, and snowshoe hare. The southern end of the Stony Creek Flooding lies in the north end of section 34 which supports various waterfowl and amphibious species. The cedar areas in section 34 also support wintering deer. The upland areas consist mostly of aspen, hardwoods and some pine areas. Stands 15, 31, 30, 59, and 86 are going to be clear cut to maintain age class diversity in early successional species. Some oaks are going to be left in stand 59 for mast production. Stands 401, 402, 403, and 404 are going to be maintained as wildlife openings.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured till. The glacial drift thickness varies between 10 and 100 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is used for stone and cement products. Afton Quarry is located three miles to the west. Hogback Pit is located in Section 2, and there is good potential in the Compartment. The nearest oil and gas production, the Niagaran reef play, is located nine miles to the south. The Antrim Shale is absent in this area and there is no known oil and gas potential.

Vehicle Access: Most upland portions of this compartment are easily accessible via numerous roads that lead off of M-68. Some isolated pockets of upland are inaccessible, however, due to surrounding wetlands. Attempts were made in the past to close roads that lead into managed wildlife openings but these barriers have generally been ineffective.

Survey Needs: It is likely that a survey will be required to establish the east/west boundary line between State and private lands in the SW¹/₄ of section 36. A significant trespass has occurred on the State-owned lands adjoining the privately owned 80 acre parcel to the south.

Recreational Facilities and Opportunities: The North Spur of the Shore-to-Shore horse trail and the Midland to Mackinaw hiking trail both pass through the central portion of this compartment.

Fire Protection: The upland portions of this compartment are generally aspen or northern hardwood stands that do not generally pose significant control challenges.

Additional Compartment Information: An October 2007 tornado passed through sections 35 and 36. The tornado touched down in multiple locations resulting in scattered wind damage.

- **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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 184

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	489																										489
S Black Spruce		2																									2
V Bog or Marsh			1																								1
C Cedar				155																							155
G Grass					41																						41
J Jack Pine							1																				1
L LowInd Brush									141																		141
P LowInd Poplr										8																	8
N Marsh											39																39
Q Mx Swmp Cnfr												156															156
R Red Pine															34												34
F Spruce Fir																			56								56
E Swamp Hrdwds																				13							13
D Treed Bog																						16					16
U Upland Brush																							21				21
M Upland Hdwds																								325			325
W White Pine																									2	2	
Total	489	2	1	155	41		1		141	8	39	156			34			56	13			16	21	325		2	1500

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: **184**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	9379 Cds	Hardwood	1319 Cds
Hardwood	142 Mbf	Softwood	168 Cds
Softwood	5992 Cds	Softwood	11 Mbf
Softwood	146 Mbf	Sum CutVol	1509 Cds
Sum TotVol	15947 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	81
1500			

