



**DEPARTMENT OF NATURAL RESOURCES
STATE OF MICHIGAN
TIMBER SALE PROSPECTUS #7249**

SCHEDULED SALE DATE AND TIME: 2:00 p.m. (local time) on May 17, 2023.

LOCATION: SHINGLETON MGMT UNIT, PO BOX 67, M 28 WEST, SHINGLETON, MI 49884.

PROSPECTUS NOTE: The bidder is advised to inspect the sale area and review the location, estimated volumes, operating costs and contract terms of proposed sales. Please be aware that some landowners may request 60 days or more notice for access across their land.

Notice is hereby given that bids will be received by the Unit Manager, SHINGLETON MANAGEMENT UNIT, for certain timber on the following described lands:

GNA2 Haunted Grassy (41-813-22) / T44N, R18W, SEC. 10, W1/2NW.

T44N, R18W, SEC. 16, NENW.

T44N, R18W, SEC. 3, W1/2SW.

T44N, R18W, SEC. 4, SENW, SWNE, SW, SE.

T44N, R18W, SEC. 9, N1/2SE, SWSE.

T44N, R18W, SEC. 9, NENW, N1/2NE, SENE, E1/2SW.

T45N, R18W, SEC. 32, NENW, NWNE, S1/2NE.

T45N, R18W, SEC. 33, NW, SWNE, N1/2SW, SESW, W1/2SE.

Schoolcraft County, Advertised Price \$225,816.40, 482.7 Acres, Hardwood, Aspen.

SALE NOTE: This is a Good Neighbor Authority timber sale on national forest land. This timber sale was set-up and is being advertised by the Michigan DNR for the US Forest Service. The contract will be awarded and administered by the MDNR.

Forest Service Road 2302 borders Big Island Wilderness area & extra precautions must be followed. See Sale Spec 4.1.8 for more info.

Forest Service Road 2302 cannot be used for hauling beyond access gate, only skidding can occur beyond gate.

Within Payment Unit(s) 1, harvesting is limited to frozen conditions (generally Dec. 1 through Mar. 31) due to sensitive soils.

Within Payment Unit(s) 2 - 8, 12, 14 & 15, cutting & skidding are not permitted during April 15 to July 15 due to bark slippage.

Equipment will need to be cleaned prior to being moved on-site. See Sale Spec 5.6.2 for details.

Access to Units 2-4 will require constructing temporary roads. See Sale Spec 4.1.6 for details.

Habitat work is required, see Sale Specs 5.2.4.4 & 5.2.4.6 for info.

Access may be through other public land.

GNA2 Flat Iron North (41-821-22) / T41N, R18W, SEC. 4 , N1/2NW,N1/2NE,SWNE,NESW.

T41N, R18W, SEC. 4 , S1/2SW,W1/2SE.

T41N, R18W, SEC. 5 , N1/2NW,SWNW,N1/2SW,SWSW.

T41N, R18W, SEC. 6 , NW,NE,N1/2SW,SESW,N1/2SE,SWSE.

T41N, R18W, SEC. 8 , E1/2NE.

T41N, R18W, SEC. 9 , N1/2NW,SWNW.

T42N, R18W, SEC. 31, E1/2SE.

T42N, R18W, SEC. 32, S1/2SW,E1/2SE.

T42N, R18W, SEC. 33, E1/2SW,NWSE,S1/2SE.

Delta County, Advertised Price \$145,075.60, 335.5 Acres, Hardwood, Aspen.

SALE NOTE: This is a Good Neighbor Authority timber sale on national forest land. This timber sale was set-up and is being advertised by the Michigan DNR for the US Forest Service. The contract will be awarded and administered by the MDNR.

It is the Purchaser's responsibility to obtain access across private land for any routes other than route shown on Timber Sale Map.

Within Payment Unit(s) 2 - 8 & 10 - 12, harvesting is limited to winter, frozen ground, or snow-covered conditions due to sensitive soils.

Within Payment Unit(s) 1, 8 & 9, cutting and skidding are not permitted during April 15 to July 15 due to bark slippage.

KK Road is a snowmobile trail which may be used to access sale. See Sale Spec 5.2.41 for restrictions.

The Forest Service is planning to replace bridge over Fishdam River on Forest Service Rd 2222; work is planned for summer 2023; if the work is delayed, all trucking will need to be west to Highway 13.

Additional habitat work is required. See Spec 5.2.4.4 for details.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions. Access may be through other public land.

GNA2 Flat Iron South (41-822-22) / T41N, R18W, SEC. 5 , SESW.

T41N, R18W, SEC. 6 , NWSW,S1/2SW.

T41N, R18W, SEC. 7 , NW,NWNE,S1/2NE.

T41N, R18W, SEC. 8 , NENW,S1/2NW,W1/2NE,N1/2SW.

T41N, R19W, SEC. 1 , SESW,NESE,S1/2SE.

T41N, R19W, SEC. 12, NW,NE,N1/2SW,NWSE.

Delta County, Advertised Price \$473,793.35, 444.4 Acres, Red Pine, Hardwood.

SALE NOTE: This is a Good Neighbor Authority timber sale on national forest land. This timber sale was set-up and is being advertised by the Michigan DNR for the US Forest Service. The contract will be awarded and administered by the MDNR.

Within Payment Unit(s) 1 and 2, cutting, skidding, and hauling are limited to frozen conditions (generally December 1 to April 15) because of sensitive soils.

Within Payment Unit(s) 10, 12 & 13, cutting & skidding are not permitted during the period of April 15 to July 15 because of bark slippage.

KK Road is a snowmobile trail and is shown on Timber Sale Map. See Sale Spec 5.2.41 for restrictions.

The Forest Service is planning to replace bridge over Fishdam River on Forest Service Rd 2222; work is planned for summer 2023; if the work is delayed, all trucking will need to be west to Highway 13.

Additional Habitat Work is required. See Sale Spec 5.2.4.4 and 5.2.4.6 for details.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions. Access may be through other public land.

BID INSTRUCTIONS (VER. 10/10/2022):

1. Scheduled Bid Location, Date, and Time (2/11)

Bids must be received by the Unit Manager, SHINGLETON OFFICE, PO Box 67 M 28 West, Shingleton, MI 49884, no later than 2:00 p.m. (local time) on May 17, 2023. For further information concerning this sale, contact Robert Burnham at 906-420-1645 extension n/a.

2. Bidder's Qualifications (10/22)

If all or part of a timber sale was prepared by a private contractor, the contractor and that contractor's company are not permitted to bid on the timber sale. A person must be 18 years of age or older to purchase timber. Permanent employees of the Department of Natural Resources or members of their immediate household may not bid. Former employees, in the permanent or seasonal class, may not bid until 3 months after the last day of active duty. Bids will not be accepted from individuals or companies appearing on the DNR/FRD No-Bid List. This list contains the names of purchasers who previously failed to execute a contract within 21-days or who have a history of poor performance.

3. Preparation of Sealed Bids (5/16)

Bid Forms may be completed online thru Michigan DNR Timber Sale Online Bidding (OLB) at www.michigan.gov/timberbidding or by completing the hardcopy Bid Form found in the Timber Sale Prospectus. Hardcopy Bid Forms shall be manually signed in ink. Registration in OLB is considered your 'signature' for all bids submitted thru that system. Bid prices must be entered for each species and product in the Bid Price column for all material subject to bidding and all fill-in blanks must be completed. If erasures or other changes appear on the hardcopy Bid Form, each erasure or change must be initialed by the person signing the bid.

4. Submission of Sealed Bids (5/16)

Bid forms may be obtained from the Unit Manager or thru OLB. Bids may be submitted hardcopy or thru OLB. All hardcopy bids must be submitted on the bid form and in an envelope clearly identified as described in this section. NOTE: Only one bid form per bid envelope. Sealed bids must be submitted to the Unit office designated in the prospectus and must be submitted at or prior to the time established in the prospectus. The envelope should show on the outside (a) the sale name or number and (b) the date and time of bid opening, as shown in the prospectus. Bids received after the time specified in the sale prospectus are late bids and will be rejected.

It is possible for a bidder to submit multiple bids on a single sale. For example, a bid may be submitted hardcopy and a bid may be submitted thru OLB. Or, two bidders from the same company could both submit bids on the same sale. If this were to happen, the State would accept all bids received and award the contract accordingly. All bidding and contractual requirements would apply to all bids received.

5. Public Opening of Sealed Bids (7/16)

If conditions permit, the sealed bids will be publicly opened and posted at the time and place set in the prospectus.

If a bidder, present at a bid opening, has submitted bids on more than one sale, that bidder may withdraw their unopened bid envelopes or announce the withdrawal of their online bid after being declared the successful bidder on one sale.

6. Award of Contract (1/11)

Award of the contract will be made to the Bidder whose bid, conforming to the prospectus, is most advantageous to the State of Michigan on the basis of total value at rates bid for the estimated quantities. The State reserves the right to reject any bid or waive any minor irregularity in bids received. A written award mailed (or otherwise furnished) to the successful Bidder shall be deemed to result in a binding contract without further action by either party.

7. Down Payment (1/11)

The Bidder to whom award is made must make a down payment within 21 days of the sale award. The amount of the down payment will be calculated as shown in the Bond and Payment Schedule of this prospectus. Only cash may be used to meet this requirement.

8. Performance Security (1/11)

As guarantee of faithful performance, a cash bond, certificate of deposit, surety bond or irrevocable letter of credit (LOC) is required within 21 days of the sale award. The amount of the performance security is shown in the Bond and

Payment Schedule of this prospectus. If an LOC or surety is used, the coverage must extend for at least 6 months beyond the contract expiration.

9. Worker's Compensation (10/22)

Purchaser shall obtain worker's compensation insurance to cover claims under Michigan's Worker's Disability Compensation Act of 1969 or similar employee benefit act of any other state applicable to an employee. Verification of Worker's Disability Compensation Act Compliance must be completed and submitted within 21 days of contract award and prior to the issuance of the timber sale contract. In addition, if applicable, Notice of Exclusion or Certificate of Insurance must also be submitted.

10. Timber Sale Contract (10/22)

Additional conditions and requirements common to all timber sales are listed on the timber sale contract (R4031) and are available on line at www.michigan.gov/timber. Contact the Unit Manager for additional information or a sample contract. Within 21 days of the date of the award letter, the bidder must sign the contract and provide the required down payment, performance security, and verification of worker's disability compensation. The down payment and performance security shall be in accordance with the provisions of the timber sale contract, in the sums stated in this prospectus. If these actions are not taken, then the Bidder, the Bidder's corporation, and the corporation's principals may not be permitted to bid on State timber sales for a period of 3 months after the first offense, 6 months after the second offense, and 1 year after the third offense. An offense will only be counted against the Bidder for 5 years. In addition, the Bidder certifies that if awarded this contract, the Bidder will complete the timber sale contract in accordance with its terms and any modifications thereof including requirements to purchase, cut, and remove the included timber by the expiration date.

Payment Unit values in the State Forest Timber Sale Contract are calculated based on the advertised value of the Payment Unit as a percentage of the total advertised value of the contract. The advertised value of each Payment Unit is given in the Description of Timber by Payment Unit table on the Timber Sale Information page. For example, if the value of Payment Unit 1 is advertised as \$1,500 and the total Timber Sale value is advertised as \$10,000, the contract price for Payment Unit 1 will be 15% of the total bid price ($\$1,500/\$10,000 * 100$).

11. Disclaimer of Estimates and Bidder's Warranty of Inspection (10/22)

Before submitting this bid, the Bidder is advised and cautioned to inspect the sale area, review the requirements of the sale contract, and take other steps as may be reasonably necessary to ascertain the location, estimated volumes, construction estimates, and operating costs of the proposed sale. Failure to do so will not relieve the Bidder from responsibility for completing the contract.

The Bidder warrants that this bid is submitted solely on the basis of the Bidder's examination and inspection of the quality and quantity of the timber offered for sale and the Bidder's opinion of the value thereof and the costs of recovery. No reliance should be placed on the State of Michigan's estimates of timber quality, quantity or costs of recovery. Bidder further acknowledges that the State of Michigan: (i) expressly disclaims any warranty of fitness of timber for any purpose; (ii) offers this timber as is without any warranty of quality (merchantability) or quantity and (iii) expressly disclaims any warranty as to the quantity or quality of timber sold.

12. Certification and Chain-of-Custody (10/22)

Unless otherwise indicated in the contract under section 7 – Other Conditions of the Sale Specific Conditions & Requirements, the area encompassed by this timber sale is certified to the standards of the Forest Stewardship Council (FSC) - Certificate #SCS-FM/COC-00090N and the Sustainable Forestry Initiative (SFI) - Certificate #NSF-SFIS-5Y031-SF5. Forest products from this sale may be delivered to the mill as "FSC 100% and / or SFI certified" as long as the contractor hauling the forest products is chain-of-custody (COC) certified or covered under a COC certificate from the destination mill. The purchaser is responsible for maintaining COC after leaving the sale area.

13. Good Neighbor Authority (GNA) Requirements (10/22)

If the name of this timber sales contains the acronym GNA, it is authorized by the Good Neighbor Authority (GNA) and covered by various agreements between the U.S. Forest Service and the State. The timber sale occurs on federal land and the following conditions apply:

GNA contracts on US Forest Service land will not be awarded to purchasers on the Federal list of excluded parties. The System for Award Management (SAM) will be checked for active excluded parties prior to award of contract. In

addition, the Bidder to whom award is made must complete an Assurance Regarding Felony Conviction or Tax Delinquent Status for Corporate Applicants (AD-3031).

14. Good Neighbor Authority (GNA) Requirements, con't (10/22)

Bidder certifies, by signing this bid form, that to the best of Bidder's knowledge that the following representations are accurate and complete.

- a. That the Bidder and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntary excluded from timber sales (covered transactions) by any Federal department or agency.
- b. That the Bidder and its principals have not within a 3-year period preceding this bid been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining , attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- c. That the Bidder and its principals are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph b of this certification.
- d. That the Bidder and its principals have not within a 3-year period preceding this bid had one or more public transactions (Federal, State, or local) terminated for breach or default of a timber or forest product contract.

Bidders that cannot certify this requirement, in whole or in part, shall submit an explanation with their bid.

SHANNON LOTT, Acting
Director

TIMBER SALE INFORMATION

GNA2 Haunted Grassy (41-813-22)

T44N, R18W, SEC. 10; T44N, R18W, SEC. 16; T44N, R18W, SEC. 3; T44N, R18W, SEC. 4; T44N, R18W, SEC. 9; T45N, R18W, SEC. 32; T45N, R18W, SEC. 33.

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Equipment will need to be cleaned prior to being moved on-site. See Sale Spec 5.6.2 for details.

Access to Units 2-4 will require constructing temporary roads. See Sale Spec 4.1.6 for details.

Habitat work is required, see Sale Specs 5.2.4.4 & 5.2.4.6 for info.

Access may be through other public land.

A timber sale contract for this lump sum, sealed bid timber sale will be awarded to the responsible bidder offering the highest sealed bid price. All units of volume listed below were estimated using the Inventory Manager computer program and the new Michigan taper model. Bids must be at or above the following advertised price for each product and species:

<u>PRODUCTS & SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Black Cherry	41.6 MBF	\$ 109.00 / MBF
Paper Birch	12.6 MBF	\$ 117.00 / MBF
Red Maple	930.4 MBF	\$ 97.00 / MBF
Sugar Maple	172.8 MBF	\$ 290.00 / MBF
Pulpwood		
Balsam Fir	93 Cords	\$ 10.70 / Cord
Jack Pine	2 Cords	\$ 27.65 / Cord
Mixed Aspen	972 Cords	\$ 24.05 / Cord
Mixed Hardwood	2,441 Cords	\$ 14.70 / Cord
Paper Birch	232 Cords	\$ 16.85 / Cord
Red Pine	190 Cords	\$ 64.80 / Cord
White Pine	24 Cords	\$ 24.20 / Cord
White Spruce	121 Cords	\$ 19.30 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 7.39 percent. There are an estimated 7,052 cords on this timber sale, plus or minus 522 cords at the 95% confidence level. The estimated units are final and not subject to adjustment. Prospective bidders are urged to examine this timber and to make their own estimates of quantity and quality.

BOND AND PAYMENT SCHEDULE:

1. A bond in the amount of \$11,291.00 to insure faithful performance of the conditions of the contract will be deposited by the successful bidder within 21 days of the sale award.
2. Cutting in any sale or unit without the required advance payment would be considered a trespass.
3. Total payment must be paid in advance or according to the following schedule :
 - (a) Ten percent (10%) of the sale value must be paid within 21 days of the sale award.
 - (b) The 10% down payment will be credited towards the first unit cut.

(c) Payment for each of the following units must be made before cutting begins in that unit:

PAYMENT UNIT NUMBER	PERCENT OF TOTAL SALE VALUE
01	2.7%
02	3.0%
03	4.1%
04	7.1%
05	16.7%
06	14.2%
07	16.9%
08	11.4%
09	3.2%
10	1.7%
11	5.3%
12	2.5%
13	1.7%
14	6.4%
15	3.1%

4. If no cutting takes place, the 10% down payment will not be refunded.

5. Operations on the contract issued will terminate on 06/30/2026.

SALE STATISTICS

Volumes were calculated in cubic feet using the Michigan taper model. Cubic foot volume includes all wood inside bark for the product indicated. For display purposes, cubic feet were converted to cords and MBF using a simple conversion factor, e.g. 79 cubic feet per cord and 185 cubic feet per MBF. The cubic foot volumes are precise; the cords and MBF volumes are not. Cubic foot volume cannot be directly converted to cords or boards with precision.

SALE VOLUMES

The total estimated sale volume may not equal the sum of the species/products due to the nature of statistical calculations associated with double sampling methodology.

VOLUME		STATISTICAL RANGE IN CORDS		
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
557,146	7,052	7.39%	6,531	7,574

VDU VOLUMES

A VDU is a Volume Determination Unit. Volumes and their associated statistics are calculated at the VDU level and summarized to the sale level. There is often a one to one relationship between a VDU and a Payment Unit, but not always, depending on the cruise design. Refer to the VDU TO PAYMENT UNIT table.

