



**TIMBER MARKETING & MANAGEMENT INC.**

*Professional Forestry Consultants*

P.O. Box 396

Chesterfield, VA 23832

Ph (804) 796-9622

Fax (804) 796-9693

www.tmmva.com

Sale Date:	<b>December 18, 2018</b>		
Time:	11:00 a.m.		
Day:	Tuesday		
	<b>SC</b>	<b>CC</b>	
Total Vol./Acre:	<b>5,342</b>	<b>4,224</b>	<b>B. F.</b>
Pine Vol/Tree:	<b>124</b>	<b>96</b>	<b>B. F.</b>
Hdwd. Vol/Tree:	<b>554</b>	<b>125</b>	<b>B. F.</b>

**SELECT CUT & CLEAR CUT SALE  
EXCELLENT QUALITY HARDWOOD & GOOD ACCESS**

Having been employed by **David Fratkin** we solicit bids on blue mark timber on **36 +/- acres** shown as the select cut area and on all merchantable timber on **5 +/- acres** shown as the clear cut area on the attached map and located in **Goochland County Virginia**.

We have made a 7.5% cruise of the pulpwood trees to be harvested. Our estimate of their volume is:

<u>Pulpwood</u>	<u>Cords</u>	<u>Tons</u>
Pine	25	65
Soft Hardwood	9	23
Hard Hardwood	<u>17</u>	<u>44</u>
<b>Total:</b>	<b>51</b>	<b>133</b>

We have made a 100% count of the sawtimber-size trees to be harvested. Our estimate of their volume is:

**Sawtimber**

	<u>Select Cut</u>	<u>Clear Cut</u>	<u>Total</u>
White Oak	75,600	1,400	77,000
Poplar	52,300	2,000	54,300
Northern Red Oak	29,100	0	29,100
Red Oak	14,300	5,100	19,400
Virginia Pine	1,300	11,000	12,300
Hickory	10,600	0	10,600
Gum	4,500	500	5,000
Ash	3,200	0	3,200
Loblolly Pine	1,000	1,200	2,200
Maple	<u>300</u>	<u>0</u>	<u>300</u>
	<b>192,200</b>	<b>21,200</b>	<b>213,400 BF Int 1/4" Scale</b>

The above volumes are not guaranteed; however, care was taken in the field to assemble the above tables. You should note how your utilization practices may vary from the above and make any necessary adjustments.

**Veneer**

Included in the volumes are high quality trees that, from our review, will be of high enough quality that a veneer cut can be obtained. The veneer volume is estimated to be:

**Red Oak                      231 BF Doyle Scale**  
**White Oak                  4,559 BF Doyle Scale**

We have enclosed a detailed analysis of the veneer logs for your review. Please note that the veneer volumes are an aid and you should review the trees and make your own adjustments as you see necessary. The veneer trees have been individually numbered and painted with a ring of red paint around the entire tree.

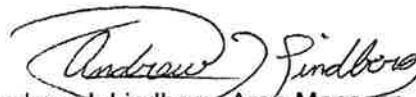
## Conditions

1. The landowner assumes responsibility for compliance with the Virginia State Seed Tree Law.
2. A period of time of **18 months** will be allowed to cut and remove the timber.
3. Roads **must** be maintained and restored to their original condition upon completion of the logging. Any newly constructed roads and decks must be left in a graded condition and must be seeded upon completion of logging. Any newly constructed haul roads, skid roads and log decks and all logging operations must be in accordance with the guidelines set out in the **Best Management Practices Manual** of the Virginia Department of Forestry.
4. No tops or laps will be allowed to remain in the streams, fields, buffers or over cutting boundaries. They must be pulled back immediately.
5. Only the blue marked trees are to be cut from Streamside Management Zones.
6. No logging will be permitted during excessively wet weather conditions as determined by Timber Marketing & Management, Inc. If logging is halted due to weather conditions, then an extension of time equal to the time lost will be granted.
7. A **\$2,000.00** performance bond will be paid at closing and held by Timber Marketing & Management, Inc. to insure compliance with all BMP requirements, road maintenance and conditions of the Timber Purchase Contract.