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
15	A6	10	38	55	aspen (upland)	immature	final harvest	1		
comnts Fmd : RECORDS INDICATE THAT THIS STAND WAS PROBABLY CUT IN 1968 - 1970. IF SO A LOT OF RESIDUAL MUST HAVE BEEN LEFT AS THERE IS SCATTERED MATURE ASPEN, FIR AND PINE ALL THROUGHOUT. I WOULD LIKE TO CUT IT NOW IN ORDER TO ESTABLISH ANOTHER ASPEN AGE CLASS. REGEN SHOULD COME BACK WELL TO A MIXTURE OF ASPEN, MAPLE AND FIR. ***RETENTION - I WOULD RECOMMEND LEAVING NO RETENTION DUE TO THE SMALL OVERALL ACREAGE AND THE NARROW ORIENTATION OF THE STAND***										
30	M6	9	69	50	northern hardwood	mature	final harvest	1		
comnts Fmd : THIS IS A FAIRLY LOW QUALITY STAND OF NORTHERN HARDWOOD. RED MAPLE MAKES UP A SIGNIFICANT COMPONENT OF THE STAND. MANAGE THE STAND ON AN EVENAGED BASIS BY HARVESTING NOW ALONG WITH ADJACENT STANDS #15 AND #31. THE RESULTING REGEN WILL BE PRIMARILY HARDWOOD STUMP SPROUTS ALTHOUGH SOME ASPEN WILL ALSO BE MIXED IN. ***RETENTION - LEAVE A FEW SMALL ISLANDS BUT DO NOT LEAVE ANY NEAR THE POWERLINE THAT COULD CREATE A FUTURE WINDTHROW HAZARD***										
31	M6	14	69	55	northern hardwood	mature	final harvest	1	other - specify in remarks	
comnts Fmd : THIS IS A TRANSITIONAL STAND THAT LEADS DOWN INTO LOWLANDS TO THE NORTH. STAND WILL BE CUT ALONG WITH ADJACENT STANDS #15 AND #30. THE METHOD OF CUT IS CODED AS A FINAL HARVEST AS THE INTENT IS TO ESTABLISH A NEW EVENAGED STAND OF MIXED HARDWOOD AND ASPEN REGENERATION. ***RETENTION - THE CONIFER COMPONENT IS TO BE LEFT AS RETENTION ALTHOUGH WILDLIFE PLANS TO RETURN FOLLOWING THE HARVEST TO MANUALLY DROP SOME OF THIS RESIDUAL IN ORDER TO CREATE RABBIT HABITAT***										
53	A6	9	68	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : ASPEN IS WELL REPRESENTED IN THIS STAND ALTHOUGH HARDWOODS ALSO COMPRISE QUITE A BIT OF THE OVERALL BASAL AREA. THE HARDWOOD IS GENERALLY POOR QUALITY SO I WOULD RECOMMEND FINAL HARVESTING TO MANAGE FOR ASPEN. THE RESULTING REGEN WILL BE A MIX OF ASPEN AND HARDWOOD SIMILAR TO STAND #55 ADJACENT TO THE EAST. THIS STAND CONTINUES TO THE NORTH OF THE POWERLINE AS STAND #59. ***RETENTION - LEAVE A FEW SMALL ISLANDS BUT DO NOT LEAVE ANY NEAR THE POWERLINE THAT COULD CREATE A FUTURE WINDTHROW HAZARD. WHERE PRESENT, MARK SCATTERED INDIVIDUAL OAK TO LEAVE IN ADDITION TO THE ISLANDS***										
59	A6	15	68	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : ASPEN IS WELL REPRESENTED IN THIS STAND ALTHOUGH HARDWOODS ALSO COMPRISE QUITE A BIT OF THE OVERALL BASAL AREA. THE HARDWOOD IS GENERALLY POOR QUALITY SO I WOULD RECOMMEND FINAL HARVESTING TO MANAGE FOR ASPEN. THE RESULTING REGEN WILL BE A MIX OF ASPEN AND HARDWOOD SIMILAR TO STAND #55. THIS STAND CONTINUES TO THE SOUTH OF THE POWERLINE AS STAND #53. ***RETENTION - LEAVE A FEW SMALL ISLANDS BUT DO NOT LEAVE ANY NEAR THE POWERLINE THAT COULD CREATE A FUTURE WINDTHROW HAZARD. WHERE PRESENT, MARK SCATTERED INDIVIDUAL OAK TO LEAVE IN ADDITION TO THE ISLANDS***										
83	A6	5	78	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : THIS IS A NICE STAND OF ASPEN THAT SHOULD BE CUT SOON. IT LIES ADJACENT TO A HARDWOOD RIDGE TO THE WEST AND IT SHOULD REGENERATE VERY WELL TO A MIX OF ASPEN AND RED MAPLE. THE STAND EXTENDS TO THE NORTH OF THE POWERLINE AS STAND #86. WHEN SETTING UP THIS STAND EXPLORE THE POSSIBILITY OF EXPANDING THE SALE AREA INTO STAND #82 IF MANAGEABLE AMOUNTS OF ASPEN EXIST IN THAT STAND. ***RETENTION - LEAVE SMALL ISLANDS BUT DO NOT LEAVE ANY NEAR THE POWERLINE THAT COULD CREATE A FUTURE WINDTHROW HAZARD***										
86	A6	19	78	60	aspen (upland)	mature	final harvest	1		
comnts Fmd : THIS IS A NICE STAND OF ASPEN THAT SHOULD BE CUT SOON. IT LIES ADJACENT TO A HARDWOOD RIDGE TO THE WEST AND IT SHOULD REGENERATE VERY WELL TO A MIX OF ASPEN AND RED MAPLE. THE STAND EXTENDS TO THE SOUTH OF THE POWERLINE AS STAND #83. ***RETENTION - LEAVE SMALL ISLANDS BUT DO NOT LEAVE ANY NEAR THE POWERLINE THAT COULD CREATE A FUTURE WINDTHROW HAZARD***										
401	G0	4			grass	nonstocked		0	opening maintenance	
comnts Fmd : THIS IS A MANGED WILDLIFE OPENING.										
402	G0	4			grass	nonstocked		0	opening maintenance	
comnts Fmd : THIS IS A MANGED WILDLIFE OPENING.										

