

**Massachusetts Department of Conservation and Recreation  
Division of Water Supply Protection, Office of Watershed Management  
*Forest Management Project Summary***

**Project Title: Granger Rd and Adams Rd**

DWSP Harvest Permit Number: 4401

DWSP Proposal ID: WR-19-19-2

DCR Forest Cutting Plan File Number: 021-27857-20

***Site Information***

Watershed: Ware River Watershed

Town(s): Barre

Acres: 11

Nearest Road: Granger Rd

Natural Heritage Atlas overlap?: No

Public Drinking Water Supply Watershed?: Yes

Forest Types: White pine/hardwood, oak/hardwood

Area of Critical Environmental Concern (ACEC)?: No

Soils: 910C Woodbridge-Paxton, 925E Charlton-Chatfield-Hollis, 926C Charlton-Chatfield, and 902E Charlton-Paxton

Wetland Resources: Several unnamed intermittent streams and associated wetlands are adjacent to the harvest area.

Vernal Pools: A vernal pool is present outside of the harvest area within 200 feet.

***Harvest Information***

Harvest Start Date: 10/17/22

Harvest End Date: 11/14/2022

Number of Wetland Crossings: None

Number of Stream Crossings: There is one stream crossing that will be bridged.

***Best Management Practices Applied***

Stream Crossings: There is one stream crossing that will be bridged.

Filter Strips: There is harvesting in a filter strip.

Wetland Crossings: There are no wetland crossings.

Harvesting in Wetlands: There is no harvesting in wetlands.

***DWSP Forester supervising this harvest***

Name: Ken Canfield

Forester License number: 431

Phone number: 857 274 7090

Email: [Kenneth.canfield@mass.gov](mailto:Kenneth.canfield@mass.gov)

## **Narrative**

### ***General Description/Forest Composition/History***

The harvest area is located in the town of Barre, northwest of Granger Rd where it intersects Adams Rd. It consists of a white pine/hardwood stand and an oak/hardwood stand.

Tree species present in the overstory of the pine/hardwood stand are white pine, red maple, black cherry, yellow birch, hemlock, red and white oak, and red pine. The understory consists of black birch, red maple, hemlock, American beech, yellow birch, striped maple, white and red oak, and white ash.

Tree species present in the overstory of the oak/hardwood stand are red oak, black cherry, white oak, red maple, and white pine. The understory consists of hemlock, red maple, white pine, red oak, and black birch.

Glossy buckthorn and Japanese barberry are present but not well established in the harvest area near Granger Rd. Some stems were hand pulled during tree marking.

The soils are well drained to moderately well drained.

### ***Site Selection***

The primary goal of the watershed forest management program is to create and maintain a forest that provides high quality drinking water to current users and future generations. A healthy and resilient forest is comprised of diverse native tree and shrub species and multiple age classes of trees.

This area was chosen because there is an abundance of low quality, old field white pine.

### ***Silvicultural Objectives***

The goal of this harvest is to reduce the amount of mature, low quality, old field white pine in the area. These types of stands are prevalent in the Ware River Watershed due to historical agricultural land use in the area. These stands generally consist of a single dominant species (white pine) with dominant trees that are all the same age because they all started when the pastureland was abandoned around the early 1900s. The white pine is usually very low quality due to its open growing conditions and the effects of the white pine weevil, back when the dominant trees were seedlings and saplings. The regeneration that is already present under these stands is generally much more diverse in terms of species composition. These low quality white pine stands will be harvested in patches so that regeneration has plenty of sunlight to grow.

### ***Cultural Resources***

Standard practice dictates that every effort is made to avoid disturbing stone walls and other cultural resources.

### ***Rare or Endangered Species***

Natural Heritage Endangered Species Program (NHESP) does not show any rare habitat within the harvest area.

### **Figures**

- Figure 1 Final Forest Cutting Plan
- Figure 2 A-C Pre-Harvest photos 1-3 from Granger Rd taken 8/25/20
- Figure 3 A-C Post-Harvest photos 1-3 from Granger Rd taken on 11/14/22
- Figure 4 A-C After 1 growing season photos 1-3 from Granger Rd taken on 7/13/23



Forest Products

**Products to be Harvested\***

Species	Mbf/Cds		Mbf/Cds
White Pine	25.5 Mbf	Red Maple	1 MM50 Cds
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	6.8 Mbf
Hemlock	0.2 Mbf	Black Oak	0.8 Mbf
Spruce		White Oak	
Other Softwd.		Other Hdwd	11 Cds
White Ash		<b>Total Mbf</b>	<b>34.3</b>
Beech		<b>Cordwood (Cds)</b>	<b>95</b>
White Birch		<b>SW Pulp (Tons)</b>	<b>761</b>
B & Y Birch	14 Cds	<b>HW Pulp (Tons)</b>	<b>40</b>
Black Cherry	12 Cds	<b>Chips (Tons)</b>	<b>801</b>

\*Note: Volumes indicated in the Plan are as reported by the plan preparer and have not been independently verified by the service forester upon approval. Mbf = thousand board feet.

