



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72215

Entry Year 2017

Acreage: 1,540

County Crawford

Management Area: Grayling Ice Contact

Revision Date: 2015-09-01

Stand Examiner: Paul Roell

Legal Description:

T28N R03W Sections 20, 29 and 30

Identified Planning Goals:

Maintain forest health, productivity, sustainability, species diversification and structural diversity of the resources while providing for multiple uses of the land.

Soil and topography:

Predominately Kalkaska and Rubicon sands. Topography is mainly flat to rolling, with a few steeper hills in Section 20.

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

Compartment 215 consists of three contiguous sections of land, of which has some private ownership. Section 30 is bisected by the I-75 freeway. Land use in this area is slowly changing from uninhabited to residential.

Unique Natural Features:

None

Archeological, Historical, and Cultural Features:

There are two archaeological sites located within this compartment. Sites will not be impacted by the treatments.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Fisheries Concerns. There are no water bodies in this compartment. Fisheries have no concerns at this time.

Wildlife Habitat Considerations:

The compartment has decent wildlife habitat potential due to the many young aspen stands in the area. Numerous non-maintained grassy openings are scattered throughout the compartment. Old apple trees exist in a few of these openings.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale. The Coldwater does not have an economic use. There is a potential gravel pit located in Section 31 and potential is good in the area. The compartment was leased and developed for the Antrim Shale, but all wells have been plugged and abandoned.

Vehicle Access:

The entire compartment is easily accessed from one of four County Roads (Babbitt, Feldhauser, Roberts and C.612), as well as numerous trail roads.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The compartment does not contain any designated recreational trails. The area hosts a number of dispersed recreational activities. Forbush Cross Country Ski Headquarters is located across County Road 612, south of Section 29, which promotes use of trails in section 29 for skiing.

Fire Protection:

Current road system is adequate, and no timber conversion is needed.

Additional Compartment Information:

The following reports from the Inventory are attached:

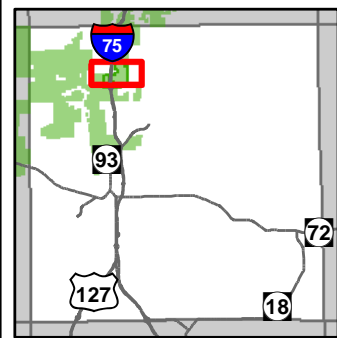
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

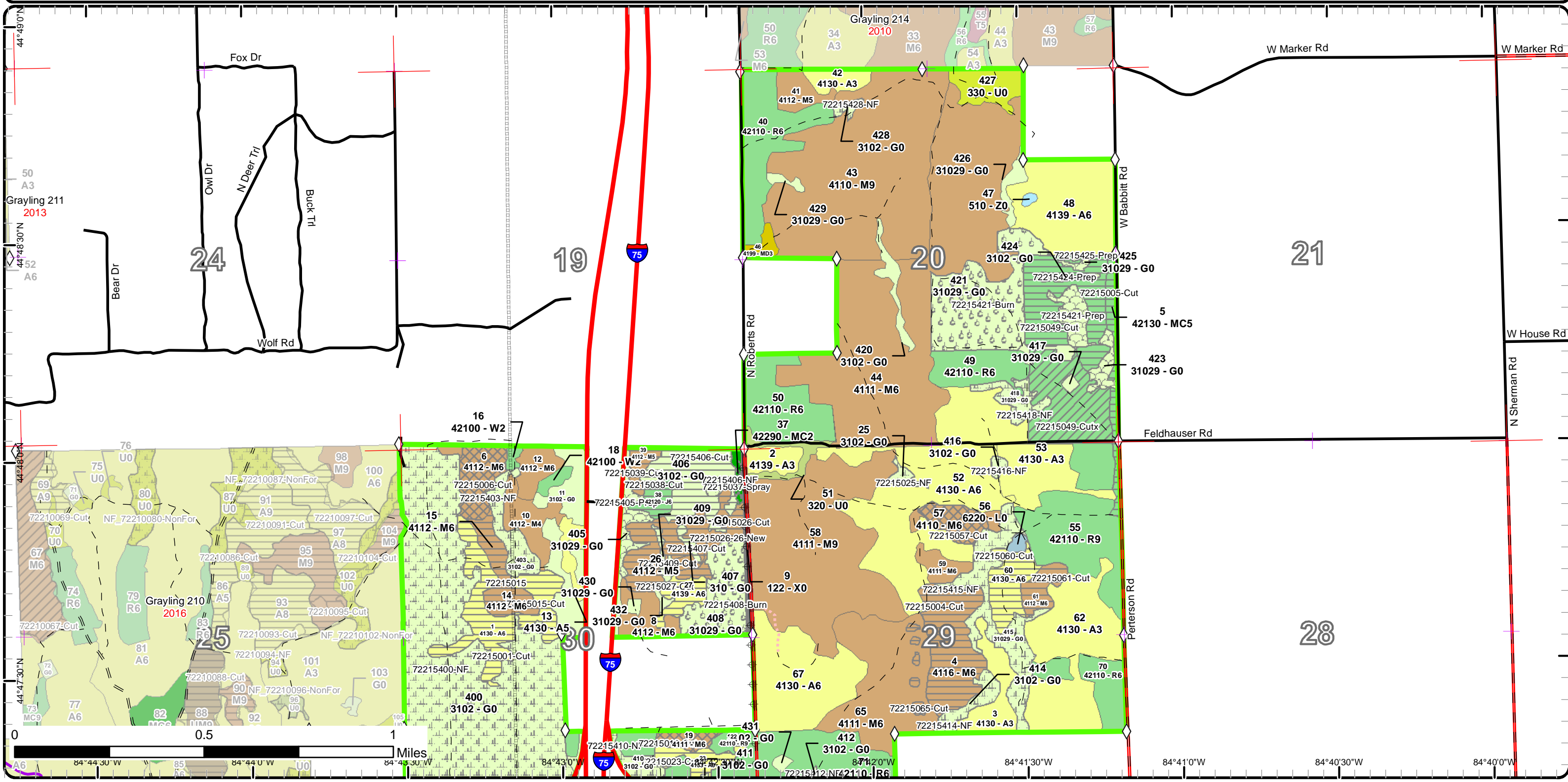
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 215
 T28N,R03W, Sec.19, 20, 29, 30
 County: Crawford
 Unit: Grayling
 Mgmt Area: Grayling Ice Contact
 YOE: 2017
 Acres: 1540 GIS Calculated
 Examiner: Paul Roell
 Map Revised: 5/17/2016
 Map Phase: Post-Review

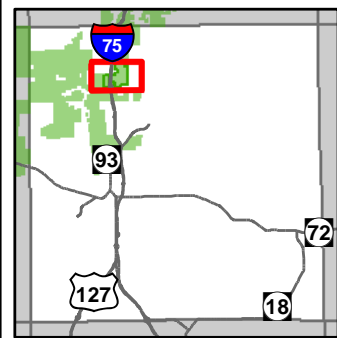


- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Pipeline
- Powerline
- Compartment Boundary
- Site Prep
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Pesticide
- Other Treatment - See Comments
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