VDU	VOLUME			RANGE IN CORDS	
	TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
4	278,111	3,520	11.03%	3,132	3,909
5	13,660	173	39.74%	104	242
15	21,439	271	35.65%	175	368
21	42,492	538	19.82%	431	644
29	21,182	268	40.57%	159	377
39	14,103	179	42.05%	103	254
49	23,812	301	12.13%	265	338
54	13,021	165	77.59%	37	293
60	62,127	786	16.67%	655	918
93	25,505	323	33.86%	214	432
165	13,260	168	15.03%	143	193
283	28,434	360	21.90%	281	439
TOTAL:	557,146	7,052		5,699	8,406

VDU TO PAYMENT UNIT

When a VDU is associated with more than one Payment Unit (PU), the VDU volumes are assigned to the PU based on acres of the VDU within the PU.

VDU	VDU ACRES	PU	PU ACRES
4	243.8	5	68.8
		6	58.3
		7	69.9
		8	46.8
5	14.7	12	14.7
15	18.5	15	18.5
21	37.9	14	37.9
29	39.4	2	39.4
39	5.8	10	5.8
49	9.9	9	9.9
54	7.1	11	7.1
60	62.2	4	62.2
93	22.4	3	22.4
165	6.6	13	6.6
283	14.4	1	14.4
TOTAL:	482.7		482.7

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Black Cherry	Sawtimber	0.8	MBF	14.4	\$6,111.55
	Red Maple		8.9	MBF		
	Balsam Fir	Pulpwood	17	Cords		
	Mixed Aspen		96	Cords		
	<i>Quaking Aspen</i>		96	Cords		
	Mixed Hardwood		95	Cords		
	<i>Black Cherry</i>		3	Cords		
	<i>Red Maple</i>		67	Cords		
	<i>Sugar Maple</i>		25	Cords		
	Paper Birch		69	Cords		
	White Pine		3	Cords		
	White Spruce		2	Cords		
	<i>White Spruce</i>		2	Cords		
	2	Red Maple	Sawtimber	12.5		
Sugar Maple			0.7	MBF		
Balsam Fir		Pulpwood	16	Cords		
Jack Pine			2	Cords		
Mixed Aspen			157	Cords		
<i>Quaking Aspen</i>		Sawtimber	9.8	MBF		
<i>Quaking Aspen</i>		Pulpwood	137	Cords		
Mixed Hardwood			49	Cords		
<i>Beech</i>			19	Cords		
<i>Red Maple</i>			29	Cords		
<i>Sugar Maple</i>			1	Cords		
Red Pine			5	Cords		
White Pine			5	Cords		
White Spruce			10	Cords		
<i>White Spruce</i>		Sawtimber	1.2	MBF		
<i>White Spruce</i>		Pulpwood	8	Cords		
3	Paper Birch	Sawtimber	12.6	MBF	22.4	\$9,198.45
	Red Maple		40.9	MBF		
	Sugar Maple		5.5	MBF		
	Mixed Hardwood	Pulpwood	123	Cords		
	<i>Red Maple</i>		105	Cords		
	<i>Sugar Maple</i>		18	Cords		
	Paper Birch		21	Cords		
4	Red Maple	Sawtimber	30.1	MBF	62.2	\$16,130.90
	Sugar Maple		5.4	MBF		
	Balsam Fir	Pulpwood	9	Cords		
	Mixed Aspen		345	Cords		
	<i>Quaking Aspen</i>		345	Cords		
	Mixed Hardwood		129	Cords		
	<i>Beech</i>		8	Cords		
	<i>Red Maple</i>		98	Cords		
	<i>Sugar Maple</i>		23	Cords		
	Paper Birch		77	Cords		
	White Spruce		3	Cords		
	<i>White Spruce</i>		3	Cords		
5	Black Cherry	Sawtimber	11.5	MBF	68.8	\$37,801.80
	Red Maple		183.7	MBF		
	Sugar Maple		42.0	MBF		
	Balsam Fir	Pulpwood	3	Cords		
	Mixed Aspen		32	Cords		
	<i>Quaking Aspen</i>		32	Cords		
	Mixed Hardwood		391	Cords		
	<i>Beech</i>		35	Cords		

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU), CON'T

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
5 con't	<i>Black Cherry</i>	<i>Pulpwood</i>	17	<i>Cords</i>		
	<i>Ironwood</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		263	<i>Cords</i>		
	<i>Sugar Maple</i>		75	<i>Cords</i>		
6	Black Cherry	Sawtimber	9.8	MBF	58.3	\$32,007.15
	Red Maple		155.6	MBF		
	Sugar Maple		35.6	MBF		
	Balsam Fir	Pulpwood	2	Cords		
	Mixed Aspen		27	Cords		
	<i>Quaking Aspen</i>		27	<i>Cords</i>		
	Mixed Hardwood		330	Cords		
	<i>Beech</i>		29	<i>Cords</i>		
	<i>Black Cherry</i>		14	<i>Cords</i>		
	<i>Ironwood</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		223	<i>Cords</i>		
	<i>Sugar Maple</i>		63	<i>Cords</i>		
	7	Black Cherry	Sawtimber	11.7		
Red Maple			186.6	MBF		
Sugar Maple			42.7	MBF		
Balsam Fir		Pulpwood	3	Cords		
Mixed Aspen			32	Cords		
<i>Quaking Aspen</i>			32	<i>Cords</i>		
Mixed Hardwood			396	Cords		
<i>Beech</i>			35	<i>Cords</i>		
<i>Black Cherry</i>			17	<i>Cords</i>		
<i>Ironwood</i>			1	<i>Cords</i>		
<i>Red Maple</i>			267	<i>Cords</i>		
<i>Sugar Maple</i>			76	<i>Cords</i>		
8		Black Cherry	Sawtimber	7.8	MBF	46.8
	Red Maple		124.9	MBF		
	Sugar Maple		28.6	MBF		
	Balsam Fir	Pulpwood	2	Cords		
	Mixed Aspen		22	Cords		
	<i>Quaking Aspen</i>		22	<i>Cords</i>		
	Mixed Hardwood		266	Cords		
	<i>Beech</i>		24	<i>Cords</i>		
	<i>Black Cherry</i>		11	<i>Cords</i>		
	<i>Ironwood</i>		1	<i>Cords</i>		
	<i>Red Maple</i>		179	<i>Cords</i>		
	<i>Sugar Maple</i>		51	<i>Cords</i>		
	9	Red Maple	Sawtimber	15.3	MBF	
Sugar Maple			3.5	MBF		
Balsam Fir		Pulpwood	8	Cords		
Mixed Aspen			74	Cords		
<i>Quaking Aspen</i>			74	<i>Cords</i>		
Mixed Hardwood			85	Cords		
<i>Beech</i>			15	<i>Cords</i>		
<i>Red Maple</i>			58	<i>Cords</i>		
<i>Sugar Maple</i>			12	<i>Cords</i>		
Paper Birch			63	Cords		
White Pine			15	Cords		
White Spruce			6	Cords		
<i>White Spruce</i>			6	<i>Cords</i>		
10	Red Maple	Sawtimber	6.6	MBF	5.8	\$3,765.25
	Balsam Fir	Pulpwood	10	Cords		
	Mixed Aspen		101	Cords		

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU), CON'T

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
10 con't	<i>Quaking Aspen</i> Mixed Hardwood <i>Red Maple</i> White Spruce <i>White Spruce</i>	<i>Pulpwood</i>	101 23 23 13 13	<i>Cords</i> Cords <i>Cords</i> Cords <i>Cords</i>		
11	Mixed Aspen <i>Quaking Aspen</i> Red Pine	Pulpwood	2 2 185	Cords <i>Cords</i> Cords	7.1	\$12,036.10
12	Red Maple Sugar Maple Balsam Fir Mixed Hardwood <i>Beech</i> <i>Red Maple</i> <i>Sugar Maple</i> White Pine	Sawtimber Pulpwood	29.7 3.6 5 105 4 91 10 1	MBF MBF Cords Cords <i>Cords</i> <i>Cords</i> <i>Cords</i> Cords	14.7	\$5,546.10
13	Red Maple Sugar Maple Balsam Fir Mixed Aspen <i>Quaking Aspen</i> Mixed Hardwood <i>Beech</i> <i>Red Maple</i> <i>Sugar Maple</i> Paper Birch White Spruce <i>White Spruce</i>	Sawtimber Pulpwood	6.9 0.7 8 58 58 41 2 29 10 2 46 46	MBF MBF Cords Cords <i>Cords</i> Cords <i>Cords</i> <i>Cords</i> <i>Cords</i> Cords Cords <i>Cords</i>	6.6	\$3,877.00
14	Red Maple Sugar Maple Balsam Fir Mixed Aspen <i>Quaking Aspen</i> Mixed Hardwood <i>Beech</i> <i>Red Maple</i> <i>Sugar Maple</i> White Spruce <i>White Spruce</i>	Sawtimber Pulpwood	83.1 4.5 10 26 26 273 17 214 42 15 15	MBF MBF Cords Cords <i>Cords</i> Cords <i>Cords</i> <i>Cords</i> <i>Cords</i> Cords Cords	37.9	\$14,400.60
15	Red Maple Mixed Hardwood <i>Beech</i> <i>Red Maple</i> <i>Sugar Maple</i> White Spruce <i>White Spruce</i>	Sawtimber Pulpwood	45.6 135 17 111 7 26 26	MBF Cords <i>Cords</i> <i>Cords</i> <i>Cords</i> Cords <i>Cords</i>	18.5	\$6,909.50
TOTAL:			1,157.4	MBF		
TOTAL:			4,075	Cords		

Sale Specific Conditions & Requirements

Sale Name: GNA2 Haunted Grassy

Sale Number: 41-813-22 Seq#: 1

1 - Sale Area

1.2 - Boundaries

1.2.1 - Painted boundaries (9/19)

Exterior sale boundary lines against Federal land are marked with orange paint. Interior Payment Unit boundaries are marked with orange paint (rings). The painted boundary line trees are not Included Timber and are to be protected. Orange painted trees designating an interior Payment Unit boundary are only to be cut when all surrounding Payment Units have been paid.

2 - Timber Specifications

2.1 - Included Timber

2.1.1 - Clearcut unit(s) with unmerchantable trees (6/14)

Within Payment Unit(s) 1, 9, 10 and 13, cut all aspen and maple trees that are one (1) inches or more at DBH, except do not cut trees marked in green paint. Cut all other trees that meet minimum piece specifications in 2.2 Utilization, unless marked in green paint. In addition, do not cut cedar and hemlock in Payment Units 9, 10 and 13. Special protection areas identified in accordance with condition 3.4.3, within clearcutting unit boundaries, are not Included Timber and are to be protected.

2.1.3 - Cut tree marked unit(s) (12/08)

Within Payment Unit(s) 2-8, 11, 12, 14, and 15, all trees are designated for cutting when marked with blue paint above and below stump height, regardless of merchantability.

2.2 - Utilization

2.2.12 - GNA, cut and remove Included Timber (3/18)

Unless provided otherwise herein, the DNR agrees to sell and permit Purchaser to cut and remove Included Timber and Purchaser agrees to purchase, cut, and remove Included Timber.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) with a value over \$20,000 may be divided at the request of the Purchaser and upon approval of the Unit Manager. Dividing Payment Units is a contract modification which requires a Timber Sale Contract Amendment.

3.4 - Damaged Timber

3.4.3 - Special Protection Areas (8/11)

The Purchaser shall protect special protection areas from damage by the Purchaser's operations. Special protection areas are marked with an orange boundary line and identified on the Timber Sale Map. The Purchaser shall not cut live or dead trees within special protection areas. Adjacent trees cannot be felled into the special protection areas. If the Purchaser's operations have cut or damaged special protection areas through carelessness, the Purchaser shall pay \$10,000 as fixed, agreed and liquidated damages for each acre or part thereof cut or damaged. Such payment does not constitute ownership of the undesignated timber.

4 - Transportation

4.1 - Construction

4.1.3 - Slash and earthen piles (8/04)

Piles or windrows of earth along roads and landings that have been widened or constructed shall be leveled. Slash from road maintenance or construction, including stumps, shall be dispersed throughout the sale.

4.1.4 - Timber removed for construction (12/09)

Trees cut or damaged in the process of pre-approved road, landing or skid trail construction will be decked in an area separate from other Designated Timber and not removed until measured by the sale administrator. Payment will be made at the

specified Purchase Unit Price.

4.1.6 - Road construction (1/09)

Construction of new roads or improvements of existing roads shall be done in such a way as to minimize the environmental and visual impacts. Merchantable trees shall be cut and utilized unless otherwise directed. Non-merchantable trees shall be severed and laid flat on the ground. Slash shall be scattered, and not left in windrows and kept a minimum of 10 feet back from the road edge. Stumps shall be set upright, not left on edge, and be moved at least 10 feet away from the road edge. Disturbed soil shall be feathered into the woods and not left in berms or windrows. Access to Payment Units 2-4 will require new temporary roads. These roads will need to be laid out and agreed upon by the Sale Administrator before construction can begin. The approximate locations are identified on the Timber Sale Map. The total length of the new temporary road(s) is limited to 1/2 mile. Access to Payment Units 5-10 will be from the north on closed road 2451.

This road has been decommissioned on the south end and cannot be used as a through road to 2173.

4.1.7 - Road closure (10/11)

All new roads built into the sale must be blocked to vehicle traffic within 30 days of completion of hauling. Overgrown roads that are reopened shall be considered new roads. Forest Service Road 2451 will need to be closed after Payment Units 7-10 are complete. In general, this will require constructing a four (4') foot high berm of stumps and logs covered with earth. Stumps and brush must be placed along the remainder of the trail. These roads must be rendered impassable to cars and trucks. All stumps from road building and landing construction must be reserved to block any newly constructed roads upon completion of the sale. These stumps must be scattered along the road system to prohibit vehicular movement. Contact the sale administrator for specific details of design and placement.

4.1.8 - Road work (1) (8/07)

Forest Service Road 2302 borders the Big Island Wilderness area and extra precautions must be followed. Clearing limits from the centerline of the road will be a maximum of 8' from the centerline. Vegetation removal from the south side will be kept to a minimum; vegetation that is removed on the south side within the limits cannot be stumped and must be flush cut.

4.2 - Maintenance

4.2.4 - Grading (10/16)

For completion of the sale, Forest Service roads must be graded. In general, this will require a road grader or bull dozer to shape up the roads after forest products have been hauled off site. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. The grading equipment to be used must be approved by the Unit Manager or his/her representative.

4.4 - Access

4.4.3 - Access gate (12/08)

Forest Service Road 2302 cannot be used for hauling beyond the access gate, only skidding can occur beyond the gate.

5 - Operations

5.1 - Notification

5.1.1 - Pre-sale conference (10/16)

A pre-sale conference on site between the Purchaser and sale administrator is required prior to beginning any operations to determine landing and road locations. The Unit Manager or his/her representative must be contacted at least 10 days in advance to schedule the conference.

5.1.4 - Post-sale conference (10/16)

A post-sale conference on site between the Purchaser and sale administrator is required 5 days prior to the completion of active logging operations to determine clean-up and repair of landings, road edges, and the fulfillment of other contract specifications.

5.2 - Conduct of Operations

5.2.2 - Hazard Trees/Snags

5.2.2.1 - Den trees (10/16)

Obvious hollow and/or den trees shall be protected and left standing unless they are a safety hazard.

5.2.3 - Operating Restrictions

5.2.3.1 - Operating restrictions (9/11)

Within Payment Unit(s) 1, unless changed by written agreement, cutting, skidding, and hauling are limited to frozen conditions. Generally this period is December 1 through March 31. This restriction is because of sensitive soils.

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 2-8, 12, 14 and 15, unless changed by written agreement, cutting and skidding are not permitted during the period of April 15 to July 15. This restriction is because of bark slippage.

5.2.4 - Dead and Down Creation

5.2.4.4 - Dead and down creation, grouse (6/18)

To encourage grouse and other wildlife, in Payment Unit(s) 1, cut and leave one, 10" or larger diameter whole tree on the ground per acre, preferably a hardwood species such as aspen or maple for drumming logs. The trees that are felled for drumming logs will be evenly scattered throughout the unit and should be cut as low to the ground as possible.

5.2.4.6 - Dead and down creation, other (9/09)

In Payment Unit 11, one tree per acre must be topped at least 15 feet (preferably 20 feet) off the ground. The top must be left intact on the ground and the remainder of the tree must be left standing. Each of these should be a large red pine. This is done to create snags in the stand. These should be at least 50 feet from the road and are trees that are not already designated for harvest.

5.2.32 - Decking/landing restoration (9/13)

All decking and landing areas must have the surface area restored to a condition equal to or better than before. This is to ensure the proper regeneration of the stand. Wood debris, chips and "cookies" from trimmings must be removed or scattered away from landing and loading areas and may not be windrowed on the edge. All turnarounds and landings associated with Payment Units 2-4 must be seeded with weed free oats and slash must be evenly distributed over these areas not exceeding 14 inches in height.

5.2.37 - No decking areas (12/08)

No decking is allowed on County Road 445 or Forest Service Road 2173.

5.2.38 - No decking against live trees (2/04)

Cut products may not be decked against unmarked or designated leave trees.

5.4 - Soil Protection

5.4.1 - Rutting restriction, general (7/16)

Operations are to cease immediately if equipment and weather conditions result in rutting of roads and/or skid trails which is 12 inches or greater in depth and 50 feet in length. The Unit Manager or his/her representative may restrict hauling and/or skidding if ruts exceed the specified depth. With the Unit Manager or his/her representative's approval, the Purchaser may return to the area when the risk of rutting has decreased.

5.4.4 - Slope protection (9/19)

Skid trails and roads on slopes shall be water barred with slash, stumps, and/or clean straw bales native to the area as soon as use is complete to prevent erosion.

5.4.7 - Rutting restriction, Riparian Management Zone (RMZ) (1/09)

Within the Riparian Management Zone (RMZ), which are located around excluded wetlands and rivers in Payment Units 6, 7, 8 and 9, operations are to cease immediately if equipment and weather conditions result in rutting of roads and skid trails which is 6 inches or greater in depth and 25 feet in length. Additional RMZ's are excluded ponds in Payment Unit 4, operations are to cease immediately if equipment and weather conditions result in rutting of roads and skid trails which is 6 inches or greater in depth and 25 feet in length. The Unit Manager or his/her representative may restrict hauling and/or skidding if ruts exceed the specified depth. With the Unit Manager or his/her representative's approval, the Purchaser may return to the area when the risk of rutting has decreased.