Only sealed bids will be accepted and owners reserve the right to reject any or all bids. BIDS SHOULD BE SUBMITTED PRIOR TO THE TIME OF BID OPENING AND CAN BE SUBMITTED VIA: Mail to: Timber Marketing & Management, Inc. P. O. Box 396, Chesterfield, Virginia 23832 **OR** hand delivered to 9520 Ironbridge Road, Chesterfield, Virginia **OR** telephoned in to 804-796-9622 **OR** faxed to 804-796-9693 **OR** emailed to tmm4u@aol.com Bids must be made on a lump-sum basis and must be received at this address no later than the posted bid date and time as shown on the cover.

There will not be any scheduled show trip of the tract; however, you may call and set an appointment or you may inspect the property at your own leisure.

Sincerely,  
Timber Marketing & Management, Inc.



Andrew J. Lindberg, Area Manager  
804-796-9622 office  
804-338-8436 mobile

## Fratkin Select Cut

### Timber Marketing & Management, Inc.

Professional Forestry Consultants

P.O. Box 396

Chesterfield, VA 23832-0000

Phone: (804) 796-9622 • Fax: (804) 796-9693

Sawtimber Cruise: 100.0%

Veneer Cruise: 100.0%

Cruise Date: Tuesday, November 13, 2018

Owner's Name: Fratkin

County/State: Goochland County, VA

Acreage: 36+/-

Cruise Type: Tree Count

Harvest Type: Select Cut

Total BF/Acre: 5,342

Pine Vol/Tree: 123.9

Hardwood Vol/Tree: 553.8

#### Volume Legend:

- 1) Diameters shown in inches (DBH)
- 2) Logs measured in 16' increments
- 3) Sawtimber volumes are shown in thousands of board feet (MBF)
- 4) Volume scale used for each species of sawtimber is noted
- 5) Pulpwood volumes are shown in standard cords (128 cubic feet)

#### Comments:

#### Ash - Sawtimber International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
16		1				1	0.2	5.9%
18		1				1	0.2	7.7%
20		1				1	0.3	9.8%
22		2				2	0.8	24.0%
24	1			1		2	1.0	32.3%
28		1				1	0.7	20.3%
<b>Total</b>	<b>1</b>	<b>6</b>		<b>1</b>		<b>8</b>	<b>3.2</b>	

#### Gum - Sawtimber International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
22		2	3	1		6	3.0	66.1%
26			2			2	1.5	33.9%
<b>Total</b>		<b>2</b>	<b>5</b>	<b>1</b>		<b>8</b>	<b>4.5</b>	

#### Hickory - Sawtimber International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
18		1				1	0.2	2.3%
20		5	2			7	2.4	22.8%
22		1	7	1		9	4.7	44.5%
24	1		2			3	1.6	14.6%
26			1			1	0.8	7.2%
28			1			1	0.9	8.5%
<b>Total</b>	<b>1</b>	<b>7</b>	<b>13</b>	<b>1</b>		<b>22</b>	<b>10.6</b>	

#### Loblolly Pine - Sawtimber International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
10		1				1	0.1	5.8%
12			1			1	0.1	11.8%
14		1	1			2	0.3	32.1%
16			2			2	0.5	50.3%
<b>Total</b>		<b>2</b>	<b>4</b>			<b>6</b>	<b>1.0</b>	

#### Maple - Sawtimber International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
20		1				1	0.3	100.0%
<b>Total</b>		<b>1</b>				<b>1</b>	<b>0.3</b>	

#### Northern Red Oak - Sawtimber International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
16		1				1	0.2	0.7%
18		1	1			2	0.6	2.0%
20		9	1	1		11	3.8	13.0%
22		4	1			5	2.1	7.1%
24		3	3			6	3.3	11.5%
26		4	5			9	6.1	20.9%
28		4	6			10	8.0	27.7%
30		1	1			2	1.8	6.2%
32		1	1			2	2.1	7.2%
36		1				1	1.1	3.9%
<b>Total</b>		<b>29</b>	<b>19</b>	<b>1</b>		<b>49</b>	<b>29.1</b>	

#### Poplar - Sawtimber International 1/4 Scale

Number of Logs								
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total
14		1				1	0.1	0.3%
16		1		1		2	0.5	0.9%
18		1	1			2	0.6	1.1%
20		1	4	3		8	3.6	6.8%
22		2	14	10		26	14.5	27.8%
24	1	1	4	7	3	16	11.4	21.8%
26			3	5	1	9	8.0	15.4%
28			4	3		7	6.9	13.2%
30		1	2	2		5	5.4	10.3%
32			1			1	1.2	2.3%
<b>Total</b>	<b>1</b>	<b>8</b>	<b>33</b>	<b>31</b>	<b>4</b>	<b>77</b>	<b>52.3</b>	

