

TIMBER SALE PRESCRIPTION

GENERAL									
					Forest, Mineral and Fire Management Unit				
9/17/2012 Timber Sale Number (if applicable)					Roscommon Sale Name (or prescription name)				
					Pine Road Red Pine				
				LOCAL (CONTACT				
Name Telephone									
Dale Ekdom (989)						39) 275 – 4622 x2741			
Email Address FAX						AX			
ekdomd@michigan.gov (989) 275-6203									
⊠ Map of Project Area Attached									
LEGAL DESCRIPTION									
T24N R01W Section(s) 27, 28, 33 Description Various									
Year of Entry: 2013 Compartment(s):46 Stand Number(s): 40,41,55,60									
					ASED ON THE F	OLLOWING	ACREAGE		
Estimated Acre	es: 125 Sour	ce: 🗌 OI	\boxtimes GPS	☐ Oth	er				
Payment will be	made on the basis	of these e	stimated acres	-					
			TRE	ATMENT	& OBJECTIVE				
STAND#	COVER TYPE	ACRES	BA	TF	REATMENT		MANAGEMENT OBJECTIVE		
40	R9	39	171-200	Low Th	inning	Red Pine	Logs/Poles		
41	R9	38	171-200	Low Th	inning	Red Pine	Logs/Poles		
55	R9	16	141-170	Low Th	inning	Red Pine	Logs/Poles		
60	R9	32	171-200	Low Th	inning	Red Pine	Logs/Poles		
							<u> </u>		
				PRESC	RIPTION				
 All Stands - thin to reduce residual basal area to 120 SF/Acre. Identify the best trees and thin around them, concentrate on removing defect such as crook, double trees, double tops, and suppressed trees first and then reduce the BA to the target BA. Save understory pine and oak where possible. Stand #40 and 41 - in addition to the marked trees, all merchantable aspen and red maple will be removed via specification. 									
Access Via F-97 north of St. Helen (Old 76) to Pine Road and then west approx. 1 mile. DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK ESTIMATED DATE									
Boundary Line & Acreage Determination							11/14/2012		
Doundary Din	ic a fici cage i		~ C T O I I				11/11/2012		
CONTRACT WORK CAN BEGIN Immediately									
CONTRACT WORK MUST BE COMPLETED BY Date 3/31/2014									

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			Red	☐ Ot	ther:				
Sale cutting unit			Yellow	☐ Ot	ther:				
Stand type line				☐ Ot	ther:				
Exclusions to mark and why									
01		11							
Standards for marking lines ag	gainst private	land							
		AREA CALCUL	TION						
☐ This is included in the bid	⊠ This is no	ot included in the	bid						
UNIT METHOD)			STAND	ARD				
Sale GPS	String Cha								
Payment Unit GPS	Payment Unit GPS String Chain Other								
Stand GPS	String Ch	ain Other							
Special Instructions:									
	TIME	ER CRUISING SPE	CIFICATIONS						
□ This is included in the bid □ This is not included in the bid									
Required Basal Area Factor:		O Other:							
Cruise Line Directions Fact /	West or North	n/South							
Cruise Line Directions East/West or North/South									
CRUISING UNITS		NUMBER OF PLO	TS PER ACRE	SP	ACING (CHAINS)				
Stand 40		39 plots		3 X 3					
Stand 41	38 plots		3 X 3						
Stand 55	16 plots		3 X 3						
Stand 61	32 plots		3 X 3						
TOTAL NUMBER OF CRUISE	125		1 -						
Cruise Special Instructions:									
In all stands, cruise all orange marked trees by species. In Stands #40 and 41, cruise all									
merchantable aspen and and red maple. Cruise sawtimber and pulpwood using the V-Bar Cruise Method. Record residual basal area for each plot for all stands. GPS ESRI shape files may be available for									
setting up cruising with a Nomad GPS unit.									
Refer to contract and attached Appendix 1 for detailed cruise instructions.									

Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.

☐ This is included in the bi	d	the bid							
☐ Precise specifications to be delineated at pre-work meeting with DNR staff									
Total Merchantable Residual BA (Basal Area): 120 (Minimum 110 to Maximum 130)									
TREA	ГМЕНТ	NUMBER	SIZE						
Regeneration Gaps Per Acro Girdled Trees Per Acre		N/A N/A	N/A N/A						
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB						
Sawlogs	slash	10"	8 "						
Sawbolts									
Pulpwood	slash	4.6"	4 "						
TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR						
Trees marked to leave			☐ Green ☐ Other						
Trees marked to cut			☑ Orange☑ Other						
		TENSITIES							
SPECIES /	PRODUCT	RATIO							
		1:							
		1:							
		1:							

SPECIAL MARKING INSTRUCTIONS

Paint marks must be dark enough to last for a three year contract. Stump marks must extend from the tree onto the ground (approx. 2/3 tree & 1/3 ground) and Paint marks must be able to be seen from at least three sides of the tree. Do not thin multi-stemmed trees - cut all stems or leave all stems in multi-stemmed trees.

Gallon or quart paint can be provided but contractor must specify preference with plenty of lead time to make sure desired paint is available.

Refer to contract and attached Appendix 1 for detailed marking instructions.

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.

Pine Road Red Pine Contract APPENDIX 1, TIMBER SALE PRESCRIPTION

When Registered Corners or Witness Trees are discovered:

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. 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.

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.
- 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:

- 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.

4 of 4 R4038 (Rev. 02/27/2008)