



**DEPARTMENT OF NATURAL RESOURCES  
STATE OF MICHIGAN  
TIMBER SALE PROSPECTUS #7071**

**SCHEDULED SALE DATE AND TIME: 9:00 a.m. (local time) on July 25, 2022.**

**LOCATION: GRAYLING MGMT UNIT, 1955 HARTWICK PINES ROAD, GRAYLING, MI 49738.**

**CONTACT NAME: Thomas Barnes**

**PHONE NUMBER: (989) 348-6371**

**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, GRAYLING MANAGEMENT UNIT, for certain timber on the following described lands:

Roundhouse Oak (72-011-21) / T25N, R02W, SEC. 14, W1/2SW.

T25N, R02W, SEC. 15, SENE, E1/2SE.

T25N, R02W, SEC. 16, SWSW.

T25N, R02W, SEC. 20, NENE.

T25N, R02W, SEC. 21, W1/2NW.

Crawford County, Advertised Price \$108,095.05, 119.9 Acres, Hardwood, Red Oak.

**SALE NOTE:** All units of volume listed for this sale were estimated using the Inventory Manager computer program and the new Michigan taper model.

- See sale spec 5.2.3.4 and 5.2.3.5 for oak wilt restrictions.

- See sale spec 2.2.2 and 2.2.3 for information on stump heights and chipping.

## TIMBER SALE INFORMATION

### Roundhouse Oak (72-011-21)

T25N, R02W, SEC. 14; T25N, R02W, SEC. 15; T25N, R02W, SEC. 16; T25N, R02W, SEC. 20; T25N, R02W, SEC. 21.  
Crawford County (Advertised Price \$108,095.05)

SALE NOTE: All units of volume listed for this sale were estimated using the Inventory Manager computer program and the new Michigan taper model.

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- See sale spec 2.2.2 and 2.2.3 for information on stump heights and chipping.

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 &amp; SPECIES</u>	<u>ESTIMATED UNITS*</u>	<u>ADVERTISED PRICE</u>
Sawtimber		
Red Oak	371.5 MBF	\$ 141.00 / MBF
Red Pine	47.7 MBF	\$ 89.00 / MBF
White Oak	52.1 MBF	\$ 64.00 / MBF
White Pine	8.6 MBF	\$ 63.00 / MBF
Pulpwood		
Mixed Aspen	93 Cords	\$ 25.70 / Cord
Mixed Hardwood	851 Cords	\$ 26.90 / Cord
Mixed Oak	824 Cords	\$ 24.65 / Cord
Red Pine	33 Cords	\$ 32.40 / Cord
White Pine	45 Cords	\$ 20.65 / Cord

\* The total volume is statistically estimated within plus (+) or minus (-) 4.39 percent. There are an estimated 3,074 cords on this timber sale, plus or minus 135 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 \$5,404.75 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:

<u>PAYMENT UNIT NUMBER</u>	<u>PERCENT OF TOTAL SALE VALUE</u>
01	6.3%
02	27.4%
03	36.7%
04	11.9%
05	17.7%

4. If no cutting takes place, the 10% down payment will not be refunded.
5. Operations on the contract issued will terminate on 09/30/2024.

### **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
242,867	3,074	4.39%	2,939	3,209

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.

	VOLUME			RANGE IN CORDS	
VDU	TOTAL CUBIC FEET	TOTAL CORDS	PERCENT ERROR	MINIMUM	MAXIMUM
53	89,633	1,135	6.88%	1,057	1,213
60	135,276	1,712	5.99%	1,610	1,815
61	17,957	227	17.72%	187	268
TOTAL:	242,867	3,074		2,853	3,295

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
53	46.2	4	18.6
		5	27.6
60	63.4	2	27.1
		3	36.3
61	10.3	1	10.3
TOTAL:	119.9		119.9