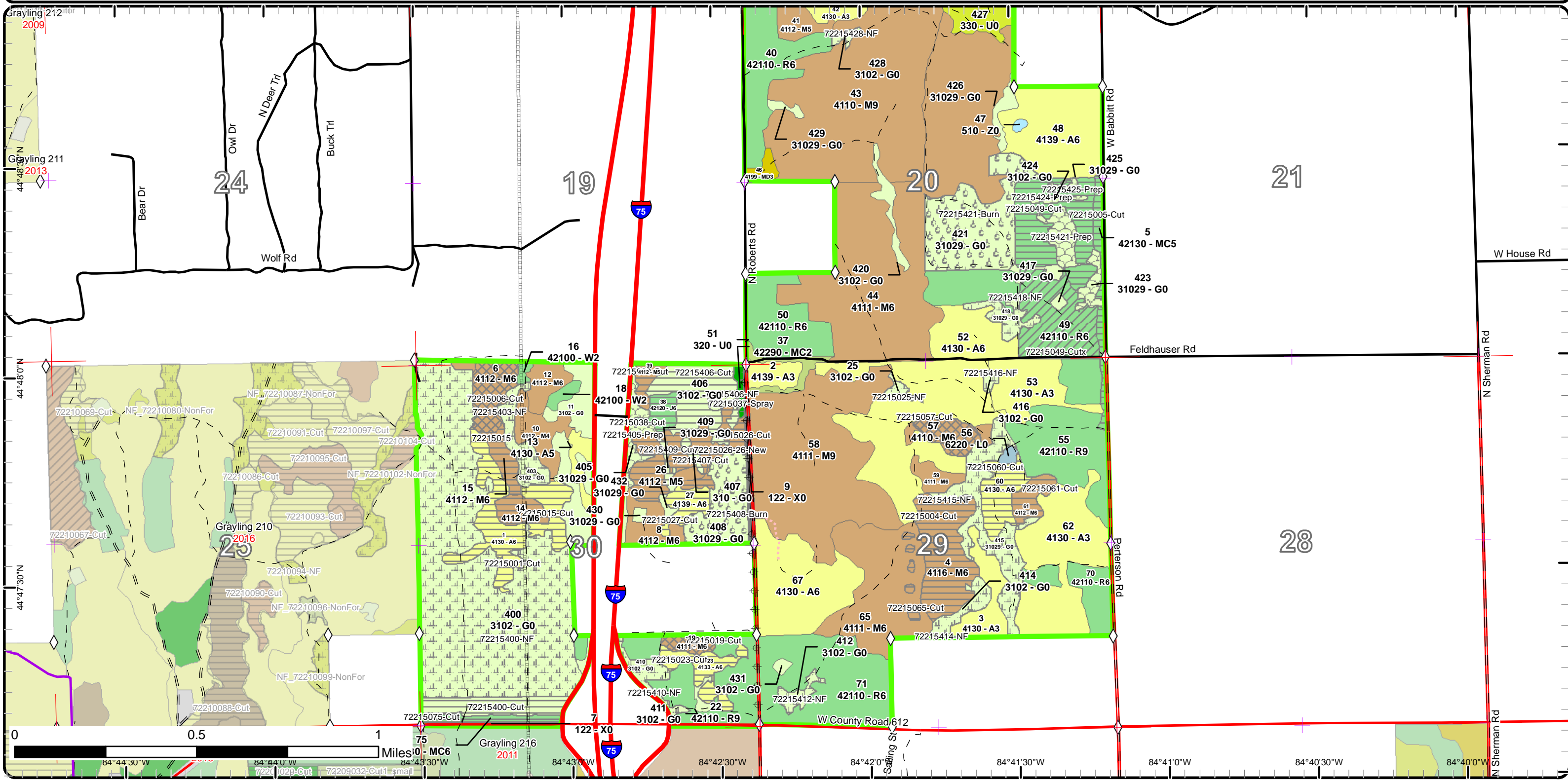


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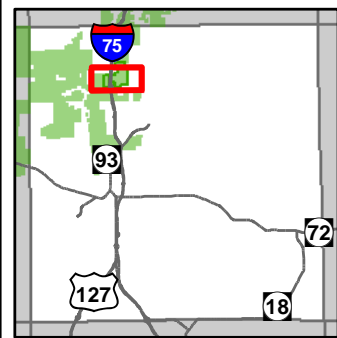


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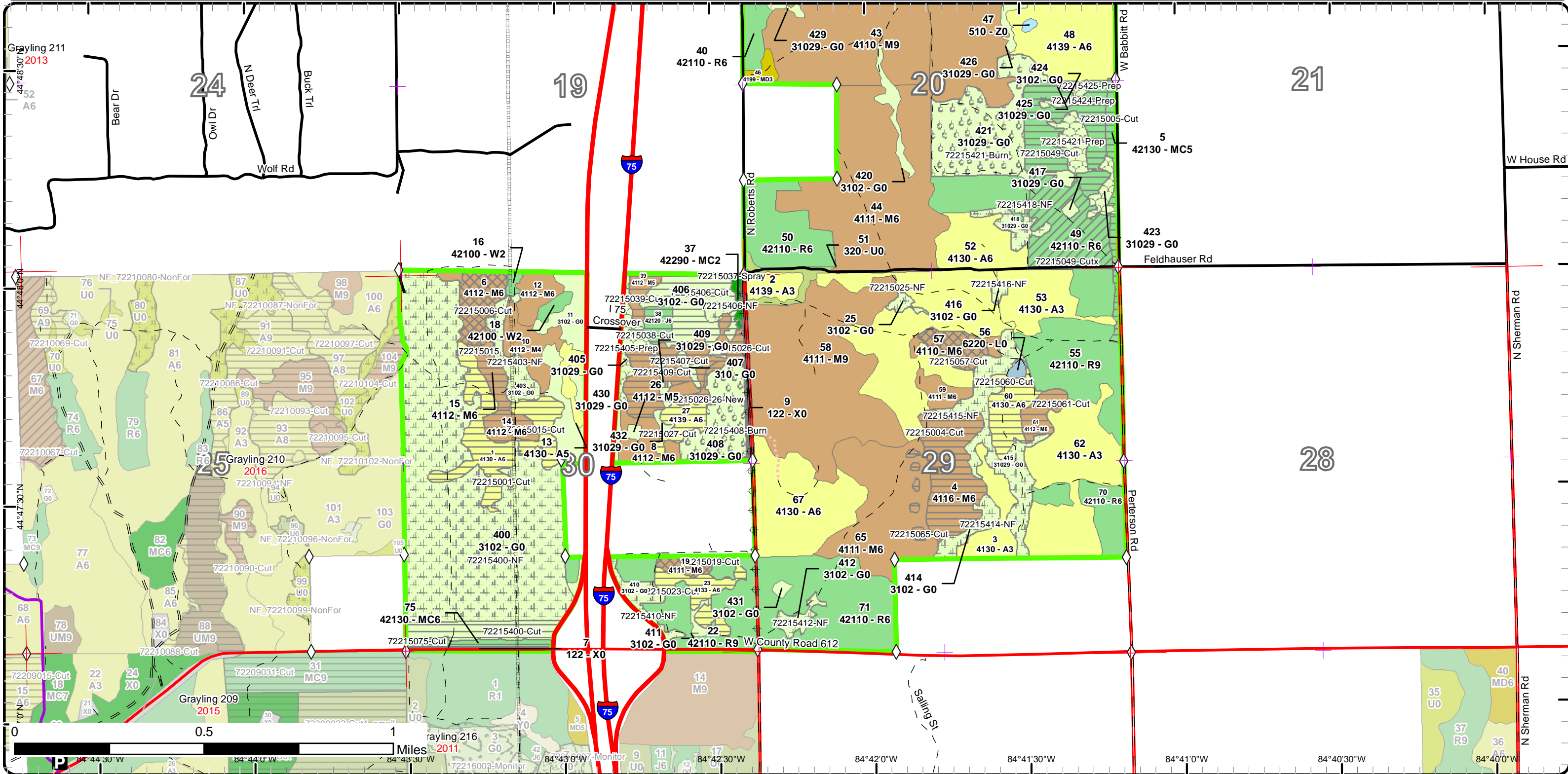


