



# TIMBER SALE PRESCRIPTION

## GENERAL

Date 11/28/2012	Forest, Mineral and Fire Management Unit Roscommon
Timber Sale Number (if applicable) 71-004-13-01	Sale Name (or prescription name) Claroskee Oak Thin

## LOCAL CONTACT

Name Jason Lewicki	Telephone (989) 275 -5151 ext. 2743
Email Address lewickij@michigan.gov	FAX (989) 275 - 6203

**Map of Project Area Attached**

## LEGAL DESCRIPTION

T21N R03W Section(s) 35,36 Description Various, see map

Year of Entry: 2013 Compartment(s):168 Stand Number(s): 4, 9 & 43

## THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 124 Source:  OI  GPS  Other \_\_\_\_\_

**Payment will be made on the basis of these estimated acres.**

## TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
4	O9	29	80-110	Crown thinning	Oak Sawtimber
9	O9	30	80-110	Crown thinning	Oak Sawtimber
43	O9	65	110-140	Crown thinning	Oak Sawtimber

## PRESCRIPTION

1. Stands 4 & 9. Thin stands down to 80 BA. Remove poor formed, high risk and suppressed oak. Red maple will be spec cut. Promote growth on stems with quality sawtimber potential. Target black oak and favor red oak with future sawlog potential. Protect and promote white pine.
2. Stand 43. Thin stand from below to 80 BA. Thin by removing suppressed and poor formed oak. All red maple and aspen will be spec cut. Promote growth on high quality sawlog red oak. Remove most oak within big aspen clones to promote aspen regen. Leave high quality mast tree oak within these aspen pockets.
- 3.
- 4.
- 5.
- 6.

**Access**

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Boundary line and acreage determination	12/1/2012

**CONTRACT WORK CAN BEGIN**

Immediately  Date: 12/1/2012

**CONTRACT WORK MUST BE COMPLETED BY** Date 3/31/2014

**PAINT LINE WORK**

This is included in the bid     This is not included in the bid

Paint line work to be performed: (See attached map for locations)

TYPE OF LINE	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR	
Private boundary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

Standards for marking lines against private land

**AREA CALCULATION**

This is included in the bid     This is not included in the bid

UNIT	METHOD	STANDARD
Sale	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Payment Unit	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

**TIMBER CRUISING SPECIFICATIONS**

This is included in the bid     This is not included in the bid

Required Basal Area Factor:  10     20     Other:

Cruise Line Directions    East/West or North/South

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stand 4	1/acre (29 total)	3 X 3
Stand 9	1/acre (30 total)	3 X 3
Stand 43	.82/acre (53 total)	3.5 X 3.5
		X
<b>TOTAL NUMBER OF CRUISE POINTS</b>	112	

**Cruise Special Instructions:**

Cruise all aspen, cruise all marked trees by species.

Cruise sawtimber and pulpwood

Record residual BA for all stands.

Refer to contract and attached appendix for detailed cruise instructions.

Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

**TIMBER MARKING SPECIFICATIONS**

This is included in the bid     This is not included in the bid

Precise specifications to be delineated at pre-work meeting with DNR staff

**Total Merchantable Residual BA (Basal Area):** 80 (Minimum 70 to Maximum 90)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		N/A	
Girdled Trees Per Acre		N/A	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Orange slash	10 inch	8 inch
Sawbolts	NA		
Pulpwood	Orange slash	4.6 inch	4 inch

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
	1 :
	1 :
	1 :
	1 :

**SPECIAL MARKING INSTRUCTIONS**

Paint marks must be dark enough to last for a three year contract. Stump marks must extend from the tree onto the ground (approx. 2/3 tree & 1/3 ground) and Paint marks must be able to be seen from at least three sides of the tree. Do not thin multi-stemmed trees - cut all stems or leave all stems in multi-stemmed trees.

Gallon or quart paint can be provided but contractor must specify preference with plenty of lead time to make sure desired paint is available.

Documentation of residual BA check plots must be available at time of inspection.

**Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.**

**RESTRICTIONS**

1. Forest, Mineral and Fire Management Division must to be able to identify who did what on the timber sale.
2. The contractor may not have more than two markers in one payment unit without prior approval.
3. Each marker should have an assigned area to mark (not strips).

**PAINT**

1. Call Jason Lewicki at (989) 275 - 5151 ext. 2743, to make arrangements for paint.
2. Paint will be supplied from Roscommon Field Office.
3. Contractor's work schedule must coincide with the DNR work schedule for paint supply.
4. The DNR will not be available on weekends or evenings.

**DELIVERABLES**

1. A list of names that marked or cruised each payment unit.
2. A summary of paint used (in quarts).
3. Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
4. GPS files for any GPS work.

**When Cruising:**

- Contractor must follow the cruising guidelines in the Michigan DNR's "Product Standards and Cruising Manual"
- Data must be recorded so volume can be determined by stand.
- Cruise all marked units using the V-Bar Cruise Method.
- Cruise all ash and beech trees along with all marked trees to cut by species that will yield one or more 100" sticks with a minimum top diameter of four (4) inches DIB for pulpwood and eight (8) inches DIB for sawlogs.
- Limiting distance for borderline trees should be measured for all trees designated to be cut.
- Within all marked stands, residual basal area (merchantable sized trees) at each plot must also be recorded on the cruise sheets.
- Plot centers must be marked according to contract specifications and correspond to a legible 1:15840 scale cruise map. Cruise specifications may be altered as necessary by the LCA.
- Plot locations must be submitted in a .shp or .way file format
- Cruise data must be submitted in a TSale compatible electronic format (microsoft excel, or a .crl file created by a program such as TSale or T-Cruise, or other electronic format approved by the LCA)
- If data is collected on paper then entered electronically, a copy of the original cruise sheets must also be submitted.

**When marking** prioritize selection of trees to be cut in the following order:

1. Marking must comply with The Compleat Marker, The Complete Marker Addendum, and Within Stand Retention Guidelines (IC4110.)
2. Of the residual trees in the marked stands retain the following when possible:
  - Under-represented species.
  - Mast trees - at least 3 trees/acre when available.
  - Leave all super-canopy trees or "Legacy Trees" – remnants of the historical stands.
  - Live cavity trees and snags.
3. Mark all stems including non-merchantable stems within the regeneration gaps.
4. Release 50 potential crop trees per acre.
  - Manage for best tree in place.
  - For trees less than 8" DBH, release all sides of the crown. For trees greater than 8" DBH remove the two most significant crown competitors. (Refer to The Compleat Marker for crop tree specifications.)
  - Be certain that marked trees can be felled using modern logging equipment.
5. Remove high risk and cull trees.
6. Thin from below until stocking is reached.
7. All marking must be done in dry weather and on dry bark surfaces.
8. Stump marks are required, winter marking is allowed providing snow depths are low enough to achieve proper stump marks. Check with the LCA if winter work is possible.

**Reserved Species:** Do not mark within 100' of any raptor nest trees. Report these to the LCA as soon as possible and directions will be given at that time.