**DESCRIPTION OF TIMBER BY PU (PU)**

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE
1	Red Oak	Sawtimber	10.6	MBF	10.3	\$6,774.90
	<i>Bl/R/Hybrid Oak</i>		2.0	<i>MBF</i>		
	<i>Red Oak</i>		8.6	<i>MBF</i>		
	Red Pine	Pulpwood	14.2	MBF		
	White Pine		6.3	MBF		
	Mixed Aspen		10	Cords		
	<i>B. T. Aspen</i>		2.1	<i>MBF</i>		
	<i>B. T. Aspen</i>		6	<i>Cords</i>		
	Mixed Hardwood		36	Cords		
	<i>Red Maple</i>		1.7	<i>MBF</i>		
	<i>Red Maple</i>		33	<i>Cords</i>		
	Mixed Oak		45	Cords		
	<i>Bl/R/Hybrid Oak</i>		22	<i>Cords</i>		
	<i>Red Oak</i>		23	<i>Cords</i>		
	Red Pine		25	Cords		
	White Pine		23	Cords		
	<i>Jack Pine</i>		3	<i>Cords</i>		
	<i>White Pine</i>		20	<i>Cords</i>		
2	Red Oak	Sawtimber	137.2	MBF	27.1	\$29,637.30
	<i>Red Oak</i>		137.2	<i>MBF</i>		
	Red Pine	Pulpwood	10.7	MBF		
	White Oak		15.6	MBF		
	White Pine		0.6	MBF		
	Mixed Aspen		3	Cords		
	<i>B. T. Aspen</i>		3	<i>Cords</i>		
	Mixed Hardwood		43	Cords		
	<i>Red Maple</i>		1.7	<i>MBF</i>		
	<i>Red Maple</i>		40	<i>Cords</i>		
	Mixed Oak		277	Cords		
	<i>Red Oak</i>		227	<i>Cords</i>		
	<i>White Oak</i>		50	<i>Cords</i>		
	Red Pine		3	Cords		
	White Pine		7	Cords		
	<i>White Pine</i>		7	<i>Cords</i>		
3	Red Oak	Sawtimber	183.8	MBF	36.3	\$39,766.25
	<i>Red Oak</i>		183.8	<i>MBF</i>		
	Red Pine	Pulpwood	14.4	MBF		
	White Oak		20.8	MBF		
	White Pine		0.7	MBF		
	Mixed Aspen		4	Cords		
	<i>B. T. Aspen</i>		4	<i>Cords</i>		
	Mixed Hardwood		58	Cords		
	<i>Red Maple</i>		2.3	<i>MBF</i>		
	<i>Red Maple</i>		53	<i>Cords</i>		
	Mixed Oak		373	Cords		
	<i>Red Oak</i>		305	<i>Cords</i>		
	<i>White Oak</i>		68	<i>Cords</i>		
	Red Pine		4	Cords		
	White Pine		10	Cords		
	<i>White Pine</i>		10	<i>Cords</i>		
4	Red Oak	Sawtimber	16.1	MBF	18.6	\$12,815.50
	<i>Red Oak</i>		16.1	<i>MBF</i>		
	Red Pine		3.4	MBF		
	White Oak		6.3	MBF		
	White Pine		0.4	MBF		

**DESCRIPTION OF TIMBER BY PU (PU), CON'T**

PU	MARKET GROUP	PRODUCT	QUANTITY	UNIT	ACRES	ADVERTISE PRICE			
4 con't	Mixed Aspen	Pulpwood	30	Cords					
	B. T. Aspen	Sawtimber	0.9	MBF					
	Quaking Aspen		4.5	MBF					
	Quaking Aspen	Pulpwood	19	Cords					
	Mixed Hardwood		287	Cords					
	Black Cherry	Sawtimber	0.2	MBF					
	Red Maple		23.6	MBF					
	Black Cherry	Pulpwood	5	Cords					
	Red Maple		235	Cords					
	Mixed Oak		52	Cords					
	Red Oak		29	Cords					
	White Oak		23	Cords					
	White Pine		2	Cords					
	White Pine		2	Cords					
5	Red Oak	Sawtimber	23.8	MBF	27.6	\$19,101.10			
	Red Oak		23.8	MBF					
	Red Pine		5.0	MBF					
	White Oak		9.4	MBF					
	White Pine		0.6	MBF					
	Mixed Aspen	Pulpwood	46	Cords					
	B. T. Aspen	Sawtimber	1.4	MBF					
	Quaking Aspen		6.6	MBF					
	B. T. Aspen	Pulpwood	1	Cords					
	Quaking Aspen		29	Cords					
	Mixed Hardwood		427	Cords					
	Black Cherry	Sawtimber	0.3	MBF					
	Red Maple		35.1	MBF					
	Black Cherry	Pulpwood	7	Cords					
	Red Maple		349	Cords					
	Mixed Oak		77	Cords					
	Red Oak		42	Cords					
	White Oak		35	Cords					
	Red Pine		1	Cords					
	White Pine		3	Cords					
	White Pine		3	Cords					
	TOTAL:			479.9			MBF		
	TOTAL:			1,846			Cords		

