



TIMBER SALE PRESCRIPTION

| GENERAL | |
|--|--|
| Date 10/26/2011 | Forest, Mineral and Fire Management Unit Cadillac |
| Timber Sale Number (if applicable) 63-003-12-01 | Sale Name (or prescription name) Baldwin Dieci |

| LOCAL CONTACT | |
|---|---|
| Name Cheryl Nelson | Telephone (231) 745 - 4651 Ext. 6942 |
| Email Address Nelsonc6@michigan.gov | FAX (231) 745 - 8743 |

Map of Project Area Attached

| LEGAL DESCRIPTION |
|--|
| T18N R11W Section(s) 7, 8 Description See attached map |

Year of Entry: 2012 Compartment(s):14 Stand Number(s): 84, 90, 115, 131, 135, 139, 142, 144, 151

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 274 Source: OI GPS Other IFMAP

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

| TREATMENT & OBJECTIVE | | | | | |
|-----------------------|------------|-------|---------|----------------------|----------------------|
| STAND # | COVER TYPE | ACRES | BA | TREATMENT | MANAGEMENT OBJECTIVE |
| 84 | A6 | 17 | 80-110 | Clearcut | Aspen |
| 90 | MD6 | 48 | 80-110 | Clearcut w/Reserves | Pine, Oak |
| 115 | MD6 | 50 | 80-110 | Seed Tree w/Reserves | Oak, Aspen |
| 116 | O6 | 39 | 80-110 | Seed Tree w/Reserves | Oak, Pine |
| 131 | O6 | 27 | 50-80 | Seed Tree w/Reserves | Mixed Oak |
| 135 | O6 | 25 | 110-140 | Shelterwood | Mixed Oak |
| 139 | O6 | 19 | 50-80 | Seed Tree w/Reserves | Mixed Oak |
| 142 | MD6 | 4 | 110-140 | Seed Tree w/Reserves | Oak, Aspen |
| 144 | O9 | 41 | 110-140 | Seed Tree w/Reserves | Mixed Oak |
| 151 | MC6 | 4 | 80-110 | Clearcut w/Reserves | Pine, Oak |

PRESCRIPTION

1. St. 84: Cut all species. No retention as agreed at Compartment Review.
2. St. 90: Cut all aspen, jack pine, and black cherry. Mark a mix of oak to leave averaging 30 BA, mark other species as necessary to maintain BA. Remove overstory surrounding patches of good oak regeneration. Focus retention along ORV trails.
3. St. 115: Cut all aspen, jack pine, red maple. Clearcut all species in aspen zones. Mark a mix of oak and pine to leave averaging 30 BA. Focus retention along Horse Trail.
4. St. 116: Cut all aspen. Mark a mix of oak and pine to leave averaging 40 BA. Focus retention along ORV trails.
5. St. 131: Cut all aspen and red maple. Mark oak to leave averaging 30 BA. Retention in the form patches.
6. St. 135: Cut all aspen and red maple. Do not cut red pine. Clearcut in aspen zones. Mark oak to leave averaging 50 BA. Focus retention along Horse Trail.
7. St. 139: Mark a mix of oak, pine, and maple to leave averaging 40 BA. Focus on retaining good quality trees, especially oak with large crowns. Retention in the form of patches.

8. St. 142: Cut all aspen and red maple. Do not cut any red pine. Mark oak to leave averaging 30 BA. Retention in the form marked to leave individual trees.
9. St. 144: Cut all red maple. Mark a mix of oak and cherry to leave averaging 40 BA. Retention in the form of small patches throughout stand.
10. St. 151: Cut all species except oak. Retention in the form individual trees.

Access: See attached maps.

| 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: 08/01/2012

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: Red |
| Stand type line | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Other: |

Exclusions to mark and why

Exclusions for retention in the form of patches will be marked and GPS coordinates taken. Individual retention trees will not be GPS'ed. This will be discussed at the pre-set up meeting.

