



MICHIGAN DEPARTMENT OF NATURAL RESOURCES
FOREST, MINERAL AND FIRE MANAGEMENT

TIMBER SALE PRESCRIPTION

GENERAL					
Date 9/13/2009			Forest, Mineral and Fire Management Unit Crystal Falls Forest Management Unit		
Timber Sale Number (if applicable)			Sale Name (or prescription name) Brown's Gate Contract		
LOCAL CONTACT					
Telephone Number (906) 875 - 6622			FAX Number (906) 875 - 3336		
Name Linda Lindberg			Email Address lindberl@michigan.gov.		
<input checked="" type="checkbox"/> Map of Project Area Attached					
LEGAL DESCRIPTION					
T42 R27 Section(s) 11, 12, 13, 14 Description					
Year of Entry: 2010 Compartment(s):68 Stand Number(s): 2, 3, 6, 7					
THIS TIMBER SALE CONTRACT IS BASED ON THE FOLLOWING ACREAGE					
Estimated Acres: 98 Source: <input type="checkbox"/> OI <input checked="" 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
2	M6	7	140	Thinning	M6
3	M6	19	150	Thinning	M6
6	M6	16	150	Thinning	M6
7	M6	56	140	Thinning	M6
PRESCRIPTION					
1. See Attached					
2.					
3.					
4.					
5.					
6.					
Access: Access to these stands will require a key to the gate. See Linda Lindberg for the key.					
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK					ESTIMATED DATE
Stands GPSed and lines painted in all stands.					09/01/2009
CONTRACT WORK CAN BEGIN:					
<input checked="" type="checkbox"/> Immediately <input type="checkbox"/> Date:					
CONTRACT WORK MUST BE COMPLETED BY: Date 06/30/2010					

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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Blue	<input type="checkbox"/> Other:
Sale boundary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Red	<input type="checkbox"/> Other:
Sale cutting unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Yellow	<input type="checkbox"/> Other:
Stand type line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other:

Exclusions to mark and why:

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 type="checkbox"/> GPS <input type="checkbox"/> String Chain <input type="checkbox"/> Other	
Payment Unit	<input 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:

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)
Block 1	1	2 X 5
Block 2	1	2 X 5
Block 3	1	2 X 5
Block 4	1	2 X 5
TOTAL NUMBER OF CRUISE POINTS		

Cruise Special Instructions:

You can cruise whatever direction makes sense as long as you get 1 plot per acre. Please cruise and identify one unit at a time. For example Block 1 should be cruised separately from Block 2 and so on.

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 Residual BA (Basal Area): 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	dot per log with slash	11	10
Sawbolts			
Pulpwood	dot or slash	5	4
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
sawlog	1 : 1
large pulp should be tallied with the sawlogs	1 : 1
	1 :
	1 :

SPECIES TO FAVOR:

best tree in place in all categories.

SPECIES TO FAVOR:

Do not cut oak or elm & take good ash logs if there are some but leave larger mature ash for seed

SPECIAL MARKING INSTRUCTIONS:

see attached

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 Linda at (906) 875 - 6622, to make arrangements for paint.
2. Paint will be supplied from (location).
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.

Brown Gate Contract

These stands are all very heavy in Basal Area and should be marked with consideration for equipment to operate. Where there are poles, the area should be marked to 70 BA. Where logs are present the marking should be to 80 to 90 BA. Some areas have less BA due to past thinning...some parts were not thinned. Concentrate on choosing crop trees and thinning around them, remove the two most competing trees if the crop tree is over 8 inches DBH. Thin around the smaller diameter crop trees ensuring 7 feet all the way around the crown of the crop tree. Block 1 must be accessed thru GMO. There is a short walk to get there from their road system. All other stands have private roads to them which must be left as good, or better, than before your use. Do not mark elm, oak, red or white pine, or cedar. If ash is marked the marking should be concentrated on the better log trees, leave the poorer quality logs and large overmature ash for seed trees. In Block 4, there are some openings. The largest opening has a red line painted around it. The other smaller openings do not have lines painted but they have been GPS'ed to subtract their acreage. There is a little aspen in some of the openings, this aspen should be left and is not part of the hardwood stand. There are many grassy openings along the edge of these stands. We have permission to use the road systems in this area which are mostly private. The roads should be treated with caution and respect, both regarding other traffic and making sure not to litter or cause any disruption. These roads will be needed to access these stands to harvest.

Browns Gate Contract TIMBER SALE PRESCRIPTION APPENDIX

When establishing paint lines:

- The attached type map delineates the contract marking area.
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When Registered Corners or Witness Trees are discovered:

- Any wooden posts encountered at corners must also 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 ground level with either red paint (corner surrounded by state lands) or blue paint (corner on private property boundary line). In addition, tying ribbon on these trees helps alert loggers to their presence. Do not mark any trees for harvest if cutting them is likely to result in damage to corner monuments and/or bearing trees.
- Please report the condition of all corners, posts and bearing trees to the Contract Administrator (CA).

When Cruising:

- Data must be recorded so volume can be determined by stand. If a stand is split into 2 or more payment units, each unit must be recorded separately. In addition, all data must be summarized by species or species grouping by payment unit.
- All saw logs must be 100% tallied by species and diameter.
- Within all marked stands, cruise all marked pulpwood tree species that will yield one or more 100" pulpwood sticks with a minimum top diameter of four (4) inches DIB. Contact the Contract Administrator to see what grouping of pulpwood is acceptable.
- Within all marked stands, residual basal area (merchantable sized trees by species) at each plot must also be recorded on the cruise sheets. Plot centers must be marked according to contract specifications and correspond to a legible 1:15840 scale cruise map. Cruise specifications may be altered as necessary by the Contract Administrator.

When marking, prioritize selection of trees to be cut in the following order:

1. Release suitable crop trees. (Refer to The Complete Marker for crop tree specifications.)
2. When appropriate, try to increase the number of lesser occurring species. Maintain all species diversity. The Contract Administrator can provide an explanation of this priority.
3. Remove high-risk, poor quality and trees with poor crowns.
4. Maintain target basal area.

Reserved Species:

- Do not mark near any raptor nest trees. Report these to the Contract Administrator as soon as possible and directions will be given at that time.