

MICHIGAN DEPARTMENT OF NATURAL RESOURCES FOREST, MINERAL AND FIRE MANAGEMENT

TIMBER SALE PRESCRIPTION

GENERAL										
Date				Forest Manageme	Forest Management Unit					
10/05/06				Atlanta Unit						
Timber Sale Num	ber (if applicable))		Sale Name (or pre Compartment	escription nar 155 Red Pi	ne) .ne				
	LOCAL CONTACT									
Telephone Number (989) 785-4251 x 5241				FAX Number (989) 785-35						
Name Cody Stevens		igan gou								
Cody Scevens	dy Stevens stevencn@michigan.gov									
Map of Project Area Attached										
			LE	GAL DESCRIPTION						
T36N R02E Se	T36N R02E Section(s) 7 & 8 Description: 7: S1/2NE, NWNE, NENW, S1/2SW 8: SWNW, SWSE, SW1/4									
Year of Entry: 2007 Compartment(s): 155 Stand Number(s): 3, 5, 19, 34, 37 & 38										
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE										
Estimated Acres		e: 🛛 OI	GPS	Other						
Actual Acres: Total Acres: 20		e: 🗌 OI	GPS 🗌	Other						
Payment will be n	-	of these e	stimated acres.							
			TRE	ATMENT & OBJECTIVE						
STAND #	COVER TYPE	ACRES	BA	TREATMENT	I	MANAGEMENT OBJECTIVE				
3	R6	27	120	Shelter-wood Prep. Cut		Red Pine				
5	R9	23	130	Shelter-wood Prep. Cut		Red Pine				
19	R9	41	130	Thin	Red Pine					
34	R9	60	110	Shelter-wood Cut		Red Pine				
37	R6	37	110	Shelter-wood Prep. Cut	ter-wood Prep. Cut Red Pine					
38	R9	18	140	Clear Cut	Red Pine					
				PRESCRIPTION						
 Stands 3, 5 & 37: Red Pine, put in boundary lines, determine area by GPS, species thin and mark red pine to 80 BA, tally marked logs and cruise pulp. Stand 19: Red Pine, put in boundary lines, determine area by GPS, species thin and mark red pine to 90 BA, tally marked logs and cruise pulp. Stand 34: Red Pine, put in boundary and unit lines, determine area by GPS, species thin and mark red pine to 30 BA, tally marked logs and cruise pulp. Stand 38: Red Pine, put in boundary lines, determine area by GPS, and cruise all species. 										
Access: This compartment is accessed by County Road 646 which is adjacent to Stands 19, 34, 37 & 38 while Stands 3 & 5 are accessed by County Line Road. DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK ESTIMATED DATE										
					ĸ	ESTIMATED DATE				
All work in the Compartment will be done by Contractor.										
CONTRACT WORK CAN BEGIN:										
Immediately Date:										
CONTRACT WORK MUST BE COMPLETED BY: Date 08/15/2007										
						D 4000 (00/47/0000)				

PAINT LINE WORK									
$oxtimes$ This is included in the bid $\hfill \square$ 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	\boxtimes		🛛 Blue	Other:					
Sale boundary			🛛 Red	Other:					
Sale cutting unit			Yellow	Other:					
Stand type line	\boxtimes	□		Other:					
Exclusions to mark and why:									
Contractor will put in all sale and	init boundary lines	Refer to the co	ntract and attach	ed appendix for detailed instructions	3.				
Standards for marking lines agai	nst private land:								
See Contract Specifications 1-B,7.	a.								
200 Conduct Specifications 1 2,,									
			LATION						
☑ This is included in the bid	This is not inclu	uded in the bid							
UNIT				STANDARD					
				STANDARD					
Sale GPS	String Chain	Other							
Payment Unit GPS	String Chain	Other							
Stand GPS	String Chain	Other							
Special Instructions: All stands and payment uni	ts will need t	he area calcu	lated using	a GPS unit as described in	the				
contract. These files nee	d to be turned	in as correc	cted files or	n a 3.5" disk. The correcte					
at a scale of 1:15840 will	be used to in	dicate the pl	lot locations	s as the cruise map.					
	TIMBE	R CRUISING SP	ECIFICATIONS						
⊠ This is included in the bid [This is not inclu	uded in the bid							
Required Basal Area Factor:	10 ∐ 20 Ot	her:							
Cruise Line Directions: East-West	& North-South								
CRUISING UNITS		NUMBER OF PL		SPACING (CHAINS)					
Stands 3, 5, 19, 37 & 38		INUIVIDER OF PL		3 * 3					
Stand 34		0.	83	3 * 4					
TOTAL NUMBER OF CRUIS Cruise Special Instructions:	E POINTS	21	2						
Refer to the contract and	attached appen	dix for detai	led instruct	ions.					
Unless otherwise specified, the tally sheets used must be those supplied by the Forest, Mineral and Fire Management Unit.									

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): 80 (Minimum 70 to Maximum 90) Stands: 3, 5 & 37									
Total Residual BA (Basal Area): 90 (Minimum 80 to Maximum 100) Stands: 19									
Total Residual BA (Basal Area): 30 (Minimum 20 to Maximum 40) Stands: 34									
	TMENT	NUMBER	SIZE						
Regeneration Gaps Per Acre in	Stands:								
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	PAINT COLOR						
Trees marked to leave			Green						
			Other						
Trees marked to cut			⊠ Orange □ Other						
		TENSITIES							
SPECIES	PRODUCT		ATIO						
Sawlogs	FRODUCT	1:1							
Pulpwood: see cruising section		1.1							
rupwood. see cruising section									
SPECIES TO FAVOR: Contact LCA for stand specific information.									
SPECIES TO FAVOR:									
Contact LCA									
SPECIAL MARKING INSTRUCT Stands 3, 5 & 37 residual BA's will	ions: vary, these stands will be marked to h	alf tree height spacing. See attache	d Appendix and contact LCA.						
Unless otherwise specified, the tally sheets used must be those provided by the Forest, Mineral and Fire Management Unit.									
RESTRICTIONS: Forest, Mineral and Fire Division must to be able to identify who did what on the timber sale. The contractor may not have more than two markers in one payment unit without prior approval. Each marker should have an assigned area to mark (not strips). 									
 PAINT: 1. Call Cody Stevens at (989) 785-4251 ext 5241, 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. 									

Compartment 155 Red Pine 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 or oak.
- 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 marked 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 <u>The Complete Marker</u> 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.
- Remove high-risk, poor quality and trees with poor crowns.
 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.