## **Sale Specific Conditions & Requirements**

**Sale Name: Roundhouse Oak**

**Sale Number: 72-011-21 Seq#: 2**

### **1 - Sale Area**

#### **1.2 - Boundaries**

##### **1.2.1 - Painted boundaries (9/19)**

The sale boundary and Payment Unit boundaries are marked and identified by blue, red, and yellow paint or unmarked and identified by existing roads or recently harvested stand boundaries. Exterior sale boundary lines against private property are marked with blue paint. Exterior sale boundary lines against state are marked with red paint except, the west boundary of Payment Unit 4 is unmarked and identified by the recently cut stand as labeled on the Timber Sale Map. Interior Payment Unit boundaries are marked with yellow paint except, between Payment Units 4 and 5 the boundary is unmarked and identified by an unnamed forest road. Retention patches are marked with red paint; no harvesting activities may occur within these areas. The painted boundary line trees are not Included Timber and are to be protected. Yellow 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, 4, and 5, cut all trees that are two (2) inches or more at DBH, except for within Payment Unit 1 leave all white oak and within Payment Units 4 and 5 leave all green marked trees.

##### **2.1.5 - Overstory removal unit(s) (8/11)**

Within Payment Unit(s) 2 and 3, all trees which meet minimum piece specifications in 2.2 Utilization, are designated for cutting, except do not cut trees marked with green paint.

#### **2.2 - Utilization**

##### **2.2.2 - Chipping required (2/18)**

Payment Units 4 and 5 must be chip harvested to facilitate subsequent planting operations. The Purchaser has the option to produce sawlogs or pulpwood bolts, but the remaining portion of the trees must be chipped and hauled. Products may be produced as roundwood and forwarded to decking areas in final product length, but the tops must be left intact and skidded to the landing for chipping to minimize the amount of residual slash. If market conditions limit the practicality of chipping, tops and slash must be arranged in a way that will not inhibit future planting operations, as directed by the sale administrator. A chipping exemption can be obtained if proposed operations are determined to be suitable for planting by reforestation staff. This exemption must be granted in writing. The requirement to retain approximately 1/6 to 1/3 of tree tops and limbs less than four inches in diameter is still applicable (G. C. & R. 2.2).

##### **2.2.3 - Stump heights (4/07)**

Stump heights within Payment Unit(s) 4 and 5 shall not exceed 6 inches for all trees. This is to facilitate planting operations.

### **3 - Payments**

#### **3.4 - Damaged Timber**

##### **3.4.1 - Damaged timber (7/16)**

General Condition and Requirement 3.4 Damaged Timber, defines liquidated damages for undesignated live merchantable trees which are cut or injured. In addition, extreme care should be taken to avoid damage to tree seedlings and saplings in Payment Units 2 and 3.

Within Payment Units 2 and 3, if more than 30% of the tree seedlings or saplings (1/4" to 4.5" DBH) within a specified portion of the Sale Area are damaged, liquidated damages will be assessed at \$300 per acre for all acreage within that specified portion of the Sale Area that was damaged. Saplings cut cleanly in skid trails will not be counted as residual damage. No damage is acceptable to undesignated live merchantable trees. Rates will be in accordance with General Condition and Requirement 3.4 Damaged Timber.