## Fratkin Select Cut

### Timber Marketing & Management, Inc.

Cruise Date: Tuesday, November 13, 2018  
 Owner's Name: Fratkin  
 County/State: Goochland County, VA

#### Red Oak - Sawtimber International 1/4 Scale

Number of Logs									
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total	
18		2	1			3	0.8	5.8%	
20		12	1			13	4.2	29.2%	
22	1	1	4			6	2.7	19.0%	
24	1	5	1			7	3.3	22.7%	
26		3	1			4	2.4	17.0%	
28			1			1	0.9	6.3%	
<b>Total</b>	<b>2</b>	<b>23</b>	<b>9</b>			<b>34</b>	<b>14.3</b>		

#### Virginia Pine - Sawtimber International 1/4 Scale

Number of Logs									
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total	
10	2					2	0.1	5.4%	
12	2	1				3	0.2	15.3%	
14	2	5				7	0.9	65.1%	
16		1				1	0.2	14.2%	
<b>Total</b>	<b>6</b>	<b>7</b>				<b>13</b>	<b>1.3</b>		

#### White Oak - Sawtimber International 1/4 Scale

Number of Logs									
DBH	1-Log	2-Log	3-Log	4-Log	5-Log	# Trees	Volume	% of Total	
14		1				1	0.1	0.2%	
16		1				1	0.2	0.3%	
18	1	6	1			8	2.0	2.6%	
20	1	13	13	1		28	10.3	13.7%	
22		14	19	3		36	17.4	23.0%	
24		20	13	3		36	20.1	26.6%	
26	1	10	9	4		24	16.5	21.9%	
28		3	2			5	3.8	5.0%	
30		2	1			3	2.6	3.4%	
32		1				1	0.9	1.2%	
38			1			1	1.8	2.3%	
<b>Total</b>	<b>3</b>	<b>71</b>	<b>59</b>	<b>11</b>		<b>144</b>	<b>75.6</b>		

#### Sawtimber Volume by Timber Type

Timber Type	# Trees	Volume	Avg BF/Tree	% of Total
Hardwood	343	190.0	553.8	98.8%
Pine	19	2.4	123.9	1.2%
<b>Total</b>	<b>362</b>	<b>192.3</b>	<b>531.3</b>	

#### Sawtimber Volume by DBH

DBH	# Trees	Volume	Avg BF/Tree	% of Total
10	3	0.1	43.7	0.1%
12	4	0.3	81.0	0.2%
14	11	1.5	134.5	0.8%
16	8	1.8	220.9	0.9%
18	17	4.5	262.6	2.3%
20	69	24.9	360.8	12.9%
22	90	45.2	502.2	23.5%
24	70	40.7	581.1	21.2%
26	49	35.4	721.9	18.4%
28	25	21.2	847.0	11.0%
30	10	9.8	977.6	5.1%
32	4	4.2	1,041.5	2.2%
36	1	1.1	1,121.0	0.6%
38	1	1.8	1,772.0	0.9%
<b>Total</b>	<b>362</b>	<b>192.3</b>	<b>531.3</b>	

#### Sawtimber Volume by Species

Species	# Trees	Volume	Avg BF/Tree	% of Total
Ash	8	3.2	402.4	1.7%
Gum	8	4.5	566.3	2.4%
Hickory	22	10.6	482.6	5.5%
Loblolly Pine	6	1.0	169.7	0.5%
Maple	1	0.3	314.0	0.2%
Northern Red Oak	49	29.1	593.3	15.1%
Poplar	77	52.3	679.3	27.2%
Red Oak	34	14.3	422.0	7.5%
Virginia Pine	13	1.3	102.8	0.7%
White Oak	144	75.6	524.7	39.3%
<b>Total</b>	<b>362</b>	<b>192.3</b>	<b>531.3</b>	

## Fratkin Select Cut

### Timber Marketing & Management, Inc.

Cruise Date: Tuesday, November 13, 2018  
 Owner's Name: Fratkin  
 County/State: Goochland County, VA

