

TIMBER SALE PRESCRIPTION

GENERAL								
Date					Forest, Mineral and Fire Management Unit			
8/29/08					Grayling			
Timber Sale Number (if applicable)					Sale Name (or prescription name)			
728060901					Compartment 252 Oak Jack			
	OCAL CONTACT				Tolophono			
Name Joan L. Charlebo	via.				Telephone (089) 348-6371 ext; 7443			
Email Address	л s				(989) 348–6371 ext: 7443 FAX			
charlebj@michga	n.gov				(989) 348-8825			
☑ Map of Pro	ject Area Attach	ed			(((()))			
LEGAL DESCRIPTION								
T27N R02W Section(s) 4, 5 & 6 Description: Section 4: W1/2NE, E1/2NW & NWNW. Section 5: N1/2. Section 6: W1/2NE, NW & N1/2SW.								
Compartment: 25	52 (YOE 2009) star	nds 4, 1	0, 18, 19 & 24					
THIS TIMBER S.	ALE CONTRACT I	S BASI	ED ON THE FO	DLLOWIN	NG ACREAGE			
Estimated Acre	es: 276 Source	. ⊠ ∩	□GPS	☐ Oth	er			
					<u> </u>			
•	nade on the basis of	these e	stimated acres.					
TREATMENT & STAND#		ACRE	ва	TREATM	AENT	MANACEME	ENT OR IECTO/E	
04	O6	104	110	Selectio		MANAGEMENT OBJECTIVE Oak		
	06	44	70	Final Ha		Oak		
10								
18	06	59	90	Final Ha		Oak		
19	J6	15	100	Final Ha	arvest	Aspen		
24 PRESCRIPTION	O6	54	120	Shelterv	wood-Seed	Oak		
 Stand 04 - Selection: Cut all Aspen, Jack Pine and Red Maple. Stand 10 - Final Harvest: Cut all species 9° DBH and larger. Stand 18 - Final harvest with retention. Stand 19 - Final harvest with retention. Stand 24 - Shelterwood-Seed: Mark-to-leave oak and red pine using green paint to a total residual BA of 30 square feet. Access: See attached map								
DNR PREPARATION WORK TO BE DONE PRIOR TO CONTRACT WORK							ESTIMATED DATE	
None								
CONTRACT WORK CAN BEGIN Immediately Date: 10/1/2008								
CONTRACT WORK MUST BE COMPLETED BY April 30, 2009								

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	NE NOT APPLICABLE PAINT		COLOR				
Private boundary		\boxtimes	□ Blue	Other:				
Sale boundary	\boxtimes		⊠ Red	Other:				
Sale cutting unit	\boxtimes			☐ Other:				
Retention island & bog buffer	\boxtimes		⊠ Green	Other:				
wide strip along the snowmobile trail	l. In addition, in st half-acre retention	and 18, delineate two one-ac n island (as shown on the att	cre retention i ached map).	ary line so that it excludes a one-chain islands (as shown on the attached All bog/wetland inclusions that occur				
Standards for marking lines ag	gainst private la	nd						
AREA CALCULATION								
☑ This is included in the bid ☐ This is not included in the bid								
UNIT	METHOD			STANDARD				
Sale	⊠ GPS □	String Chain 🔲 Other						
Payment Unit	⊠ GPS □	String Chain 🔲 Other						
Stand	⊠ GPS □	String Chain Other						
Retention Island & Bog Buffer	⊠ GPS □	String Chain Other						
Special Instructions: GPS files and bog buffer. See APPENDIX A.		eage for the total sale area a	nd for each s	tand, payment unit, retention island				
TIMBER CRUISING SPECIFICATION	ONS							
⊠ This is included in the bid	☐ This is not	included in the bid						
Required Basal Area Factor:	⊠ 10 □ 20	☐ Other:						
required basar Alea I deter.		Other.						
Cruise Line Directions standar	d systematic grid							
CRUISING UNITS		UMBER OF PLOTS PER AC	CRE SPAC	ING (CHAINS)				
1 & 2 (stand 4)	0.	.6	4 X 4					
3 (stand 10)	1		3 X 3	3.3				
4 & 5 (stand 18)	0.	.8	3 X 4	ļ				
6 (stands 19)	1		3 X 3					
7 (stand 24)	0.	.9	3 X 3					
TOTAL NUMBER OF CRUISE POIL		20						
	Oruise all species s	separately. Separate cruise		d. See APPENDIX 8 (will be provided at and Fire Management Unit.				

TIMBER MARKING SPECIFICA	ATIONS				
$oxed{oxed}$ This is included in the b	id 🔲 This is not included	in the bid			
⊠ Precis	se specifications to be deline	eated at pre-work meeting v	with DNR staff		
Total Merchantable Residu	al BA (Basal Area): 30 (Mini	imum <u>20</u> to Maximum <u>40</u>)			
TREA	ATMENT	NUMBER	SIZE		
Regeneration Gaps Per Act Girdled Trees Per Acre	re	0			
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	ees marked to leave		☑ Green ☐ Other		
Trees marked to cut			☐ Orange ☐ Other		
	TALLY I	NTENSITIES			
SPECIES	/ PRODUCT	RATIO			
		1:			
	UCTIONS: In stand 24, mark-to		reen paint to a total BA of 30 square		

SPECIAL MARKING INSTRUCTIONS: In stand 24, mark-to-leave oak and red pine using green paint to a total BA of 30 square feet. Favor for residual: healthy oak with good crown development (particularly white oak when it meets those criteria), and red pine that also have good form and are likely to be capable of withstanding increased snow load and wind exposure.

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 Joan Charlebois at (989) 348 6371 ext. 7443 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 and 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. See also Appendix B.
- 4. GPS files for any GPS work. See also Appendix A.
- 5. Cruise data entered into POSALE and exported in an electronic format. 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.
- 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) or be capable of producing an ArcView-compatible shapefile. Supply electronic and paper copies of the corrected and edited (outlier/erroneous points cleaned up) GPS 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 or HDOP. This log must be recorded in the position properties window after downloading.
- 11. PDOP mask must be less than or equal to 8.
- 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. Retention islands and bog buffers must also be recorded as area features.
- 14. Payment Unit lines must be recorded as line features.

Grayling Management Unit Timber Cruising Specifications

- 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.
- Separate cruise data by stand.
- 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. If a portable data recorder is used for cruising, submit a summary sheet that details the rest of the required information.
- 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 an electronic copy of the 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'd acres NOT the contract's estimated inventory-based acreage. Also, if retention islands or bog buffers were delineated within the sale area, do not include those acres in the entered POSALE stand acres.