Standards for marking lines against private land

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:

GPS units must be compatible with ArcView or Pathfinder software. A CD of the traverse shapefile (shp), and/or corrected file (cor), must be supplied to the DNR office.

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) |
|--------------------------------------|--------------------------|------------------|
| All | 1 | 3 X 3 |
| | | X |
| | | X |
| | | X |
| TOTAL NUMBER OF CRUISE POINTS | | |

Cruise Special Instructions:

- * Cruise all sawlogs to an 9.0" top (DOB), and all pulpwood to a 4.5" top (DOB).
- * Point sample method cruising for all products and species.
- * Prepare cruise data in the form of CD or email, and must be compatible with the DNR's Timber Sale PC program. All tally sheets must be turned in.
- * Unless otherwise specified, the tally sheets used must be those supplied by the Management Unit

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):

Stands 90, 115, 131, and 142 30 (Minimum 20 to Maximum 40)
 Stands 116 and 139 40 (Minimum 30 to Maximum 50)
 Stand 135 50 (Minimum 40 to Maximum 60)

| TREATMENT | NUMBER | SIZE |
|----------------------------|-------------------------|-------------|
| Regeneration Gaps Per Acre | NA | |
| Girdled Trees Per Acre | NA | |
| PRODUCT | MARKING SYMBOL | MINIMUM DBH |
| Sawlogs | Slash at DBH, see #2 be | 10 incles |
| Sawbolts | | |
| Pulpwood | Slash at DBH, see #2 be | 4.6 inches |

| 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 <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

- Stand/boundary trees shall be marked red at DBH with a "V" that is visible on 3 sides and the point of the "V" facing the sale area. Corners within the sale should be marked with 3 well-defined vertical "V" 's.
- Paint mark to leave trees green paint at DBH with a slash on two sides (that is visible from all sides), and a stump mark.

Also see attached appendix.

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

RESTRICTIONS

- Forest, Mineral and Fire Management Division must to be able to identify who did what on the timber sale.
- The contractor may not have more than two markers in one payment unit without prior approval.
- Each marker should have an assigned area to mark (not strips).

PAINT

- Call Cheryl Nelson at (231) 745 - 4651 Ext. 6942, to make arrangements for paint.
- Paint will be supplied from the Baldwin Field Office.
- Contractor's work schedule must coincide with the DNR work schedule for paint supply.
- The DNR will not be available on weekends or evenings.

DELIVERABLES

- A list of names that marked or cruised each payment unit.
- A summary of paint used (in quarts).
- Tally summaries for each payment unit (one summary, regardless of the number of markers) and all of the original tally sheets.
- GPS files for any GPS work.

Baldwin Dieci (#63-003-12-01) – Contractor Appendix

When Establishing Paint Lines

- Avoid using dead or badly damaged trees – boundary trees must last for the duration of the timber sale which could be 5-6 years.
- Avoid using small (fast growing) stems and those exposed to direct sunlight.
- Marking must be done in dry weather and when the trees are not wet.
- Paint the boundary line in such a way that it can be seen from the inside of the sale as well as when walking along the line from either direction.
- Lines should be four and a half feet above the base of the tree.

When Registered Corners or Witness Trees Are Discovered

- Any wooden posts encountered at corners must be painted/protected.
- Bearing and/or witness trees discovered during the course of sale preparation must be protected, this can be accomplished by painting a ring completely around the tree at 4-6 feet above the ground.
- Please report corner condition to the local contact.

When Cruising

- Residual basal area must be recorded.
- Plot centers must be marked on cruise map with a scale of 1:15840 or larger (i.e., 1:7920).
- Plot center will be marked by a stake or stick firmly inserted in the ground (not snow) with ribbon attached to it at a height of not less than two feet above the ground and labeled with the plot number. In addition, ribbon at least 12 inches long must be attached to a tree closest to plot center.