



TIMBER SALE PRESCRIPTION

GENERAL	
Date 8/31/2011	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
T49N R11W Section(s) 10 & 11 Description See Cover Type Map

Year of Entry: 2012 Compartment(s): 17 Stand Number(s): 30, 31, 33, 36, 43 & 51

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE
Estimated Acres: 228 Source: <input checked="" type="checkbox"/> OI <input type="checkbox"/> GPS <input type="checkbox"/> Other _____
Payment will be made on the basis of these estimated acres.

TREATMENT & OBJECTIVE					
STAND #	COVER TYPE	ACRES	BA	TREATMENT	MANAGEMENT OBJECTIVE
30	R9	74	100 -> 30	Shelterwood-Prep	Red Pine
31	R9	17	130 -> 50	Selection	Red Pine
33	R9	20	180 -> 80	Selection	Red Pine
36	R9	14	130 -> 70	Selection	Red Pine
43	R9	73	160 -> 80	Selection	Red Pine
51	R9	30	110 -> 60	Selection	Red Pine

PRESCRIPTION
<ol style="list-style-type: none"> 1. Mark stands to enhance existing white/red pine regeneration as well as encouraging new growth. 2. Mark stands to improve maneuverability/operability for logging operations to occur. 3. Retain some den cavity trees if present. 4. Leave oak, hemlock and cedar in all stands. 5. In stands 30 and 43, leave appropriate buffer along Trout Creek. 6. In stand 30, 31 and 51, designate and paint boundaries around retention areas. 7. All stands will need to be marked and cruised. 8. If stick nests are found leave a minimum 1 chain unmarked buffer around the nest tree. 9. Prescriptions will be talked about in more detail at the pre-work meeting. 10. <p>Access Proceed north of Newberry on M-123 to County Road 407. Take 407 north towards Muskallonge State Park. Work area can be access via two tracks leading from main roads. See cover type map.</p>

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
1/64 th corner in SW quarter of section 11 will be located	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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why

Buffer Trout Creek. Retention areas will need to be designated and boundaries of these areas painted in stands 30,31 & 51. These areas will not be cut and should be approx. 5% of the total stand area. Details of these retention areas will be discussed at the pre-work meeting.

Standards for marking lines against private land

N/A

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)
Entire area	.5	5 X 4
		X
		X
		X
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

Cruise all species per DNR product standards. Cruise by species and product. In all stands, cruise out all jack pine, spruce, balsam fir, aspen, paper birch and red maple. Take a residual basal area of species that are not to be cut. 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 30: 30 (Minimum 20 to Maximum 40)
 Stand 31: 50 (Minimum 40 to Maximum 60)
 Stand 33: 80 (Minimum 70 to Maximum 90)
 Stand 36: 70 (Minimum 60 to Maximum 80)
 Stand 43: 80 (Minimum 70 to Maximum 90)
 Stand 51: 60 (Minimum 50 to Maximum 70)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	"X" and 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
red/white pine sawlogs	1 : 1
red/white pine pulp	1 : 20
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

In stand 36 some spruce may need to be marked as leave trees to ensure a component of this species are left as residual. This will be discussed at the 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.