

MICHIGAN DEPARTMENT OF NATURAL RESOURCES FOREST, MINERAL AND FIRE MANAGEMENT

TIMBER SALE PRESCRIPTION

		GENERAL								
Date 02/08/2008		Forest Management Unit Atlanta Unit								
Timber Sale Number (if applicable)	(if applicable) Sale Name (or prescription n Compartment 008 Mark									
LOCAL CONTACT										
Telephone Number (989) 785-4251 x 5243		FAX Number (989) 785-3	FAX Number							
Name Richard Barber										
	⊠ Map of Project Area Attached									
	LEC	GAL DESCRIPTION								
T31N R01E Section(s) 8 Desc	ription: NESW, S29	SW, SE/4								
Year of Entry: 2008 Compartment(s):	8 Stand Number((s): 20 & 21								
THIS TIMBER	SALE CONTRAC	T IS BASED ON THE F	OLLOWING	ACREAGE						
Estimated Acres: 115 Source: ☑ OI ☐ GPS ☐ Other Actual Acres: Source: ☐ OI ☐ GPS ☐ Other Total Acres: 115 Payment will be made on the basis of these estimated acres.										
	TREA ¹	TMENT & OBJECTIVE								
STAND# COVER TYPE ACRE		TREATMENT	//	MANAGEMENT OBJECTIVE						
20 N. Hdwd 73	119	Single Tree Cut		Northern Hardwoods						
21 Aspen, Oak 42	97	Single Tree Cut	Oak							
		3		100 100						
		DDESCRIPTION								
	0	PRESCRIPTION		L Discount of the control of the con						
 Stand 20: put in boundary and Unit Lines vernal pods and use painted, GPS'd boundar size. Stand 21: Oak, put in boundary and unit around vernal pods and use painted, GPS'd byushes BA over 90. 	es to exclude steep s lines, determine area	slopes from sale. Create one by GPS, mark to 85 BA, ta	e regeneration lly logs and c	n hole per 3-5acres, 1 to 1.5 X tree height in cruise pulp. Paint and GPS 1 ch buffer						
Access: by Co. Rd. 489 and 2-tracks.										
DNR PREPARATION WORK T	ESTIMATED DATE									
All work in the Compartment will be done by										
CONTRACT WORK CAN BEGIN:										
☐ Immediately ☐ Date: CONTRACT WORK MUST BE COMPLI	ETED BY: Date 12	/15/2008								

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				
Internal Buffer, Slope, o	Secretary Secret	П	Blue	Face recent	her: Green				
Sale boundary			Red	-	her:				
Sale cutting unit		П	⊠ Yellow	□ Ot	entanta va				
Stand type line		n	⊠ Yellow		her:				
Exclusions to mark and why: Contractor will put in all sale and unit boundary lines. Refer to the contract and attached appendix for detailed instructions.									
Standards for marking lines against private land: See Contract Specifications 1-B,7.a. AREA CALCULATION									
☐ This is included in the bid ☐ This is not included in the bid				OTANDADD					
UNIT	METHOD				STANDARD				
Sale	☐ GPS ☐ String Chain	Other							
Payment Unit Stand	☐ GPS ☐ String Chain ☐ String Chain ☐	Other Other							
		s equipment. The o	corrected map at a						
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: North-South									
CRUIS	SING UNITS	NUMBER OF PLOTS PER ACRE			SPACING (CHAINS)				
Stand 20		Approx	. 0.6 3.5 X 4						
Stand 21		Approx	x. 0.6	3.5 X 4					
TOTAL NUMBER OF CRUISE POINTS TBD by L Cruise Special Instructions: Refer to the contract and attached appendix for detailed instructions.			but approx. 69						
Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.									

