

TIMBER SALE PRESCRIPTION

GENERAL										
Date					Forest, Mineral and Fire Management Unit					
10/14/08				Roscommon	Roscommon					
Timber Sale Numb			Sale Name (or pr	Sale Name (or prescription name)						
71-006-09-01			Buffalo Road	Buffalo Road RPP						
Managa		L	OCAL CONTACT							
Name			·	Telephone						
Patrick Potte Email Address				(989) 348 – 6371 x7441 FAX						
				(989) 348-8825						
☐ Map of Project Area Attached										
LEGAL DESCRIPTION										
T24N R04W Section(s) 17 & 18 Description SENE; NESE; NWNW & NWNE; W1/2NW										
Year of Entry: 2003 Compartment(s):23 Stand Number(s): 3,6,10,24,103										
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE										
Estimated Acres: 75 Source: OI GPS Other GIS										
Payment will be made on the basis of these estimated acres. TREATMENT & OBJECTIVE										
STAND#	COVER TYPE	ACRES	BA	TREATMENT		MANAGEMENT OBJECTIVE				
3	R8	14	60	Final Harvest		with Hardwood component				
6	R9	17	100	Final Harvest		a R/W Pine component				
10	R8	15	50	Final Harvest		with Hardwood component				
24	R9	17	70	Final Harvest		with Hardwood component				
103	R8	12	50	Final Harvest	Red Pine	with Hardwood component				
				PRESCRIPTION						
 Stand 3 and 103 - Final harvest with retention and plant red pine, leave one (1) one-half (.5) acre island of pine in west arm of each stand (Total = 1 Acre) for retention, mark 3 red pine per acre with a double green paint line that encircles the tree to leave (wildlife to girdle these trees for snags after harvest is complete), manage for a mixed stand of pine and hardwoods Stand 10 - Final Harvest with retention and let stand regenerate to hardwoods, mark 10 BA of red pine/white pine & 10 BA of oak to leave for diversity and mast, leave a fifty (50) foot buffer/retention around well pads and "G" types, manage for hardwoods with scattered pine Stand 6 and 24 - final harvest with retention and plant red pine, leave pockets/strips of white pine and oak/hardwoods out of sale for retention while putting in the sale boundary, mark 3 white oaks per acre to leave for diversity and wildlife mast. 5. 										
DNR PR	EPARATION W	ORK TO E	BE DONE PRIC	OR TO CONTRACT WO	RK	ESTIMATED DATE				
2111111			3		·-					
						+				
CONTRACT WO	nediately	Date:	EDBY Date 07	/30/2009						

TVDE OF LINE	WORKER	DONE NOT ARRUST	DI E	PAINT COLOR		
TYPE OF LINE	WORK TO BE				Other:	
ate boundary			Blue	<u> </u>		
e boundary			⊠ Red	Other:		
Sale cutting unit Retention				Other:		
staff, See als	so Appendix A			given at pre-work meeti:		
			CULATION			
This is included in		is not included in	tne bia		CTANDARD	
HINIT	METHOD			CTANDADD		
	METHOD	a Chain Other		STANDARD		
Sale	☐ GPS ☐ Strin	g Chain Other		STANDARD		
Sale Payment Unit Stand ecial Instructions: and, payment ur	☐ GPS ☐ Strin ☐ GPS ☐ Strin ☐ GPS ☐ Strin ☐ GPS files mus nit, and reten	g Chain Other g Chain Other st provide acr tion island. eatures. Unit 1	Sale boundaries ines must be re	total sale area and , stand boundaries, and ecorded as line featur	reten	
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Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

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	HMBER MARKING	SPECIFICATIONS			
$oxed{\boxtimes}$ This is included in the bi	d This is not included in	n the bid			
□ Precise specifications to	be delineated at pre-work me	eeting with DNR staff			
Total Merchantable Residua	I BA (Basal Area): Stand 10	0 20 Pine/Oak (Minim	num 10 to Maximum 30)		
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 BONE	NOT APPLICABLE	DAINT COLOR		
TYPE OF WORK	YPE OF WORK WORK TO BE DONE		PAINT COLOR		
Trees marked to leave			⊠ Green		
Trees marked to cut			☐ Orange		
			Other		
		TENSITIES			
SPECIES /	PRODUCT	RATIO			
		1 :			
		1:			
		1 :			
		1:			

SPECIAL MARKING INSTRUCTIONS

Stand 3 and 103 - mark 3 red pine trees per acre with a double green paint line that encircles the trees so wildlife division employees can identify and girdle these trees for snags after the sale is complete. Mark any den trees found with a single green paint line which encircles the tree. Also see Appendix C.

Stand 10- mark 10 BA of Red/White Pine and 10 BA of oak to leave for diversity and mast with a single green paint line which encircles the tree. Also see Appendix C.

Stand 6 and 24 - mark 3 White Oaks per acre to leave for diversity and mast with a single green paint line which encircles the tree. Also see Appendix C.

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 Patrick Potter at (989) 348 6371 x7441, to make arrangements for paint.
- 2. Paint will be supplied from Grayling 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.
- 2. Marking must be done in dry weather and when tree surfaces are not wet.
- 3. 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.
- 6. 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.
- 8. 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.
- 13. GPS units used must be compatible with Pathfinder Office (2.01) or later or be capable of producing Arcview-compatible shapefiles. Contractor will supply electronic and hardcopies of the corrected and edited (outlier/erroneous points cleaned up) GPS files.

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".
- 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.
- 6. 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.
- 2. Paint on leave trees must be able to be seen from all sides of the tree.
- 3. Den trees and good mast trees, if found, must be marked to leave for wildlife.