



# TIMBER SALE PRESCRIPTION

### GENERAL

|                                    |   |
|------------------------------------|---|
| Date<br>10/10/2012                 | Forest, Mineral and Fire Management Unit<br>Crystal Falls |
| Timber Sale Number (if applicable) | Sale Name (or prescription name)<br>Compartment 89        |

### LOCAL CONTACT

|   |                               |
|---|-------------------------------|
| Name<br>Linda Lindberg                  | Telephone<br>(906) 875 - 6622 |
| Email Address<br>lindbergl@michigan.gov | FAX<br>(906) 875 - 3336       |

Map of Project Area Attached

### LEGAL DESCRIPTION

T41N R28W Section(s) 35 Description SENW, SE1/4, NESW

Year of Entry: 2013 Compartment(s):89 Stand Number(s): 50

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

Estimated Acres: 63 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 |
|---------|------------|-------|-----|--------------|----------------------|
| 50      | M9         | 63    | 120 | low thinning | Northern Hardwood    |
|         |            |       |     |              |                      |
|         |            |       |     |              |                      |
|         |            |       |     |              |                      |
|         |            |       |     |              |                      |
|         |            |       |     |              |                      |
|         |            |       |     |              |                      |

### PRESCRIPTION

1. Mark trees to be cut. Favor the best future crop tree in place, regardless of species.
2. Leave den and nest trees and let administrator know if you find a nest tree.
3. Retain all hemlock, oak, cedar and red and white pine
4. Release oak to promote regeneration if present, 1-2 tree lengths from drip line.
5. GPS all roads within the sale area and GPS corners also.
6. Thin to 80 BA. If there are hemlock areas, just leave all of them according to administrator
7. Remove trees by marking if they have cankers or seams.
- 8.
- 9.
- 10.

Access

| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | ESTIMATED DATE |
|--|----------------|
|  |                |
|  |                |
|  |                |

### CONTRACT WORK CAN BEGIN

Immediately  Date:

CONTRACT WORK MUST BE COMPLETED BY Date December 31, 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 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 type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> Yellow <input type="checkbox"/> Other:          |
| Stand type line   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> Other:                 |

Exclusions to mark and why

**Standards for marking lines against private land**

All lines must be flagged w/pink ribbon, and painted so as to be visible from all vantage points along the line. GPS can be used to approx. line placement, but the final line must be essentially straight, and extend corner to corner. GPS points are required every 5 chains along blue 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 |          |
| 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:**

Recreational Trail can delineate north and south unit.

**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    Generally North-South

| CRUISING UNITS                       | NUMBER OF PLOTS PER ACRE | SPACING (CHAINS) |
|--------------------------------------|--------------------------|------------------|
| 1                                    | 1                        | 2 X 5            |
| 2                                    | 1                        | 2 X 5            |
|                                      |                          | X                |
|                                      |                          | X                |
| <b>TOTAL NUMBER OF CRUISE POINTS</b> |                          |                  |

**Cruise Special Instructions:**

one plot per acre. Points will be evenly distributed throughout the stand. The Carlson Method will be used for cruising pulp volume. Point centers must be marked with a ribbon on a stick or sapling at the center with the point number visible on the ribbon and a corresponding point marked on the map. Logs will be 100% tallied. Marks must be at least 4 ft. above the ground to be seen by a processor operator. Use mixed hardwood pulp, basswood pulp, aspen, mixed softwood, oversize hardwood pulp, sugar maple logs, basswood logs and mixed hardwood logs. All logs should be 100% tallied while marking and the same should happen with the oversize pulp.

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):** 80 (Minimum 70 to Maximum 90)

| TREATMENT                  |                         | NUMBER      | SIZE    |
|----------------------------|-------------------------|-------------|---------|
| Regeneration Gaps Per Acre |                         |             |         |
| Girdled Trees Per Acre     |                         |             |         |
| PRODUCT                    | MARKING SYMBOL          | MINIMUM DBH | TOP DIB |
| Sawlogs                    | slash x 2 w/dots f logs | 11          | 10      |
| Sawbolts                   | NA                      |             |         |
| Pulpwood                   | slash x 2 opposite      | 4.6         | 4       |

| TYPE OF WORK          | WORK TO BE DONE                     | NOT APPLICABLE           | PAINT COLOR  |
|-----------------------|-------------------------------------|--------------------------|--|
| Trees marked to leave | <input type="checkbox"/>            | <input type="checkbox"/> | <input 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 |
| Sawlogs and oversize pulp | 1 : 1 |
|                           | 1 :   |
|                           | 1 :   |
|                           | 1 :   |

**SPECIAL MARKING INSTRUCTIONS**

Trees to harvest shall be marked with orange paint on two opposite sides with a slash. The contractor must furnish the DNR with plot data showing residual BA/plot for self regulation. This is due before the DNR does the final check of the marking. The contractor is responsible for checking all workers on the sale. Final marking details are to be discussed at a prework conference.

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 Linda at (906) 875 - 6622, to make arrangements for paint.
2. Paint will be supplied from the Felch 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.