



# TIMBER SALE PRESCRIPTION

## GENERAL

|                                    |   |
|------------------------------------|---|
| Date<br>10/9/2008                  | Forest, Mineral and Fire Management Unit<br>Atlanta     |
| Timber Sale Number (if applicable) | Sale Name (or prescription name)<br>Compartment 156 RPP |

## LOCAL CONTACT

|  |   |
|--|---|
| Name<br>Cody Stevens                   | Telephone<br>(989) 785 - 4251 Ext: 5241 |
| Email Address<br>Stevench@Michigan.gov | FAX<br>(989) 785 - 3513                 |

Map of Project Area Attached

## LEGAL DESCRIPTION

T36N R02E Section(s) 17 Description Sec. 17 - E1/2NW, SWNW

Year of Entry: 2004 Compartment(s): 156 Stand Number(s): 23 & 25

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

Estimated Acres: 47 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      | R6         | 39    | 80 | Shelterwood/Seed Tree | Red Pine             |
| 25      | R9         | 8     | 90 | Shelterwood/Seed Tree | Red Pine             |
|         |            |       |    |                       |                      |
|         |            |       |    |                       |                      |
|         |            |       |    |                       |                      |

## PRESCRIPTION

- Stand 23: Mark to leave using yellow paint to 20-30 BA residual (representative of all overstory species).
- Stand 25: Mark to leave using yellow paint to 20-30 BA residual (representative of all overstory species). Within 33 feet on each side of the recreational trail mark red pine to 50 BA residual using the trail as the centerline.

**Access** From the intersection of County Road 489 and Brown Road, follow county road 489 northwesterly approximately 0.25 mile to two-track on the left side.

| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | ESTIMATED DATE |
|--|----------------|
| None   |                |
|  |                |
|  |                |

## CONTRACT WORK CAN BEGIN

Immediately  Date: \_\_\_\_\_

CONTRACT WORK MUST BE COMPLETED BY Date: **August 1, 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 type="checkbox"/> Yellow         | <input checked="" type="checkbox"/> Other: Green |
| Retention         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> Green          | <input type="checkbox"/> Other:                  |

**Exclusions to mark and why**

None

**Standards for marking lines against private land**

None

**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 checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other |          |

**Special Instructions:** GPS files must provide acreage for the total sale area and for each stand and payment unit. Unit lines must be recorded as line features.

**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**   E/W

| CRUISING UNITS                       | NUMBER OF PLOTS PER ACRE | SPACING (CHAINS) |
|--------------------------------------|--------------------------|------------------|
| Stand 23                             | 0.9                      | 3.0 X 3.0        |
| Stand 25                             | 0.9                      | 3.0 X 3.0        |
|                                      |                          |                  |
|                                      |                          |                  |
| <b>TOTAL NUMBER OF CRUISE POINTS</b> | 52                       |                  |

**Cruise Special Instructions:** Cruise all species separately. Separate cruise data by stand.

See APPENDIX 8 (will be provided upon request) and APPENDIX B

**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): 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                    |                |             |         |
| Sawbolts                   |                |             |         |
| Pulpwood                   |                |             |         |

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

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

**SPECIAL MARKING INSTRUCTIONS:** Note that the above marking instructions apply to all stands, except within 33 feet on each side of the recreational trail mark red pine to 50 BA residual using the trail as the centerline.

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 Cody Steven at ((989) 785 – 4251 Ext: 5241, to make arrangements for paint.
2. Paint will be supplied from the Atlanta or Grayling 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.

## Grayling Management Unit Boundary Marking and Area Calculation

1. The attached type map delineates the contract marking area.
2. Marking must be done in dry weather and when tree surfaces are not wet.
3. Paint the boundary line in such a way that it can be seen from both the inside of the sale area and when walking along the line from either direction (two sides). Each boundary line tree must be stump-marked at the base of the stump (one side) between the roots extending all the way to the ground.
4. Paint a unit line which will constitute the payment unit boundary, dividing the sale into payment units, as shown on the attached map.
5. Place marks approximately six feet above the base of the tree.
6. The contractor will keep track of total quarts of paint used per sale by color.
7. The contractor will use a GPS unit to determine enclosed acreage to the nearest one-tenth acre, unless an alternative method is approved prior by Unit Management.
8. GPS units used must be compatible with Pathfinder Office (2.01 or later) or be capable of producing an ArcView-compatible shapefile. Supply electronic and paper copies of the corrected and edited (outlier/erroneous points cleaned up) GPS file.
9. Position Mode must be set so that the GPS receiver collects data from a minimum of four satellites. This must be recorded in the position properties window after downloading.
10. The GPS receiver must log PDOP. This log must be recorded in the position properties window after downloading.
11. PDOP mask must be less than or equal to 8.
12. SNR setting must be greater than or equal to 4.
13. Sale boundaries are to be recorded as an area feature, not a line. Isolated stands must each be recorded as separate area features. Retention islands must also be recorded as area features. Retention clumps must be recorded and point features.
14. Payment Unit lines must be recorded as a line feature bisecting the sale.

## Grayling Management Unit Timber Cruising Specifications

1. Cruise designated timber using Appendix 8 Product Standards to determine products and heights of products. Separate cruise data by species/product. Appendix 8 will be provided upon request.
2. Cruise at the sampling intensity specified in the Timber Sale Prescription and apply that rate to your actual GPS'd stand acreage.
3. Separate cruise data by stand.
4. Use a 10-factor prism.
5. Mark location of plots on the map, using the plot number.
6. Record residual BA of trees where applicable. Record any mark-to-girdle trees separately. Do not count mark-to-girdle trees toward the specified residual BA target.
7. Unless otherwise agreed to by the contract administrator and the contractor, plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with a ribbon attached to it at a height of not less than two feet above the ground, and labeled with the PU/stand number and plot number. In addition, ribbon at least 12 inches long must be attached to the tree closest to plot center.
8. All cruise sheets must be labeled with the compartment #, stand #, unit #, prism factor, date, individual tree species, and the cruiser's name.
9. The Grayling Management Unit Office will provide cruise sheets.
10. **A copy of the "POSALE" program will be provided to the successful bidder for cruise data entry. Original cruise sheets and a disk containing cruise data exported from POSALE must be delivered upon the completion of the sale.** Note: At the cruise data entry screen in POSALE, when prompted to enter the stand acres, enter your actual GPS file acres – NOT the contract's estimated inventory-based acreage.