



# TIMBER SALE PRESCRIPTION

| GENERAL  |   |
|--|---|
| Date<br>04/8/2011                                  | Forest Management Unit<br>Gladwin Management Unit   |
| Timber Sale Number (if applicable)<br>73-006-11-01 | Sale Name (or prescription name)<br>Deer Refuge Oak |

| LOCAL CONTACT                         |  |
|---------------------------------------|--|
| Name<br>Richard Myrick, Forester      | Telephone<br>(989) 426 - 9205, Ext. 7641 |
| Email Address<br>myrickr@michigan.gov | FAX<br>(989) 426 - 1454                  |

Map of Project Area Attached

**LEGAL DESCRIPTION**  
**T15N R1W Section(s) 5, 31, 32, 33 Description NW1/4 of the NE1/4 Sec. 5. SW1/4 of the SW1/4 Sec. 31. SE1/4 of the SW1/4 & the SW1/4 of the SW1/4 Sec. 32, NW1/4 of the NE1/4 & the NE1/4 of the NW1/4 Sec. 33.**

Year of Entry: **2011**    Compartment(s):**112**    Stand Number(s): **14, 41, & 234**

**THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE**  
 Estimated Acres: **49**    Source:  OI     GPS     IFMAP  
 Payment will be made on the basis of these estimated acres.

| TREATMENT & OBJECTIVE |            |       |     |                  |                      |
|-----------------------|------------|-------|-----|------------------|----------------------|
| STAND #               | COVER TYPE | ACRES | BA  | TREATMENT        | MANAGEMENT OBJECTIVE |
| 14                    | E          | 17    | 130 | Shelterwood-Prep | Swamp Hardwoods      |
| 41                    | O          | 20    | 40  | Shelterwood-Seed | Oak                  |
| 234                   | A          | 12    | 140 | Selection        | Northern Hardwoods   |
|                       |            |       |     |                  |                      |
|                       |            |       |     |                  |                      |
|                       |            |       |     |                  |                      |
|                       |            |       |     |                  |                      |

**PRESCRIPTION**

- Stand 14:** Aspen and ash removal. Mark additional trees to cut with orange paint for operability. Leave approximately 70 BA. The residual stand will serve as retention.
- Stand 41:** Remove one half of residual stand leaving approximately 20 BA. Mark with green paint to leave, (for retention), two mast oak trees per acre >10 DBH when feasible, plus a few scattered larger white pine along the stand edges when possible.
- Stand 234:** Mark to cut with orange paint; keeping a uniform 70 BA as residual. Favor the removal of aspen and red maple. The residual stand will serve as retention.

**Access:** Via Huckleberry Road, North Castor Road, South 11 Mile Road and West Wackerly Road and various forest two-track roads.

| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | ESTIMATED DATE |
|--|----------------|
| Marking private line w/ blue paint                     | completed      |
|  |                |
|  |                |

**CONTRACT WORK CAN BEGIN**  
 Immediately     Date:  
**CONTRACT WORK MUST BE COMPLETED BY**    Date **08/30/2011**

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

**Special Instructions for paint line work:** See attached map for locations of lines marked.

**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 | PDOP $\leq$ 3 |
| Payment Unit | <input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other | PDOP $\leq$ 3 |
| Stand        | <input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other | PDOP $\leq$ 3 |

**Special Instructions:**

Contractor must GPS all stands separately. Contractor must also provide a GPS file and hard copy of each stand printed at a scale of 1:15840. See map for location and 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**    North-South or East-West.

| CRUISING UNITS                       | NUMBER OF PLOTS PER ACRE | SPACING (CHAINS) |
|--------------------------------------|--------------------------|------------------|
| Stands 14, 41, and 234               | 1                        | Evenly Spaced    |
|                                      |                          |                  |
|                                      |                          |                  |
| <b>TOTAL NUMBER OF CRUISE POINTS</b> |                          |                  |

**Cruise Special Instructions:**

- Total number of cruise points is estimate, based on estimated acres. Actual number should be based on 1 plot per acre, for acreage determined by GPS.
- **ALL CRUISE POINTS MUST SHOW RESIDUAL BA.**
- Contractor **MUST** show plot locations for each stand on their GPS stand boundary map.
- Plot locations do **NOT** need to be GPS'd.
- Plot center locations must be marked on the ground and at eye level with brightly colored ribbon.

Imagery and information for Solo as well as TCruise cruising template will be made available upon request.

**Unless otherwise specified, the tally sheets used must be those supplied by the Forest 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):**  
**Stands 14 and 234:** 70 (Minimum 60 to Maximum 80)  
**Stands 41:** 20 (Minimum 10 to Maximum 30)

| 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 DOB |
| Sawlogs                    | Slash visible from all sides | 9.1"        | 9"      |
| Sawbolts                   |                              |             |         |
| Pulpwood                   | Slash visible from all sides | 4.6"        | 4.5"    |

| 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<br><input type="checkbox"/> Other  |
| Trees marked to cut   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> Orange<br><input type="checkbox"/> Other |

| TALLY INTENSITIES |       |
|-------------------|-------|
| SPECIES / PRODUCT | RATIO |
| N/A               | 1 :   |
|                   | 1 :   |
|                   | 1 :   |
|                   | 1 :   |

**SPECIAL MARKING INSTRUCTIONS**

See individual stand prescriptions for retention details.

Unless otherwise specified, the tally sheets used must be those provided by the Forest Management Unit.

**RESTRICTIONS**

1. Forest 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 Richard Myrick at (989) 426 - 9205, Ext 7641 , to make arrangements for paint.
2. Paint will be supplied from the 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. If using TCruise provide tce and tcd files.
4. GPS files for any GPS work.