#### Red Oak - Veneer Doyle (Butt Log Scale)

DBH	Butt Log Length										# Logs	Volume	% of Total
	8'	10'	12'	14'	16'	18'	20'	22'	24'				
24					1						1	231	100.0%
<b>Total</b>					1						1	231	

#### White Oak - Veneer Doyle (Butt Log Scale)

DBH	Butt Log Length										# Logs	Volume	% of Total
	8'	10'	12'	14'	16'	18'	20'	22'	24'				
20		1			2						3	384	8.4%
22	1		1								2	238	5.2%
24	1		5		2		1				9	1,731	38.0%
26	1				5						6	1,574	34.5%
28		1									1	232	5.1%
30											1	400	8.8%
<b>Total</b>	3	2	6		10		1				22	4,559	

30	1	400	400.0	8.4%
<b>Total</b>	23	4,790	208.3	

#### Veneer Volume by Species

Species	# Trees	Volume	Avg BF/Log	% of Total
Red Oak	1	231	231.0	4.8%
White Oak	22	4,559	207.2	95.2%
<b>Total</b>	23	4,790	208.3	

#### Veneer Tag List

Tag	Species	DBH	Butt Log Length
A1	White Oak	26	16'
A10	White Oak	22	12'
A11	White Oak	30	16'
A2	White Oak	26	8'
A3	White Oak	26	16'
A4	Red Oak	24	16'
A5	White Oak	20	16'
A6	White Oak	24	20'
A7	White Oak	26	16'
A8	White Oak	20	16'
A9	White Oak	24	16'
M1	White Oak	24	12'
M10	White Oak	24	8'
M11	White Oak	28	10'
M2	White Oak	20	10'
M3	White Oak	24	12'
M4	White Oak	26	16'
M5	White Oak	24	12'
M6	White Oak	24	16'
M7	White Oak	22	8'
M8	White Oak	26	16'
M9	White Oak	24	12'
S1	White Oak	24	12'

#### Veneer Volume by DBH

DBH	# Trees	Volume	Avg BF/Log	% of Total
20	3	384	128.0	8.0%
22	2	238	119.0	5.0%
24	10	1,962	196.2	41.0%
26	6	1,574	262.3	32.9%
28	1	232	232.0	4.8%

## Fratkin Clear Cut

### Timber Marketing & Management, Inc.

Professional Forestry Consultants

P.O. Box 396

Chesterfield, VA 23832-0000

Phone: (804) 796-9622 • Fax: (804) 796-9693

Pulpwood Cruise: 7.5%

Sawtimber Cruise: 100.0%

Cruise Date: Tuesday, November 13, 2018

Owner's Name: Fratkin

County/State: Goochland County, VA

Acreage: 5+/-

Cruise Type: Tree Count

Harvest Type: Clear Cut

Total BF/Acre: 4,224

Pine Vol/Tree: 96.4

Hardwood Vol/Tree: 124.6

#### Volume Legend:

- 1) Diameters shown in inches (DBH)
- 2) Logs measured in 16' increments
- 3) Sawtimber volumes are shown in thousands of board feet (MBF)
- 4) Volume scale used for each species of sawtimber is noted
- 5) Pulpwood volumes are shown in standard cords (128 cubic feet)

#### Comments:

#### Pulpwood

Standard Cord

DBH	Wood Classification							
	Pine		Soft Hardwood		Hard Hardwood		Cedar	
	# Trees	Volume	# Trees	Volume	# Trees	Volume	# Trees	Volume
6	53	2			107	4		
8	80	8	40	3	93	7		
10	67	11	27	4	40	5		
12	13	4	13	3				
<b>Total</b>	<b>213</b>	<b>25</b>	<b>80</b>	<b>9</b>	<b>240</b>	<b>17</b>		

#### Gum - Sawtimber

International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
12	1					1	0.1	10.6%
14		2				2	0.3	53.4%
16		1				1	0.2	36.0%
<b>Total</b>	<b>1</b>	<b>3</b>				<b>4</b>	<b>0.5</b>	

#### Loblolly Pine - Sawtimber

International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
10	3					3	0.1	9.2%
12	1	2				3	0.2	20.5%
14		1				1	0.1	12.0%
16			1			1	0.3	21.8%
20			1			1	0.4	36.4%
<b>Total</b>	<b>4</b>	<b>3</b>	<b>2</b>			<b>9</b>	<b>1.2</b>	