5.6 - Debris and Waste Material

5.6.2 - GNA, equipment cleaning (1/16)

(a) Areas, known by the DNR prior to timber sale advertisement, that are infested with invasive species of concern are

shown on the Timber Sale Map. A current list of invasive species of concern and a map showing the extent of known infestations is available from the DNR. For purposes of this provision, "Off-Road Equipment" includes all logging and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars, and similar vehicles.

(b) Purchaser shall adhere to the following requirements with regard to cleaning "Off-Road Equipment":

(i) Prior to moving Off-Road Equipment onto the Sale Area, Purchaser shall identify the location of the equipment's most recent operation. Purchaser shall not move any Off-Road Equipment that last operated in an area infested with one or more invasive species of concern onto Sale Area without having cleaned such equipment of seeds, soil, vegetative matter, and other debris that could contain or hold seeds, and having notified the DNR, as provided in (iii). If the location of prior operation cannot be identified, then Purchaser shall assume that the location is infested with invasive species of concern.

(ii) Prior to moving Off-Road Equipment from a cutting unit that is shown on the Timber Sale Map to be infested with invasive species of concern to, or through any other area that is shown as being free of invasive species of concern, or infested with a different invasive species, Purchaser shall clean such equipment of seeds, soil, vegetative matter, and other debris that could contain or hold seeds, and shall notify the DNR, as provided in (iii).

(iii) Prior to moving any Off-Road Equipment subject to the cleaning requirements set forth above, Purchaser shall advise DNR of its cleaning measures and make the equipment available for inspection. DNR shall have 2 days, excluding weekends and State holidays, to inspect equipment after it has been made available. After satisfactory inspection or after such 2 day period, Purchaser may move the equipment as planned. Equipment shall be considered clean when a visual inspection does not disclose seeds, soil, vegetative matter, and other debris that could contain or hold seeds. Purchaser shall not be required to disassemble equipment unless so directed by the DNR after inspection.

(iv) If Purchaser desires to clean Off-Road Equipment on National Forest land, such as at the end of a project or prior to moving to, or through an area that is free of invasive species of concern, Purchaser shall obtain prior approval from the Unit Manager or his/her representative as to the location for such cleaning and measures, if any, for controlling impacts.

(v) Unit Manager or his/her representative may order delay, interruption, or modification of this Contract pursuant to Condition & Requirement 7.3 or 7.3.4.

(c) Nothing contained in this Condition & Requirement shall be interpreted as creating any warranty on the part of the DNR that all locations of invasive species of concern have been described herein, elsewhere in this Contract, or designated on the ground. Following sale advertisement, additional locations may be described or designated, and other species may be added to the list of invasive species of concern. In such event, the Unit Manager or his/her representative may order delay, interruption, or modification of this Contract pursuant to Condition & Requirement 7.3 or 7.3.4.

(d) The parties shall promptly communicate with one another with respect to description or designation of additional locations; discovery of locations of new species or new infestation; and, addition of species to the list of invasive species of concern.

5.8 - Protection of Endangered Species

5.8.3 - Red shoulder hawk or goshawk (2/16)

In the event that an active red shoulder hawk or goshawk nest is found, the contract may be amended to protect the nest site until the nest is determined to be inactive. The value of the trees in this excluded area will be refunded or credited to the Purchaser. The nest will be buffered with a five-chain radius (eight acre) protection area, centered on the nest tree, in which there will be no cutting or new roads constructed. Avoid human disturbance, including loading and skidding, in the protection area.

An additional zone of five chains (ten chains centered on the active nest tree) will be established in which there is no management activity from April 1 to July 30. Limit biomass harvesting and chipping operations within this ten-chain zone, retain the maximum one-third of residues per the Woody Biomass Harvesting Guidelines (Michigan DNR 2010). Nests determined to be inactive will be protected with a one-chain no-harvest buffer.

6 - Safety and Fire Prevention

6.2 - Signing

6.2.1 - Road posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on County Road 445 and Forest Service Road 2173 prior to beginning operations. The road must be posted at appropriate distances from the sale area to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.

7 - Other Conditions

SKIP

7.1.1 - GNA, title (7/16)

General Condition & Requirement 7.1 is inapplicable. The following applies to this contract.

All right, title, and interest in and to any Included Timber shall remain in USDA Forest Service with the State of Michigan acting on behalf of the USDA Forest Service under this GNA contract, until it has been Measured, removed from Sale Area or other authorized cutting area, and paid for, at which time title shall vest in Purchaser. Title to any Included Timber that has been Measured and paid for, but not removed from Sale Area or other authorized cutting area by Purchaser on or prior to Termination Date, shall remain in USDA Forest Service.

7.3 - Contract Modifications

7.3.4 - GNA, contract suspension and modification (5/16)

(a) The Unit Manager may, by written order, delay or interrupt authorized operations under this contract or, notwithstanding Condition & Requirement 7.3, modify this contract, in whole or in part:

(i) To prevent environmental degradation or resource damage, including, but not limited to, harm to habitat, plants, animals, cultural resources, or cave resources;

(ii) To ensure consistency with land and resource management plans or other documents prepared pursuant to the National Environmental Policy Act of 1969, 42 USC 4321-4347;

(iii) To conduct environmental analysis, including, but not limited to, engaging in consultation pursuant to the Endangered Species Act of 1973, 16 USC 1531, et seq.; or

(iv) Upon agreement of the Forest Service, due to administrative appeal or litigation, regardless of whether the Unit Manager's order is required by a court order or this contract is named in such a proceeding.

(b) In the event of an order delaying or interrupting Purchaser's Operations under this Condition & Requirement, Purchaser's remedy shall be:

(i) a no cost contract extension,

(ii) reimbursement for Out-of-Pocket Expenses,

however, the foregoing remedies shall be available only to the extent that the Unit Manager's order was the sole and exclusive cause of the delay or interruption of Purchaser's operations.

(c) Remedies awarded to the Purchaser shall not be duplicative, and the Unit Manager shall have the right to structure remedies provided herein to avoid duplicative compensation.

(d) Purchaser agrees that this Condition & Requirement, and the remedies provided herein shall apply regardless of any finding by any court that the DNR failed to comply with any statute, regulation and/or policy in connection with awarding, advertising, or authorizing this sale, or a similar sale.

7.5 - Loss

7.5.2 - GNA, liability for loss (7/16)

If Included Timber is destroyed or damaged by an unexpected event that changes the nature of Included Timber, such as wind, flood, insects, disease, or similar cause, the Purchaser shall bear the timber value loss resulting from such destruction or damage.

Deterioration or loss of timber value due to delay or interruption under 7.3.4 - GNA, contract suspension and modification, shall be borne by the party holding title. In this event, Included Timber to which USDA Forest Service holds title, Purchaser of the State GNA contract will not be obligated to remove and pay for such timber. This Subsection shall not be construed to relieve either party of liability for negligence.

7.10 - Certified Timber

7.10.1 - Non-certified timber (2/16)

The area encompassed by this timber sale is not certified to the standards of the Forest Stewardship Council (FSC) or the Sustainable Forestry Initiative (SFI). Forest products from this sale may not be delivered to the mill as "FSC and / or SFI certified". The lands within this sale belong to the National Forest system and are being managed by the State as part of a Good Neighbor Authority (GNA) agreement.



TIMBER SALE MAP

This information provided by authority of Part 5, 1994 PA 451, as amended.

Sale Number	Year
41-013-22	2022

Forest Management Unit Shingleton	County Schoolcraft	Mapped By Kyle Gould		Date 8/4/2022	Page of 1 2
Compartment Number 7912031	Township 44N,45N	Range 18W	Section(s) and Subdivision(s) 3 W1/2SW 4 SENW,SWNE,SW,S E 9 N1/2SE,SWSE 9 NENW,N1/2NE,SENE,E1/2SW 10 W1/2NW 16 NENW 32 NENW,NWNE,S1/2NE,N1/2SE 33 NW,SWNE,N1/2SW,SESW,W1/2SE		Scale: = 1 mile

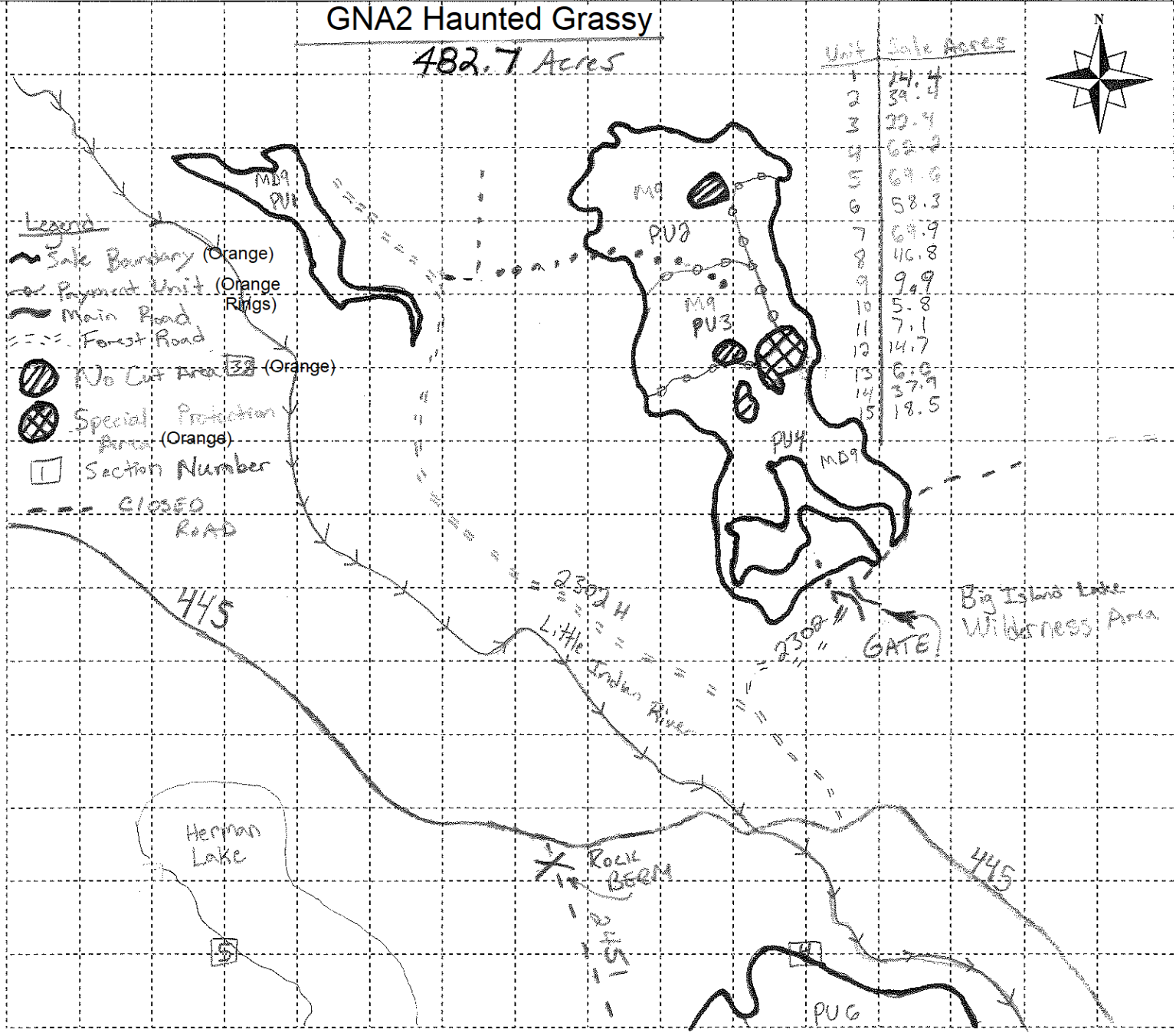
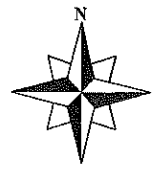
Cover Type			
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand
G = Grass	MD = Mixed Deciduous	N = Marsh	Z = Water
H = Hemlock			

Density	
0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

GNA2 Haunted Grassy

482.7 Acres

Unit	Sale Acres
1	74.4
2	39.4
3	22.4
4	62.2
5	64.0
6	58.3
7	60.9
8	46.8
9	9.9
10	5.8
11	7.1
12	14.7
13	6.0
14	37.9
15	18.5



- Legend**
- ~ Safe Boundary (Orange)
 - ~ Payment Unit (Orange Rings)
 - ~ Main Road
 - Forest Road
 - ⊗ No Cut Area (Orange)
 - ⊗ Special Protection Area (Orange)
 - Section Number
 - CLOSED ROAD



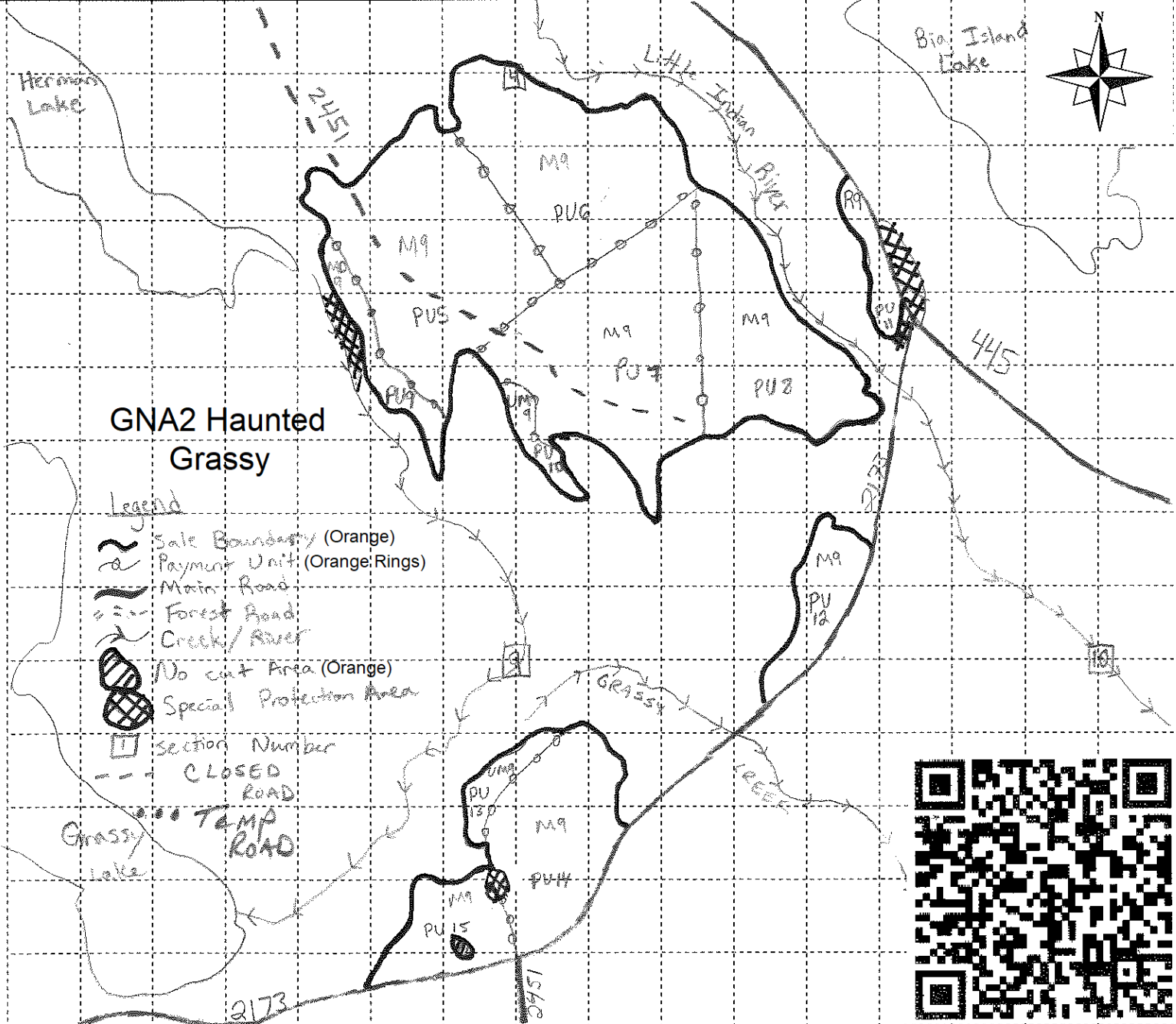
TIMBER SALE MAP

This information provided by authority of Part 5, 1994 PA 451, as amended.

Sale Number	Year
41-813-22	2022

Forest Management Unit Shingleton	County Schoolcraft	Mapped By Kyle Gould	Date 8/4/2022	Page 2	of 2
Compartiment Number 7912031	Township 44N,45N	Range 18W	Section(s) and Subdivision(s) 3 W1/2SW, 4 SENW, SWNE, SWSE, E 9 N1/2SE, SWSE 9 NENW, N1/2NE, SENE, E1/2SW, 10 W1/2NW, 16 NENW, 32 NENW, NWNE, S1/2NE, N1/2SE 33 NW, SWNE, N1/2SW, SESW, W1/2SE	Scale: = 1 mile	

Cover Type				Density	
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh	2 = Seedling Sapling Medium	7 = Saw Timber Poor
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine	3 = Seedling Sapling Well	8 = Saw Timber Medium
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked	4 = Pole Timber Poor	9 = Saw Timber Well
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand		
G = Grass	MD = Mixed Deciduous		Z = Water		
H = Hemlock	N = Marsh				



TIMBER SALE INFORMATION

GNA2 Flat Iron North (41-821-22)

T41N, R18W, SEC. 4; T41N, R18W, SEC. 5; T41N, R18W, SEC. 6; T41N, R18W, SEC. 8; T41N, R18W, SEC. 9; T42N, R18W, SEC. 31; T42N, R18W, SEC. 32; T42N, R18W, SEC. 33.

SALE NOTE: This is a Good Neighbor Authority timber sale on national forest land. This timber sale was set-up and is being advertised by the Michigan DNR for the US Forest Service. The contract will be awarded and administered by the MDNR.

It is the Purchaser's responsibility to obtain access across private land for any routes other than route shown on Timber Sale Map.

Within Payment Unit(s) 2 - 8 & 10 - 12, harvesting is limited to winter, frozen ground, or snow-covered conditions due to sensitive soils.

Within Payment Unit(s) 1, 8 & 9, cutting and skidding are not permitted during April 15 to July 15 due to bark slippage.

KK Road is a snowmobile trail which may be used to access sale. See Sale Spec 5.2.41 for restrictions.

The Forest Service is planning to replace bridge over Fishdam River on Forest Service Rd 2222; work is planned for summer 2023; if the work is delayed, all trucking will need to be west to Highway 13.

