



TIMBER SALE PRESCRIPTION

GENERAL					
Date		Forest, Mineral and Fire Management Unit			
9/2/2008		GRMUN (Indian River)			
Timber Sale Number (if applicable)		Sale Name (or prescription name)			
		Compartment 183 Contract			
LOCAL CONTACT					
Name		Telephone			
Shannon Harig		(231) 238 - 9313 ext 4742			
Email Address		FAX			
harigs@Michigan.gov		(231) 238 - 6757			
<input checked="" type="checkbox"/> Map of Project Area Attached					
LEGAL DESCRIPTION					
T34N R01W Section(s) 2, 11-14 Description					
Year of Entry: 2009 Compartment(s):183 Stand Number(s): 5, 18, 30, 42, 54, 56, 63, 65A, 65R, 70, 73, 91					
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE					
Estimated Acres: 266 Source: <input type="checkbox"/> OI <input type="checkbox"/> GPS <input checked="" type="checkbox"/> Other <u>IFMAP</u>					
Payment will be made on the basis of these estimated acres.					
TREATMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
5	M6	16	120	Thinning	Northern Hardwood
56, 65R, 73	R6	39	150/210	Row Thin	Red Pine
18, 30, 42, 54, 63, 70, 65A, 91	A6	211	120	Clearcut	Aspen
PRESCRIPTION					
1. Stand 5: Northern Hardwood thinning. -Reduce stand BA to 80 using single tree selection/crop tree release marking techniques. -Retain 2-3 12"DBH + trees/acre of declining vigor(cull) to serve as future den trees. 2. Stands 56,65R,73: Red Pine, 3 rd row thin. 3. Stands 65A,91: Clearcut. 4. Stands 18,30,42,54,63,70: Clearcut with retention pockets. -Delineate 5 - 10% of stand area to remain uncut for retention. 5. 6. 7. 8.					
Access					
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK					ESTIMATED DATE
Blue painted private boundary.					11/30/2008

CONTRACT WORK CAN BEGIN

Immediately Date: 12/1/2008

CONTRACT WORK MUST BE COMPLETED BY Date 08/07/2009

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	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

In stands with retention, delineate retention areas with red paint and gps boundaries.

Standards for marking lines against private land**AREA CALCULATION** This is included in the bid This is not included in the bid

UNIT	METHOD	STANDARD
Sale	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

Must provide administrator with shapefile and acreage of sale area and cutting units.

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**

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stands 18, 30, 54	1 point / 1.2 acres	4 X 3
Stands 5, 42, 56, 63, 65A, 65R, 70, 73, 91	1 point / acre	3 X 3
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

Stands 18, 30, 42, 54, 56, 63, 65A, 65R, 70, 73, 91: Cruise all species separately.
 Stand 5: Only pulpwood will be cruised, sawlogs are 100% tallied. Sugar Maple, Red Maple, White Birch, Beech and Black Cherry pulp can be combined as mixed hardwood. All other pulp species (White Ash, Basswood, aspen) must be cruised separately. Residual BA must be tallied at each cruise point.

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 Merchantable Residual BA (Basal Area): 80 (Minimum 70 to Maximum 90)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		N.A.	N.A.
Girdled Trees Per Acre		N.A.	N.A.
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	2 slashes w/ dot	12 inches	10 inches
Sawbolts	N.A.	N.A.	N.A.
Pulpwood	slash	4.6 inches	4 inches

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
Sawlogs	100%
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

Individual stems within multiple stemmed clumps must either all be marked for removal or must all be left unmarked. Do not mark elm or juneberry. Avoid marking under-represented species, they will be retained to maintain diversity.

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 Shannon Harig at (231) 238 - 9313 ext 4742, to make arrangements for paint.
2. Paint will be supplied from Indian River.
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 183 Contract Addendum

Stand 5: Northern Hardwood thinning. 120 BA, Decent quality. Reduce BA to 80. There are a few clones of aspen in southern part of stand. Do not cut all aspen, our management objective is northern hardwood.

Stand 56: Red Pine thinning. Thin every 3rd row. 210 BA. Cruise all trees, administrator will make final volume adjustment.

Stand 73: Red Pine thinning. Thin every 3rd row. 140 BA. Cruise all trees, administrator will make final volume adjustment.

Stand 65R: Red Pine thinning. Thin every 3rd row. 150 BA. Cruise all trees, administrator will make final volume adjustment. This stand consists of two small areas of heavier stocking density than the surrounding red pine stand. These are highlighted in orange on map "B." These will be harvested with stand 56.

Stand 65A: Aspen clearcut. This stand is a concentration of aspen clones along the south edge of the surrounding red pine stand. These are the highlighted in yellow on map "B." They will be harvested with stand 63. No retention.

Stand 91: Mixed species clearcut. 120 BA. No retention. Leave pine and oak.

Stand 18: Aspen. Clearcut w/ retention. Delineate 2 - 3 retention pockets totaling 3 or 4 acres, possibly around wet area.

Stand 30: Aspen/fir. Clearcut w/ retention. Delineate 1 - 2 retention pockets totaling 2 or 3 acres. Possibly target areas of dense fir/aspen for retention.

Stand 42: Aspen. Clearcut w/ retention. Delineate 1 retention pocket totaling 1 – 1.5 acres.

Stand 54: Aspen/mixed conifer. Clearcut w/ retention. Delineate 2 to 3 retention pockets totaling 4 – 6 acres.

Stand 63: Aspen. Clearcut w/ retention. Leave pocket of Tamarack. Delineate 1 – 1.5 acres of retention near road for visuals.

Stand 70: Aspen. Transition between hardwood and aspen. Clearcut w/ retention. Delineate .5 – 1 acres for retention.