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 184 **Entry Year: 2010**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
403	G0	1			grass	nonstocked		0	opening maintenance	

comnts Fmd : THIS IS A MANGED WILDLIFE OPENING.

404	G0	3			grass	nonstocked		0	opening maintenance	
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comnts Fmd : THIS IS A MANGED WILDLIFE OPENING.

Total Acres..... 93

**Proposed Treatments
With Limiting Factors**

Compartment: 184

Entry Year: 2010

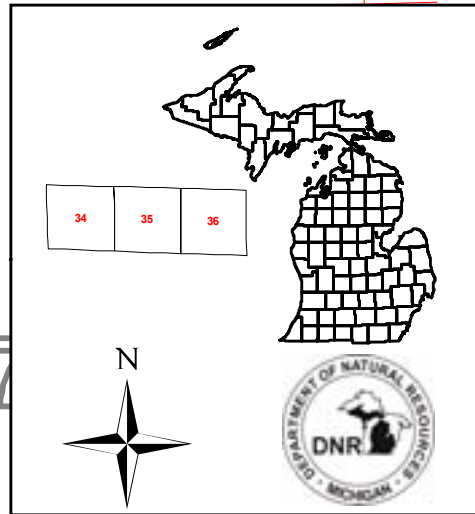
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

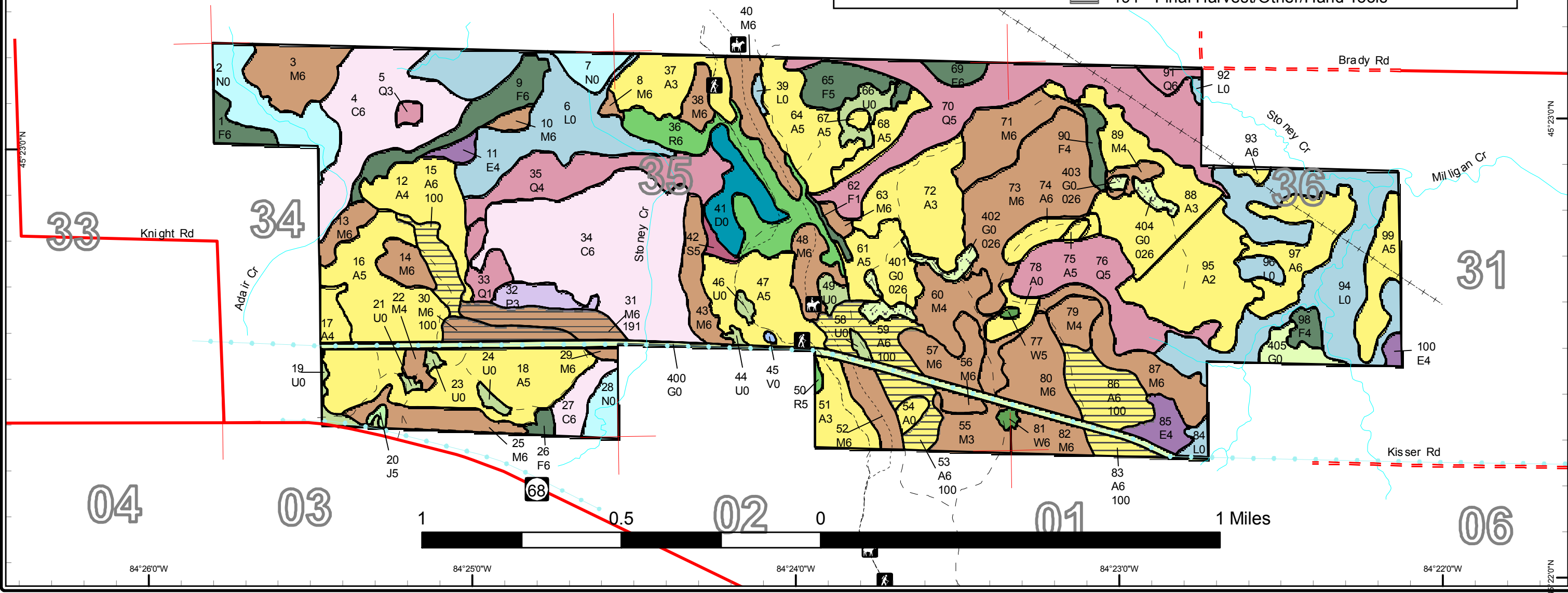
Coverture & Treatment Map

Compartment 184
 T35N, R01W, Sec. 34-36
 County: Cheboygan
 Unit: Gaylord
 YOE: 2010
 Acres: 1500 GIS Calculated