Additional habitat work is required. See Spec 5.2.4.4 for details.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions. Access may be through other public land.

A timber sale contract for this lump sum, sealed bid timber sale will be awarded to the responsible bidder offering the highest sealed bid price. All units of volume listed below were estimated using the Inventory Manager computer program and the new Michigan taper model. Bids must be at or above the following advertised price for each product and species:

<u>PRODUCTS & SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Paper Birch	23.2 MBF	\$ 117.00 / MBF
Red Maple	144.5 MBF	\$ 97.00 / MBF
Sugar Maple	14.6 MBF	\$ 290.00 / MBF
White Pine	0.1 MBF	\$ 74.00 / MBF
Pulpwood		
Balsam Fir	825 Cords	\$ 10.70 / Cord
Hemlock	46 Cords	\$ 6.75 / Cord
Mixed Aspen	2,152 Cords	\$ 24.05 / Cord
Mixed Hardwood	2,113 Cords	\$ 14.70 / Cord
Mixed Spruce	640 Cords	\$ 19.30 / Cord
N. White Cedar	9 Cords	\$ 4.70 / Cord
Paper Birch	482 Cords	\$ 16.85 / Cord
Red Pine	153 Cords	\$ 64.80 / Cord
White Pine	71 Cords	\$ 24.20 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 6.27 percent. There are an estimated 7,036 cords on this timber sale, plus or minus 442 cords at the 95% confidence level. The estimated units are final and not subject to adjustment. Prospective bidders are urged to examine this timber and to make their own estimates of quantity and quality.

BOND AND PAYMENT SCHEDULE:

1. A bond in the amount of \$7,254.00 to insure faithful performance of the conditions of the contract will be deposited by the successful bidder within 21 days of the sale award.
2. Cutting in any sale or unit without the required advance payment would be considered a trespass.
3. Total payment must be paid in advance or according to the following schedule:
 - (a) Ten percent (10%) of the sale value must be paid within 21 days of the sale award.
 - (b) The 10% down payment will be credited towards the first unit cut.

(c) Payment for each of the following units must be made before cutting begins in that unit:

PAYMENT UNIT NUMBER	PERCENT OF TOTAL SALE VALUE
01	5.5%
02	3.7%
03	9.4%
04	9.4%
05	6.4%
06	5.9%
07	7.6%
08	6.4%
09	5.2%
10	3.6%
11	18.5%
12	11.4%
13	7.0%

4. If no cutting takes place, the 10% down payment will not be refunded.

5. Operations on the contract issued will terminate on 06/30/2027.

SALE STATISTICS

Volumes were calculated in cubic feet using the Michigan taper model. Cubic foot volume includes all wood inside bark for the product indicated. For display purposes, cubic feet were converted to cords and MBF using a simple conversion factor, e.g. 79 cubic feet per cord and 185 cubic feet per MBF. The cubic foot volumes are precise; the cords and MBF volumes are not. Cubic foot volume cannot be directly converted to cords or boards with precision.

SALE VOLUMES

The total estimated sale volume may not equal the sum of the species/products due to the nature of statistical calculations associated with double sampling methodology.

VOLUME		STATISTICAL RANGE IN CORDS		
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
555,823	7,036	6.27%	6,594	7,477

VDU VOLUMES

A VDU is a Volume Determination Unit. Volumes and their associated statistics are calculated at the VDU level and summarized to the sale level. There is often a one to one relationship between a VDU and a Payment Unit, but not always, depending on the cruise design. Refer to the VDU TO PAYMENT UNIT table.

VDU	VOLUME			RANGE IN CORDS	
	TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
1	54,761	693	18.45%	565	821
2	29,163	369	27.93%	266	472
3	29,434	373	24.75%	280	465
4	25,194	319	35.50%	206	432
5	80,724	1,022	15.59%	863	1,181
12	75,502	956	15.57%	807	1,105
13	95,560	1,210	16.44%	1,011	1,409
14	45,040	570	17.25%	472	668
15	30,196	382	27.91%	276	489
16	12,626	160	44.13%	89	230
21	37,645	477	26.21%	352	601
22	39,979	506	20.96%	400	612
TOTAL:	555,823	7,036		5,586	8,486

VDU TO PAYMENT UNIT

When a VDU is associated with more than one Payment Unit (PU), the VDU volumes are assigned to the PU based on acres of the VDU within the PU.

VDU	VDU ACRES	PU	PU ACRES
1	24.1	4	24.1
2	26.4	1	26.4
3	21.3	9	21.3
4	11.6	10	11.6
5	46.8	2	13.2
		3	33.6
12	45.2	12	45.2
13	45.1	11	45.1
14	28.1	7	28.1
15	24.0	8	24.0
16	11.2	13	11.2
21	30.3	6	30.3
22	21.4	5	21.4
TOTAL:	335.5		335.5

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Maple	Sawtimber	13.8	MBF	26.4	\$8,013.90
	Sugar Maple		4.5	MBF		
	Balsam Fir	Pulpwood	14	Cords		
	Mixed Aspen		72	Cords		
	<i>Quaking Aspen</i>		72	<i>Cords</i>		
	Mixed Hardwood		219	Cords		
	<i>Misc. Species 4</i>		4	<i>Cords</i>		
	<i>Red Maple</i>		178	<i>Cords</i>		
	<i>Sugar Maple</i>		37	<i>Cords</i>		
	Paper Birch		16	Cords		
2	Red Maple	Sawtimber	2.7	MBF	13.2	\$5,333.30
	Balsam Fir	Pulpwood	76	Cords		
	Mixed Aspen		116	Cords		
	<i>B. T. Aspen</i>		26	<i>Cords</i>		
	<i>Balsam Poplar</i>		26	<i>Cords</i>		
	<i>Quaking Aspen</i>		64	<i>Cords</i>		
	Mixed Hardwood		53	Cords		
	<i>Black Cherry</i>		2	<i>Cords</i>		
	<i>Red Maple</i>		50	<i>Cords</i>		
	<i>Yellow Birch</i>		1	<i>Cords</i>		
	Mixed Spruce		20	Cords		
	<i>Black Spruce</i>		10	<i>Cords</i>		
	<i>White Spruce</i>		10	<i>Cords</i>		
	Paper Birch		18	Cords		
3	Red Maple	Sawtimber	6.8	MBF	33.6	\$13,637.60
	Balsam Fir	Pulpwood	195	Cords		
	Mixed Aspen		298	Cords		
	<i>B. T. Aspen</i>		67	<i>Cords</i>		
	<i>Balsam Poplar</i>		67	<i>Cords</i>		
	<i>Quaking Aspen</i>		164	<i>Cords</i>		
	Mixed Hardwood		135	Cords		
	<i>Black Cherry</i>		6	<i>Cords</i>		
	<i>Red Maple</i>		128	<i>Cords</i>		
	<i>Yellow Birch</i>		1	<i>Cords</i>		
	Mixed Spruce		50	Cords		
	<i>Black Spruce</i>		25	<i>Cords</i>		
	<i>White Spruce</i>		25	<i>Cords</i>		
	Paper Birch		46	Cords		
4	Red Maple	Sawtimber	4.7	MBF	24.1	\$13,591.55
	Balsam Fir	Pulpwood	64	Cords		
	Mixed Aspen		223	Cords		
	<i>B. T. Aspen</i>		7	<i>Cords</i>		
	<i>Balsam Poplar</i>		15	<i>Cords</i>		
	<i>Quaking Aspen</i>		201	<i>Cords</i>		
	Mixed Hardwood		65	Cords		
	<i>Red Maple</i>		65	<i>Cords</i>		
	Mixed Spruce		309	Cords		
	<i>Black Spruce</i>		294	<i>Cords</i>		
	<i>White Spruce</i>		15	<i>Cords</i>		
	Paper Birch		10	Cords		
5	Paper Birch	Sawtimber	9.4	MBF	21.4	\$9,321.60
	Balsam Fir	Pulpwood	82	Cords		
	Hemlock		3	Cords		
	Mixed Aspen		133	Cords		
	<i>B. T. Aspen</i>		34	<i>Cords</i>		
	<i>Balsam Poplar</i>		34	<i>Cords</i>		

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU), CON'T

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE				
5 con't	<i>Quaking Aspen</i>	<i>Pulpwood</i>	65	<i>Cords</i>						
	Mixed Hardwood		89	Cords						
	<i>Black Cherry</i>		3	<i>Cords</i>						
	<i>Red Maple</i>		86	<i>Cords</i>						
	Mixed Spruce		72	Cords						
	<i>Black Spruce</i>		23	<i>Cords</i>						
	<i>White Spruce</i>		49	<i>Cords</i>						
	N. White Cedar		9	Cords						
	Paper Birch		42	Cords						
	White Pine		28	Cords						
	6		Paper Birch	Sawtimber			1.1	MBF	30.3	\$8,627.35
Red Maple			17.2	MBF						
Balsam Fir		Pulpwood	70	Cords						
Mixed Aspen			86	Cords						
<i>B. T. Aspen</i>			3	<i>Cords</i>						
<i>Balsam Poplar</i>			9	<i>Cords</i>						
<i>Quaking Aspen</i>			74	<i>Cords</i>						
Mixed Hardwood			181	Cords						
<i>Black Cherry</i>			2	<i>Cords</i>						
<i>Red Maple</i>			173	<i>Cords</i>						
<i>Yellow Birch</i>			6	<i>Cords</i>						
Mixed Spruce			43	Cords						
<i>Black Spruce</i>			25	<i>Cords</i>						
<i>White Spruce</i>			18	<i>Cords</i>						
Paper Birch			31	Cords						
7			Red Maple	Sawtimber	29.0	MBF	28.1	\$11,055.50		
			Balsam Fir	Pulpwood	58	Cords				
	Hemlock		7		Cords					
	Mixed Aspen		125		Cords					
	<i>B. T. Aspen</i>	46	<i>Cords</i>							
	<i>Quaking Aspen</i>	79	<i>Cords</i>							
	Mixed Hardwood	232	Cords							
	<i>Red Maple</i>	232	<i>Cords</i>							
	Mixed Spruce	60	Cords							
	<i>Black Spruce</i>	60	<i>Cords</i>							
	8	Red Maple	Sawtimber		26.6	MBF			24.0	\$9,309.25
Sugar Maple			8.9		MBF					
Mixed Aspen		Pulpwood	5	Cords						
<i>Quaking Aspen</i>			5	<i>Cords</i>						
Mixed Hardwood			274	Cords						
<i>Beech</i>			17	<i>Cords</i>						
<i>Red Maple</i>			216	<i>Cords</i>						
<i>Sugar Maple</i>			41	<i>Cords</i>						
9	Red Maple		Sawtimber	24.9	MBF	21.3	\$7,482.90			
	Sugar Maple			1.2	MBF					
	Balsam Fir	Pulpwood	10	Cords						
	Mixed Aspen		7	Cords						
	<i>Quaking Aspen</i>		7	<i>Cords</i>						
	Mixed Hardwood		143	Cords						
	<i>Beech</i>		10	<i>Cords</i>						
	<i>Red Maple</i>		116	<i>Cords</i>						
	<i>Sugar Maple</i>		17	<i>Cords</i>						
	Paper Birch		139	Cords						
	10		Red Maple	Sawtimber	1.4			MBF	11.6	\$5,277.95
Balsam Fir			Pulpwood	59	Cords					
Mixed Aspen				87	Cords					

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU), CON'T

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
10 con't	<i>B. T. Aspen</i>	<i>Pulpwood</i>	14	<i>Cords</i>		
	<i>Quaking Aspen</i>		73	<i>Cords</i>		
	Mixed Hardwood		96	<i>Cords</i>		
	<i>Red Maple</i>		96	<i>Cords</i>		
	Mixed Spruce		26	<i>Cords</i>		
	<i>Black Spruce</i>		26	<i>Cords</i>		
	Paper Birch		30	<i>Cords</i>		
11	Red Maple	Sawtimber	2.8	MBF	45.1	\$26,732.80
	Balsam Fir	Pulpwood	131	<i>Cords</i>		
	Mixed Aspen		883	<i>Cords</i>		
	<i>B. T. Aspen</i>		523	<i>Cords</i>		
	<i>Quaking Aspen</i>		360	<i>Cords</i>		
	Mixed Hardwood		169	<i>Cords</i>		
	<i>Beech</i>		2	<i>Cords</i>		
	<i>Red Maple</i>		157	<i>Cords</i>		
	<i>Sugar Maple</i>		10	<i>Cords</i>		
	Mixed Spruce		24	<i>Cords</i>		
	<i>Black Spruce</i>		14	<i>Cords</i>		
	<i>White Spruce</i>		10	<i>Cords</i>		
	Paper Birch		29	<i>Cords</i>		
	White Pine		16	<i>Cords</i>		
12	Paper Birch	Sawtimber	12.7	MBF	45.2	\$16,585.25
	Red Maple	Pulpwood	14.6	MBF		
	Balsam Fir		66	<i>Cords</i>		
	Hemlock		36	<i>Cords</i>		
	Mixed Aspen		98	<i>Cords</i>		
	<i>B. T. Aspen</i>		47	<i>Cords</i>		
	<i>Quaking Aspen</i>		51	<i>Cords</i>		
	Mixed Hardwood		454	<i>Cords</i>		
	<i>Beech</i>		38	<i>Cords</i>		
	<i>Red Maple</i>		416	<i>Cords</i>		
	Mixed Spruce		36	<i>Cords</i>		
	<i>Black Spruce</i>		36	<i>Cords</i>		
	Paper Birch		121	<i>Cords</i>		
	Red Pine		6	<i>Cords</i>		
	White Pine		24	<i>Cords</i>		
13	White Pine	Sawtimber	0.1	MBF	11.2	\$10,106.65
	Mixed Aspen	Pulpwood	19	<i>Cords</i>		
	<i>B. T. Aspen</i>		19	<i>Cords</i>		
	Mixed Hardwood		3	<i>Cords</i>		
	<i>Black Cherry</i>		3	<i>Cords</i>		
	Red Pine		147	<i>Cords</i>		
White Pine	3	<i>Cords</i>				
TOTAL:			182.4	MBF		
TOTAL:			6,491	Cords		

Sale Specific Conditions & Requirements

Sale Name: GNA2 Flat Iron North

Sale Number: 41-821-22 Seq#: 1

1 - Sale Area

1.2 - Boundaries

1.2.1 - Painted boundaries (9/19)

Exterior sale boundary lines against forest service land are marked with orange paint. Interior Payment Unit boundaries are marked with orange paint (rings). Retention patches are marked with orange paint; no harvesting activities may occur within these areas. The painted boundary line trees are not Included Timber and are to be protected.

2 - Timber Specifications

2.1 - Included Timber

2.1.1 - Clearcut unit(s) with unmerchantable trees (6/14)

Within Payment Unit(s) 3, 4, 5, 7 and 11, cut all maple and aspen trees that are two (2) inches or more at DBH. In addition, cut all other trees which meet minimum piece specifications in 2.1 Utilization, except do not cut trees marked in green paint. Also, do not cut cedar and hemlock within Payment Unit 4, and do not cut cedar, white pine, paper birch, and yellow birch within Payment Unit 7.

2.1.3 - Cut tree marked unit(s) (12/08)

Within Payment Unit(s) 1, 8, 9 and 13, all trees are designated for cutting when marked with blue paint above and below stump height, regardless of merchantability.

2.1.7 - Leave tree marked unit(s) (6/14)

Within Payment Unit(s) 2, 6, 10 and 12, all trees which meet minimum piece specifications in 2.2 Utilization are designated for cutting, except do not cut trees marked with green paint above and below stump height. In addition, do not cut cedar and hemlock within Payment Units 2 and 10, and do not cut cedar within Payment Unit 6.

2.1.11 - Description of timber note (2/04)

Note that Misc. Species 4 in the Mixed Hardwood pulp group is green ash.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within the sale area shall not exceed 12 inches for trees greater than 10 inches DBH and 10 inches for trees smaller than 10 inches DBH.

2.2.12 - GNA, cut and remove Included Timber (3/18)

Unless provided otherwise herein, the DNR agrees to sell and permit Purchaser to cut and remove Included Timber and Purchaser agrees to purchase, cut, and remove Included Timber.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) over \$20,000 may be divided at the request of the Purchaser and upon approval of the Unit Manager. Dividing Payment Units is a contract modification which requires a Timber Sale Contract Amendment.

3.4 - Damaged Timber

3.4.3 - Special Protection Areas (8/11)

The Purchaser shall protect special protection areas from damage by the Purchaser's operations. Special protection areas are marked with orange paint and designated on the Timber Sale Map. The Purchaser shall not cut live or dead trees within special protection areas. Trees adjacent to these areas cannot be felled inside of the orange boundaries. If the Purchaser's operations have cut or damaged special protection areas through carelessness, the Purchaser shall pay \$10,000 as fixed, agreed and liquidated damages for each acre or part thereof cut or damaged. Such payment does not constitute ownership of the undesignated timber.

4 - Transportation

4.1 - Construction

4.1.3 - Slash and earthen piles (8/04)

Piles or windrows of earth along roads and landings that have been widened or constructed shall be leveled. Slash from road maintenance or construction, including stumps, shall be dispersed throughout the sale.

4.1.4 - Timber removed for construction (12/09)

Trees cut or damaged in the process of pre-approved road, landing or skid trail construction will be decked in an area separate from other Designated Timber and not removed until measured by the sale administrator. Payment will be made at the specified Purchase Unit Price.

4.1.6 - Road construction (1/09)

Construction of new roads or improvements of existing roads shall be done in such a way as to minimize the environmental and visual impacts. Merchantable trees shall be cut and utilized unless otherwise directed. Non-merchantable trees shall be severed and laid flat on the ground. Slash shall be scattered, and not left in windrows and kept a minimum of 10 feet back from the road edge. Stumps shall be set upright, not left on edge, and be moved at least 10 feet away from the road edge. Disturbed soil shall be feathered into the woods and not left in berms or windrows. Access to Payment Unit 1 on 2408C will need to be reconstructed to avoid the Special Protection Area. Details will be laid out and agreed to at the Pre-Sale meeting. Road Construction/Improvements to roads 2411B and 2411C will need to be pre-approved.