R 4038 (03/17/2003)

	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): 75 (Minimum 70 to Maximum 80) Stands: 20								
Total Residual BA (Basal Area): 85 (Minimum 80 to Maximum 90) Stands: 21								
TREA*	TMENT	NUMBER	SIZE					
Regeneration Gaps Per Acre in	Stand 20:	0.2-0.5 per acre	1 to 1.5 times tree ht.					
Girdled Trees Per Acre		NA	NA					
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB					
Sawlogs	X and dot per 8ft log	10 inches	8 inches					
Sawbolts	NA	NA	NA					
Pulpwood	slash	4.6 inches	4 inches					
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	DAINT COLOD					
	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR					
Trees marked to leave			☐ Green ☐ Other					
Trees marked to cut		Π Π	☑ Orange					
			Other					
	TALLY IN	ITENSITIES						
SPECIES /	PRODUCT	R	RATIO					
Sawlogs		1:1						
Pulpwood: see cruising	section	>						
SPECIES TO FAVOR: Contact LCA for stand specific information.								
SPECIES TO FAVOR: Contact LCA								
SPECIAL MARKING INSTRUCT	IONS:							
See attached Appendix and contact LCA.								
Unless otherwise specified, the t	ally sheets used must be those p	rovided by the Forest. Mineral ar	nd Fire Management Unit.					
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 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 Richard Barber at (989) 785 -4251 ext 5243, to make arrangements for paint. 2. Paint will be supplied from (location). 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, including all red, green or yellow painted lines.								

Compartment 8 Oak and Hardwood Contract TIMBER SALE PRESCRIPTION APPENDIX When establishing paint lines:

- . The attached type map delineates the contract marking area.
- Avoid using dead or badly damaged trees boundary trees must last for the duration of the timber sale (up to 3-4 years).
- Favor the use of reserved species such as cedar.
- Avoid using small (fast-growing) stems and those exposed to direct sunlight.
- 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). Each boundary
 line tree must be stump-marked, at the base of the stump (one side) between the roots
 extending all the way to the ground.
- · 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.
- The contractor will use a GPS unit to determine enclosed acreage to the nearest one-tenth acre, unless an alternative method is approved prior by Unit Management.
- GPS units used must be compatible with Pathfinder Office (2.01 or later) and capable of producing a Trimble .COR file format. Supply a disk of the traverse file along with a hard copy of the corrected traverse file.
- Position Mode must be set so that GPS receiver collects data from a minimum of four satellites. This must be recorded in the position properties window after downloading.
- Positions deliver ODS (over determine system) data. 2D position will not be acceptable.
- The GPS receiver must log PDOP. This log must be recorded in the position properties window after downloading.
- PDOP mask must be less than or equal to 8.
- · SNR setting must be less than or equal to 4.
- Sale boundaries are to be recorded as an area feature, not a line.
- · Payment Unit lines may be recorded as a line feature bisecting the sale.

When Registered Corners or Witness Trees are discovered:

- · Any wooden posts encountered at corners must also be painted/protected.
- Bearing and/or witness trees discovered during the course of sale preparation must be protected. This can be accomplished by painting a ring completely around the tree at 4-6 feet above ground level with either red paint (corner surrounded by state lands) or blue paint (corner on private property boundary line). In addition, tying ribbon on these trees helps alert loggers to their presence. Do not mark any trees for harvest if cutting them is likely to result in damage to corner monuments and/or bearing trees.
- · Please report the condition of all corners, posts and bearing trees to the LCA.

When Cruising:

- Data must be recorded so volume can be determined by stand. If a stand is split into 2 or more payment units, each unit must be recorded separately. In addition, all data must be summarized by species or species grouping by payment unit.
- · All saw logs must be 100% tallied by species and diameter.
- Within all marked stands, cruise all marked pulpwood tree species that will yield one or more 100" pulpwood sticks with a minimum top diameter of four (4) inches DIB. Contact LCA to see what grouping of pulpwood is acceptable.
- Within all marked stands, residual basal area (merchantable sized trees by species) at each plot must also be recorded on the cruise sheets. Borderline residual trees do not have to be measured, but every other borderline tree should be counted.
- 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.

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

- 1. Release suitable crop trees. (Refer to The Complete Marker for crop tree specifications.)
- 2. When appropriate, try to increase the number of lesser occurring species such as beech in areas of high bear use. LCA can provide an explanation of this priority.
- 3. Remove high-risk, poor quality and trees with poor crowns.
- 4. Maintain target basal area.
- 5. Maintain all species diversity.

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.
- Marking of infrequently occurring species should be avoided. Consult the LCA for clarification.