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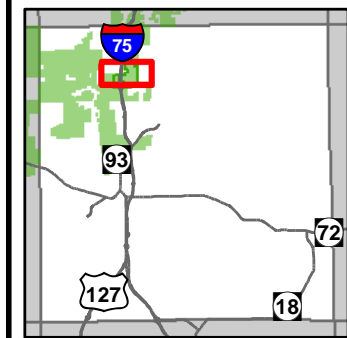


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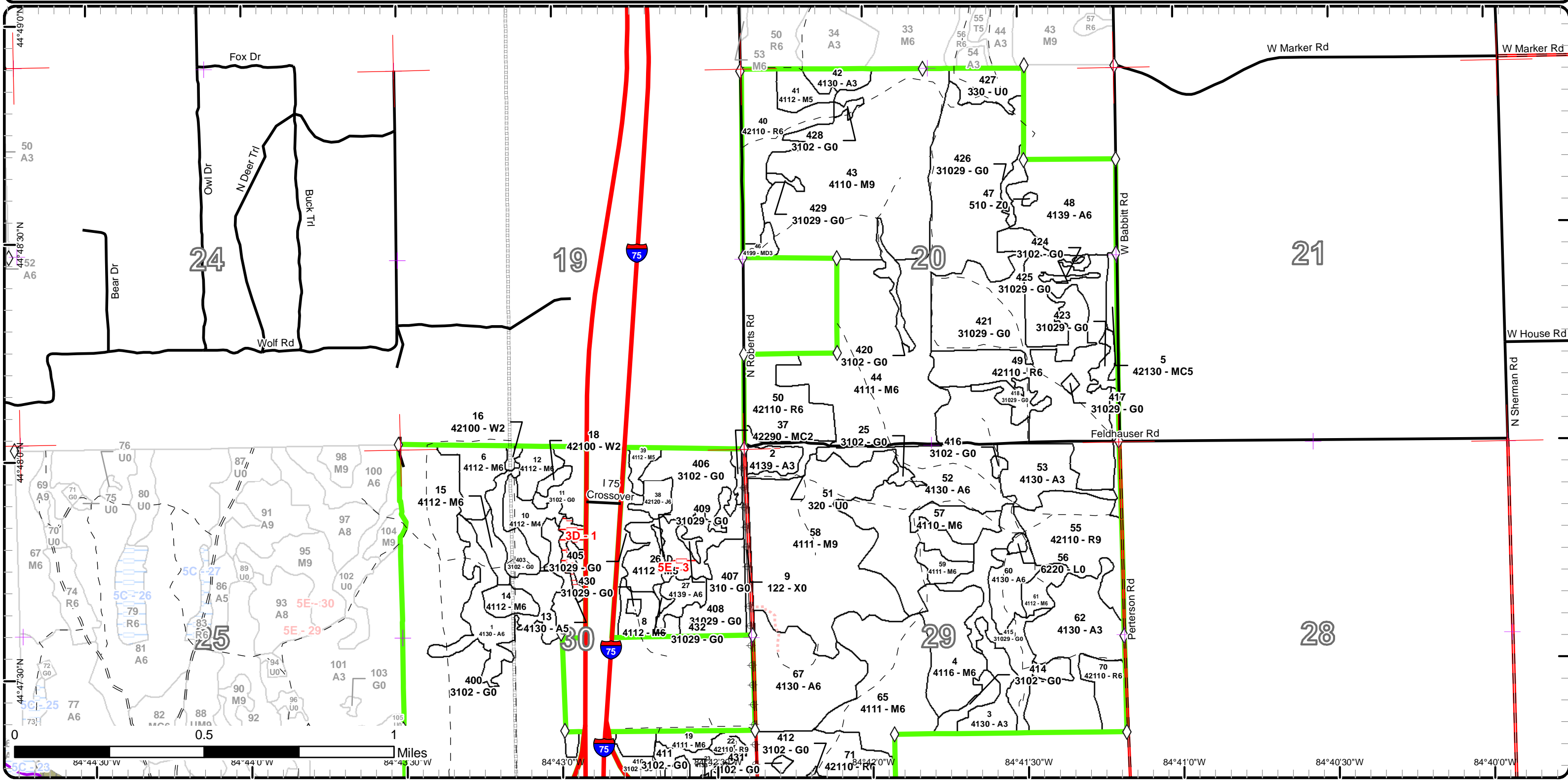


Special Conservation Areas & Site Conditions Map

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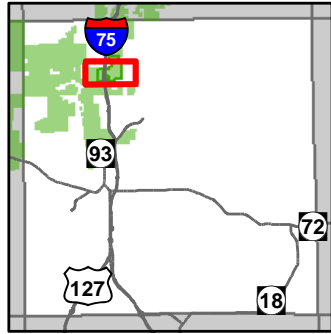


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- Pipeline
- Powerline
- Compartment Boundary
- SCA
- SCA Removal
- - - Unavailable
- - - 3D: Recreational / Scenic values
- - - 5E: Long-Term Retention
- Stand Boundaries
- Special Conservation Areas

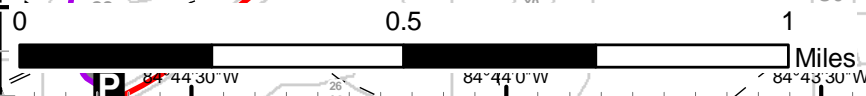
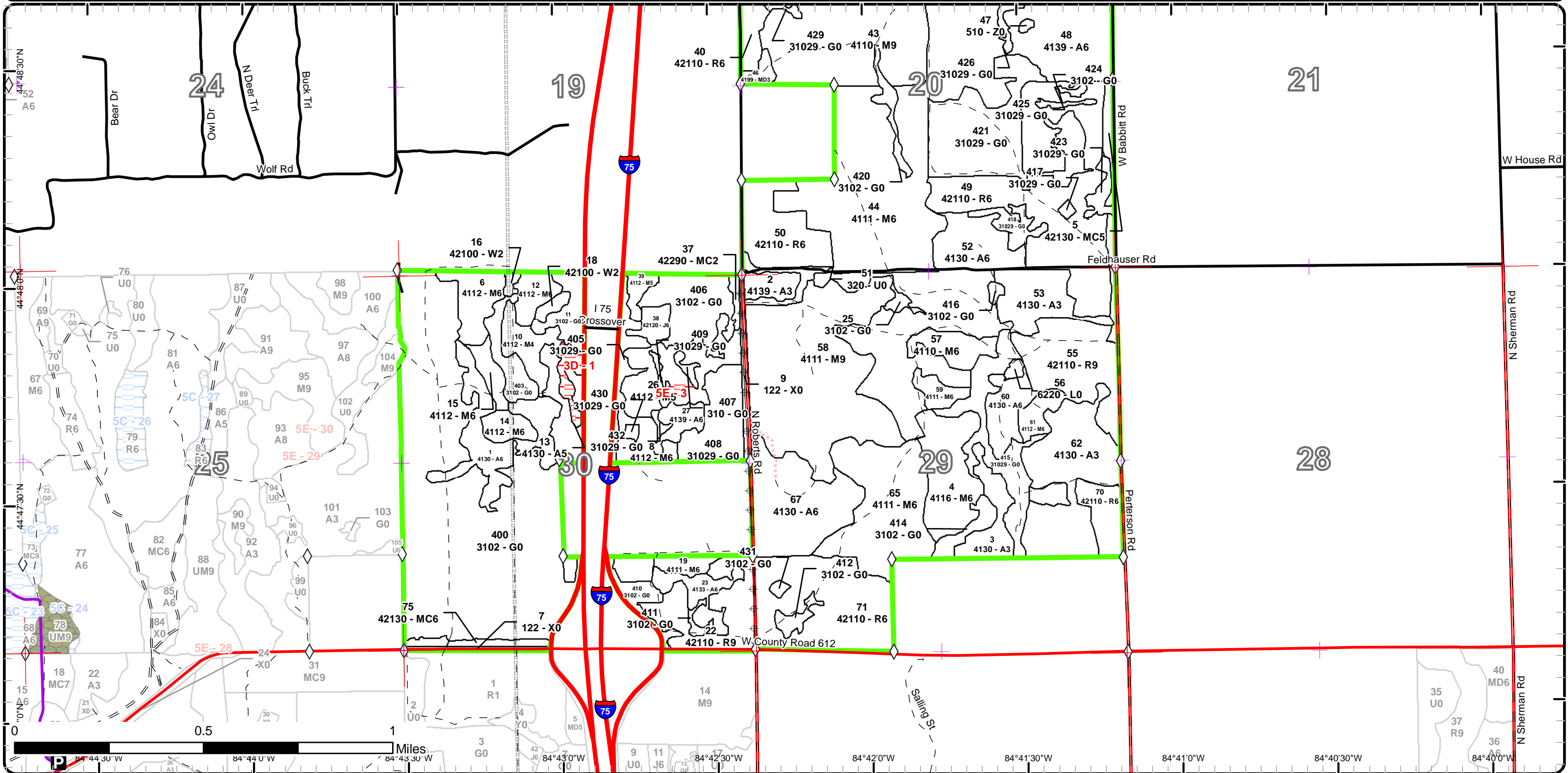


