



TIMBER SALE PRESCRIPTION

GENERAL

Date 10/18/2009	Forest, Mineral and Fire Management Unit Gladwin Management Unit
Timber Sale Number (if applicable) 73-005-10-01	Sale Name (or prescription name) Whiskey Creek Pine

LOCAL CONTACT

Name Mike Hanley	Telephone (517) 243-2028
Email Address hanleym@michigan.gov	FAX (989) 426-1454

Map of Project Area Attached

LEGAL DESCRIPTION

SW1/4, NW1/4 & S1/2, SW1/4, SW1/4 & E1/2, NW1/4, SW1/4 of **Sec 5** and N1/2, SE1/4 & S1/2, NE1/4 of **Sec 8** and S1/2, S1/4, NE1/4 & NE1/4, SE1/4 of **Sec 17 of T19N R06W**

Year of Entry: 2010 Compartment(s): 14 Stand Number(s): 31, 34, 59, 62 & 86

THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE

Estimated Acres: 112 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
31	R9	15	180	Thinning	Red Pine
34	R9	8	170	Thinning	Red Pine
59	R6	13	200	Thinning	Red Pine
62	R6	54	200	Thinning	Red Pine
86	R9	22	140	Selection	Oak

PRESCRIPTION

- Stand 31:** Mark to cut Red Pine with orange paint, reducing residual Red Pine BA/AC down to 120 by individual tree marking. Leave all scattered hardwoods.
- Stand 34:** Mark to cut Red Pine with orange paint, reducing residual Red Pine BA/AC down to 120 by individual tree marking.
- Stand 59 & 62:** Mark to cut Red Pine rows with orange paint. 1st time Red Pine row thinning. Remove 1/3 of the volume by removing every 3rd row. The end 3 trees in each cut row need to be marked. Double slash on end tree with confidence trees marked within cut rows. Apply retention by leaving all scattered mixed hardwoods within stand.
- Stand 86:** Jack Pine and Aspen removal. Cruise but do not mark Jack Pine and Aspen. Mark to cut Red Pine in dense areas with orange paint, retaining 60 BA/AC. Focus retention at North end of stand along creek.
- Access:** Via N. Temple Road, Stockwell Road and various state two tracks.

DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK	ESTIMATED DATE
Blue line will be painted by DNR staff in stands 59 and 62	4/1/10

CONTRACT WORK CAN BEGIN

- Immediately for stands 31, 34, and 86 Date: 4/1/10 for stands 59 and 62

CONTRACT WORK MUST BE COMPLETED BY Date 07/31/2010

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

Special Instructions for paint line work: Yellow marks for cutting units shall be visible from all sides of the trees. See attached map for locations and colors of lines to be marked.

DNR to paint blue lines in stands 59 and 62. Contractor will paint blue line in stands 31, 34 and 86.

Standards for marking lines against private land: The sale area has survey corners. Copies of survey information can be obtained at the Gladwin Field Office to facilitate the location of private lines. The blue line is to be accurately located leaving no buffers along private boundaries.

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	HDOP ≤ 3
Payment Unit	<input checked="" type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	HDOP ≤ 3
Stand	<input type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	

Special Instructions:

Contractor must GPS all stands, payment units, and/or retention island separately. Contractor must also provide a GPS file and hard copy of each stand printed at a scale of 1:15840. See map for location and color of lines to be GPS'd.

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 North-South or East-West

CRUISING UNITS	NUMBER OF PLOTS PER ACRE	SPACING (CHAINS)
Stands 31, 34, 59, 62 & 86	1	Evenly Spaced
TOTAL NUMBER OF CRUISE POINTS	112 (approximately)	

Cruise Special Instructions:

- Total number of cruise points is estimate, based on estimated acres. Actual number should be based on 1 plot per acre, for acreage determined by GPS.
- **ALL CRUISE POINTS MUST SHOW RESIDUAL BA.**
- Contractor **MUST** show plot locations for each stand on their GPS stand boundary map. Plot locations do **NOT** need to be GPS'd.
- Plot center locations must be marked on the ground and at eye level with brightly colored ribbon.

It is preferred that contractor use DNR tally sheets. Contractor may use their own tally sheets, with approval by Gladwin Forest Management Unit. Imagery and information for Solo as well as TCruise cruising template must be made available upon request.

Red Pine Plantations (Stands 59 & 62): Contractor must conduct a 100% cruise in all Red Pine 1st entry row thinnings.

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 31 and 34: 120 (Minimum 110 to Maximum 130)

Stand 86: 60 (Minimum 50 to Maximum 70)

TREATMENT		NUMBER	SIZE
Regeneration Gaps Per Acre		N/A	N/A
Girdled Trees Per Acre		N/A	N/A
PRODUCT	MARKING SYMBOL	MINIMUM DBH	TOP DIB
Sawlogs	Slash visible from all sides	9.1" Diameter Class	8" Diameter Class
Sawbolts			
Pulpwood	Slash visible from all sides	4.6" Diameter Class	4" Diameter Class

TYPE OF WORK	WORK TO BE DONE	NOT APPLICABLE	PAINT COLOR
Trees marked to leave	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> Green <input type="checkbox"/> Other
Trees marked to cut	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Orange <input type="checkbox"/> Other

TALLY INTENSITIES	
SPECIES / PRODUCT	RATIO
N/A	1 :
	1 :
	1 :
	1 :

SPECIAL MARKING INSTRUCTIONS

See individual stand prescriptions for retention details. Contractor must GPS leave islands if applicable. Implementation of the retention guidelines will be discussed on a stand by stand basis at the pre work meeting.

First Time Red Pine Thinning Stands (59 & 62) - The end 3 trees in each row must be marked. A double slash should be applied to the end tree in each row. Begin with the 3rd row in from the outside of plantation, then continue to remove every 3rd row. It will be the sale prep contractor's responsibility to insure and maintain 3rd row sequence by marking confidence trees with orange paint within cut rows.

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 Mike Hanley at (517) 243 - 2028, to make arrangements for paint.
2. Paint will be supplied from Gladwin 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.