#### Poplar - Sawtimber

International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
12	8					8	0.4	22.2%
14	1	6				7	0.9	46.1%
16	1	1				2	0.3	15.0%
18			1			1	0.3	16.7%
<b>Total</b>	<b>10</b>	<b>7</b>	<b>1</b>			<b>18</b>	<b>2.0</b>	

#### Red Oak - Sawtimber

International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
12	13					13	0.7	14.4%
14	8	1				9	0.8	15.9%
16	4	3				7	1.0	20.1%
18	1	7				8	1.9	37.2%
20		2				2	0.6	12.4%
<b>Total</b>	<b>26</b>	<b>13</b>				<b>39</b>	<b>5.1</b>	

#### Virginia Pine - Sawtimber

International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
10	36					36	1.3	11.8%
12	21	17				38	2.7	25.0%
14	9	15	1			25	3.0	27.8%
16	2	9	2			13	2.4	22.3%
18		3				3	0.7	6.8%
20		1				1	0.3	2.9%
22		1				1	0.4	3.5%
<b>Total</b>	<b>68</b>	<b>46</b>	<b>3</b>			<b>117</b>	<b>11.0</b>	

#### White Oak - Sawtimber

International 1/4 Scale

DBH	Number of Logs					# Trees	Volume	% of Total
	1-Log	2-Log	3-Log	4-Log	5-Log			
12	2					2	0.1	8.2%
14	3	2				5	0.5	38.7%
16	2	1				3	0.4	30.2%
20		1				1	0.3	22.9%
<b>Total</b>	<b>7</b>	<b>4</b>				<b>11</b>	<b>1.4</b>	

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## Fratkin Clear Cut

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Timber Marketing & Management, Inc.

Cruise Date: Tuesday, November 13, 2018  
Owner's Name: Fratkin  
County/State: Goochland County, VA

### Sawtimber Volume by Timber Type

<u>Timber Type</u>	<u># Trees</u>	<u>Volume</u>	<u>Avg BF/Tree</u>	<u>% of Total</u>
Hardwood	72	9.0	124.6	42.5%
Pine	126	12.1	96.4	57.5%
Total	198	21.1	106.7	

### Sawtimber Volume by DBH

<u>DBH</u>	<u># Trees</u>	<u>Volume</u>	<u>Avg BF/Tree</u>	<u>% of Total</u>
10	39	1.4	36.0	6.6%
12	65	4.3	66.5	20.5%
14	49	5.7	117.1	27.2%
16	27	4.6	171.3	21.9%
18	12	3.0	246.7	14.0%
20	5	1.7	336.6	8.0%
22	1	0.4	387.0	1.8%
Total	198	21.1	106.7	

### Sawtimber Volume by Species

<u>Species</u>	<u># Trees</u>	<u>Volume</u>	<u>Avg BF/Tree</u>	<u>% of Total</u>
Gum	4	0.5	132.0	2.5%
Loblolly Pine	9	1.2	130.2	5.5%
Poplar	18	2.0	111.9	9.5%
Red Oak	39	5.1	129.7	24.0%
Virginia Pine	117	11.0	93.8	52.0%
White Oak	11	1.4	124.6	6.5%
Total	198	21.1	106.7	

**FRATKIN TRACT  
GOOCHLAND, VA  
56+/- ACRES**

**BRIESMASTER WAY  
(Access to Rt. 6)**

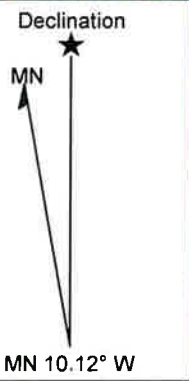
**GATE**

**CLEAR CUT**

**Select-Cut  
Outlined in Yellow**

**OUT**

**ACREAGE SUMMARY**  
**CLEAR CUT: 5+/- ACRES**  
**SELECT CUT: 36+/- ACRES**  
**ACROSS POND (OUT): 6+/- ACRES**  
**POND: 8+/- ACRES**  
**TOTAL ACREAGE: 55+/- ACRES**