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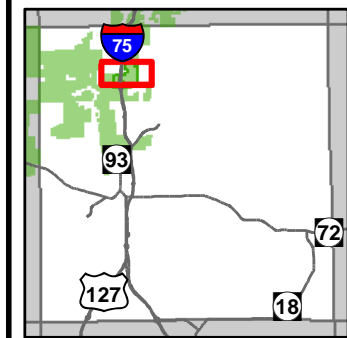
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- Trail Head
- Potential Old Growth



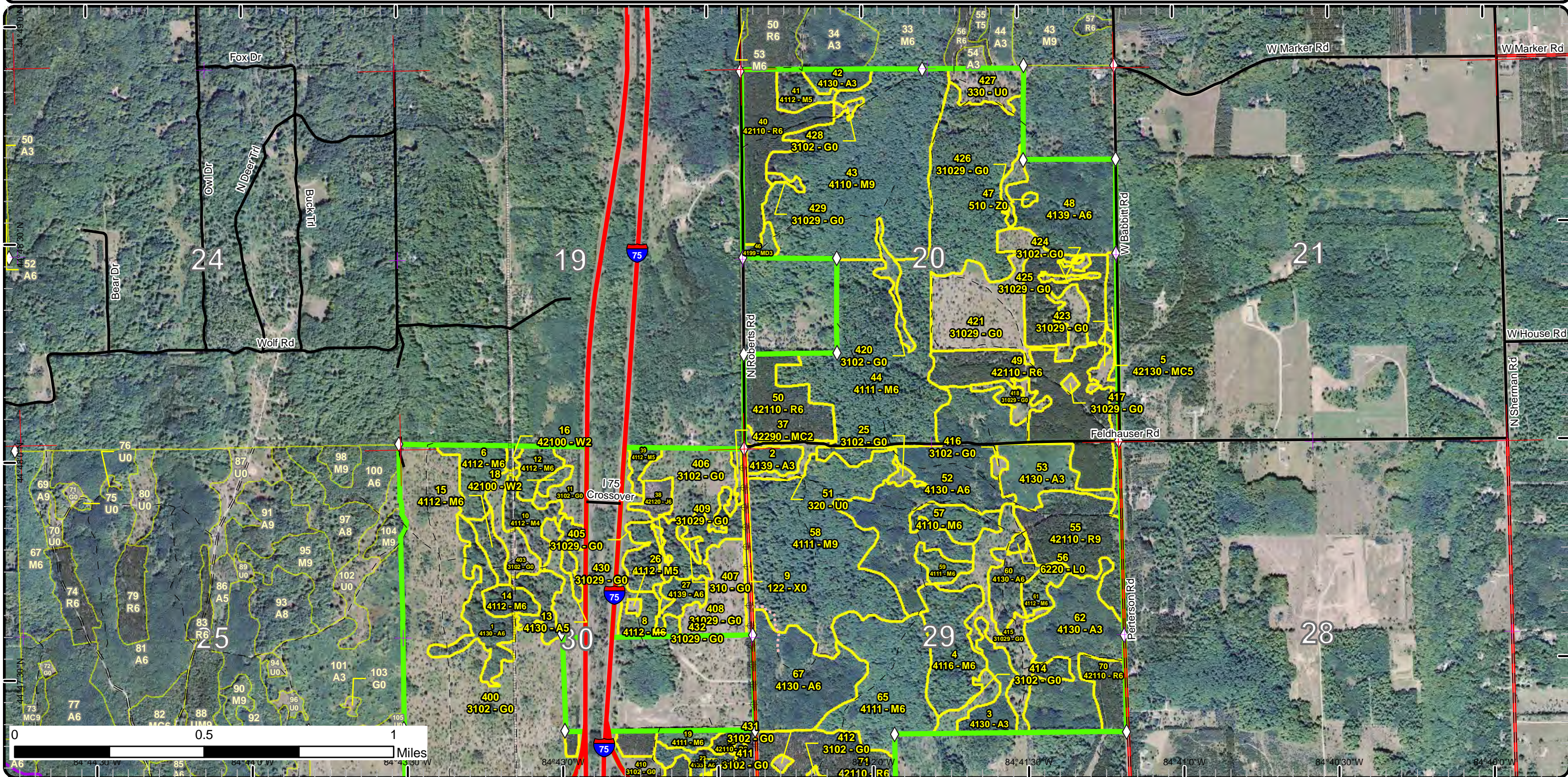
Coordinates: 44°48'30"N, 84°44'30"W, 84°43'30"W, 84°42'30"W, 84°41'30"W, 84°40'30"W, 84°40'0"W

Stand Boundary Map

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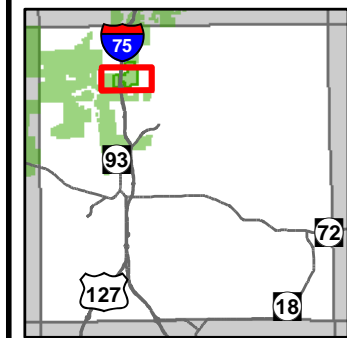


