



TIMBER SALE PRESCRIPTION

| GENERAL | |
|------------------------------------|--|
| Date 8/31/11 | Forest, Mineral and Fire Management Unit Newberry |
| Timber Sale Number (if applicable) | Sale Name (or prescription name) |

| LOCAL CONTACT | |
|--|-------------------------------------|
| Name Keith Magnusson | Telephone (906) 293 - 3293 x4745 |
| Email Address magnussonk@michigan.gov | FAX (906) 293 - 8530 |

Map of Project Area Attached

| LEGAL DESCRIPTION |
|--|
| T47N R8W Section(s) 4, 5 & 6 Description Also T48N R8W Sec 31 & 32 (See cover type maps) |

Year of Entry: 2012 Compartment(s): 50 & 77 Stand Number(s): C50-Stands 26&49 C77-Stands 5,7&12

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 239 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 |
| 5 | M6 | 22 | 80 -> 30 | Shelterwood-Seed | Upland Hardwoods |
| 7 | M6 | 28 | 80 -> 30 | Shelterwood-Seed | Upland Hardwoods |
| 12 | M6 | 147 | 120 -> 40 | Shleterwood-Seed | Upland Hardwoods |
| 26 | M6 | 10 | 150 -> 80 | Selection | Upland Hardwoods |
| 49 | M9 | 32 | 150 -> 80 | Selection | Upland Hardwoods |
| | | | | | |
| | | | | | |

| PRESCRIPTION |
|---|
| <ol style="list-style-type: none"> 1. Leave tree mark all stands. 2. Favor (leave) the best future crop tree in place, regardless of diameter or species. 3. Leave a component of all hardwood species present. 4. Leave a representation of all merchantable diameter classes present. 5. All hemlock, white pine, spruce and cedar are designated to be left, no need to mark it. 6. Cruise out all hardwood to be cut. 7. Leave obvious nest or den trees and leave some trees with forks up high in tree. 8. If raptor nests are discovered within the stand while marking, contact the Newberry Office. 9. Options on marking stands 26 and 49 will be discussed a pre-work meeting. Call if you have questions about this work prior to bidding. |

Access Go north of Newberry on M-123 to County Road 510 (Skyline Road). Proceed down CR 510 to the Charcoal Grade and turn North on the Grade. Stands can be access via foot (see map).

| 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 09/01/2012

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

Exclusions to mark and why

Use appropriate buffers against intermittent drainages or low/wet areas. Any areas that may look like a vernal pond should be excluded from sale area. This will be discussed at pre-work 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 | 2 meters |
| Payment Unit | <input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other | 2 meters |
| Stand | <input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other | |

Special Instructions:

The DNR must approve GPS units(s). Contractor must supply their own GPS units that are capable of downloading information to a computer.

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 stands | .5 | 4 X 5 |
| | | X |
| | | X |
| | | X |
| TOTAL NUMBER OF CRUISE POINTS | | |

Cruise Special Instructions:

Cruise out any hardwood trees to be harvested per DNR product standards. Cruise each tree by species. In addition, record each tree by diameter and stick height for these trees. Record only the basal area of trees to be left as residual. This will be discussed at the pre-work meeting.

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):

Stand 5: 30 (Minimum 20 to Maximum 40)

Stand 7: 30 (Minimum 20 to Maximum 40)

Stand 12: 40 (Minimum 30 to Maximum 50)

Stand 26: 80 (Minimum 70 to Maximum 90)

Stand 49: 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 | | | |
| Sawbolts | | | |
| Pulpwood | | | |

| TYPE OF WORK | WORK TO BE DONE | NOT APPLICABLE | PAIN T 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

See above prescription section.

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 Keith Magnusson at (906) 293 - 3293 x4745, to make arrangements for paint.
2. Paint will be supplied from the Newberry 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.