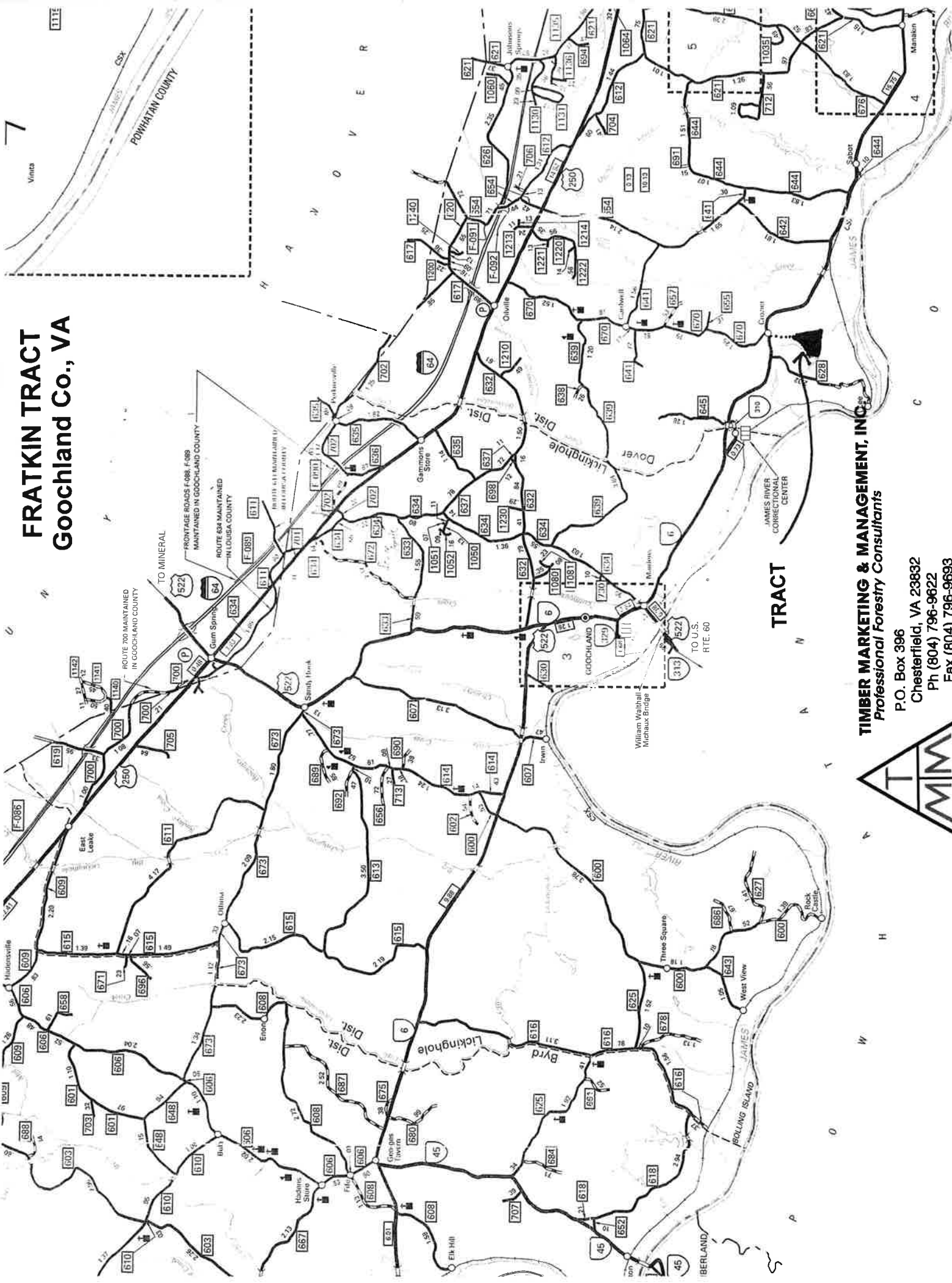
**TIMBER MARKETING & MANAGEMENT INC.**  
*Professional Forestry Consultants*  
P.O. Box 396  
Chesterfield, VA 23832  
Ph (804) 796-9622  
Fax (804) 796-9693  
www.tmmva.com

Name: FRATKIN  
Date: 11/29/18  
Scale: 1 inch = 500 ft.

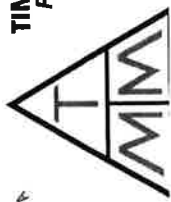
Location: 037° 37' 40.8184" N, 077° 48' 04.0939" W  
Caption: <<Type caption here.>>



# FRATKIN TRACT Goochland Co., VA



# TRACT



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