

TIMBER SALE PRESCRIPTION

				GENERAL				
Date				Forest, Mineral a	Forest, Mineral and Fire Management Unit			
5/5/08			Roscommon	Roscommon				
Timber Sale Number (if applicable) Sale Name (or prescription r					rescription name	e)		
71-033-08-01					Reilly Road Oak			
				LOCAL CONTACT				
Name				Telephone				
Steve Anders			The second secon	(989) 275 - 4622 FAX				
Email Address								
anderss1@michigan.gov (989) 275 - 6203								
⊠ Map of Project Area Attached								
i.				GAL DESCRIPTION				
T22N R03W	Section(s) 30	& 32	Description	SW1/4 of Sec. 30 a	and NE1/2 c	of Sec. 32		
Year of Entry: 2008 Compartment(s):113 Stand Number(s): 22 & 35								
	THIS	TIMBER S	ALE CONTRA	CT IS BASED ON THE	FOLLOWING	ACREAGE		
Estimated Acre	s: 108 Sour	ce: 🛛 O	I ☐ GPS	Other				
# 100 A 200		1/01/04/03/03/03/04 <u></u>	0 0000 000	-				
Payment will be n	nade on the basis	of these e						
OTAND #	COVED TYPE	AODEO	1/45571	ATMENT & OBJECTIVE		MANAGEMENT OR JECTIVE		
STAND#	COVER TYPE	ACRES	BA	TREATMENT		MANAGEMENT OBJECTIVE		
22	08	45	50	Seed Tree	Oak			
35	09	63	130	Shelterwood Prep	Oak			
			0	72				
				PRESCRIPTION				
regener	ation under	4''. Ave	erage residu	e oak, red pine, a ual basal area of w nagement objective	white oak,	red pine, and white pine		
						re of lower quality oak		
						If removal of oak will cause		
excessive damage to the surrounding residual red and white pine it should be left in place.								
Target residual basal area is 90 SF +/- 10 SF of white and red oak and white and red pine. Manage for a mixed stand of oak and pine.								
3. Both stands - Mark non-oak den trees and future snag trees.								
4.								
5.								
Access Access is via Reilly road east and west of Reserve Road, south of M-55.								
DNR PF	REPARATION W	ORK TO	BE DONE PRI	OR TO CONTRACT WO	RK	ESTIMATED DATE		
2								
CONTRACT WORK CAN BEGIN								
☐ Immediately ☐ Date:								
CONTRACT WORK MUST BE COMPLETED BY Date 12/15/08								

		PAINT LINE V	V ORK					
☐ This is included in the bid ☐ This is not included in the bid Paint line work to be performed: (See attached map for locations)								
	(р	,					
TYPE OF LINE	WORK TO BE DONE	BE DONE NOT APPLICABLE		PAINT COLOR				
Private boundary			☐ Blue		Other:			
Sale boundary			⊠ Red		Other:			
Sale cutting unit lines	\boxtimes				Other:			
Retention Islands Exclusions to mark and why	\boxtimes		□ Red		Other:			
Mark a 2-3 acre retention island in the middle of Stand 22, north east of Stand 23. Mark a 2-3 acre retention island in the middle of Stand 35. Meet on-site with DNR personnel prior to commencement of fieldwork for additional instructions on leaving retention. Standards for marking lines against private land N.A. AREA CALCULATION								
☐ This is included in the bid	☐ This is not	included in the	e bid					
UNIT METHO	DD			ST	TANDARD			
Unit Lines 🖂 GP	S 🗌 String Chai	in 🗌 Other						
Retention Island	S 🗌 String Chai	in 🗌 Other						
Stand	S String Chai	in □Other						
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 Variable								
CRUISING UNIT	'S	NUMBER OF PLO	TS PER ACRE		SPACING (CHAINS)			
Stand 22	2	1		3 X 3				
Stand 35		1.	2	3 X 4				
					X			
				Х				
TOTAL NUMBER OF CRUI								
Cruise Special Instructions: Determine and record residual basal area by species for each plot on both Stand 22 and Stand 35. See also Appendix B. Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.								

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	TIMBER MARKING	SPECIFICATIONS			
$oxed{\boxtimes}$ This is included in the bio	d 🛛 This is not included in	n the bid			
□ Precise specifications to	be delineated at pre-work m	eeting with DNR staff			
Total Merchantable Residua	IBA (Basal Area) - Stand 35	ວ ້: <u>໑໐</u> (Minimum <u>੪໐</u> to Ma	ximum <u>100</u>)		
TREAT	TMENT	NUMBER	SIZE		
Regeneration Gaps Per Acre Girdled Trees Per Acre	•				
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB		
Sawlogs					
Sawbolts					
Pulpwood					
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR		
Trees marked to leave – Stand 22	\boxtimes		⊠ Green ☐ Other		
Trees marked to cut – Stand 35	\boxtimes				
	THE CONTRACT OF THE CONTRACT O	TENSITIES			
SPECIES /	PRODUCT	RATIO			
		1:			
		1 :			
		1:			
SPECIAL MARKING INSTRU	ICTIONS				

Stand 22 - Mark at least 1 wildlife den tree and/or well crowned red oak mast tree per acre. also Appendix C.

Stand 35 - Cut all aspen, jack pine and red maple via specification. Leave all red and white pine. Mark lower quality red and white oaks to cut removing approximately 20 SF/acre of oak. Target residual basal area is 90 SF/acre or red/white oaks and red/white pine.

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 Dale Ekdom at (989) 275 4622, 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.

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.
- 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.
- 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

- 1. 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".
- 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

- 1. Leave Trees must be marked at breast height and also stump marked with green paint.
- 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.