



TIMBER SALE PRESCRIPTION

GENERAL

Date 1/10/2008	Forest, Mineral and Fire Management Unit GRMUN (Indian River)
Timber Sale Number (if applicable)	Sale Name (or prescription name) Compartment 145 Contract

LOCAL CONTACT

Name Shannon Harig	Telephone (231) 238 - 9313 e4742
Email Address harigs@Michigan.gov	FAX (231) 238 - 6757

Map of Project Area Attached

LEGAL DESCRIPTION

T33N R03W Section(s) 6 Description NE1/4, E1/2NW, NWSE

Year of Entry: 2008 Compartment(s):145 Stand Number(s): 145-7-selection (7-M), 145-7-clearcut (7-C)

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 170 Source: OI GPS Other _____

Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE

STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
145-7-select	M9	146	150	Selection	Northern Hardwoods
145-7-clearc	M9	24	150	CC w/ retention	Northern Hardwoods

PRESCRIPTION

Stand 145-7-selection:

1. Reduce stand BA to 80 sq. feet using single tree selection/crop tree release marking techniques.
2. Retain at least 2-3 12"DBH + trees/acre of declining vigor(cull) to serve as future den trees.
3. When possible, release pockets of advanced hardwood regen by creating an overhead canopy gap.
4. Delineate approx. 7 ac. retention area to remain un-marked. (See contract administrator)

Stand 145-7-clearcut:

1. Clearcut all species except oak.
2. Create openings around oak to promote oak regeneration.
3. Delineate 2-3 acre retention area to remain uncut.
4. Retention areas must be a representative sample of the stand.

Access: West from Wolverine on Mitchell Rd. 6 miles.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 09/12/2008

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	
Private boundary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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

Delineate retention areas with green paint. Clearcut portion must be a separate cutting unit.

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, cutting units and retention areas.

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 N/S

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
145-7-selection	1 point/1.6 AC	4 X 4
145-7-clearcut	1 point/AC	3 X 3
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

145-7-selection: 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.

145-7-clearcut: Both sawlogs and pulp must be cruised in this unit. Sawlog species must be cruised separately. Pulpwood must be cruised as described above.

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	1 per acre	30' crown opening	
Girdled Trees Per Acre	1-2	12"+	
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	2 orange slashes w/dots	12 inches	10 inches
Sawbolts	N.A.	N.A.	N.A.
Pulpwood	orange 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
All sawlogs	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 trees within 5' of the ORV trail. Do not mark elm or juneberry. Mark girdle trees with an orange "X" on both sides of tree.

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 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 e4742, 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.