4.1.7 - Road closure (10/11)

All new roads built into the sale must be blocked to vehicle traffic upon completion of the sale. Overgrown roads that are reopened shall be considered new roads. Forest Service Roads 2411B and 2411C will need to be closed after use. In general, this will require constructing a four (4') foot high berm of stumps and logs covered with earth. Stumps and brush must be placed along the remainder of the trail. These roads must be rendered impassable to cars and trucks. All stumps from road building and landing construction must be reserved to block any newly constructed roads upon completion of the sale. These stumps must be scattered along the road system to prohibit vehicular movement. Temporary berms may be required if no sale activity occurs for 30 or more consecutive days. Contact the sale administrator for specific details of design and placement.

4.2 - Maintenance

4.2.4 - Grading (10/16)

For completion of the sale, forest service roads must be graded. In general, this will require a road grader or bull dozer to shape up the roads after forest products have been hauled off site. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. The grading equipment to be used must be approved by the Unit Manager or his/her representative.

4.4 - Access

4.4.2 - Alternate route on private property (2/04)

It is the Purchaser's responsibility to obtain access across private land for any routes other than the route shown on the Timber Sale Map.

5 - Operations

5.1 - Notification

5.1.1 - Pre-sale conference (10/16)

A pre-sale conference on site between the Purchaser and sale administrator is required prior to beginning any operations to determine landing and road locations. The Unit Manager or his/her representative must be contacted at least 10 days in advance to schedule the conference.

5.1.4 - Post-sale conference (10/16)

A post-sale conference on site between the Purchaser and sale administrator is required 5 days prior to the completion of active logging operations to determine clean-up and repair of landings, road edges, and the fulfillment of other contract specifications.

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.2 - Slash Removal

5.2.1.2.1 - Slash removal, right-of-way (9/16)

All slash must be removed at least 10 feet from the cleared right-of-way of forest roads. Within 25 feet of forest service roads, slash must be reduced to 1 foot and no higher than 4 feet anywhere else. Slash cannot be windrowed.

5.2.2 - Hazard Trees/Snags

5.2.2.1 - Den trees (10/16)

Obvious hollow and/or den trees shall be protected and left standing unless they are a safety hazard.

5.2.3 - Operating Restrictions

5.2.3.1 - Operating restrictions (9/11)

Within Payment Unit(s) 2 - 8 and 10 - 12, unless changed by written agreement, cutting, skidding, and hauling are limited to winter, frozen ground, or snow covered conditions only. These conditions are described as either frost which is six (6) inches thick or compacted snow with a depth of twelve (12) inches. This restriction is due to sensitive soils.

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 1, 8, and 9, unless changed by written agreement, cutting and skidding are not permitted during the period of April 15 to July 15. This restriction is because of bark slippage.

5.2.3.6 - Bark beetle restriction (12/08)

In the event drought creates a high risk of pine bark beetle infestation, pine is not to be cut during the period March 1 through July 1, unless all portions of trees greater than two inches in diameter are removed from the sale area, reduced to chips, or treated to the satisfaction of the Unit Manager or his/her representative, within fifteen days of being severed from the stump. Pine log decks, pulpwood piles and treetops that are piled for chipping in the fall or winter within a 1/4 mile of susceptible sites must be removed before March 15. Residual slash must not be placed in piles or rows and must be spread over the site for quick drying. The Department of Natural Resources will exercise this specification if the risk of damage warrants.

5.2.4 - Dead and Down Creation

5.2.4.4 - Dead and down creation, grouse (6/18)

To encourage grouse and other wildlife, in Payment Unit(s) 5 and 7, leave one, 10" diameter or larger whole tree on the ground per acre, preferably a hardwood species such as aspen or maple for drumming logs. The trees that are felled for drumming logs must be evenly scattered throughout the unit(s) and should be cut as low to the ground as possible.

5.2.32 - Decking/landing restoration (9/13)

All decking and landing areas must have the surface area restored to a condition equal to or better than before. This is to ensure the proper regeneration of the stand. Wood debris, chips and "cookies" from trimmings must be removed or scattered away from landing and loading areas and may not be windrowed on the edge.

5.2.38 - No decking against live trees (2/04)

Cut products may not be decked against unmarked or designated leave trees.

5.2.41 - Snowmobile trail protection (9/11)

KK Road is a snowmobile trail which may be used to access the sale. Do not cut or damage posts with orange trail markers or traffic control signs. If the trail is used, it must be maintained and restored to a condition equal to or better than before the sale. If the trail is used for hauling, it must be graded to the satisfaction of the Unit Manager or his/her representative prior to December 1st. If the trail road is to be used for hauling during the snowmobile season, then a snow covered base must be left on the trail. Maintain a 20 foot wide slash, debris, and rut free zone daily using the snowmobile trail as the centerline. No decking of forest products will be permitted along the snowmobile trail.

5.4 - Soil Protection

5.4.1 - Rutting restriction, general (7/16)

Operations are to cease immediately if equipment and weather conditions result in rutting of roads and/or skid trails which is 12 inches or greater in depth and 50 feet in length. The Unit Manager or his/her representative may restrict hauling and/or skidding if ruts exceed the specified depth. With the Unit Manager or his/her representative's approval, the Purchaser may

return to the area when the risk of rutting has decreased.

5.4.4 - Slope protection (9/19)

Skid trails and roads on slopes shall be water barred with slash and stumps as soon as use is complete to prevent erosion.

5.4.7 - Rutting restriction, Riparian Management Zone (RMZ) (1/09)

Within Riparian Management Zones (RMZ), operations are to cease immediately if equipment and weather conditions result in rutting of roads and skid trails which is 6 inches or greater in depth and 25 feet in length. The Unit Manager or his/her representative may restrict hauling and/or skidding if ruts exceed the specified depth. With the Unit Manager or his/her representative's approval, the Purchaser may return to the area when the risk of rutting has decreased.

5.6 - Debris and Waste Material

5.6.2 - GNA, equipment cleaning (1/16)

(a) Areas, known by the DNR prior to timber sale advertisement, that are infested with invasive species of concern are shown on the Timber Sale Map. A current list of invasive species of concern and a map showing the extent of known infestations is available from the DNR. For purposes of this provision, "Off-Road Equipment" includes all logging and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars, and similar vehicles.

(b) Purchaser shall adhere to the following requirements with regard to cleaning "Off-Road Equipment":

(i) Prior to moving Off-Road Equipment onto the Sale Area, Purchaser shall identify the location of the equipment's most recent operation. Purchaser shall not move any Off-Road Equipment that last operated in an area infested with one or more invasive species of concern onto Sale Area without having cleaned such equipment of seeds, soil, vegetative matter, and other debris that could contain or hold seeds, and having notified the DNR, as provided in (iii). If the location of prior operation cannot be identified, then Purchaser shall assume that the location is infested with invasive species of concern.

(ii) Prior to moving Off-Road Equipment from a cutting unit that is shown on the Timber Sale Map to be infested with invasive species of concern to, or through any other area that is shown as being free of invasive species of concern, or infested with a different invasive species, Purchaser shall clean such equipment of seeds, soil, vegetative matter, and other debris that could contain or hold seeds, and shall notify the DNR, as provided in (iii).

(iii) Prior to moving any Off-Road Equipment subject to the cleaning requirements set forth above, Purchaser shall advise DNR of its cleaning measures and make the equipment available for inspection. DNR shall have 2 days, excluding weekends and State holidays, to inspect equipment after it has been made available. After satisfactory inspection or after such 2 day period, Purchaser may move the equipment as planned. Equipment shall be considered clean when a visual inspection does not disclose seeds, soil, vegetative matter, and other debris that could contain or hold seeds. Purchaser shall not be required to disassemble equipment unless so directed by the DNR after inspection.

(iv) If Purchaser desires to clean Off-Road Equipment on National Forest land, such as at the end of a project or prior to moving to, or through an area that is free of invasive species of concern, Purchaser shall obtain prior approval from the Unit Manager or his/her representative as to the location for such cleaning and measures, if any, for controlling impacts.

(v) Unit Manager or his/her representative may order delay, interruption, or modification of this Contract pursuant to Condition & Requirement 7.3 or 7.3.4.

(c) Nothing contained in this Condition & Requirement shall be interpreted as creating any warranty on the part of the DNR that all locations of invasive species of concern have been described herein, elsewhere in this Contract, or designated on the ground. Following sale advertisement, additional locations may be described or designated, and other species may be added to the list of invasive species of concern. In such event, the Unit Manager or his/her representative may order delay, interruption, or modification of this Contract pursuant to Condition & Requirement 7.3 or 7.3.4.

(d) The parties shall promptly communicate with one another with respect to description or designation of additional locations; discovery of locations of new species or new infestation; and, addition of species to the list of invasive species of concern.

5.8 - Protection of Endangered Species

5.8.3 - Red shoulder hawk or goshawk (2/16)

In the event that an active red shoulder hawk or goshawk nest is found, the contract may be amended to protect the nest site until the nest is determined to be inactive. The value of the trees in this excluded area will be refunded or credited to the Purchaser. The nest will be buffered with a five-chain radius (eight acre) protection area, centered on the nest tree, in which there will be no cutting or new roads constructed. Avoid human disturbance, including loading and skidding, in the protection area.

An additional zone of five chains (ten chains centered on the active nest tree) will be established in which there is no management activity from April 1 to July 30. Limit biomass harvesting and chipping operations within this ten-chain zone, retain the maximum one-third of residues per the Woody Biomass Harvesting Guidelines (Michigan DNR 2010). Nests determined to be inactive will be protected with a one-chain no-harvest buffer.

6 - Safety and Fire Prevention

6.2 - Signing

6.2.1 - Road posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on Forest Service Road 2222 and 2410 prior to beginning operations. The road must be posted at appropriate distances from the sale area to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.

6.2.2 - Snowmobile trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on KK Road prior to beginning operations during the snowmobile season (approximately December 1 to March 31). The trail must be posted at appropriate distances from the sale area to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.

7 - Other Conditions

SKIP

7.1.1 - GNA, title (7/16)

General Condition & Requirement 7.1 is inapplicable. The following applies to this contract.

All right, title, and interest in and to any Included Timber shall remain in USDA Forest Service with the State of Michigan acting on behalf of the USDA Forest Service under this GNA contract, until it has been Measured, removed from Sale Area or other authorized cutting area, and paid for, at which time title shall vest in Purchaser. Title to any Included Timber that has been Measured and paid for, but not removed from Sale Area or other authorized cutting area by Purchaser on or prior to Termination Date, shall remain in USDA Forest Service.

7.3 - Contract Modifications

7.3.4 - GNA, contract suspension and modification (5/16)

(a) The Unit Manager may, by written order, delay or interrupt authorized operations under this contract or, notwithstanding Condition & Requirement 7.3, modify this contract, in whole or in part:

(i) To prevent environmental degradation or resource damage, including, but not limited to, harm to habitat, plants, animals, cultural resources, or cave resources;

(ii) To ensure consistency with land and resource management plans or other documents prepared pursuant to the National Environmental Policy Act of 1969, 42 USC 4321-4347;

(iii) To conduct environmental analysis, including, but not limited to, engaging in consultation pursuant to the Endangered Species Act of 1973, 16 USC 1531, et seq.; or

(iv) Upon agreement of the Forest Service, due to administrative appeal or litigation, regardless of whether the Unit Manager's order is required by a court order or this contract is named in such a proceeding.

(b) In the event of an order delaying or interrupting Purchaser's Operations under this Condition & Requirement, Purchaser's remedy shall be:

(i) a no cost contract extension,

(ii) reimbursement for Out-of-Pocket Expenses,

however, the foregoing remedies shall be available only to the extent that the Unit Manager's order was the sole and exclusive cause of the delay or interruption of Purchaser's operations.

(c) Remedies awarded to the Purchaser shall not be duplicative, and the Unit Manager shall have the right to structure remedies provided herein to avoid duplicative compensation.

(d) Purchaser agrees that this Condition & Requirement, and the remedies provided herein shall apply regardless of any finding by any court that the DNR failed to comply with any statute, regulation and/or policy in connection with awarding, advertising, or authorizing this sale, or a similar sale.

7.5 - Loss

7.5.2 - GNA, liability for loss (7/16)

If Included Timber is destroyed or damaged by an unexpected event that changes the nature of Included Timber, such as wind, flood, insects, disease, or similar cause, the Purchaser shall bear the timber value loss resulting from such destruction or damage.

Deterioration or loss of timber value due to delay or interruption under 7.3.4 - GNA, contract suspension and modification, shall be borne by the party holding title. In this event, Included Timber to which USDA Forest Service holds title, Purchaser of the State GNA contract will not be obligated to remove and pay for such timber. This Subsection shall not be construed to relieve either party of liability for negligence.

7.10 - Certified Timber

7.10.1 - Non-certified timber (2/16)

The area encompassed by this timber sale is not certified to the standards of the Forest Stewardship Council (FSC) or the Sustainable Forestry Initiative (SFI). Forest products from this sale may not be delivered to the mill as "FSC and / or SFI certified". The lands within this sale belong to the National Forest system and are being managed by the State as part of a Good Neighbor Authority (GNA) agreement.



TIMBER SALE MAP

This information provided by authority of Part 5, 1994 PA 451, as amended.

Sale Number	Year
41-821-22	2022

Forest Management Unit Shingleton	County Delta	Mapped By Gould	Date 10/6/22	Page 1	of 2
Compartment Number 7912-089,090,096,097	Township 41N, 42N	Range 18W	Section(s) and Subdivision(s) 4 N1/2NW, N1/2NE, SWNE, NESW 4 S1/2SW, W1/2SE 5 N1/2NW, SWNW, N1/2SW, SWSW 6	Scale: 4 in = 1 mile	

Cover Type

A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand
G = Grass	MD = Mixed Deciduous	Z = Water	
H = Hemlock	N = Marsh		

Density

0 = Non Stocked	5 = Pole Timber Medium
1 = Seedling Sapling Poor	6 = Pole Timber Well
2 = Seedling Sapling Medium	7 = Saw Timber Poor
3 = Seedling Sapling Well	8 = Saw Timber Medium
4 = Pole Timber Poor	9 = Saw Timber Well

GNA2 FLAT IRON NORTH

335.5 Acres





TIMBER SALE MAP

This information provided by authority of Part 5, 1994 PA 451, as amended.

Sale Number

41-821-22

Year

2022

Forest Management Unit

Shingleton

County

Delta

Mapped By

Gould

Date

10/6/22

Page of

2 | 2

Compartment Number

7912-089,090,096,097

Township

41N, 42N

Range

18W

Section(s) and Subdivision(s) 4

N1/2NW,N1/2NE,SWNE,NESW 4 S1/2SW,W1/2SE 5
N1/2NW,SWNW,N1/2SW,SWSW 6

Scale: 4 in = 1 mile

Cover Type

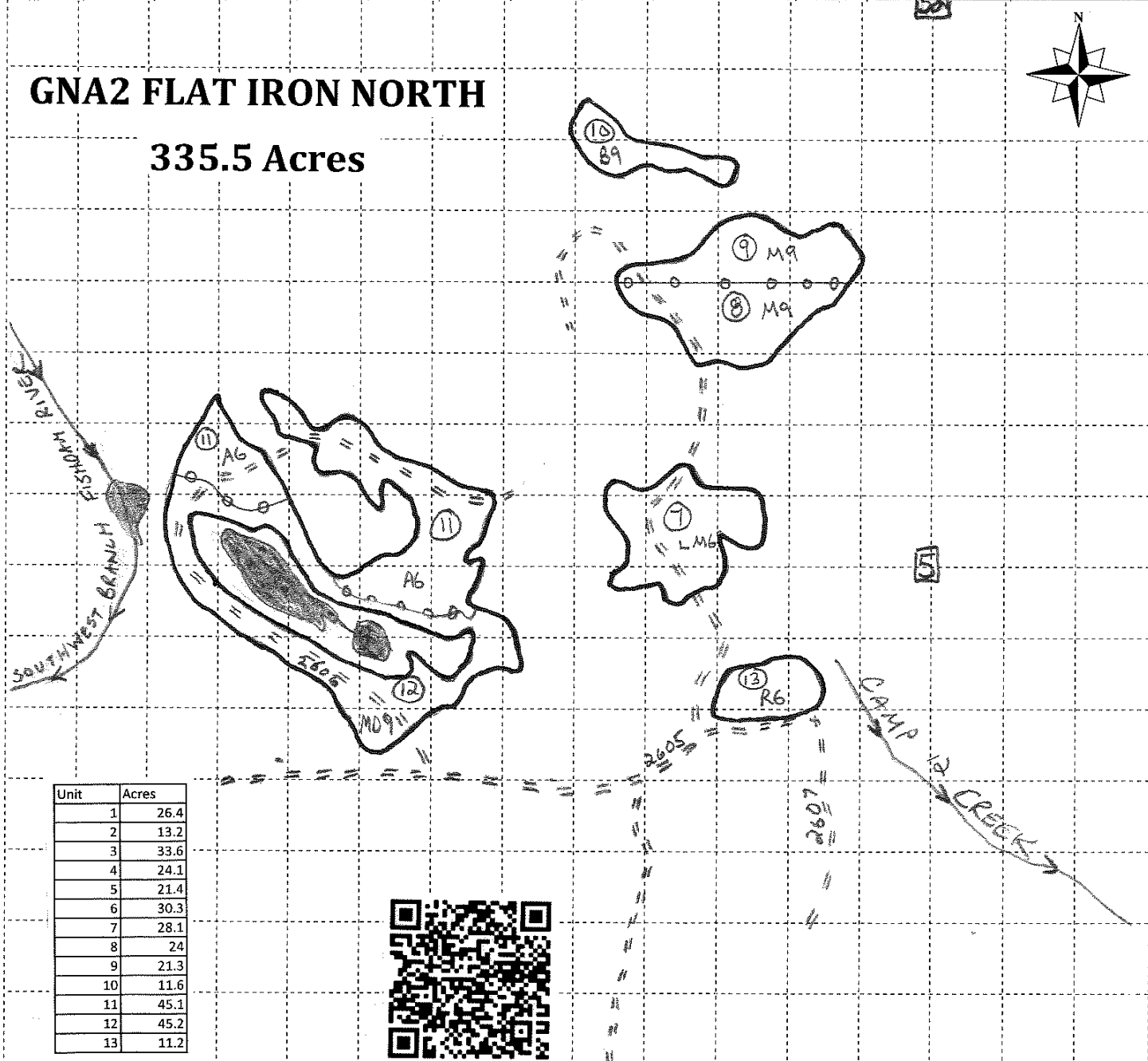
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush
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4 = Pole Timber Poor	9 = Saw Timber Well

GNA2 FLAT IRON NORTH

335.5 Acres



Unit	Acres
1	26.4
2	13.2
3	33.6
4	24.1
5	21.4
6	30.3
7	28.1
8	24
9	21.3
10	11.6
11	45.1
12	45.2
13	11.2

TIMBER SALE INFORMATION

GNA2 Flat Iron South (41-822-22)

T41N, R18W, SEC. 5; T41N, R18W, SEC. 6; T41N, R18W, SEC. 7; T41N, R18W, SEC. 8; T41N, R19W, SEC. 1; T41N, R19W, SEC. 12.