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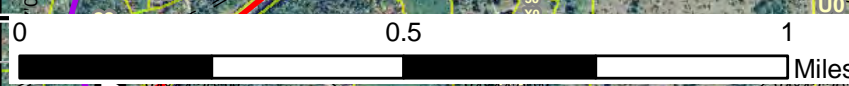
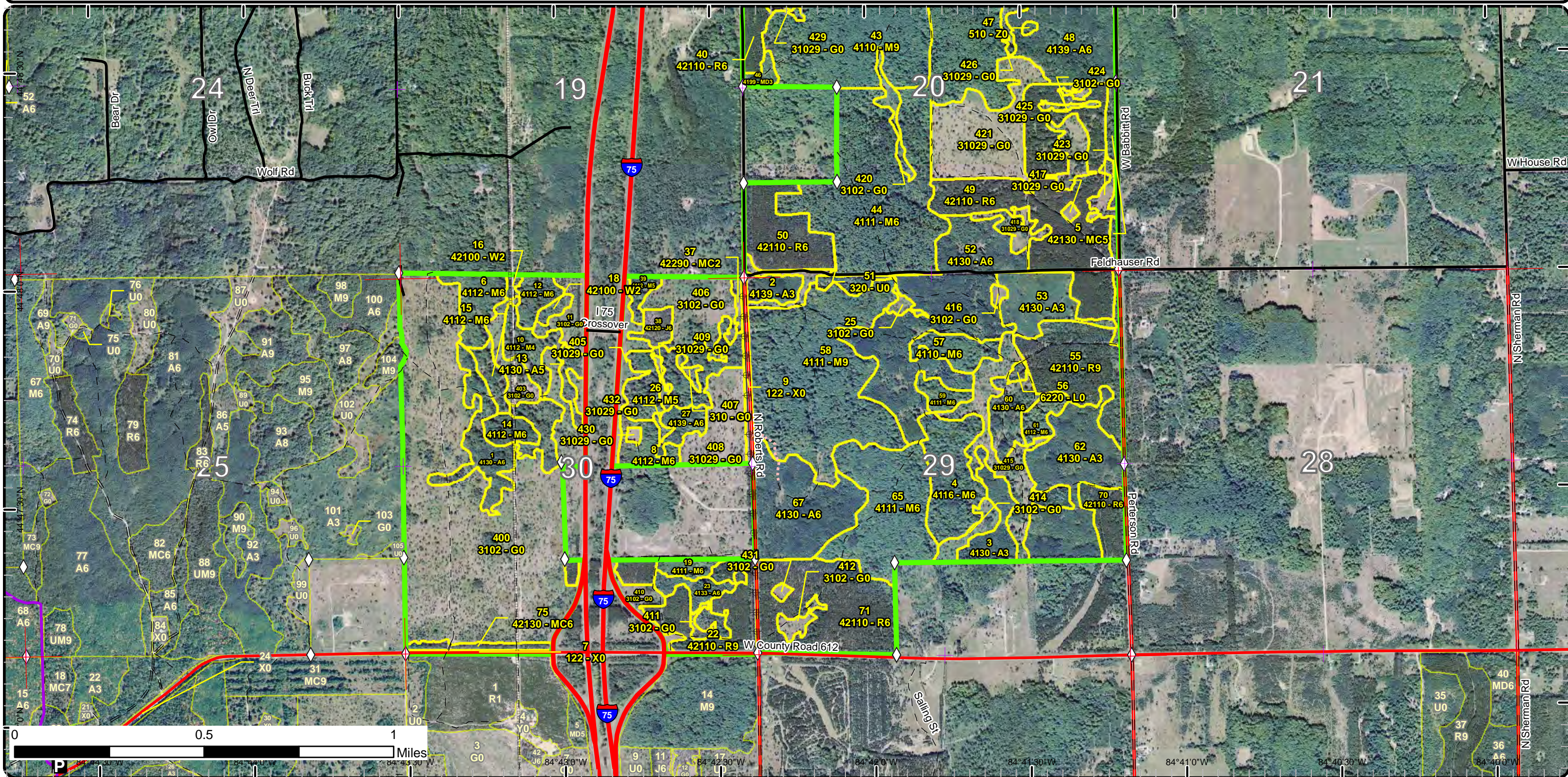


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0 0.5 1 Miles



Stand	Cover Type	Acres	Managed Site	General Comments:
7	122 - Road/Parking Lot	2.8	No	
9	122 - Road/Parking Lot	5.2	No	Road and a distribution power line
11	3102 - Grass	9.6	No	Scattered cherry, aspen, red maple, service berry, apple, sumac, hawthorn, scotch pine, red pine, and white pine. There are a few rows of planted pine along I-75.
25	3102 - Grass	1.8	No	OPIC - FMD: Raspberry, clover and trillium. A few little pocket of grassy open less than a 1/4 acre. Some TA and scattered hardwood clumps.
47	510- Water (OI)	0.7	No	Cattails and tag alder.
51	320 - Upland Shrub	5.1	No	Ironwood, bracken fern mix of service berry and cherry. A few open area with scattered clumps of sugar maple.
56	6220 - Alder/willow	1.3	No	Stand did appear to have a little pocket of water surrounded by willow, Aspen and Cherry.
400	3102 - Grass	188.1	No	Scattered cherry, aspen, red maple, service berry, apple, sumac, hawthorn, scotch pine, red pine, and white pine.
403	3102 - Grass	9.4	No	Scattered cherry, aspen, red maple, service berry, apple, sumac, hawthorn, scotch pine, red pine, and white pine.
405	31029 - Grass (OI)	8.6	No	
406	3102 - Grass	21.9	No	Scattered Cherry, red maple, aspen, white pine and some jack pine seeding in.
407	310 - Herbaceous Openland	1.5	No	
408	31029 - Grass (OI)	19.6	No	Scattered cherry, birch, aspen and white pine
409	31029 - Grass (OI)	1.7	No	
410	3102 - Grass	6.7	No	Some red pine, jack pine, and scotch pine are starting to fill in. There are a couple apple trees in the southern portion of this stand.
411	3102 - Grass	1.4	No	Stand is filling in with jack pine and some scotch pine. Next inventory it may be a forested stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
412	3102 - Grass	3.3	No	Small grass opening. A few apple trees, scattered cherry, aspen and some hawthorn. Also, starting to filling with some red pine.
414	3102 - Grass	5.7	No	Stand follows a valley, cherry service berry and bracken fern. Aspen filling in both sides.
415	31029 - Grass (OI)	24.2	No	Mostly grass a few large diameter maple, over mature clones of aspen, some hawthorn, traces of white pine and scattered low quality cherry. Survey marker along private line (FJA RLS-21266).
416	3102 - Grass	1.2	No	Old antrim well site.
417	31029 - Grass (OI)	0.9	No	Old antrim well site.
418	31029 - Grass (OI)	6.1	No	Scattered cherry, apple, hawthorn, aspen, white pine and red pine.
420	3102 - Grass	4.6	No	Scattered cherry, serviceberry, aspen, white pine and red pine.
421	31029 - Grass (OI)	46.7	No	Scattered cherry, apple, hawthorn, aspen, white pine and red pine.
423	31029 - Grass (OI)	3.9	No	Read locked OFS point
424	3102 - Grass	1.3	No	Small grassy opening. Furrowed but the red pine was either not planted or died.
425	31029 - Grass (OI)	1.1	No	Small grassy opening. Furrowed but the red pine was either not planted or died.
426	31029 - Grass (OI)	3.4	No	Stand follows a valley, cherry service berry and bracken fern. Aspen filling in both sides.
427	330 - Low-Density Trees	10.6	No	Mostly grass cherry, serviceberry and bracken fern. Aspen and hardwoods filling in both sides. Valley with some steep slopes.
428	3102 - Grass	1.4	No	Small grassy opening.
429	31029 - Grass (OI)	1.4	No	Small grassy opening.
430	31029 - Grass (OI)	0.9	No	Old antrim well site.
431	3102 - Grass	1.0	No	Old antrim well site starting to fill in with red pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
432	31029 - Grass (O)	0.9	No	OPIC - FMD: Small grassy opening.

