

## MICHIGAN DEPARTMENT OF NATURAL RESOURCES FOREST, MINERAL AND FIRE MANAGEMENT

#### TIMBER SALE PRESCRIPTION

GENERAL								
<b>Date</b> May 16, 2008				Forest Management Unit Roscommon				
<b>Timber Sale Num</b> 71-035-08-01	imber Sale Number (if applicable) Sale Name (or prescription 193 Oak			escription na	me)			
LOCAL CONTACT								
	FAX Number							
					Email Address Anderss1@ michigan.gov			
⊠ Map of Project Area Attached								
			LE	GAL DES	SCRIPTION			
T23N R 2E Section(s) 32 & 33 Description SW of the NE of Sec 32 and W1/2 of the SE of the NW of Sec. 33								
Year of Entry:2008 Compartment(s):193 Stand Number(s): 151 and 164								
	THIS	TIMBER S	ALE CONTRA	CT IS BA	SED ON THE F	OLLOWING	ACREAGE	
Estimated Acres: 43 Source: SOI GPS Other								
Payment will be made on the basis of these estimated acres.								
		S	200 CONTROL CO		& OBJECTIVE			
STAND#	COVER TYPE	ACRES	BA		EATMENT		MANACEMENT OF IECTIVE	
escon	100	laction.	Train access		2	82	MANAGEMENT OBJECTIVE	
151	09	35	140	Select:		Oak	<del></del>	
164	08	8	140	Select:	ion	Oak		
						5		
					~			
					-			
				PRESCE	RIPTION			
1. Stand 151 and 164: Mark oak to cut with orange paint. Target residual basal area of Stand 151 is 90 BA. Target residual of Stand 164 is 80 BA. Residual should be composed of healthy crop trees, with the intention of developing larger diameter on those red oak of the highest quality on the site. Cruise all red maple, aspen and those oak marked to remove  Access:								
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK							ESTIMATED DATE	
Private Boundaries						6/1/08		
CONTRACT WORK CAN BEGIN:								
X Immediately								
CONTRACT WORK MUST BE COMPLETED BY: Date 12/15/2008								

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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		☐ ☐ Blue		Other:				
Sale boundary	X		x Red	Other:				
Sale cutting unit	х		x Yellow	Other:				
Stand type line				Other:				
Exclusions to mark and why: Standards for marking lines against private land:								
		AREA CALCUL	ATION					
☐ This is included in the bid   ☑ This is not included in the bid								
UNIT	METHOD			STANDARD				
Sale	☐ String Chain	☐ Other						
Payment Unit	PS String Chain Other							
Stand GPS String Chain 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: N/S								
CRUISING UNITS		1 point p	er acre	SPACING (	CHAINS)			
Std 151 (PU 1,2)		1		3 X 3				
Std 164(PU 3)		1		3 X 3				
and a second control of the second control of				X				
				Х				
TOTAL NUMBER OF CRUISE POINTS 43								

#### Cruise Special Instructions:

Cruise all species separately, unless otherwise noted at on site meeting with Roscommon Staff Residual BA by species should also be recorded at each point

Cruise data should be separated per Payment Unit with in a particular stand, however-cruise point density shown is based on stand acreage, not PU acreage. (prevents over-sampling)

