

TIMBER SALE PRESCRIPTION

GENERAL									
Date					Forest Resources Division Management Unit				
12/5/2012					Traverse City				
Timber Sale Number (if applicable)					Sale Name (or prescription name)				
61-014-13-01			LOCAL CONTACT	CS6 Red Pine					
Name				Telephone					
Patrick Cota	nt			'	(231) 922 - 5280 x6844				
Email Address			FAX						
cotantp@mich	igan.gov	53							
⊠ Map of Project Area Attached									
LEGAL DESCRIPTION									
T25N R9w Section(s) 15 Description NESE									
Year of Entry: 2013 Compartment(s):56 Stand Number(s): 83									
	THIS	HMBER S		CT IS BASED ON THE F		ACREAGE			
Estimated Acre	es: 38 Sourc	e: 🗌 OI	☐ GPS	$oxed{oxed}$ Other <code>IFMAP Inver</code>	ntory				
Payment will be r	nade on the basis	of these e	stimated acres.						
			TRE	TMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	ВА	TREATMENT		MANAGEMENT OBJECTIVE			
83	R9	38	141-170	Thinning	Red Pine				
_									
				PRESCRIPTION					
 Mark to thin red pine focusing on removing suppressed, defected or poorly formed trees. Remove some large diameter sawlog trees (>14") and mark utility poles for spacing. Target residual BA should be approximately 110 square ft/ac. See appendix 1 for further instructions on marking and cruising. 7. 8. 9. Access See Map 									
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK						ESTIMATED DATE			
Boundary lin	e work has be	een comp	leted.			12/05/2012			
CONTRACT WORK CAN BEGIN									
CONTRACT WORK MUST BE COMPLETED BY Date: 07/30/2013									

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		PAINT LINE V	VORK					
☐ This is included in the bid	l ⊠ This is <u>no</u> t	t included in the	e 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			⊠ Red	Other:				
Sale cutting unit								
Stand type line				Other:				
Exclusions to mark and why								
Standards for marking lines	against private la	and:						
Standards for marking inless	against private it	and.						
		AREA CALCUL	.ATION					
☐ This is included in the bid	l ⊠ This is not	included in the	a hid					
_		included in the	<i>-</i>	OTAND 4 DD				
UNIT METHO				STANDARD				
Sale GP								
Payment Unit GP		_						
Stand GP Special Instructions:	S String Cha	in Other						
	TIMBE	ER CRUISING SP	ECIFICATIONS					
$oxed{oxed}$ This is included in the bid	☐ This is not	included in the	e bid					
Description I Description - France		□ 0/1 · ·						
Required Basal Area Factor: 10 20 Other:								
Cruise Line Directions: TBD								
CRUISING UNIT	S	NUMBER OF PLO	OTS PER ACRE	SPACING (CH	AINS)			
stand 83		1		3 X 3				
				Х				
				Х	-			
				Х	-			
TOTAL NUMBER OF CRUI				-				
Cruise Special Instructions:								
Cruise all pulpwood to a 4.0" top (DIB).								
See Appendix 1 for cruising details. The V-Bar cruising method will be required on this contract.								
Unless otherwise specified, the tally sheets used must be those supplied by the Forest Resources Division Management Unit.								

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	HIMBER MARKING	SPECIFICATIONS			
$oxed{oxed}$ This is included in the	bid \square This is \underline{not} included in	n the bid			
□ Precise specifications to the property of the prope	to be delineated at pre-work m	eeting with DNR staff			
Total Merchantable Residu	ual BA (Basal Area): 110 (Min	imum 100 to Maximum 120	<u>)</u>		
TRE	ATMENT	NUMBER	SIZE		
Regeneration Gaps Per Ac Girdled Trees Per Acre:	cre:				
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB		
Sawlogs	Slach w/ dots.	9.1"	8" (DIB)		
Sawbolts					
Pulpwood	Slash	4.6"	4.0"		
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR		
Trees marked to leave			☐ Green ☐ Other		
Trees marked to cut					
		TENSITIES			
	S / PRODUCT	RATIO			
All		1 : 1			
		1 :			
		1:			
		1 :			
ODEOLAL MADICINIO INIOTE					

SPECIAL MARKING INSTRUCTIONS:

Mark to cut red pine with orange slashes on both sides of tree and stump marks. Sawlogs should be dot marked and tallied. Stump marks should extend from above average stump heights into the dirt at the base of the tree. Residual BA following harvest should average approximately 110 sq ft/ac throughout the sale area.

See appendix 1 for further details on marking and cruising.

Unless otherwise specified, the tally sheets used must be those provided by the Forest Resources Division Management Unit.

RESTRICTIONS

- 1. Forest Resources 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 at (231) 922 5280 x6844, to make arrangements for paint.
- 2. Paint will be supplied from Traverse City.
- 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. 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.
- 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 <u>The Compleat Marker</u>, <u>The Complete Marker Addendum</u>, and <u>Within Stand Retention Guidelines</u> (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.