



# TIMBER SALE PRESCRIPTION

| GENERAL                            |   |
|------------------------------------|---|
| Date<br>12/12/12                   | Forest Resources Division Management Unit<br>Traverse City  |
| Timber Sale Number (if applicable) | Sale Name (or prescription name)<br>Compartment 14 Hardwood |

| LOCAL CONTACT                         |                                     |
|---------------------------------------|-------------------------------------|
| Name<br>Patrick Cotant                | Telephone<br>(231) 922 – 5280 x6844 |
| Email Address<br>cotantp@michigan.gov | FAX<br>(231) 922 - 1853             |

Map of Project Area Attached

| LEGAL DESCRIPTION   |
|---|
| T26N R14W Section(s) 1 & 2 & 11 Description s.1: W1/2NW; s.2: SW1/4, S1/2NW, SWNE; s.11: NENW |

Year of Entry: 2013 Compartment(s):014 Stand Number(s): 64, 115, 122

**THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE**

Estimated Acres: 186 Source:  OI  GPS  Other IFMAP inventory

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

| TREATMENT & OBJECTIVE |            |       |     |                 |                      |
|-----------------------|------------|-------|-----|-----------------|----------------------|
| STAND #               | COVER TYPE | ACRES | BA  | TREATMENT       | MANAGEMENT OBJECTIVE |
| 64                    | M9         | 134   | 120 | selection       | northern hardwoods   |
| 115                   | M9         | 37    | 145 | selection       | northern hardwoods   |
| 122                   | M5/A       | 15    | 100 | clearcut w/res. | aspen regeneration   |

**PRESCRIPTION**

- Stand 64: In general, follow "Compleat Marker" guidelines. Mark to result in a residual average BA of 85. Occasional poor quality aspen may be retained for future snags. Retain scattered beech, 2 to 5 per acre, choosing either healthy, smooth barked log trees or large diameter, overmature trees to retain. Otherwise, mark all beech >5" dbh. Mark 1 to 2 trees per acre with an orange "X" to be felled and left on site for woody debris, choosing poor quality trees over 10" dbh. Retain at least 3-5 cherry per acre for mast.
- Stand 115: same as stand 64, except residual BA should average 90, and of the retained beech, only 1 per acre should be overmature trees over 20" dbh. Marking should focus on low quality and multi-stemmed trees as much as possible. Create regeneration gaps (1-2 per acre) centered on a marked overmature beech, marking adjacent lower quality stems to create a canopy gap up to 60'.
- Stand 122: Mark 5 to 10 live trees per acre, >6" dbh, to be retained, well distributed throughout. These may be individual trees or preferably small groups. Groups may be focused around a cavity tree, mast producer (cherry, beech), large snag, conifer, or a large diameter hardwood. Mark a variety of species. Single, isolated trees marked should have relatively well developed crowns. Mark 1-2 CWD trees per acre as noted above.

**Access:** Off Fewins Rd. and 2-tracks stemming from N. Pioneer and Haze Rds.: see map

| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | ESTIMATED DATE |
|--|----------------|
| paint and GPS stand boundaries                         | 3/31/13        |
|  |                |

**CONTRACT WORK CAN BEGIN**  
 Immediately  Date: 4/1/13  
**CONTRACT WORK MUST BE COMPLETED BY** Date: 08/15/2013

**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 type="checkbox"/>            | <input checked="" type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input type="checkbox"/>                   | <input type="checkbox"/> Other: |

**Exclusions to mark and why:**

N/A

**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 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:**

Shapefile of the payment unit lines must be delivered to the contract administrator.

**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) |
|--------------------------------------|--------------------------|------------------|
|                                      |                          | X                |
|                                      |                          | X                |
|                                      |                          | X                |
|                                      |                          | X                |
| <b>TOTAL NUMBER OF CRUISE POINTS</b> |                          |                  |

Cruise Special Instructions:

Unless otherwise specified, the tally sheets used must be those supplied by the Forest Resources Division 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 64: 85 (80-90); stand 115: 90 (85-95)

| TREATMENT                                    | NUMBER                  | SIZE                 |         |
|--|-------------------------|----------------------|---------|
| Regeneration Gaps Per Acre: (stand 115 only) | 1-2 per acre            | up to 60' canopy gap |         |
| Girdled Trees Per Acre:                      | none                    |                      |         |
| PRODUCT                                      | MARKING SYMBOL          | MINIMUM DBH          | TOP DIB |
| Sawlogs                                      | orange slash on 2 sides | 10"                  | 8"      |
| Sawbolts                                     | N/A                     | N/A                  | N/A     |
| Pulpwood                                     | orange slash on 2 sides | 4.6"                 | 4"      |

| TYPE OF WORK                           | WORK TO BE DONE                     | NOT APPLICABLE           | PAINT COLOR  |
|--|-------------------------------------|--------------------------|--|
| Trees marked to leave (stand 122 only) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> Green<br><input type="checkbox"/> Other  |
| Trees marked to cut (stands 64 & 115)  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> Orange<br><input type="checkbox"/> Other |

**TALLY INTENSITIES**

| SPECIES / PRODUCT | RATIO |
|-------------------|-------|
|                   | 1 :   |
|                   | 1 :   |
|                   | 1 :   |
|                   | 1 :   |

**SPECIAL MARKING INSTRUCTIONS:**

Stands 64 & 115: Mark with an orange slash on 2 sides of tree at breast height; also butt-mark each marked tree so mark extends to the ground.

Stand 122: Mark trees to be retained with a green band or green dots at breast height so that the marks are visible from any direction. Also butt mark each marked tree with green paint so mark extends to the ground.

All stands: mark coarse woody debris trees (1-2 per acre) with an orange "X" on 2 sides of each tree. Butt mark these trees only in stand 122.

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

**RESTRICTIONS**

1. Forest Resources 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 Patrick Cotant at (231) 922 - 5280 x6844, to make arrangements for paint.
2. Paint will be supplied from Traverse City 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.