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 Residual BA (Basal Area): <u>Std 151=90</u> (Min <u>80</u> to Max 100), <u>Std 164=80</u> (Min <u>70</u> to Max <u>90</u> )								
TREAT	<b>TMENT</b>	NUMBER	SIZE					
Regeneration Gaps Per Acre	•							
Girdled Trees Per Acre	MARIANO SYMPOL	none	TOD DID					
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB					
Sawlogs	Dot both sides and stump mark	10.0"	9.0"					
Pulpwood	Slash both sides and	4.6"	4.0"					
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR					
Trees marked to leave		$\boxtimes$	Green					
Trees marked to cut	$\boxtimes$	, 🔲						
COLUMN CO	9755.506		☐ Other					
TALLY INTENSITIES								
	SPECIES /	PRODUCT	A					
All species / Sawlogs		1:1						
,		1:						
		1:						
		1:						
SPECIES TO REDUCE: Aspen, Red Maple, and poor formed, high risk oak SPECIAL MARKING INSTRUCTIONS: Mark using "Crop Tree Release" method (see <i>The Compleat Marker</i> for more info). Retain 1-2 wildlife den trees per acre, when present. Retain 1-2 trees of declining vigor for future snag production. Regeneration gaps should be placed in areas containing poor quality trees (if possible).								
Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.								
RESTRICTIONS: PAINT:  1. Call Dale Ekdom at (989) 275 - 4622 ext 2741, 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, including a Map of this info.  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.								

# ROSCOMMON MANAGEMENT UNIT MARKING BOUNDARIES AND AREA

- 1. The attached type map delineates the contract marking area.
- Marking must be done in dry weather and when tree surfaces are not wet.
- Paint the boundary line in such a way that it can be seen both from the inside of the sale area and when walking along the line from either direction (two sides).
- 4. The Roscommon Management Unit does not contract the marking of private lines on any of our timber sales. Management Unit personnel will mark private lines with blue paint and the contractor will mark remaining stand(s) with red paint so as to obtain complete closure of all stands designated for cutting.
- If sale is to be divided into cutting units, line location will be as shown on attached map of sale.
   Cutting lines will be marked with yellow paint on four sides of trees.
- Place Marks approximately six feet above the base of the tree.
- 7. The contractor will keep track of total quarts of paint used per-sale by color.
- Contractor must use GPS to determine acreage.
- Position Mode must be set so that GPS receiver collects data from a minimum of four satellites and 3D.
- 10. GPS receiver must log PDOP, SNR, number of satellites, and mode of collection (Manual/GPS).
- 11. PDOP mask must not exceed 7. This can be modified if approved by the Unit Manager.
- 12. GPS data must be differentially correct and provided in either ESRI .SHP or Trimble .COR format. Files will contain PDOP(HDOP at the discretion of the Unit Manager), SNR, number of satellites, and mode of collection (Manual/GPS) for each point collected. In addition, supply a disk of traverse file along with hard copy of the corrected traverse file.

## ROSCOMMON MANAGEMENT UNIT TIMBER CRUISING SPECIFICATIONS

- Cruise at a rate specified in the Timber Sale Preparation Prescription.
- 2. Use a 10-factor prism for all plots. Plots shall be evenly distributed throughout sale area.
- Use the product standards to determine products and heights of products. See appendix D of product summary in the "The Compleat Marker: A Guide to Managing Northern Hardwoods on Michigan State Forests".
- 4. Mark location of plots on the map, using the plot number.
- 5. Unless otherwise agreed to by the contract administrator and the contractor, plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with ribbon attached to it at a height of not less than two feet above the ground, and labeled with the plot number. In addition, ribbon at least 12 inches long must be attached to a tree closest to plot center.
- All cruise sheets must have compartment number, stand number, unit number, prism factor, date, individual tree species, and the cruiser's name.
- 7. A copy of the POSALE program will be provided to the successful bidder for cruise data entry.
  Original cruise sheets and a disk containing the cruise data exported from POSALE must be delivered upon the completion of the sale. Note: At the cruise data entry screen in POSALE, when prompted to enter the stand acres, enter your actual GPS acres for that stand—NOT the contract's estimated inventory-based acreage.

Appendix C

#### ROSCOMMON MANAGEMENT UNIT LEAVE TREE MARKING SPECIFICATIONS

- Leave Trees must be marked at breast height and also stump marked with green paint.
- 2. Paint on leave trees must be able to be seen from all sides of the tree.
- Den trees and good mast trees, if found, must be marked to leave for wildlife.