



TIMBER SALE PRESCRIPTION

| GENERAL | | | | | |
|---|--|-------|-----|---------------|-----------------------|
| Date 4/10/08 | Forest, Mineral and Fire Management Unit Grayling | | | | |
| Timber Sale Number (if applicable) 728080801 | Sale Name (or prescription name) 211 RPP | | | | |
| LOCAL CONTACT | | | | | |
| Name Patrick L. Potter | Telephone (989) 348-6371 ext: 7441 | | | | |
| Email Address Potterp@michgan.gov | FAX (989) 348-8825 | | | | |
| <input checked="" type="checkbox"/> Map of Project Area Attached | | | | | |
| LEGAL DESCRIPTION | | | | | |
| T28N R04W Section 23 Description: W1/2NW, NWSW | | | | | |
| Compartment(s): 211 (YOE 2003) stands 22 | | | | | |
| THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE | | | | | |
| Estimated Acres: 29 Source: <input checked="" type="checkbox"/> OI <input type="checkbox"/> GPS <input type="checkbox"/> Other _____ | | | | | |
| Payment will be made on the basis of these estimated acres. | | | | | |
| TREATMENT & OBJECTIVE | | | | | |
| STAND # | COVER TYPE | ACRES | BA | TREATMENT | MANAGEMENT OBJECTIVE |
| 22 | R6 | 29 | 120 | Final Harvest | Red Pine |
| | | | | | |
| | | | | | |
| PRESCRIPTION | | | | | |
| <p>1. Stand 22 - Final harvest with retention</p> <p>Access: From Frederic, go west on County Road 612 to Kolka Creek Road, then go north 2 miles.</p> | | | | | |
| DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK | | | | | ESTIMATED DATE |
| | | | | | |
| | | | | | |
| CONTRACT WORK CAN BEGIN | | | | | |
| <input checked="" type="checkbox"/> Immediately <input type="checkbox"/> Date: | | | | | |
| CONTRACT WORK MUST BE COMPLETED BY Date October 1, 2008 | | | | | |

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: |
| Retention island | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Other: |

Exclusions to mark and why: Natural Rivers 150 foot set-back along Kolka Creek: The sale boundary must be at least a 150 foot back from the west bank of Kolka Creek. This vegetative buffer will fall within the red pine plantation's edge at times. It is the contactor's responsibility to paint the sale boundary so that it excludes this 150 foot buffer strip. In addition, leave two 0.25 acre islands scattered in Unit 1 along Kolka Creek Road for retention.

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 | |
| 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 | |
| Retention Island | <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, payment unit and retention island. Unit lines must be recorded as line features. Retention islands must be recorded as area features.

See APPENDIX A

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 East/West

| CRUISING UNITS | NUMBER OF PLOTS PER ACRE | SPACING (CHAINS) |
|--------------------------------------|--------------------------|------------------|
| 1 and 2 (stand 22) | 1 | 3.3 X 3 |
| | | |
| TOTAL NUMBER OF CRUISE POINTS | 29 | |

Cruise Special Instructions: Cruise all species separately.

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): _____ (Minimum _____ to Maximum _____)

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

TALLY INTENSITIES

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

SPECIAL MARKING INSTRUCTIONS

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 Patrick L. Potter at (989) 348 - 6371 ext: 7441, to make arrangements for paint.
2. Paint will be supplied from the 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.
5. Cruise data entered into POSALE and exported onto a disk. Use the sale name and number from page 1.

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) and capable of producing a Trimble .cor file format. Supply a disk and paper copy of the corrected and edited (outlier/erroneous points cleaned up) traverse 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.
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.