SALE NOTE: This is a Good Neighbor Authority timber sale on national forest land. This timber sale was set-up and is being advertised by the Michigan DNR for the US Forest Service. The contract will be awarded and administered by the MDNR.

Within Payment Unit(s) 1 and 2, cutting, skidding, and hauling are limited to frozen conditions (generally December 1 to April 15) because of sensitive soils.

Within Payment Unit(s) 10, 12 & 13, cutting & skidding are not permitted during the period of April 15 to July 15 because of bark slippage.

KK Road is a snowmobile trail and is shown on Timber Sale Map. See Sale Spec 5.2.41 for restrictions.

The Forest Service is planning to replace bridge over Fishdam River on Forest Service Rd 2222; work is planned for summer 2023; if the work is delayed, all trucking will need to be west to Highway 13.

Additional Habitat Work is required. See Sale Spec 5.2.4.4 and 5.2.4.6 for details.

A recreation site such as a trail, pathway, or campground is within the sale area or the vicinity. Certain restrictions/specifications may be applicable including time restrictions. Access may be through other public land.

A timber sale contract for this lump sum, sealed bid timber sale will be awarded to the responsible bidder offering the highest sealed bid price. All units of volume listed below were estimated using the Inventory Manager computer program and the new Michigan taper model. Bids must be at or above the following advertised price for each product and species:

<u>PRODUCTS & SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Beech	7.3 MBF	\$ 30.00 / MBF
Black Cherry	1.2 MBF	\$ 109.00 / MBF
Red Maple	100.0 MBF	\$ 97.00 / MBF
Sugar Maple	11.4 MBF	\$ 290.00 / MBF
Pulpwood		
Balsam Fir	388 Cords	\$ 10.70 / Cord
Jack Pine	8 Cords	\$ 27.65 / Cord
Mixed Aspen	1,976 Cords	\$ 24.05 / Cord
Mixed Hardwood	2,095 Cords	\$ 14.70 / Cord
Mixed Spruce	49 Cords	\$ 19.30 / Cord
Paper Birch	11 Cords	\$ 16.85 / Cord
Red Pine	5,800 Cords	\$ 64.80 / Cord
White Pine	32 Cords	\$ 24.20 / Cord

* The total volume is statistically estimated within plus (+) or minus (-) 6.19 percent. There are an estimated 10,259 cords on this timber sale, plus or minus 635 cords at the 95% confidence level. The estimated units are final and not subject to adjustment. Prospective bidders are urged to examine this timber and to make their own estimates of quantity and quality.

BOND AND PAYMENT SCHEDULE:

1. A bond in the amount of \$23,690.00 to insure faithful performance of the conditions of the contract will be deposited by the successful bidder within 21 days of the sale award.
2. Cutting in any sale or unit without the required advance payment would be considered a trespass.
3. Total payment must be paid in advance or according to the following schedule:
 - (a) Ten percent (10%) of the sale value must be paid within 21 days of the sale award.
 - (b) The 10% down payment will be credited towards the first unit cut.

(c) Payment for each of the following units must be made before cutting begins in that unit:

PAYMENT UNIT NUMBER	PERCENT OF TOTAL SALE VALUE
01	8.9%
02	0.1%
03	3.3%
04	8.8%
05	0.1%
06	3.7%
07	0.6%
08	11.7%
09	15.0%
10	1.4%
11	0.7%
12	1.5%
13	2.0%
14	2.9%
15	4.2%
16	10.4%
17	8.0%
18	3.3%
19	11.2%
20	2.2%

4. If no cutting takes place, the 10% down payment will not be refunded.

5. Operations on the contract issued will terminate on 12/31/2025.

SALE STATISTICS

Volumes were calculated in cubic feet using the Michigan taper model. Cubic foot volume includes all wood inside bark for the product indicated. For display purposes, cubic feet were converted to cords and MBF using a simple conversion factor, e.g. 79 cubic feet per cord and 185 cubic feet per MBF. The cubic foot volumes are precise; the cords and MBF volumes are not. Cubic foot volume cannot be directly converted to cords or boards with precision.

SALE VOLUMES

The total estimated sale volume may not equal the sum of the species/products due to the nature of statistical calculations associated with double sampling methodology.

VOLUME		STATISTICAL RANGE IN CORDS		
TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
810,454	10,259	6.19%	9,624	10,894

VDU VOLUMES

A VDU is a Volume Determination Unit. Volumes and their associated statistics are calculated at the VDU level and summarized to the sale level. There is often a one to one relationship between a VDU and a Payment Unit, but not always, depending on the cruise design. Refer to the VDU TO PAYMENT UNIT table.

VDU	VOLUME			RANGE IN CORDS	
	TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
6	2,235	28	146.15%	13	70
7	10,203	129	53.06%	61	198
8	249,649	3,160	8.13%	2,903	3,417
9	149,223	1,889	15.73%	1,592	2,186
10	2,273	29	951.34%	245	303
11	21,495	272	29.70%	191	353
16	207,466	2,626	9.71%	2,371	2,881
17	56,972	721	22.51%	559	884
18	78,139	989	17.39%	817	1,161
19	16,031	203	26.41%	149	257
20	16,767	212	49.21%	108	317
TOTAL:	810,454	10,259		8,493	12,025

VDU TO PAYMENT UNIT

When a VDU is associated with more than one Payment Unit (PU), the VDU volumes are assigned to the PU based on acres of the VDU within the PU.

VDU	VDU ACRES	PU	PU ACRES
6	1.7	5	1.7
7	10.3	7	10.3
8	135.3	3	10.4
		4	28.0
		6	11.8
		8	37.4
		9	47.7
9	50.7	1	50.7
10	1.8	2	1.8
11	13.4	20	13.4
16	111.1	15	12.5
		16	31.1
		17	23.9
		18	9.9
		19	33.7
17	27.2	14	27.2
18	72.7	12	31.1
		13	41.6
19	13.2	10	13.2
20	7.0	11	7.0
TOTAL:	444.4		444.4

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU)

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Maple	Sawtimber	2.7	MBF	50.7	\$42,138.65
	Balsam Fir	Pulpwood	222	Cords		
	Mixed Aspen		1,519	Cords		
	<i>B. T. Aspen</i>		102	Cords		
	<i>Balsam Poplar</i>		53	Cords		
	<i>Quaking Aspen</i>		1,364	Cords		
	Mixed Hardwood		202	Cords		
	<i>Black Cherry</i>		15	Cords		
	<i>Red Maple</i>		187	Cords		
2	Balsam Fir	Pulpwood	12	Cords	1.8	\$378.30
	Mixed Hardwood		17	Cords		
	<i>Red Maple</i>		17	Cords		
3	Red Maple	Sawtimber	1.5	MBF	10.4	\$15,465.55
	Sugar Maple		0.5	MBF		
	Balsam Fir	Pulpwood	1	Cords		
	Jack Pine		1	Cords		
	Mixed Aspen		3	Cords		
	<i>B. T. Aspen</i>		1	Cords		
	<i>Quaking Aspen</i>		2	Cords		
	Mixed Hardwood		23	Cords		
	<i>Beech</i>		1	Cords		
	<i>Red Maple</i>		21	Cords		
	<i>Sugar Maple</i>		1	Cords		
	Paper Birch		1	Cords		
	Red Pine		227	Cords		
	4	Red Maple	Sawtimber	3.9		
Sugar Maple			1.3	MBF		
Balsam Fir		Pulpwood	4	Cords		
Jack Pine			2	Cords		
Mixed Aspen			7	Cords		
<i>B. T. Aspen</i>			2	Cords		
<i>Quaking Aspen</i>			5	Cords		
Mixed Hardwood			63	Cords		
<i>Beech</i>			2	Cords		
<i>Red Maple</i>			58	Cords		
<i>Sugar Maple</i>			3	Cords		
Paper Birch			2	Cords		
Red Pine			612	Cords		
5		Red Maple	Sawtimber	1.4	MBF	1.7
	Sugar Maple		0.7	MBF		
	Mixed Aspen	Pulpwood	8	Cords		
	<i>B. T. Aspen</i>		8	Cords		
	Mixed Hardwood		12	Cords		
	<i>American Elm</i>		2	Cords		
	<i>Red Maple</i>		4	Cords		
	<i>Sugar Maple</i>		6	Cords		
6	Red Maple	Sawtimber	1.7	MBF	11.8	\$17,537.85
	Sugar Maple		0.5	MBF		
	Balsam Fir	Pulpwood	1	Cords		
	Jack Pine		1	Cords		
	Mixed Aspen		3	Cords		
	<i>B. T. Aspen</i>		1	Cords		
	<i>Quaking Aspen</i>		2	Cords		
	Mixed Hardwood		26	Cords		
	<i>Beech</i>		1	Cords		
	<i>Red Maple</i>		24	Cords		

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU), CON'T

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
6 con't	<i>Sugar Maple</i> Paper Birch Red Pine	<i>Pulpwood</i>	1 1 258	<i>Cords</i> Cords Cords		
7	Balsam Fir Mixed Aspen <i>B. T. Aspen</i> <i>Quaking Aspen</i> Mixed Hardwood <i>Red Maple</i> Mixed Spruce <i>Black Spruce</i> <i>White Spruce</i> Red Pine	Pulpwood	20 61 6 55 2 2 43 3 40 4	Cords Cords <i>Cords</i> <i>Cords</i> Cords <i>Cords</i> Cords <i>Cords</i> <i>Cords</i> Cords	10.3	\$2,799.55
8	Red Maple Sugar Maple Balsam Fir Jack Pine Mixed Aspen <i>B. T. Aspen</i> <i>Quaking Aspen</i> Mixed Hardwood <i>Beech</i> <i>Red Maple</i> <i>Sugar Maple</i> Paper Birch Red Pine	Sawtimber Pulpwood	5.3 1.7 5 2 10 3 7 84 3 77 4 3 818	MBF MBF Cords Cords Cords <i>Cords</i> <i>Cords</i> Cords <i>Cords</i> <i>Cords</i> <i>Cords</i> Cords Cords	37.4	\$55,648.15
9	Red Maple Sugar Maple Balsam Fir Jack Pine Mixed Aspen <i>B. T. Aspen</i> <i>Quaking Aspen</i> Mixed Hardwood <i>Beech</i> <i>Red Maple</i> <i>Sugar Maple</i> Paper Birch Red Pine	Sawtimber Pulpwood	6.7 2.2 6 2 12 4 8 108 4 98 6 3 1,042	MBF MBF Cords Cords Cords <i>Cords</i> <i>Cords</i> Cords <i>Cords</i> <i>Cords</i> <i>Cords</i> Cords Cords	47.7	\$70,855.75
10	Beech Red Maple Sugar Maple Balsam Fir Mixed Hardwood <i>American Elm</i> <i>Beech</i> <i>Red Maple</i> <i>Sugar Maple</i> <i>Yellow Birch</i> Red Pine	Sawtimber Pulpwood	0.7 21.3 0.8 2 128 4 4 109 8 3 39	MBF MBF MBF Cords Cords <i>Cords</i> <i>Cords</i> <i>Cords</i> <i>Cords</i> <i>Cords</i> Cords	13.2	\$6,749.30
11	Beech Red Maple Balsam Fir Mixed Aspen <i>Quaking Aspen</i> Mixed Hardwood	Sawtimber Pulpwood	2.1 1.3 4 2 2 212	MBF MBF Cords Cords <i>Cords</i> Cords	7.0	\$3,396.40

DESCRIPTION OF TIMBER BY PAYMENT UNIT (PU), CON'T

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
18 con't	<i>Red Maple</i>	<i>Pulpwood</i>	1	<i>Cords</i>		
	Red Pine		240	Cords		
	White Pine		1	Cords		
19	Balsam Fir	Pulpwood	1	Cords	33.7	\$53,235.20
	Mixed Aspen		10	Cords		
	<i>B. T. Aspen</i>		10	<i>Cords</i>		
	Mixed Hardwood		4	Cords		
	<i>Red Maple</i>		4	<i>Cords</i>		
	Red Pine		816	Cords		
	White Pine		2	Cords		
20	Balsam Fir	Pulpwood	4	Cords	13.4	\$10,641.15
	Mixed Aspen		72	Cords		
	<i>B. T. Aspen</i>		46	<i>Cords</i>		
	<i>Quaking Aspen</i>		26	<i>Cords</i>		
	Mixed Hardwood		75	Cords		
	<i>Beech</i>		10	<i>Cords</i>		
	<i>Black Cherry</i>		2	<i>Cords</i>		
	<i>Red Maple</i>		61	<i>Cords</i>		
	<i>Yellow Birch</i>		2	<i>Cords</i>		
	Mixed Spruce		2	Cords		
	<i>White Spruce</i>		2	<i>Cords</i>		
	Paper Birch		1	Cords		
	Red Pine		110	Cords		
	White Pine		24	Cords		
	TOTAL:			119.9		
TOTAL:			10,359	Cords		

Sale Specific Conditions & Requirements

Sale Name: GNA2 Flat Iron South

Sale Number: 41-822-22 Seq#: 1

1 - Sale Area

1.2 - Boundaries

1.2.1 - Painted boundaries (9/19)

Exterior sale boundary lines against forest service ownership are marked with orange paint. Interior Payment Unit boundaries are marked with orange paint (rings). The painted boundary line trees are not Included Timber and are to be protected unless marked with blue paint.

2 - Timber Specifications

2.1 - Included Timber

2.1.1 - Clearcut unit(s) with unmerchantable trees (6/14)

Within Payment Unit(s) 1, cut all maple and aspen trees that are two (2) inches or more at DBH. In addition, cut all other trees that meet minimum piece specifications in 2.1 Utilization, except do not cut paper birch, yellow birch, white pine, and any trees marked in green paint. Special protection areas identified in accordance with condition 3.4.3, within clearcutting unit boundaries, are not Included Timber and are to be protected.

2.1.3 - Cut tree marked unit(s) (12/08)

Within Payment Unit(s) 3-10, 12, 13, and 15-20, all trees are designated for cutting when marked with blue paint above and below stump height, regardless of merchantability. In addition, within Payment Units 12 and 13, beech is designated for cutting, unless marked in green paint.

2.1.7 - Leave tree marked unit(s) (6/14)

Within Payment Unit(s) 2, 11, & 14, all trees which meet minimum piece specifications in 2.2 Utilization are designated for cutting, except do not cut trees marked with green paint above and below stump height. In addition, within Payment Unit 2, do not cut paper birch or cedar. Also, within Payment Unit 14, do not cut paper birch, red pine, and white pine. Special protection areas identified in accordance with condition 3.4.3, within clearcutting unit boundaries, are not Included Timber and are to be protected.

2.2 - Utilization

2.2.3 - Stump heights (4/07)

Stump heights within the sale area shall not exceed 12 inches for trees greater than 10 inches DBH and 10 inches for trees smaller than 10 inches DBH.

2.2.12 - GNA, cut and remove Included Timber (3/18)

Unless provided otherwise herein, the DNR agrees to sell and permit Purchaser to cut and remove Included Timber and Purchaser agrees to purchase, cut, and remove Included Timber.

3 - Payments

3.3 - Pre-measured Sales

3.3.4 - Dividing payment units (7/14)

Payment Unit(s) with value over \$20,000 may be divided at the request of the Purchaser and upon approval of the Unit Manager. Dividing Payment Units is a contract modification which requires a Timber Sale Contract Amendment.

3.4 - Damaged Timber

3.4.3 - Special Protection Areas (8/11)

The Purchaser shall protect special protection areas from damage by the Purchaser's operations. Special protection areas are excluded with an orange boundary line and blue and white striped flagging (see Timber Sale Map). The Purchaser shall not operate in or cut live or dead trees within special protection areas. Trees adjacent to these areas cannot be felled inside of the orange boundaries. If the Purchaser's operations have cut or damaged special protection areas through carelessness, the Purchaser shall pay \$10,000 as fixed, agreed and liquidated damages for each acre or part thereof cut or damaged. Such

payment does not constitute ownership of the undesignated timber.

4 - Transportation

4.1 - Construction

4.1.3 - Slash and earthen piles (8/04)

Piles or windrows of earth along roads and landings that have been widened or constructed shall be leveled. Slash from road maintenance or construction, including stumps, shall be dispersed throughout the sale.

4.1.4 - Timber removed for construction (12/09)

Trees cut or damaged in the process of pre-approved road, landing or skid trail construction will be decked in an area separate from other Designated Timber and not removed until measured by the sale administrator. Payment will be made at the specified Purchase Unit Price.

4.1.6 - Road construction (1/09)

Construction of new roads or improvements of existing roads shall be done in such a way as to minimize the environmental and visual impacts. Merchantable trees shall be cut and utilized unless otherwise directed. Non-merchantable trees shall be severed and laid flat on the ground. Slash shall be scattered, and not left in windrows and kept a minimum of 10 feet back from the road edge. Stumps shall be set upright, not left on edge, and be moved at least 10 feet away from the road edge. Disturbed soil shall be feathered into the woods and not left in berms or windrows.

4.1.7 - Road closure (10/11)

All new roads built into the sale must be blocked to vehicle traffic within 30 days of completion of hauling. Overgrown roads that are reopened shall be considered new roads. Roads A96J, A94K, A94M, A94O and A94Q will need to be closed after harvesting is complete. In general, this will require constructing double earthen berms at strategic locations. Stumps, brush, and slash must be placed along the remainder of the trail, but at a minimum of 200' from berms. Berms must also be placed at intervals of not over 50 feet and at all junctions. These roads must be rendered impassable to cars and trucks. All stumps from road building and landing construction must be reserved to block any newly constructed roads upon completion of the sale. These stumps must be scattered along the road system to prohibit vehicular movement. Contact the sale administrator for specific details of design and placement.