Report 1 – Total Acres by Cover Type and Age Class



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	19	0	150	79	0	12	21	0	0	0	0	0	0	0	0	0	28	309
Herbaceous Openland	378	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	378
Jack Pine	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Natural Mixed Pines	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	4	0	224	212	0	0	0	0	0	0	101	541
Planted Mixed Pines	0	0	0	0	0	0	9	5	0	0	0	0	0	0	0	0	0	0	14
Red Pine	0	0	0	0	0	0	165	96	0	0	0	0	0	0	0	0	0	0	261
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
White Pine	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	404	21	7	150	79	0	191	126	0	224	212	0	0	0	0	0	0	129	1543



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 215

Total Compartment Acres: 1,540

Commercial Harvest - 262
 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	56	0	0	0	0	0	0	0	0	56
Herbaceous Openland	37	0	0	0	0	0	0	0	0	37
Jack Pine	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	74	24	0	0	0	0	0	0	0	98
Planted Mixed Pines	13	0	0	0	0	0	0	0	0	13
Red Pine	27	0	0	0	0	26	0	0	0	53
Total	211	24	0	0	0	26	0	0	0	262

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	262	20	0	0	57	2	19	0	223	583
Next Step	0	231	127	0	0	127	441	0	223	1148
Total	262	250	127	0	57	129	460	0	446	1731



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
1	72215001-Cut	27.8	4130 - Aspen	Poletimber Well	63	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clear cut all trees 2 inches and larger in diameter. Leave all white pine. Leave a minimum amount of retention.

Specs:

Next Step
Treatments:

Acceptable A fully stocked stand of aspen with mixed northern hardwoods.

Regen:

Other Provide protection for the pipeline that runs through the stand. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

4	72215004-Cut	27.0	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	82	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear cut all trees two inches and larger in DBH. Use minimal retention to promote aspen regeneration. Use drumming log spec in sale.

Specs:

Next Step
Treatments:

Acceptable A fully stocked stand of aspen and mixed northern hardwoods.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

5	72215005-Cut	8.5	42130 - Planted Scotch Pine	Poletimber Medium	51	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest all trees 2 inches and larger in diameter. Chip tops and require low stumps to facilitate planting operations. No retention due to small stand size and presence of scotch pine

Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant
Treatments:

Acceptable A fully stocked stand of red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

6	72215006-Cut	11.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	97	141-170	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Uneven-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all beech, in addition mark the stand to a residual basal area of 80 sqft. per acre. Place one 100 foot regen gap per acre.

Specs:

Next Step
Treatments:

Acceptable A mix of northern hardwoods

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
15	72215015	5.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	97	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clear cut all trees 2 inches or greater in diameter, leave all white pine and no retention to promote aspen regeneration. Use drumming log spec.
Specs:

Next Step
Treatments:

Acceptable A fully stocked stand of aspen and mixed northern hardwoods.
Regen:

Other Provide protection for the pipeline that runs east of the stand. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

15	72215015-Cut	6.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	97	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

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Specs:

Next Step
Treatments:

Acceptable A fully stocked stand of aspen and mixed northern hardwoods.
Regen:

Other Provide protection for the pipeline that runs east of the stand. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

19	72215019-Cut	4.4	4111 - S.Maple, Hard Mast Association	Poletimber Well	93	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest all beech, in addition mark the remaining trees to a residual basal area of 80 sqft per acre. Place one 100 foot regen gap per acre.
Specs:

Next Step
Treatments:

Acceptable A mix of northern hardwoods
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

23	72215023-Cut	10.1	4133 - Aspen, Mixed Pine	Poletimber Well	63	111-140	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear cut all trees two inches and larger in DBH. Leave tree mark two white pine per acre. No retention to promote aspen regeneration. Use drumming log spec.
Specs:

Next Step
Treatments:

Acceptable A fully stocked stand of aspen with mixed northern hardwoods and white pine.
Regen:

Other Parts of this stand may have been planted to white pine. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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
25	72215025-NF	1.8	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,
Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

26	72215026-26- New	2.7	4112 - Maple, Beech, Cherry Association	Poletimber Medium	86	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear cut all trees two inches and greater in diameter. Leave all white pine. Site condition layer reflects approximate retention island location.
Specs:

Next Step
Treatments:

Acceptable A fully stocked stand of aspen and mixed northern hardwoods.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

26	72215026-Cut	20.2	4112 - Maple, Beech, Cherry Association	Poletimber Medium	86	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear cut all trees two inches and greater in diameter. Require chipping to facilitate planting operations. A portion of the original stand is not
Specs: getting treated and will serve as retention. Site condition layer reflects approximate retention island location.

Next Step SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial
Treatments:

Acceptable A fully stocked stand of planted red pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

27	72215027-Cut	6.3	4139 - Aspen, Mixed Deciduous	Poletimber Well	68	141- 170	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear cut all trees two inches and larger in DBH. Leave all white pine. No retention to promote aspen regeneration.
Specs:

Next Step
Treatments:

Acceptable A fully stocked stand of aspen and mixed northern hardwoods.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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
37	72215037- Spray	1.8	42290 - Natural Mixed Pine	Sapling Medium	6	Immatur re	Pesticide	Aerial	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Spray stand to kill scotch pine.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial
Treatments:

Acceptable A fully stocked stand of planted red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

38	72215038-Cut	4.9	42120 - Planted Jack Pine	Poletimber Well	53	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest all trees 2 inches and larger in diameter. Chip tops and require low stumps to facilitate planting operations. No retention due to small stand size

Specs:

Next Step SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable A fully stocked stand of planted red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

39	72215039-Cut	3.8	4112 - Maple, Beech, Cherry Association	Poletimber Medium	63	1-50	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest all trees 2 inches and larger in diameter. Chip tops and require low stumps to facilitate planting operations. No retention due to small stand size.

Specs:

Next Step SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable A fully stocked stand of planted pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

49	72215049-Cut	26.7	42110 - Planted Red Pine	Poletimber Well	51	141- 170	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest all trees 2 inches and larger in diameter. Chip tops and require low stumps to facilitate planting operations. Retention is part of the part red pine stand to the south and west.

Specs:

Next Step SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable A fully stocked stand of planted red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
49	72215049-Cutx	26.5	42110 - Planted Red Pine	Poletimber Well	51	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Mark stand to an average residual BA of 120. There will be areas to walk through.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

53	72215053-Monitor	19.0	4130 - Aspen	Sapling Well	6	Immatu re	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription A fully stocked stand of Aspen and mixed northern hardwoods.

Specs:

Next Step

Treatments:

Acceptable A fully stocked stand of Aspen and mixed northern hardwoods.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 3 /15/2015

57	72215057-Cut	7.9	4110 - Sugar Maple Association	Poletimber Well	87	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all beech, in addition mark stand to a residual basal area of 80 sqft per acre. Place one 100 foot regen gap per acre.

Specs:

Next Step

Treatments:

Acceptable Mixed northern hardwoods.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

60	72215060-Cut	12.0	4130 - Aspen	Poletimber Well	58	51-80	Harvest	Clearcut	4130 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear cut all trees two inches and larger in DBH. No retention to promote aspen regeneration. Use drumming log spec in sale. Also protect service berry and hawthorn.

Specs:

Next Step

Treatments:

Acceptable A fully stocked stand of aspen and mixed northern hardwoods.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
61	72215061-Cut	6.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	88	81-110	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Clear cut all trees two inches and greater in DBH. No retention to promote aspen regeneration. Use drumming log spec in sale.

