



TIMBER SALE PRESCRIPTION

GENERAL

Date 2/3/2009	Forest, Mineral and Fire Management Unit Gladwin Management Unit
Timber Sale Number (if applicable) 73-002-09-01	Sale Name (or prescription name) Springwood Oaks

LOCAL CONTACT

Name Mike Hanley	Telephone (517) 243-2028
Email Address hanleym@michigan.gov	FAX (989) 426-1454

Map of Project Area Attached

LEGAL DESCRIPTION

E½, SE¼ and SW¼, SW ¼ & E½, SW¼ **Sec 30** & NE¼ & NW¼, NW ¼ **Sec 31 of T19N R03W**
SE¼, NE¼ and NE¼, SE¼ **Sec 36 of T19N R4W**

Year of Entry: 2009 Compartment(s): 20 Stand Number(s): 23, 24, 25, 26, 32, 34, 124, 126 & 134

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 224 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
23	O9	52	100	Shelterwood	Oak
24	O9	41	90	Shelterwood	Oak
25	O9	17	130	Selection	Oak
26	O9	15	110	Shelterwood	Oak
32	O9	10	120	Selection	Oak
34	O9	32	130	Shelterwood	Oak
124	O9	22	90	Shelterwood	Oak
126	O8	28	60	Shelterwood	Oak
134	O9	7	80	Shelterwood	Oak

PRESCRIPTION

- **Stand 23, 24, 26, 34, 124 & 134:** Mark to cut with orange paint down to 50% crown closure. Do not eliminate any one species. Target 40 BA/AC residual. Target marking to remove stressed trees first, then for loggability, and then to meet crown closure target.
- **Stand 25 & 32:** All Red Maple is to be removed and where needed mark Oak to cut with orange paint to retain 70 BA/AC.
- **Stand 126:** 2nd Stage Shelterwood cut. Mark to cut with orange paint retaining 30 BA/AC.
- **Access:** Via Mostetler Road and various state two tracks.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
DNR will mark all private (blue) line.	4/1/09

CONTRACT WORK CAN BEGIN

Immediately Date:

CONTRACT WORK MUST BE COMPLETED BY Date 07/31/2009

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Red	<input type="checkbox"/> Other:

Exclusions to mark and why

Standards for marking lines against private land DNR to paint blue private boundary lines.

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	PDOP ≤ 7
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	PDOP ≤ 7
Stand	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	PDOP ≤ 7

Special Instructions:

Contractor must GPS all stands and/or payment units separately. Contractor must also provide a GPS file and hard copy of each stand. See map for location and color of lines to be GPS'd.

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/A

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions: DNR to cruise all stands.

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): Varies by stand. See prescription section.

- **Stands 23, 24, 26, 34, 124 & 134:** 40 (Minimum 30 to Maximum 50)
- **Stands 25 & 32:** 70 (Minimum 60 to Maximum 80)
- **Stand 126:** 30 (Minimum 20 to Maximum 40)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre			
Girdled Trees Per Acre			
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Slash visible from all sides	10" Diameter Class	8" Diameter Class
Sawbolts			
Pulpwood	Slash visible from all sides	5" Diameter Class	4" Diameter Class

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
N/A	1 :
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

For all stands Michigan DNR retention guidelines must be followed. Contractor may be required to mark and GPS a minimum of 3% and a maximum of 10% of the stand area as retention. Retention may require marking leave trees with green paint, individually and/or in small groups. Implementation of the retention guidelines will be discussed on a stand by stand basis 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 Mike Hanley at (517) 243 - 2028, to make arrangements for paint.
2. Paint will be supplied from Gladwin 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.