## **4 - Transportation**

### **4.1 - Construction**

#### **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 upon completion of the sale. Overgrown roads that are reopened shall be considered new roads. 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.

#### **4.1.11 - Permits (2/12)**

The Purchaser will secure any necessary permits that may be required.

## **5 - Operations**

### **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**

##### **5.2.3.4 - Oak wilt restriction, no exceptions (1/18)**

Within Payment Unit(s) 1-3, cutting and skidding within the sale and brushing of access roads to the sale are not permitted during the period of April 15 to July 15. No exceptions will be granted. Hauling may be permitted if access roads are brushed prior to restricted period. This is necessary to reduce the spread of oak wilt.

##### **5.2.3.5 - Oak wilt restriction (1/18)**

Within Payment Unit(s) 4 and 5, unless changed by written agreement, cutting, skidding, hauling within the sale and brushing of access roads to the sale are not permitted during the period of April 15 to July 15. Operations may be allowed if specific steps are taken to prevent damaging uncut oak during the high risk period. Those steps may include completing all road brushing before April 15th and clearing a tree-length buffer along uncut oak cover before April 15th. This is necessary to reduce the spread of oak wilt. For more information, contact the Unit Manager or his/her representative.

#### **5.2.29 - Shrub protection (1/20)**

In Payment Units 2 and 3, reasonable care should be taken to avoid cutting or damaging hawthorn, witch-hazel, or junberry. These woody-shrub plants are highly beneficial to various wildlife species.

#### **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.

### **5.8 - 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 March 15 to July 15 (NLP). 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 Durant Castle Road and 7 Mile 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.



**TIMBER SALE MAP**

This information provided by authority of Part 525, 1994 PA 451, as amended.

Sale Number	Year
72 - 011	21

Forest Management Unit	County	Mapped By	Date	Page	of
Grayling	Crawford	Scott McClarren	10/05/2021	1	2
Township	Range	Section(s) and Subdivision(s)	Scale		
25N	02W	Sec. 14 W1/2SW, Sec. 16 SWSW, Sec. 15 SENE, E1/2SE, Sec. 20 NENE, Sec. 21 W1/2NW	1:7,920		