Specs:

Next Step

Treatments:

Acceptable A fully stocked stand of mixed northern hardwoods and aspen.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

65	72215065-Cut	1.9	4111 - S.Maple, Hard Mast Association	Poletimber Well	93	81-110	Harvest	Clearcut with Retention	411 - Northern Hardwood	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees two inches and greater in diameter. Treat with the adjacent clear cut of stand 4. Retention is a 3-10 percent portion of the parent

Specs: stand. Mark skid trails that connect the clear cut pockets to the clear cut in the adjacent stand.

Next Step

Treatments:

Acceptable Fully stocked regeneration pockets of mixed northern hardwoods.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

75	72215075-Cut	4.8	42130 - Planted Scotch Pine	Poletimber Well	65	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear cut all trees. Chip tops and low stumps to facilitate planting operations. Protect the pipeline.

Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable A fully stocked stand of red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

400	72215400-Cut	12.8	3102 - Grass	Nonstocked	Unspec ified		Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clear cut all trees two inches in diameter and larger. Chip all trees to facilitate planting operations.

Specs:

Next Step SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable fully stocked stand of planted red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
400	72215400-NF	161.9	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,
Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

403	72215403-NF	9.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,
Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

405	72215405- Prep	6.9	31029 - Grass (OI)	Nonstocked		Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Trench stand for planting red pine.
Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant
Treatments:

Acceptable A Fully stocked stand of planted red pine
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

406	72215406-Cut	20.4	3102 - Grass	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all trees two inches and larger in diameter to prepare the stand to trench and plant red pine.
Specs:

Next Step SitePrep, Roller Chopping; Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable Fully stocked stand of planted red pine
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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
406	72215406-NF	1.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,
Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

407	72215407-Cut	1.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest all trees 2 inches and larger in diameter. Chip tops and require low stumps to facilitate planting operations. No retention due to small
Specs: stand size

Next Step Planting, Initial Plant; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping
Treatments:

Acceptable A fully stocked stand of planted red pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

408	72215408- Burn	19.6	31029 - Grass (OI)	Nonstocked		Unspec ified	Burn	Opening	31022 - Warm Season Grass		Proposal
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Habitat Cut: No

Site Condition:

Prescription Rx burn to set back spotted knapweed and woody species and promote prairie species such as warm season grasses and wildflowers.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

409	72215409-Cut	1.7	31029 - Grass (OI)	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Harvest all trees 2 inches and larger in diameter. Chip tops and require low stumps to facilitate planting operations. No retention due to small
Specs: stand size

Next Step Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping
Treatments:

Acceptable A fully stocked stand on red pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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
410	72215410-NF	6.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,
Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

412	72215412-NF	3.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,
Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

414	72215414-NF	5.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,
Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

415	72215415-NF	24.2	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,
Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
416 72215416-NF	1.2	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

418 72215418-NF	6.1	31029 - Grass (OI)	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

421 72215421-Burn	37.8	31029 - Grass (OI)	Nonstocked		Unspecified	Burn	Opening	310 - Herbaceous Openland		Proposal
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Habitat Cut: No

Site Condition:

Prescription Rx burn to set back spotted knapweed and woody species and promote prairie species such as warm season grasses and wildflowers. Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

421 72215421-Prep	10.5	31029 - Grass (OI)	Nonstocked		Unspecified	SitePrep	Trenching	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Trench the stand to prepare to plant this stand with the adjacent stands when they get treated. Specs:

Next Step Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Aerial; SitePrep, Roller Chopping; Planting, Initial Plant Treatments:

Acceptable A fully stocked stand of planted red pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2020



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
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424	72215424- Prep	1.3	3102 - Grass	Nonstocked		Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Trench stand to plant red pine.

Specs:

Next Step Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant

Treatments:

Acceptable A fully stocked stand of red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2020

425	72215425- Prep	1.1	31029 - Grass (OI)	Nonstocked		Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Trench stand to plant red pine.

Specs:

Next Step SitePrep, Roller Chopping; Pesticide, Aerial; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant

Treatments:

Acceptable A fully stocked stand of planted red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2020

428	72215428-NF	1.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: No **Site Condition:**

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing,

Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

**Total Treatment
Acreage Proposed: 582.6**

Dominant Site Conditions

	3D	5E
Aspen	5	
Herbaceous Openland		
Jack Pine		
Low-Density Trees		
Lowland Shrub		
Mixed Upland Deciduous		
Natural Mixed Pines		
Northern Hardwood		2
Planted Mixed Pines		
Red Pine		
Upland Shrub		
Urban		
Water		
White Pine		
Total Forested Acres	5	2
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	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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
Comments				



Report 7 – 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
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S
t
a
n
d

Grayling Mgt. Unit

Report 8 – Forested Stands

Compartment: 215
Year of Entry: 2017

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Poletimber Well	27.8	63	81-110	.
2	4139 - Aspen, Mixed Deciduous	Sapling Well	6.4	27	Immature	
3	4130 - Aspen	Sapling Well	12.7	25	Immature	
4	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	27.0	82	81-110	OPIC - FMD: Solomon's seal, trillium, and trailing arbutus. What aspen is here is on its way out. Sugar maple sawlogs-a few nice most marginal. Beech and ironwood understory some sugar maple.
5	42130 - Planted Scotch Pine	Poletimber Medium	8.5	51	51-80	
6	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.7	97	141-170	
8	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.0	95	81-110	
10	4112 - Maple, Beech, Cherry Association	Poletimber Poor	10.5	97	1-50	Stand was harvested and all the maple was left. Treatment from last entry was coded as a selection harvest it was really a species removal and does not need a regen check.
12	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.2	97	81-110	
13	4130 - Aspen	Poletimber Medium	5.1	65	1-50	
14	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.1	92	111-140	
15	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.7	97	51-80	
16	42100 - Planted White Pine	Sapling Medium	1.3	12	Immature	There are no planting records. The age is just an estimate. It appears to have been planted by the adjacent land owner.
18	42100 - Planted White Pine	Sapling Medium	2.3	12	Immature	There are no planting records. The age is just an estimate. It appears to have been planted by the adjacent land owner.
19	4111 - S.Maple, Hard Mast Association	Poletimber Well	4.4	93	111-140	Average BA is 130 sqft over 3 points.
22	42110 - Planted Red Pine	Sawtimber Well	30.6	60	111-140	Stand was harvested/thinned under tsale contract 720090701 in 2008/2009. Trace of scattered aspen and there is a some white pine along the CO road. There is a Deep hole north end was not harvested and the depression should be row thinned next entry. Average ba of 140 sqft over 8 points.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4133 - Aspen, Mixed Pine	Poletimber Well	10.1	63	111-140	Stand appears to be partly planted.
26	4112 - Maple, Beech, Cherry Association	Poletimber Medium	24.4	86	51-80	
27	4139 - Aspen, Mixed Deciduous	Poletimber Well	6.3	68	141-170	
37	42290 - Natural Mixed Pine	Sapling Medium	1.8	6	Immature	Stand may have been planted?
38	42120 - Planted Jack Pine	Poletimber Well	4.9	53	81-110	
39	4112 - Maple, Beech, Cherry Association	Poletimber Medium	3.8	63	1-50	
40	42110 - Planted Red Pine	Poletimber Well	29.4	57	111-140	3rd row thinned 1998-2000. Average stand BA is 156 sqft over 7 points. Dense under story.
41	4112 - Maple, Beech, Cherry Association	Poletimber Medium	7.1	87	51-80	
42	4130 - Aspen	Sapling Well	5.7	26	Immature	
43	4110 - Sugar Maple Association	Sawtimber Well	113.5	97	81-110	OPIC - FMD: Dr. John A. Witter, University of Michigan, School of Natural Resources & Environment is doing some research (Michigan Beech Bark Disease Monitoring and Impact Analysis System) to monitor the condition and change of Michigan's northern hardwood forest overstory in response to beech bark disease and other disturbances. Stand was thinned 1998. UPDATE: There appeared to be some updated survey points/plots within the stands in regards to this work.
44	4111 - S.Maple, Hard Mast Association	Poletimber Well	148.9	85	81-110	Flat terrain once on top, mostly pole size (6-9) with some very nice stems. Crop tree to 90 BA. Prescription applied in tsale 72-040-07-01, 8/13/12. A trace of white pine in the stand.
46	4199 - Other Mixed Upland Deciduous	Sapling Well	3.1	16	Immature	Clear cut 1999 contract #002-98-01, First Time Hardwoods.
48	4139 - Aspen, Mixed Deciduous	Poletimber Well	38.8	32	1-50	
49	42110 - Planted Red Pine	Poletimber Well	76.4	51	141-170	The average BA was 160 sqft. over 19 points. Portions of the stand could be thinned but I think it should be held off until the next entry.
50	42110 - Planted Red Pine	Poletimber Well	25.3	57	111-140	Stand thinned in 2007-2008 under tsale 720130701. This stand was part of Rugged Red Pine #039-97-01 thinned from 1998 to 2000. Do an individual marking. Average stand BA of 143 sqft with 6 points. Strip of jack pine along county road.