 Stand Examiner: Ken Phillips
 Map Revised: 5/29/2008
 Map Phase: Pre-Review



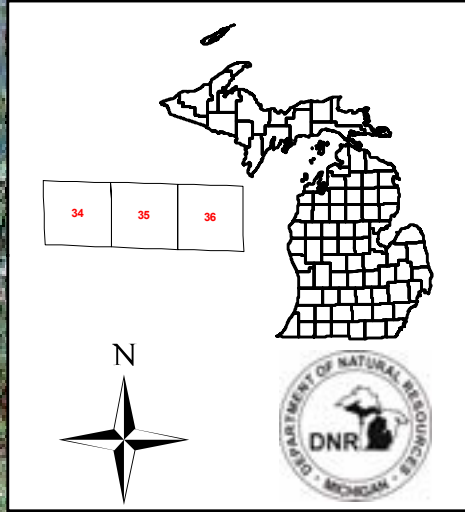
Legend

	County Paved Roads		E - Swamp Hardwoods
	County Gravel Roads		F - Upland Spruce or Fir
	Poor Dirt Roads		G - Grass
	Trails		J - Jack Pine
	Powerlines		L - Lowland Brush
	Abandoned Railroad		M - Northern Hardwoods
	Water Features		N - Marsh
	State Highway		P - Balsam Poplar, Swamp Aspen, Swamp White Birch
	Hiking Trails		Q - Mixed Swamp Conifers
	Horse Trails		R - Red Pine
	Stand Boundary		S - Black Spruce Swamp
	A - Aspen		U - Upland Brush
	C - Northern White Cedar		V - Bog or Muskeg
	D - Treed Bog		W - White Pine
			026 - Opening Maintenance
			100 - Final Harvest
			191 - Final Harvest/Other/Hand Tools