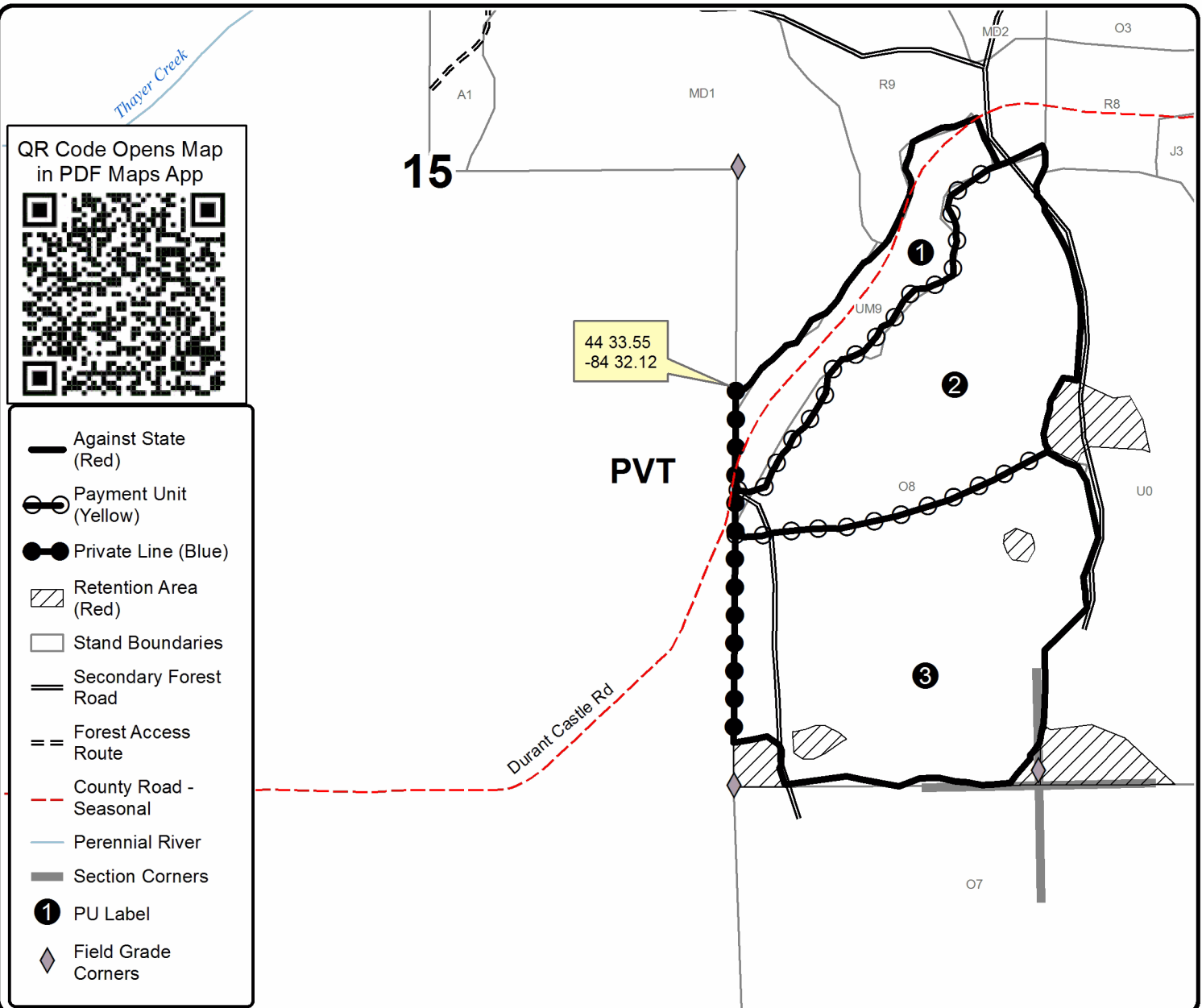
Cover Type				Density	
A = Aspen	H = Hemlock	N = Marsh	U = Upland Brush	0 = Non Stocked	5 = Pole Timber Medium
B = Paper Birch	J = Jack Pine	O = Oak	UM = Upland Mixed	1 = Seedling Sapling Poor	6 = Pole Timber Well
C = Cedar	L = Lowland Brush	P = Lowland Poplar	V = Bog or Marsh	2 = Seedling Sapling Medium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

PU	Acres	PU	Acres
1	10.3	4	18.6
2	27.1	5	27.6
3	36.3		

## Roundhouse Oak

### Compartment 297

119.9 Acres



**TIMBER SALE MAP***This information provided by authority of Part 525, 1994 PA 451, as amended.*

Sale Number	Year
72 - 011	21

Forest Management Unit Grayling	County Crawford	Mapped By Scott McClarren	Date 10/05/2021	Page 2	of 2
Township 25N	Range 02W	Section(s) and Subdivision(s) Sec. 14 W1/2SW, Sec. 16 SWSW, Sec. 15 SENE, E1/2SE, Sec. 20 NENE, Sec. 21 W1/2NW	Scale 1:7,920		

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G = Grass	MD = Mixed Deciduous	T = Tamarack			

PU	Acres	PU	Acres
1	10.3	4	18.6
2	27.1	5	27.6
3	36.3		

## Roundhouse Oak

### Compartment 297

119.9 Acres



QR Code Opens Map  
in PDF Maps App



- Against State (Red/Unmarked)
- Payment Unit (Unmarked Road)
- Private Line (Blue)
- ▨ Retention Area (Red)
- Stand Boundaries
- Secondary Forest Road
- County Road - Seasonal
- Temporary Management Access
- Section Corners
- ⊕ Berms
- ◆ Field Grade Corners
- ① PU Label

Boundary is unmarked and identified by recently cut stand without merchantable trees but, is red around retention island

Payment Unit boundary is unmarked and identified by unnamed forest road

44 33.29  
-84 33.98

7 Mile Rd

PVT

0 0.125 0.25 0.5 0.75 Miles