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Grayling Mgt. Unit

Report 8 – Forested Stands

Compartment: 215
Year of Entry: 2017

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	Poletimber Well	79.4	29	Immature	
4130 - Aspen	Sapling Well	19.0	6	Immature	Stand final harvested under tsale 720130701 in 2008. It appears as if all birch was left and possibly the elm.
42110 - Planted Red Pine	Sawtimber Well	34.2	54	111-140	Stand thinned under tsale 720130701 in 2007-2008.
4110 - Sugar Maple Association	Poletimber Well	10.0	87	111-140	Aspen/mixed hardwood on both ends of stand.
4111 - S.Maple, Hard Mast Association	Sawtimber Well	90.7	93	81-110	Thinned in 2000 contract # 72--060-99-01 Roberts Rd Hardwood. 85 regeneration holes were cut, the large-crowned beech den trees were left. Dense understory of beech and iron wood.
4111 - S.Maple, Hard Mast Association	Poletimber Well	5.4	96	81-110	
4130 - Aspen	Poletimber Well	12.0	58	51-80	Stand is a combination of pockets of aspen fingering together to create one meandering stand.
4112 - Maple, Beech, Cherry Association	Poletimber Well	6.2	88	81-110	
4130 - Aspen	Sapling Well	45.7	25	Immature	
4111 - S.Maple, Hard Mast Association	Poletimber Well	47.3	93	81-110	Did QD average stand basal area of 88 sqft per acre.
4130 - Aspen	Poletimber Well	40.0	31	Unspecified	Harvested 1984, some cherry and irowood on the edges.
42110 - Planted Red Pine	Poletimber Well	14.2	60	111-140	Stand was thinned under tsale 720130701 in 2007-2008. Current BA is 135 sqft over 3 points.
42110 - Planted Red Pine	Poletimber Well	51.0	60	111-140	Stand was harvested under tsale contract 720090701 in 2008/2009. Average ba of 114 sqft over fourteen points. There are some traces of jack pine, scotch pine and white pine along the CO road.
42130 - Planted Scotch Pine	Poletimber Well	4.8	65	81-110	



Stand	Cover Type	Acres	Managed Site	General Comments:
7	122 - Road/Parking Lot	2.8	No	
9	122 - Road/Parking Lot	5.2	No	Road and a distribution power line
11	3102 - Grass	9.6	No	Scattered cherry, aspen, red maple, service berry, apple, sumac, hawthorn, scotch pine, red pine, and white pine. There are a few rows of planted pine along I-75.
25	3102 - Grass	1.8	No	OPIC - FMD: Raspberry, clover and trillium. A few little pocket of grassy open less than a 1/4 acre. Some TA and scattered hardwood clumps.
47	510- Water (OI)	0.7	No	Cattails and tag alder.
51	320 - Upland Shrub	5.1	No	Ironwood, bracken fern mix of service berry and cherry. A few open area with scattered clumps of sugar maple.
56	6220 - Alder/willow	1.3	No	Stand did appear to have a little pocket of water surrounded by willow, Aspen and Cherry.
400	3102 - Grass	188.1	No	Scattered cherry, aspen, red maple, service berry, apple, sumac, hawthorn, scotch pine, red pine, and white pine.
403	3102 - Grass	9.4	No	Scattered cherry, aspen, red maple, service berry, apple, sumac, hawthorn, scotch pine, red pine, and white pine.
405	31029 - Grass (OI)	8.6	No	
406	3102 - Grass	21.9	No	Scattered Cherry, red maple, aspen, white pine and some jack pine seeding in.
407	310 - Herbaceous Openland	1.5	No	
408	31029 - Grass (OI)	19.6	No	Scattered cherry, birch, aspen and white pine
409	31029 - Grass (OI)	1.7	No	
410	3102 - Grass	6.7	No	Some red pine, jack pine, and scotch pine are starting to fill in. There are a couple apple trees in the southern portion of this stand.
411	3102 - Grass	1.4	No	Stand is filling in with jack pine and some scotch pine. Next inventory it may be a forested stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
412	3102 - Grass	3.3	No	Small grass opening. A few apple trees, scattered cherry, aspen and some hawthorn. Also, starting to filling with some red pine.
414	3102 - Grass	5.7	No	Stand follows a valley, cherry service berry and bracken fern. Aspen filling in both sides.
415	31029 - Grass (OI)	24.2	No	Mostly grass a few large diameter maple, over mature clones of aspen, some hawthorn, traces of white pine and scattered low quality cherry. Survey marker along private line (FJA RLS-21266).
416	3102 - Grass	1.2	No	Old antrim well site.
417	31029 - Grass (OI)	0.9	No	Old antrim well site.
418	31029 - Grass (OI)	6.1	No	Scattered cherry, apple, hawthorn, aspen, white pine and red pine.
420	3102 - Grass	4.6	No	Scattered cherry, serviceberry, aspen, white pine and red pine.
421	31029 - Grass (OI)	46.7	No	Scattered cherry, apple, hawthorn, aspen, white pine and red pine.
423	31029 - Grass (OI)	3.9	No	Read locked OFS point
424	3102 - Grass	1.3	No	Small grassy opening. Furrowed but the red pine was either not planted or died.
425	31029 - Grass (OI)	1.1	No	Small grassy opening. Furrowed but the red pine was either not planted or died.
426	31029 - Grass (OI)	3.4	No	Stand follows a valley, cherry service berry and bracken fern. Aspen filling in both sides.
427	330 - Low-Density Trees	10.6	No	Mostly grass cherry, serviceberry and bracken fern. Aspen and hardwoods filling in both sides. Valley with some steep slopes.
428	3102 - Grass	1.4	No	Small grassy opening.
429	31029 - Grass (OI)	1.4	No	Small grassy opening.
430	31029 - Grass (OI)	0.9	No	Old antrim well site.
431	3102 - Grass	1.0	No	Old antrim well site starting to fill in with red pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
432	31029 - Grass (O)	0.9	No	OPIC - FMD: Small grassy opening.