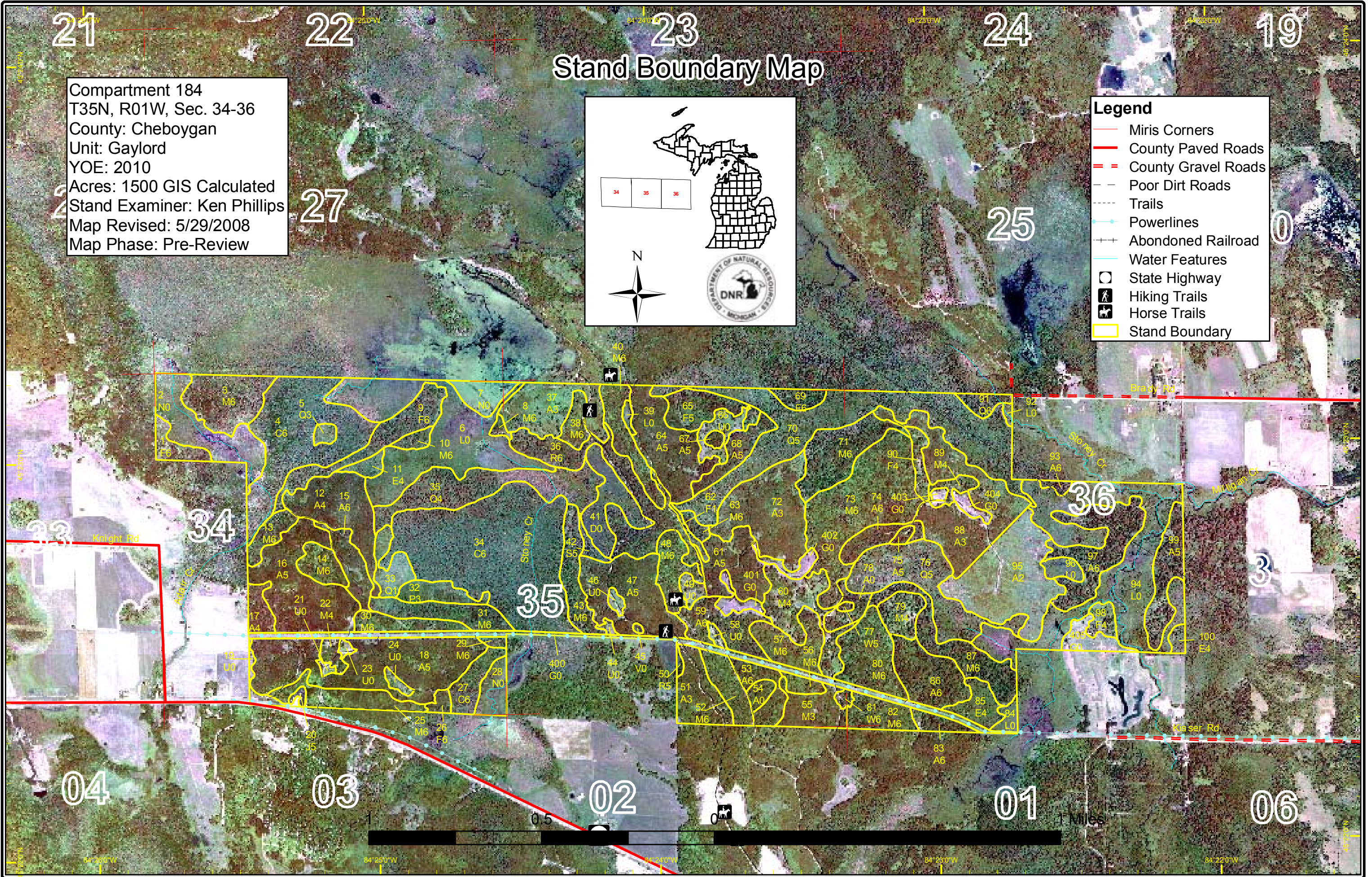


Stand Boundary Map

Compartment 184
 T35N, R01W, Sec. 34-36
 County: Cheboygan
 Unit: Gaylord
 YOE: 2010
 Acres: 1500 GIS Calculated
 Stand Examiner: Ken Phillips
 Map Revised: 5/29/2008
 Map Phase: Pre-Review

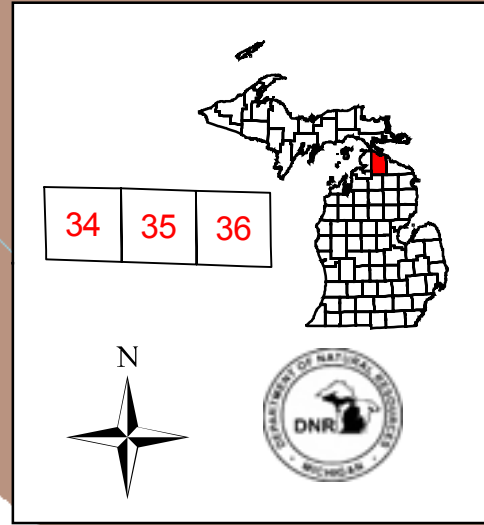


- Legend**
- Miris Corners
 - = County Paved Roads
 - - County Gravel Roads
 - - - Poor Dirt Roads
 - - - - Trails
 - Powerlines
 - + + Abandoned Railroad
 - Water Features
 - State Highway
 - ▲ Hiking Trails
 - Horse Trails
 - Stand Boundary