4.2 - Maintenance

4.2.4 - Grading (10/16)

For completion of the sale, forest service roads must be graded. In general, this will require a road grader or bull dozer to shape up the roads after forest products have been hauled off site. This includes cleaning of drainage areas, grading, crowning and filling with gravel, if necessary. The grading equipment to be used must be approved by the Unit Manager or his/her representative.

5 - Operations

5.1 - Notification

5.1.1 - Pre-sale conference (10/16)

A pre-sale conference on site between the Purchaser and sale administrator is required prior to beginning any operations to determine landing and road locations. The Unit Manager or his/her representative must be contacted at least 10 days in advance to schedule the conference.

5.1.4 - Post-sale conference (10/16)

A post-sale conference on site between the Purchaser and sale administrator is required 5 days prior to the completion of active logging operations to determine clean-up and repair of landings, road edges, and the fulfillment of other contract specifications.

5.2 - Conduct of Operations

5.2.1 - Slash

5.2.1.2 - Slash Removal

5.2.1.2.1 - Slash removal, right-of-way (9/16)

All slash must be removed at least 10 feet from the cleared right-of-way of forest service roads. Within 25 feet of forest service

roads, slash must be reduced to 1 foot and no higher than 4 feet everywhere else. Slash cannot be windrowed.

5.2.2 - Hazard Trees/Snags

5.2.2.1 - Den trees (10/16)

Obvious hollow and/or den trees shall be protected and left standing unless they are a safety hazard.

5.2.3 - Operating Restrictions

5.2.3.2 - Operating restrictions (9/11)

Within Payment Unit(s) 1 and 2, unless changed by written agreement, cutting, skidding, and hauling are limited to frozen conditions. In general, this period is typically from December 1 to April 15. This restriction is because sensitive soils.

5.2.3.3 - Bark slippage restriction (3/09)

Within Payment Unit(s) 10, 12 & 13, unless changed by written agreement, cutting and skidding are not permitted during the period of April 15 to July 15. This restriction is because of bark slippage.

5.2.3.6 - Bark beetle restriction (12/08)

In the event drought creates a high risk of pine bark beetle infestation, pine is not to be cut during the period March 1 through July 1, unless all portions of trees greater than two inches in diameter are removed from the sale area, reduced to chips, or treated to the satisfaction of the Unit Manager or his/her representative, within fifteen days of being severed from the stump. Pine log decks, pulpwood piles and treetops that are piled for chipping in the fall or winter within a 1/4 mile of susceptible sites must be removed before March 15. Residual slash must not be placed in piles or rows and must be spread over the site for quick drying. The Department of Natural Resources will exercise this specification if the risk of damage warrants.

5.2.4 - Dead and Down Creation

5.2.4.4 - Dead and down creation, grouse (6/18)

To encourage grouse and other wildlife, in Payment Unit(s) 1, cut and leave one, 10" diameter or larger whole tree on the ground per acre, preferably a hardwood species such as aspen or maple for drumming logs. The trees that are felled for drumming logs will be evenly scattered throughout the unit and should be cut as low to the ground as possible.

5.2.4.6 - Dead and down creation, other (9/09)

Within Payment Units 3, 4, 6, 8, 9 and 15-20, one tree per acre must be topped at least 15 feet (preferably 20 feet) off the ground. The top must be left intact on the ground and the remainder of the tree must be left standing. Each of these should be a large red pine. This is being done to create snags in the stands. These should be at least 50 feet from roads and are not marked for harvest. These trees will come from residual trees.

5.2.32 - Decking/landing restoration (9/13)

All decking and landing areas must have the surface area restored to a condition equal to or better than before. This is to ensure the proper regeneration of the stand. Wood debris, chips and "cookies" from trimmings must be removed or scattered away from landing and loading areas and may not be windrowed on the edge. No decking is allowed on KK Rd or Forest Service Road 2222.

5.2.38 - No decking against live trees (2/04)

Cut products may not be decked against unmarked or designated leave trees.

5.2.41 - Snowmobile trail protection (9/11)

KK Road is a snowmobile trail and is shown on the Timber Sale Map. Do not cut or damage posts with orange trail markers or traffic control signs. If the trail is used for hauling, it must be graded to the satisfaction of the Unit Manager or his/her representative prior to December 1st. If the trail road is to be used for hauling during the snowmobile season, then a snow covered base must be left on the trail. Maintain a 20 foot wide slash, debris, and rut free zone daily using the snowmobile trail as the centerline. No decking of forest products will be permitted along the snowmobile trail. All stumps within 20 feet of the snowmobile trail must be cut at ground level.

5.4 - Soil Protection

5.4.1 - Rutting restriction, general (7/16)

Operations are to cease immediately if equipment and weather conditions result in rutting of roads and/or skid trails which is 12 inches or greater in depth and 50 feet in length. The Unit Manager or his/her representative may restrict hauling and/or

skidding if ruts exceed the specified depth. With the Unit Manager or his/her representative's approval, the Purchaser may return to the area when the risk of rutting has decreased.

5.4.7 - Rutting restriction, Riparian Management Zone (RMZ) (1/09)

Within the Riparian Management Zone (RMZ), operations are to cease immediately if equipment and weather conditions result in rutting of roads and skid trails which is 6 inches or greater in depth and 25 feet in length. RMZ's are areas near stream buffers and an excluded area within Payment Unit 14. The Unit Manager or his/her representative may restrict hauling and/or skidding if ruts exceed the specified depth. With the Unit Manager or his/her representative's approval, the Purchaser may return to the area when the risk of rutting has decreased.

5.6 - Debris and Waste Material

5.6.2 - GNA, equipment cleaning (1/16)

(a) Areas, known by the DNR prior to timber sale advertisement, that are infested with invasive species of concern are shown on the Timber Sale Map. A current list of invasive species of concern and a map showing the extent of known infestations is available from the DNR. For purposes of this provision, "Off-Road Equipment" includes all logging and construction machinery, except for log trucks, chip vans, service vehicles, water trucks, pickup trucks, cars, and similar vehicles.

(b) Purchaser shall adhere to the following requirements with regard to cleaning "Off-Road Equipment":

(i) Prior to moving Off-Road Equipment onto the Sale Area, Purchaser shall identify the location of the equipment's most recent operation. Purchaser shall not move any Off-Road Equipment that last operated in an area infested with one or more invasive species of concern onto Sale Area without having cleaned such equipment of seeds, soil, vegetative matter, and other debris that could contain or hold seeds, and having notified the DNR, as provided in (iii). If the location of prior operation cannot be identified, then Purchaser shall assume that the location is infested with invasive species of concern.

(ii) Prior to moving Off-Road Equipment from a cutting unit that is shown on the Timber Sale Map to be infested with invasive species of concern to, or through any other area that is shown as being free of invasive species of concern, or infested with a different invasive species, Purchaser shall clean such equipment of seeds, soil, vegetative matter, and other debris that could contain or hold seeds, and shall notify the DNR, as provided in (iii).

(iii) Prior to moving any Off-Road Equipment subject to the cleaning requirements set forth above, Purchaser shall advise DNR of its cleaning measures and make the equipment available for inspection. DNR shall have 2 days, excluding weekends and State holidays, to inspect equipment after it has been made available. After satisfactory inspection or after such 2 day period, Purchaser may move the equipment as planned. Equipment shall be considered clean when a visual inspection does not disclose seeds, soil, vegetative matter, and other debris that could contain or hold seeds. Purchaser shall not be required to disassemble equipment unless so directed by the DNR after inspection.

(iv) If Purchaser desires to clean Off-Road Equipment on National Forest land, such as at the end of a project or prior to moving to, or through an area that is free of invasive species of concern, Purchaser shall obtain prior approval from the Unit Manager or his/her representative as to the location for such cleaning and measures, if any, for controlling impacts.

(v) Unit Manager or his/her representative may order delay, interruption, or modification of this Contract pursuant to Condition & Requirement 7.3 or 7.3.4.

(c) Nothing contained in this Condition & Requirement shall be interpreted as creating any warranty on the part of the DNR that all locations of invasive species of concern have been described herein, elsewhere in this Contract, or designated on the ground. Following sale advertisement, additional locations may be described or designated, and other species may be added to the list of invasive species of concern. In such event, the Unit Manager or his/her representative may order delay, interruption, or modification of this Contract pursuant to Condition & Requirement 7.3 or 7.3.4.

(d) The parties shall promptly communicate with one another with respect to description or designation of additional locations; discovery of locations of new species or new infestation; and, addition of species to the list of invasive species of concern.

5.8 - Protection of Endangered Species

5.8.3 - Red shoulder hawk or goshawk (2/16)

In the event that an active red shoulder hawk or goshawk nest is found, the contract may be amended to protect the nest site until the nest is determined to be inactive. The value of the trees in this excluded area will be refunded or credited to the Purchaser. The nest will be buffered with a five-chain radius (eight acre) protection area, centered on the nest tree, in which there will be no cutting or new roads constructed. Avoid human disturbance, including loading and skidding, in the protection area.

An additional zone of five chains (ten chains centered on the active nest tree) will be established in which there is no management activity from April 1 to July 30. Limit biomass harvesting and chipping operations within this ten-chain zone, retain the maximum one-third of residues per the Woody Biomass Harvesting Guidelines (Michigan DNR 2010). Nests determined to be inactive will be protected with a one-chain no-harvest buffer.

6 - Safety and Fire Prevention

6.2 - Signing

6.2.1 - Road posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on Forest Service Road 2222 and KK Road prior to beginning operations. The road must be posted at appropriate distances from the sale area to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.

6.2.2 - Snowmobile trail posting (10/20)

The Purchaser is responsible for posting and maintaining caution signs on KK Road prior to beginning operations during the snowmobile season (approximately December 1 to March 31). The trail must be posted at locations designated on the map at appropriate distances from the sale area approximately 350 feet from the sale area to warn of logging activity and truck traffic. Signs must be removed when harvest operations are suspended or completed. The Purchaser will provide these signs.

7 - Other Conditions

SKIP

7.1.1 - GNA, title (7/16)

General Condition & Requirement 7.1 is inapplicable. The following applies to this contract.

All right, title, and interest in and to any Included Timber shall remain in USDA Forest Service with the State of Michigan acting on behalf of the USDA Forest Service under this GNA contract, until it has been Measured, removed from Sale Area or other authorized cutting area, and paid for, at which time title shall vest in Purchaser. Title to any Included Timber that has been Measured and paid for, but not removed from Sale Area or other authorized cutting area by Purchaser on or prior to Termination Date, shall remain in USDA Forest Service.

7.3 - Contract Modifications

7.3.4 - GNA, contract suspension and modification (5/16)

(a) The Unit Manager may, by written order, delay or interrupt authorized operations under this contract or, notwithstanding Condition & Requirement 7.3, modify this contract, in whole or in part:

(i) To prevent environmental degradation or resource damage, including, but not limited to, harm to habitat, plants, animals, cultural resources, or cave resources;

(ii) To ensure consistency with land and resource management plans or other documents prepared pursuant to the National Environmental Policy Act of 1969, 42 USC 4321-4347;

(iii) To conduct environmental analysis, including, but not limited to, engaging in consultation pursuant to the Endangered Species Act of 1973, 16 USC 1531, et seq.; or

(iv) Upon agreement of the Forest Service, due to administrative appeal or litigation, regardless of whether the Unit Manager's order is required by a court order or this contract is named in such a proceeding.

(b) In the event of an order delaying or interrupting Purchaser's Operations under this Condition & Requirement, Purchaser's remedy shall be:

(i) a no cost contract extension,

(ii) reimbursement for Out-of-Pocket Expenses,

however, the foregoing remedies shall be available only to the extent that the Unit Manager's order was the sole and exclusive cause of the delay or interruption of Purchaser's operations.

(c) Remedies awarded to the Purchaser shall not be duplicative, and the Unit Manager shall have the right to structure remedies provided herein to avoid duplicative compensation.

(d) Purchaser agrees that this Condition & Requirement, and the remedies provided herein shall apply regardless of any finding by any court that the DNR failed to comply with any statute, regulation and/or policy in connection with awarding, advertising, or authorizing this sale, or a similar sale.

7.5 - Loss

7.5.2 - GNA, liability for loss (7/16)

If Included Timber is destroyed or damaged by an unexpected event that changes the nature of Included Timber, such as wind, flood, insects, disease, or similar cause, the Purchaser shall bear the timber value loss resulting from such destruction or damage.

Deterioration or loss of timber value due to delay or interruption under 7.3.4 - GNA, contract suspension and modification, shall be borne by the party holding title. In this event, Included Timber to which USDA Forest Service holds title, Purchaser of the State GNA contract will not be obligated to remove and pay for such timber. This Subsection shall not be construed to relieve either party of liability for negligence.

7.10 - Certified Timber

7.10.1 - Non-certified timber (2/16)

The area encompassed by this timber sale is not certified to the standards of the Forest Stewardship Council (FSC) or the Sustainable Forestry Initiative (SFI). Forest products from this sale may not be delivered to the mill as "FSC and / or SFI certified". The lands within this sale belong to the National Forest system and are being managed by the State as part of a Good Neighbor Authority (GNA) agreement.



TIMBER SALE MAP

This information provided by authority of Part 5, 1994 PA 451, as amended.

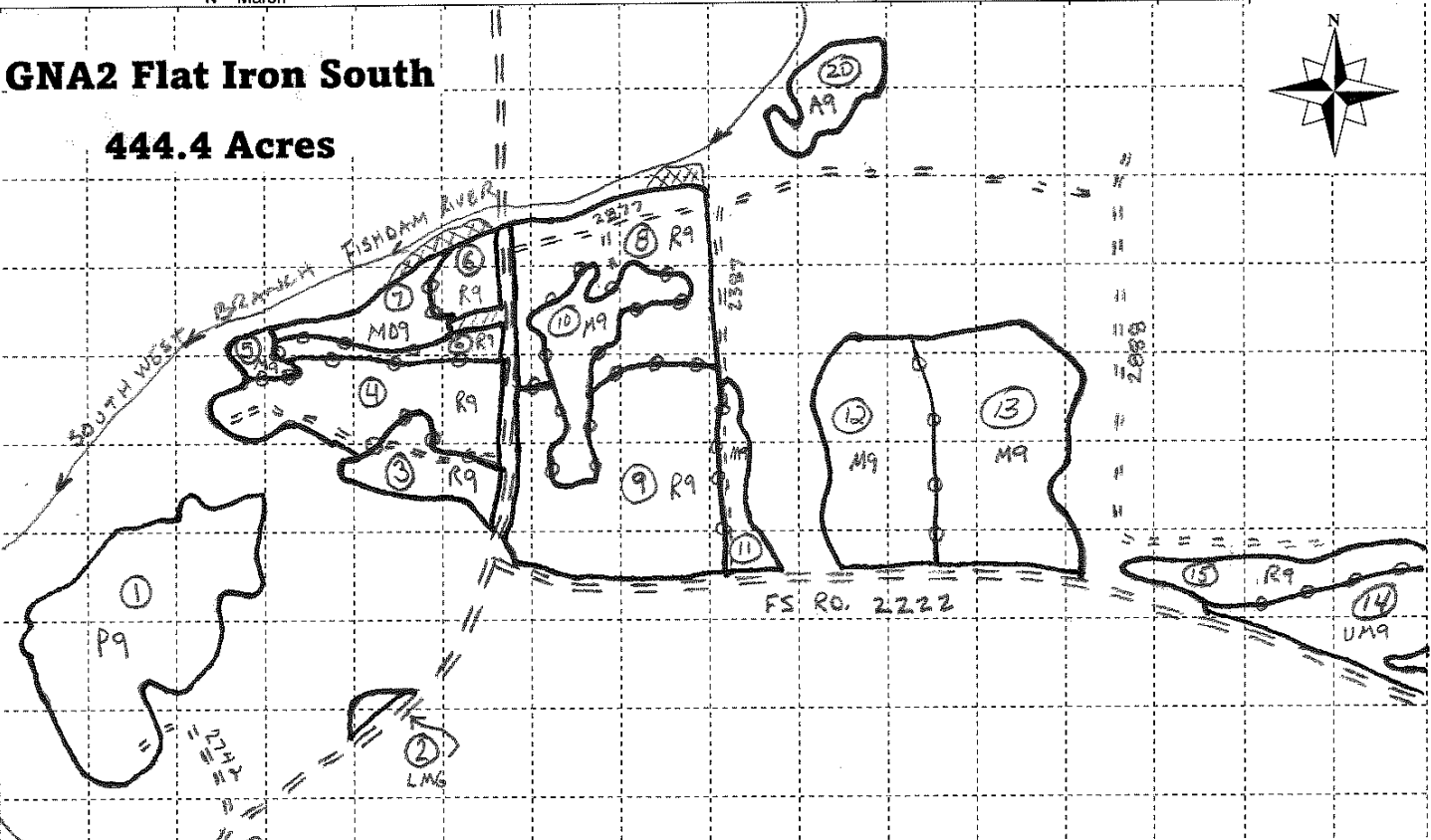
Sale Number	Year
41-822-22	2022

Forest Management Unit Shingleton	County Delta	Mapped By Kyle Gould	Date 10/6/22	Page 1	of 2
Compartments Number 7912-091,094,096	Township 41N	Range 18W,19W	Section(s) and Subdivision(s) 5 SESW 6 NWSW,S1/2SW 7 NW,NWNE,S1/2NE 8 NENW,S1/2NW,W1/2NE,N1/2SW 1 SESW,NESE,S1/2SE 12 NW,NE N1/2SW,NWSE	Scale: 4 inches = 1 mile	

Cover Type				Density			
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium		
B = Paper Birch	K = Rock	P = Lowland Poplar	UM = Upland Mix Forest	1 = Seedling Sapling Poor	6 = Pole Timber Well		
C = Cedar	L = Lowland Brush	Q = Mixed Swamp Conifer	V = Bog or Marsh	2 = Seedling Sapling Medium	7 = Saw Timber Poor		
D = Treed Bog	LM = Lowland Mix Forest	R = Red Pine	W = White Pine	3 = Seedling Sapling Well	8 = Saw Timber Medium		
E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked	4 = Pole Timber Poor	9 = Saw Timber Well		
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand				
G = Grass	MD = Mixed Deciduous	Z = Water					
H = Hemlock	N = Marsh						

GNA2 Flat Iron South

444.4 Acres



LEGEND

- SALE BOUNDARY ORANGE PRINT
- UNIT LINE ORANGE PRINT (RINGS)
- FOREST SERVICE ROAD
- NO CUT AREA
- SPECIAL PROTECTION AREA

Unit	Acres
1	50.7
2	1.8
3	10.4
4	28
5	1.7
6	11.8
7	10.3
8	37.4
9	47.7
10	13.2
11	7
12	31.1
13	41.6
14	27.2
15	12.5
16	31.1
17	23.9
18	9.9
19	33.7
20	13.4



TIMBER SALE MAP

This information provided by authority of Part 5, 1994 PA 451, as amended.

