



TIMBER SALE PRESCRIPTION

GENERAL	
Date 9/1/11	Forest, Mineral and Fire Management Unit Newberry
Timber Sale Number (if applicable)	Sale Name (or prescription name)

LOCAL CONTACT	
Name Keith Magnusson	Telephone (906) 293 - 3293 x4745
Email Address magnussonk@michigan.gov	FAX (906) 293 - 8530

Map of Project Area Attached

LEGAL DESCRIPTION
T47N R10W Section(s) 32 & 33 Description See Cover Type Map

Year of Entry: 2012 Compartment(s):87 Stand Number(s): 9, 16, 21, 22, 26

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 118 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
9	M6	32	120 -> 70	Selection	Northern Hardwoods
16	M9	31	130 -> 80	Selection	Northern Hardwoods
21	A8	23	70 -> 10	Final Harvest	Aspen
22	M6	20	120 -> 70	Crown Thinning	Maple/Beech Assoc.
26	A9	12	100 -> 10	Final Harvest	Aspen

PRESCRIPTION
<p>1. Mark stands 9, 16 & 22 for cutting, leave a component of all species currently present. (See timber marking section below for further marking specs). Mark stand to improve maneuverability within the stand for logging operations to occur.</p> <p>2. Cruise stands 21 & 26. Cruise all species present. (See timber cruising specs)</p> <p>3. Stand 21 will need to have retention areas left within stand area (See paint line specs).</p> <p>4. If stick nests are found leave a minimum 1 chain unmarked buffer around the nest tree and contact the Newberry field office for additional requirements.</p>

Access Take Highway M-123 north from Newberry. Turn west on County Road 407. The work area can be accessed via two tracks leading from CR 407. See map.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
-Survey corners in the SW corner of Sec. 32 will be established.	10/01/2011
	10/01/2011

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 09/01/2012

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 type="checkbox"/> Yellow	<input checked="" type="checkbox"/> Other: Green
Stand type line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

In stand 21, retention areas will need to be designated and boundaries of these areas painted. These retention areas should be approx. 5% of the total stand area. Incorporate some mature aspen into the sale boundary. This will be discussed at the pre-work meeting.

Standards for marking lines against private land

Must be within a minimum of 10 feet of actual property line.

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	2 meters
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	2 meters
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

Contractor must supply their own GPS Units that are capable of downloading information to a computer.

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 21 & 26	1	~3 X 3
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

Cruise all species present. Cruise by species and products per DNR product standards. All cruised aspen, spruce and balsam can be recorded as pulp, no need to determine sawlogs in these species. Exact plot center will be marked by placing a stick in the ground, flagged with ribbon marked with the corresponding plot number. These items will be discussed at the pre-work meeting.

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):

Stand 9: 70 (Minimum 60 to Maximum 80)

Stand 16: 80 (Minimum 70 to Maximum 90)

Stand 21: 10 (Minimum 0 to Maximum 20)

Stand 22: 70 (Minimum 60 to Maximum 80)

Stand 26: 10 (Minimum 0 to Maximum 20)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	"X" with dots	12"	10"
Sawbolts			
Pulpwood	slash	6"	4"

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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
Mixed hardwood species of sawlog quality	1 : 1
Mixed pulpwood species of pulpwood quality	1 : 20
Aspen/fir/spruce	1 : 10
	1 :

SPECIAL MARKING INSTRUCTIONS

- Two sided marking on all marked trees, including any aspen/fir/spruce that is to be cut.
- Maintain stand diversity by leaving some beech, yellow birch, paper birch and black cherry.
- Beech Bark Disease is found on the beech trees throughout the stand. While marking, evaluate and mark beech that has been attacked by the beech scale disease but still has merchantable value.
- Dots will be painted on the pulp tally trees so they can be checked.
- Mark all sawlog trees with an "X" with dots to correspond with the number of sawlogs tallied.
- In stands 9,16 and 22, target removing clones of aspen and try to retain individual aspen trees.
- In stand 21 & 26, leave tree mark a some large diametered white pine as well as aspen.
- Above marking items will be discussed at pre-work meeting.

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 Keith Magnusson at (906) 293 - 3293 x4745, to make arrangements for paint.
2. Paint will be supplied from the Newberry 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.