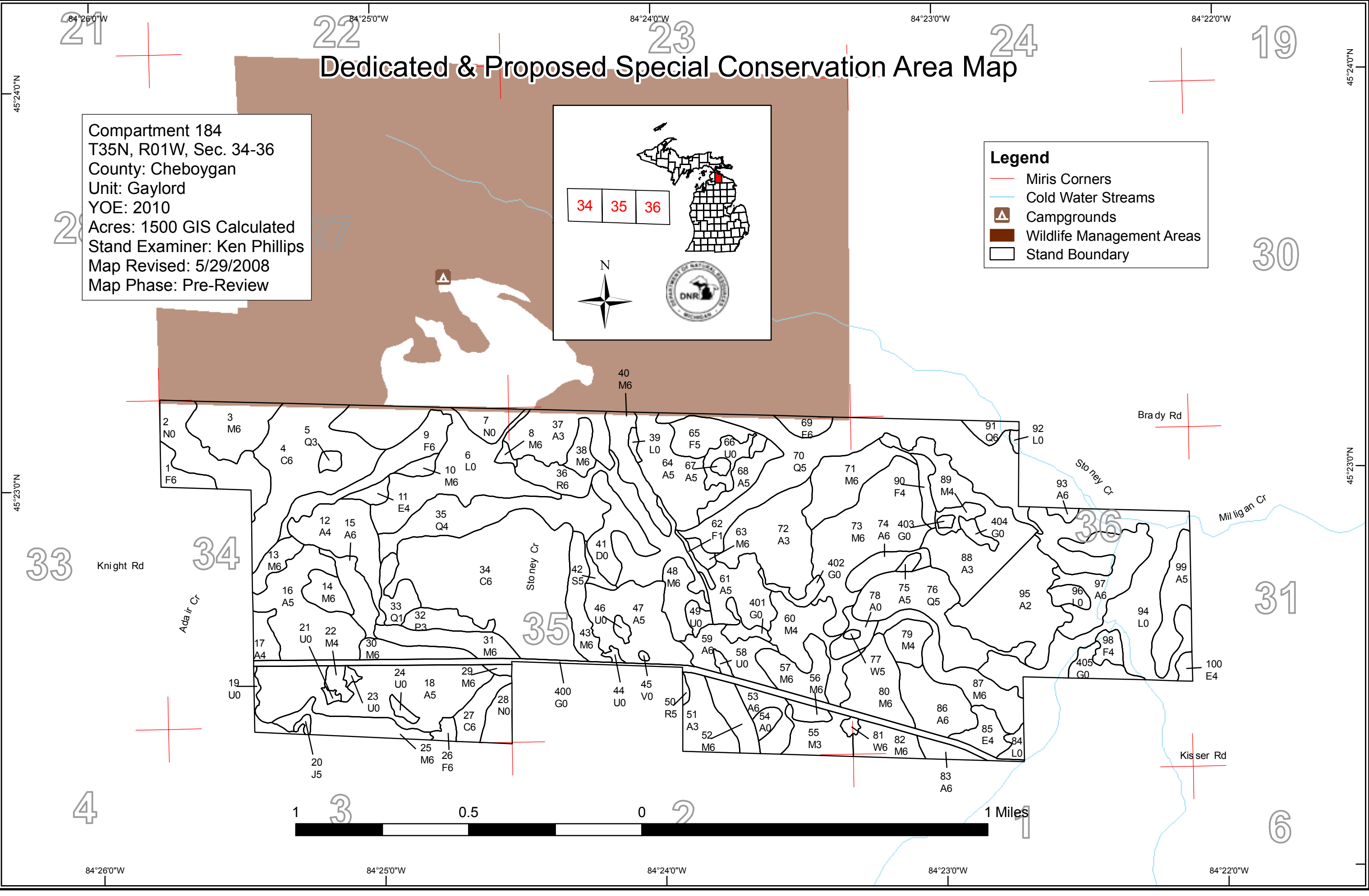
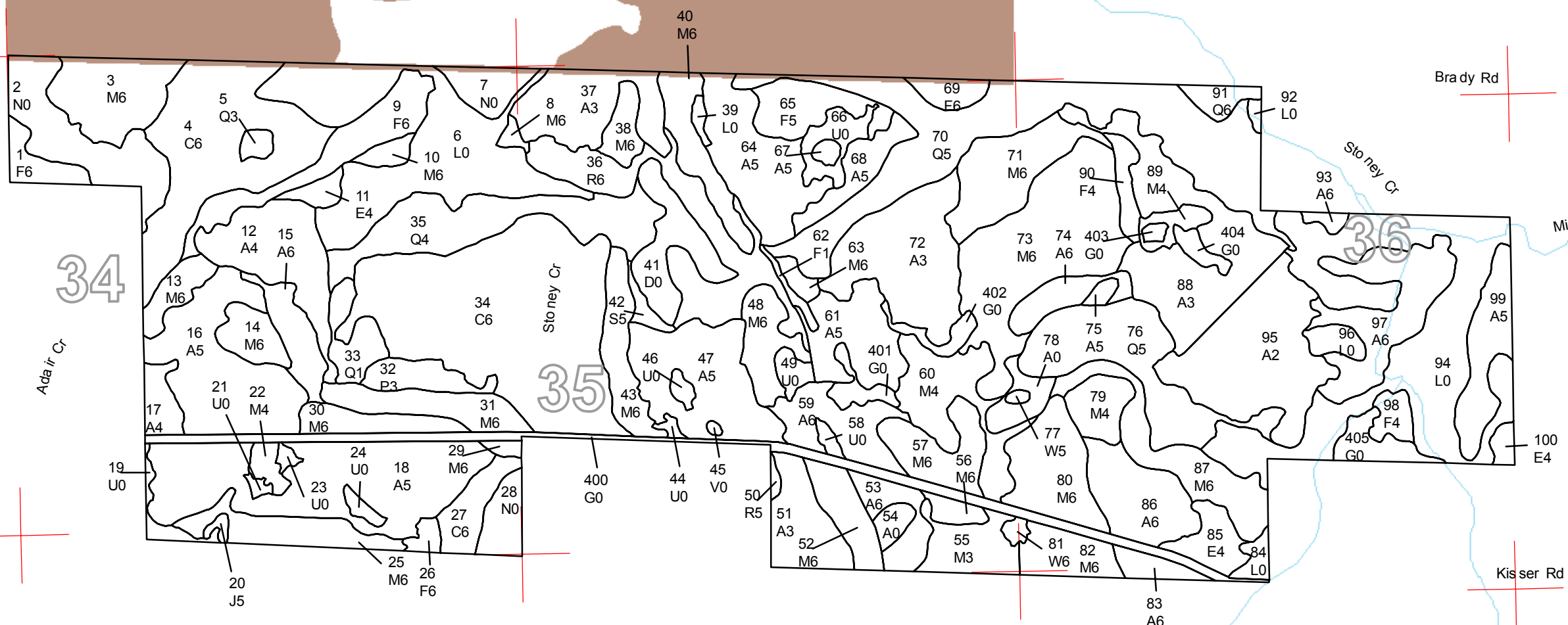
Dedicated & Proposed Special Conservation Area Map

Compartment 184
 T35N, R01W, Sec. 34-36
 County: Cheboygan
 Unit: Gaylord
 YOE: 2010
 Acres: 1500 GIS Calculated
 Stand Examiner: Ken Phillips
 Map Revised: 5/29/2008
 Map Phase: Pre-Review



Legend

- Miris Corners
- Cold Water Streams
- ▲ Campgrounds
- Wildlife Management Areas
- Stand Boundary





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
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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.