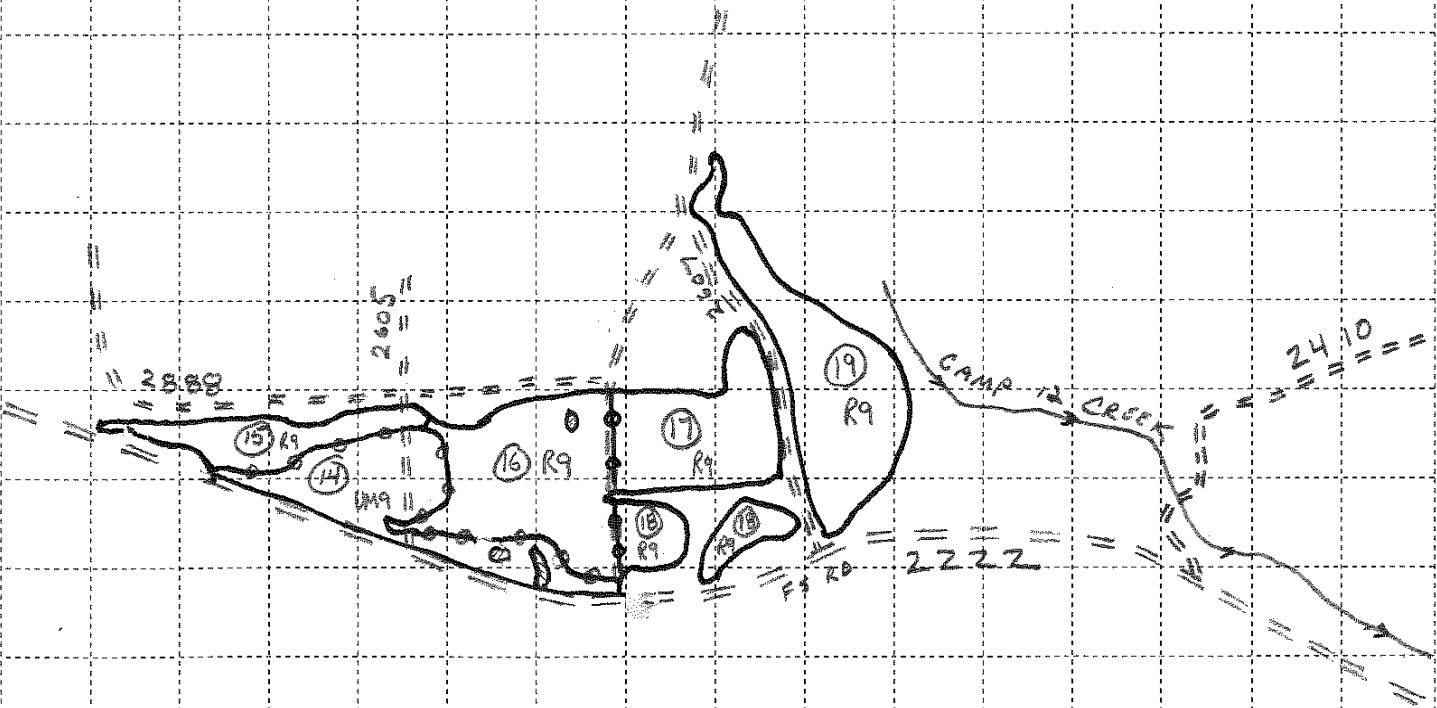
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Forest Management Unit Shingleton	County Delta	Mapped By Kyle Gould	Date 10/6/22	Page of 2 2
Compartment Number 7912-091,094,096	Township 41N	Range 18W,19W	Section(s) and Subdivision(s) 5 SESW 6 NWSW,S1/2SW 7 NW,NWNE,S1/2NE 8 NENW,S1/2NW,W1/2NE,N1/2SW 1 SESW,NESE,S1/2SE 12 NW,NE,N1/2SW,NWSE	

Scale: **4 inches** = 1 mile

Cover Type				Density	
A = Aspen	J = Jack Pine	O = Oak	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
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E = Swamp Hardwoods	M = Maple, Beech, Birch	S = Black Spruce	X = Non Stocked	4 = Pole Timber Poor	9 = Saw Timber Well
F = Spruce/Fir	MC = Mixed Conifer	T = Tamarack	Y = Sand		
G = Grass	MD = Mixed Deciduous		Z = Water		
H = Hemlock	N = Marsh				

GNA2 Flat Iron South
444.4 Acres



SCAN ME!!



GNA2 Haunted Grassy (41-813-22)

T44N, R18W, SEC. 10; T44N, R18W, SEC. 16; T44N, R18W, SEC. 3; T44N, R18W,

In response to the notice of sale to be held 2:00 p.m. (local time) on May 17, 2023, I am hereby submitting my sealed bid (firm offer) for the following forest products to be cut. Bids for individual species must be at or above the advertised price. All non-responsive bid forms may be rejected.

<u>PRODUCTS & SPECIES</u>	<u>ESTIMATED VOLUME*</u>	<u>ADVERTISED PRICE</u>	<u>BID PRICE/UNIT</u>
Sawtimber			
Black Cherry	41.6 MBF	\$ 109.00/MBF	\$ _____
Paper Birch	12.6 MBF	\$ 117.00/MBF	\$ _____
Red Maple	930.4 MBF	\$ 97.00/MBF	\$ _____
Sugar Maple	172.8 MBF	\$ 290.00/MBF	\$ _____
Pulpwood			
Balsam Fir	93 Cords	\$ 10.70/Cord	\$ _____
Jack Pine	2 Cords	\$ 27.65/Cord	\$ _____
Mixed Aspen	972 Cords	\$ 24.05/Cord	\$ _____
Mixed Hardwood	2,441 Cords	\$ 14.70/Cord	\$ _____
Paper Birch	232 Cords	\$ 16.85/Cord	\$ _____
Red Pine	190 Cords	\$ 64.80/Cord	\$ _____
White Pine	24 Cords	\$ 24.20/Cord	\$ _____
White Spruce	121 Cords	\$ 19.30/Cord	\$ _____

*The volumes are statistically estimated within plus (+) or minus (-) 7.39 percent at 95% confidence level. These estimated volumes are final and not subject to adjustment. Prospective bidders are urged to examine this timber and to make their own estimates of quantity and quality.

I understand that any or all bids may be rejected. All bids must be signed and all bid items must be bid or the bid form may be rejected. I also understand that consideration and awarding a contract will be based upon my past performance and ability to complete the contract based upon equipment and staffing subject to my control.

FEDERAL ID: ____ - ____ - ____ or SOCIAL SECURITY NUMBER: ____ - ____ - ____

Company or individual bidding: _____

Company representative's name: _____

Address: _____

City: _____ State: _____ Zip: _____

IF AVAILABLE, PLEASE PLACE THE PERSONALIZED LABEL FROM YOUR PROSPECTUS IN THE ABOVE BOX.

Individual or company representative's signature: _____ Date: _____

Phone number : _____ Email (optional): _____

THE WINNING BIDDER MUST COMPLETE THE VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE (ON REVERSE SIDE IF DOUBLE SIDED) WITHIN 21 DAYS OF SALE AWARD DATE



FOR DEPARTMENT USE ONLY	
Sale Number (XX - XXX - XX - XX)	
Forest Management Unit:	

TIMBER SALE VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE

As required by Act 317, P.A. 1969 (Worker's Compensation) and
Part 5 of Act 451 of 1994, as amended.

VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE

- This verification must be completed and submitted within 21 days of contract award and prior to the issuance of the timber sale contract.
- In addition, if boxes 2B or 2C are checked, then Notice of Exclusion or Certificate of Insurance must be submitted within twenty-one (21) days of the contract award and prior to the issuance of the timber sale contract.
- All information must be typed or printed except for written signatures.

Please Check Appropriate Categories:

1. My business is organized as (you **must** check one of the boxes below):
 - A. Sole Proprietorship (individual)
 - B. Partnership
 - C. Corporation
2. You **must** check one of the boxes below:
 - A. I certify my business is a sole proprietorship and it has no employees but the sole proprietor. I am not subject to the Worker's Compensation Laws.
 - B. I certify my business has satisfied its obligation to the Worker's Compensation Act through the use of an approved Notice of Exclusion (BWC-337, Rev. 5/96). I will provide a copy of the Notice of Exclusion within 21 days of the contract award. (For questions or a copy of the BWC-337, please call the Worker's Compensation Bureau at 517-322-1195).
 - C. I certify my business has a Worker's Compensation Policy. I will provide an original Certificate of Insurance within twenty-one (21) days of the contract award.
3. If you have checked item 2(A) or 2(B), you **must** indicate the number of **both** full-time and part-time employees, other than yourself, including family members and active partners (if none, you must enter "0").

_____ Full-time Employees

_____ Part-time Employees

Name of Business		Federal ID (or) Social Security No.	
Address		Telephone ()	
City	State	ZIP	

I hereby certify that the above information is true and correct. I agree to notify the Michigan DNR of any changes that occur in factors affecting my coverage during any of my present and future operations.

Signature of Owner or Authorized Representative

Title

Date

Please complete the "SEALED BID" information on the next page

GNA2 Flat Iron North (41-821-22)

T41N, R18W, SEC. 4; T41N, R18W, SEC. 5; T41N, R18W, SEC. 6; T41N, R18W,

In response to the notice of sale to be held 2:00 p.m. (local time) on May 17, 2023, I am hereby submitting my sealed bid (firm offer) for the following forest products to be cut. Bids for individual species must be at or above the advertised price. All non-responsive bid forms may be rejected.

<u>PRODUCTS & SPECIES</u>	<u>ESTIMATED VOLUME*</u>	<u>ADVERTISED PRICE</u>	<u>BID PRICE/UNIT</u>
Sawtimber			
Paper Birch	23.2 MBF	\$ 117.00/MBF	\$ _____
Red Maple	144.5 MBF	\$ 97.00/MBF	\$ _____
Sugar Maple	14.6 MBF	\$ 290.00/MBF	\$ _____
White Pine	0.1 MBF	\$ 74.00/MBF	\$ _____
Pulpwood			
Balsam Fir	825 Cords	\$ 10.70/Cord	\$ _____
Hemlock	46 Cords	\$ 6.75/Cord	\$ _____
Mixed Aspen	2,152 Cords	\$ 24.05/Cord	\$ _____
Mixed Hardwood	2,113 Cords	\$ 14.70/Cord	\$ _____
Mixed Spruce	640 Cords	\$ 19.30/Cord	\$ _____
N. White Cedar	9 Cords	\$ 4.70/Cord	\$ _____
Paper Birch	482 Cords	\$ 16.85/Cord	\$ _____
Red Pine	153 Cords	\$ 64.80/Cord	\$ _____
White Pine	71 Cords	\$ 24.20/Cord	\$ _____

*The volumes are statistically estimated within plus (+) or minus (-) 6.27 percent at 95% confidence level. These estimated volumes are final and not subject to adjustment. Prospective bidders are urged to examine this timber and to make their own estimates of quantity and quality.

I understand that any or all bids may be rejected. All bids must be signed and all bid items must be bid or the bid form may be rejected. I also understand that consideration and awarding a contract will be based upon my past performance and ability to complete the contract based upon equipment and staffing subject to my control.

FEDERAL ID: _____ or SOCIAL SECURITY NUMBER: _____

Company or individual bidding: _____

Company representative's name: _____

Address: _____

City: _____ State: _____ Zip: _____

IF AVAILABLE, PLEASE PLACE THE PERSONALIZED LABEL FROM YOUR PROSPECTUS IN THE ABOVE BOX.

Individual or company representative's signature: _____ Date: _____

Phone number : _____ Email (optional): _____

THE WINNING BIDDER MUST COMPLETE THE VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE (ON REVERSE SIDE IF DOUBLE SIDED) WITHIN 21 DAYS OF SALE AWARD DATE



FOR DEPARTMENT USE ONLY	
Sale Number (XX - XXX - XX - XX)	
Forest Management Unit:	

TIMBER SALE VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE

As required by Act 317, P.A. 1969 (Worker's Compensation) and
Part 5 of Act 451 of 1994, as amended.

VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE

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- All information must be typed or printed except for written signatures.

Please Check Appropriate Categories:

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 - C. Corporation
2. You **must** check one of the boxes below:
 - A. I certify my business is a sole proprietorship and it has no employees but the sole proprietor. I am not subject to the Worker's Compensation Laws.
 - B. I certify my business has satisfied its obligation to the Worker's Compensation Act through the use of an approved Notice of Exclusion (BWC-337, Rev. 5/96). I will provide a copy of the Notice of Exclusion within 21 days of the contract award. (For questions or a copy of the BWC-337, please call the Worker's Compensation Bureau at 517-322-1195).
 - C. I certify my business has a Worker's Compensation Policy. I will provide an original Certificate of Insurance within twenty-one (21) days of the contract award.
3. If you have checked item 2(A) or 2(B), you **must** indicate the number of **both** full-time and part-time employees, other than yourself, including family members and active partners (if none, you must enter "0").

_____ Full-time Employees

_____ Part-time Employees

Name of Business		Federal ID (or) Social Security No.	
Address		Telephone ()	
City	State	ZIP	

I hereby certify that the above information is true and correct. I agree to notify the Michigan DNR of any changes that occur in factors affecting my coverage during any of my present and future operations.

Signature of Owner or Authorized Representative

Title

Date

Please complete the "SEALED BID" information on the next page

GNA2 Flat Iron South (41-822-22)
T41N, R18W, SEC. 5; T41N, R18W, SEC. 6; T41N, R18W, SEC. 7; T41N, R18W,

In response to the notice of sale to be held 2:00 p.m. (local time) on May 17, 2023, I am hereby submitting my sealed bid (firm offer) for the following forest products to be cut. Bids for individual species must be at or above the advertised price. All non-responsive bid forms may be rejected.

<u>PRODUCTS & SPECIES</u>	<u>ESTIMATED VOLUME*</u>	<u>ADVERTISED PRICE</u>	<u>BID PRICE/UNIT</u>
Sawtimber			
Beech	7.3 MBF	\$ 30.00/MBF	\$ _____
Black Cherry	1.2 MBF	\$ 109.00/MBF	\$ _____
Red Maple	100.0 MBF	\$ 97.00/MBF	\$ _____
Sugar Maple	11.4 MBF	\$ 290.00/MBF	\$ _____
Pulpwood			
Balsam Fir	388 Cords	\$ 10.70/Cord	\$ _____
Jack Pine	8 Cords	\$ 27.65/Cord	\$ _____
Mixed Aspen	1,976 Cords	\$ 24.05/Cord	\$ _____
Mixed Hardwood	2,095 Cords	\$ 14.70/Cord	\$ _____
Mixed Spruce	49 Cords	\$ 19.30/Cord	\$ _____
Paper Birch	11 Cords	\$ 16.85/Cord	\$ _____
Red Pine	5,800 Cords	\$ 64.80/Cord	\$ _____
White Pine	32 Cords	\$ 24.20/Cord	\$ _____

*The volumes are statistically estimated within plus (+) or minus (-) 6.19 percent at 95% confidence level. These estimated volumes are final and not subject to adjustment. Prospective bidders are urged to examine this timber and to make their own estimates of quantity and quality.

I understand that any or all bids may be rejected. All bids must be signed and all bid items must be bid or the bid form may be rejected. I also understand that consideration and awarding a contract will be based upon my past performance and ability to complete the contract based upon equipment and staffing subject to my control.

FEDERAL ID: ____ - ____ - ____ or SOCIAL SECURITY NUMBER: ____ - ____ - ____

Company or individual bidding: _____

Company representative's name: _____

Address: _____

City: _____ State: _____ Zip: _____

IF AVAILABLE, PLEASE PLACE THE PERSONALIZED LABEL FROM YOUR PROSPECTUS IN THE ABOVE BOX.

Individual or company representative's signature: _____ Date: _____

Phone number : _____ Email (optional): _____

THE WINNING BIDDER MUST COMPLETE THE VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE (ON REVERSE SIDE IF DOUBLE SIDED) WITHIN 21 DAYS OF SALE AWARD DATE



FOR DEPARTMENT USE ONLY	
Sale Number (XX - XXX - XX - XX)	
Forest Management Unit:	

TIMBER SALE VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE

As required by Act 317, P.A. 1969 (Worker's Compensation) and
Part 5 of Act 451 of 1994, as amended.

VERIFICATION OF WORKER'S DISABILITY COMPENSATION ACT COMPLIANCE

- This verification must be completed and submitted within 21 days of contract award and prior to the issuance of the timber sale contract.
- In addition, if boxes 2B or 2C are checked, then Notice of Exclusion or Certificate of Insurance must be submitted within twenty-one (21) days of the contract award and prior to the issuance of the timber sale contract.
- All information must be typed or printed except for written signatures.

Please Check Appropriate Categories:

1. My business is organized as (you **must** check one of the boxes below):
 - A. Sole Proprietorship (individual)
 - B. Partnership
 - C. Corporation
2. You **must** check one of the boxes below:
 - A. I certify my business is a sole proprietorship and it has no employees but the sole proprietor. I am not subject to the Worker's Compensation Laws.
 - B. I certify my business has satisfied its obligation to the Worker's Compensation Act through the use of an approved Notice of Exclusion (BWC-337, Rev. 5/96). I will provide a copy of the Notice of Exclusion within 21 days of the contract award. (For questions or a copy of the BWC-337, please call the Worker's Compensation Bureau at 517-322-1195).
 - C. I certify my business has a Worker's Compensation Policy. I will provide an original Certificate of Insurance within twenty-one (21) days of the contract award.
3. If you have checked item 2(A) or 2(B), you **must** indicate the number of **both** full-time and part-time employees, other than yourself, including family members and active partners (if none, you must enter "0").

_____ Full-time Employees

_____ Part-time Employees

Name of Business		Federal ID (or) Social Security No.	
Address		Telephone ()	
City	State	ZIP	

I hereby certify that the above information is true and correct. I agree to notify the Michigan DNR of any changes that occur in factors affecting my coverage during any of my present and future operations.

Signature of Owner or Authorized Representative

Title

Date

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