Stand Treatment

**Cutting Standards**

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WH	WH	OH	
Acres	4.3	5.6	0.6	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	CT	
Type of Cut	CC	SE	SE	
Source of Regeneration	SE	SE	SE	

Landowner

**Landowner Signature**

The most important information on a cutting plan is the Landowner's objective, as this will determine which trees will be harvested and which will remain; **this decision will also determine the future condition of the forest for decades to come.** After having read the Massachusetts Forest Cutting Plan Information Sheet on page one, indicate your objective by checking the appropriate box below.

**LT - Long-term Forest Management**

Planned management of the forest to achieve one or more of the following objectives: produce immediate and maximize long-term income, enhance wildlife habitat, improve recreational opportunities, protect soil and water quality, or produce forest specialty products.

**ST - Short-term Harvest**

Harvest of trees with the main intention of producing short-term income with minimal consideration given to improving the future forest condition, which often results in a forest dominated by poor quality and low value species.

I (we) have read the Massachusetts Cutting Plan Information Sheet, and am aware of my (our) management options.

I (we) hereby certify that I (we) have the legal authority to carry out the operation described above.

I (we) certify that I (we) have notified the Conservation Commission in the town in which the operation is to take place and the abutters of record within two hundred feet of the area to be harvested.

I (we) understand that the volumes in this plan have not been independently verified by the service forester upon approval and will report final values and volumes to the Director or his/her agent if the final figures differ from those reported.

  
Signature of landowner(s)

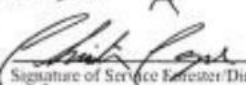
5-18-2020  
Date

Service Forester

**Determination and Status** 021-27857-20

**Final Report and Comments**

Approved  Disapproved  Expires 6/1/22

  
Signature of Service Forester/Director's Agent

6/8/20  
Date

I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.

  
Signature of Service Forester/Director's Agent

12/8/2022  
Date

Extension 1  2  Expires \_\_\_\_\_ Set. For. Ints. \_\_\_\_\_

Amendment App 1  Dis 1  App 2  Dis 2  \_\_\_\_\_

Codes

Forest Types				Designation of Trees		Type of Cut		Source of Regeneration				
WP	White Pine	HK	Hemlock	OM	Mixed Oak	SH	Shelterwood	Intermediate Harvests:	AD	Advanced		
WK	WP-Hem	HH	Hem-Hemlock	RM	Red Maple	ST	Seed Tree	CT	Commercial Thin	SE	Natural Seed	
WH	WP-Hemlock	BC	Black Cherry	BE	Beech	CC	Clear Cut	NT	Non-Com Thin	PL	Plant	
WO	WP-Oak	BB	Beech-Birch-Maple	SF	Spruce-Fir	OT	Other	SE	Selection	Non-Standard Systems:*	CO	Coppice
RP	Red Pine	OH	Oak-Hemlock	SM	Sugar Maple	SA	Salvage	HG	Highgrade*	DS	Direct Seed	
SK	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt	DL	Diameter Limit*	OT	Other	
						ST	Short-term Har.	OT	Other*			

\*If Other (OT) or a non-standard system is used an explanation must be given on attached narrative page pg 4 of 5

# Forest Cutting Plan

Narrative Page (Effective Date: 3/15/16)

Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4.

Landowner DCR - DWSP

Town Barre

File Number 021-27851-20

BMPs

Use this Section to provide further explanation or if Other (OT) was used in any category in the Best Management Practices Section on Page 3.

Stand 1 is a 4.3 acre clearcut of an old field white pine/hardwood stand. Stand 2 is four group selection patch cuts in an old field white pine/hardwood stand. The patches are 0.8, 1.4, 1.5, and 1.9 acres in size. Stand 3 is a 0.6 acre group selection patch cut in an oak/hardwood stand.

Designation of Trees

Use this Section to describe the types of trees to be harvested and/or retained if Other (OT) was used for "Designation of Trees" in the Stand Treatment Section on page 4. Additional narrative description may be added on a separate page.

Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Left

Regeneration & Future Condition

Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HIG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

Stand No.	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtained/protected? If using AD - Describe the species present and how the regeneration will be protected If using SE - Describe the source of the seed and the number of seed trees/acre

Stand No. **Desired Future Condition**  
Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory

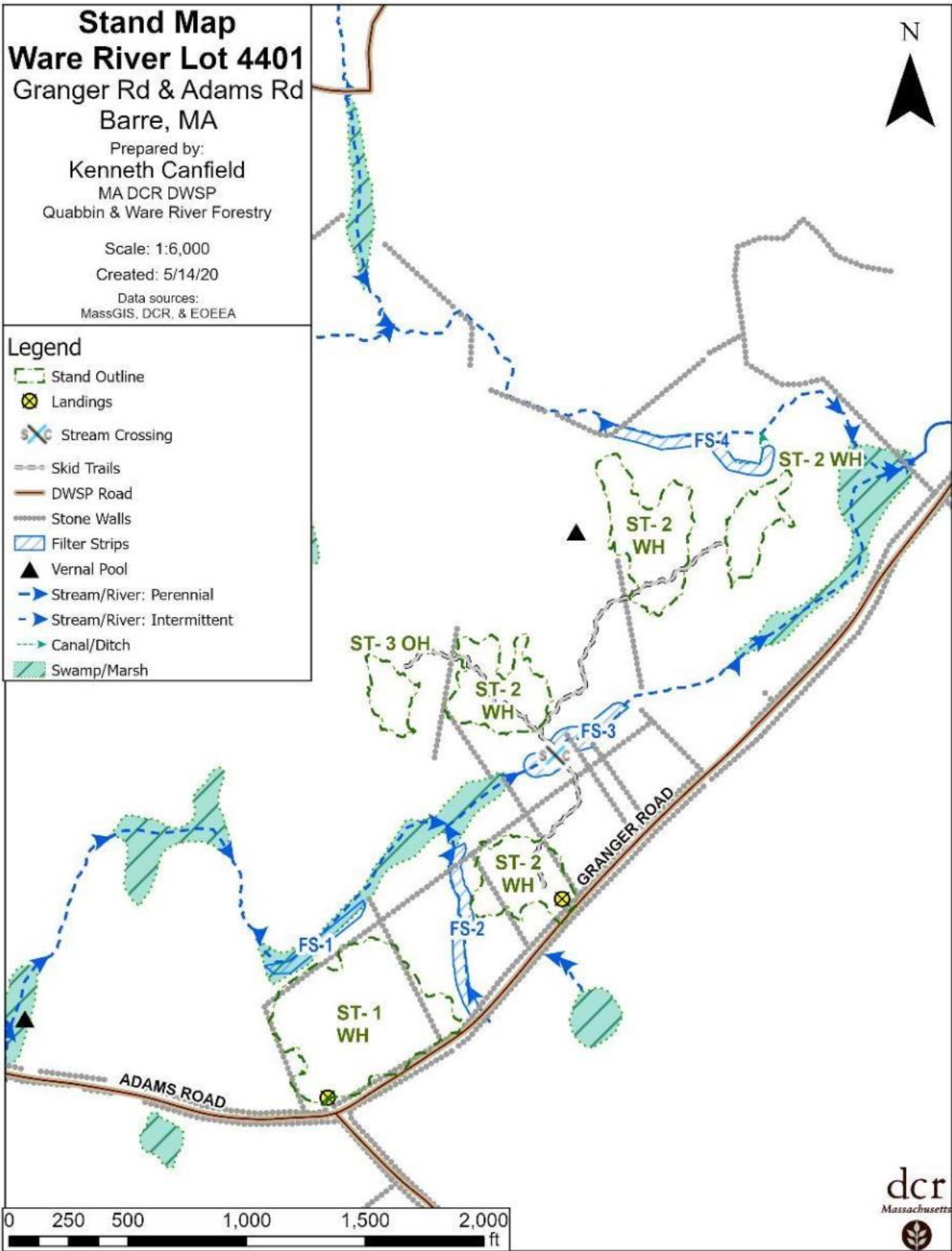

**Stand Map**  
**Ware River Lot 4401**  
 Granger Rd & Adams Rd  
 Barre, MA

Prepared by:  
**Kenneth Canfield**  
 MA DCR DWSP  
 Quabbin & Ware River Forestry

Scale: 1:6,000  
 Created: 5/14/20  
 Data sources:  
 MassGIS, DCR, & EOEEA



- Legend**
- Stand Outline
  - Landings
  - Stream Crossing
  - Skid Trails
  - DWSP Road
  - Stone Walls
  - Filter Strips
  - Vernal Pool
  - Stream/River: Perennial
  - Stream/River: Intermittent
  - Canal/Ditch
  - Swamp/Marsh



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**Locus Map**  
**Ware River Lot # 4401**  
**MA DCR DWSP**

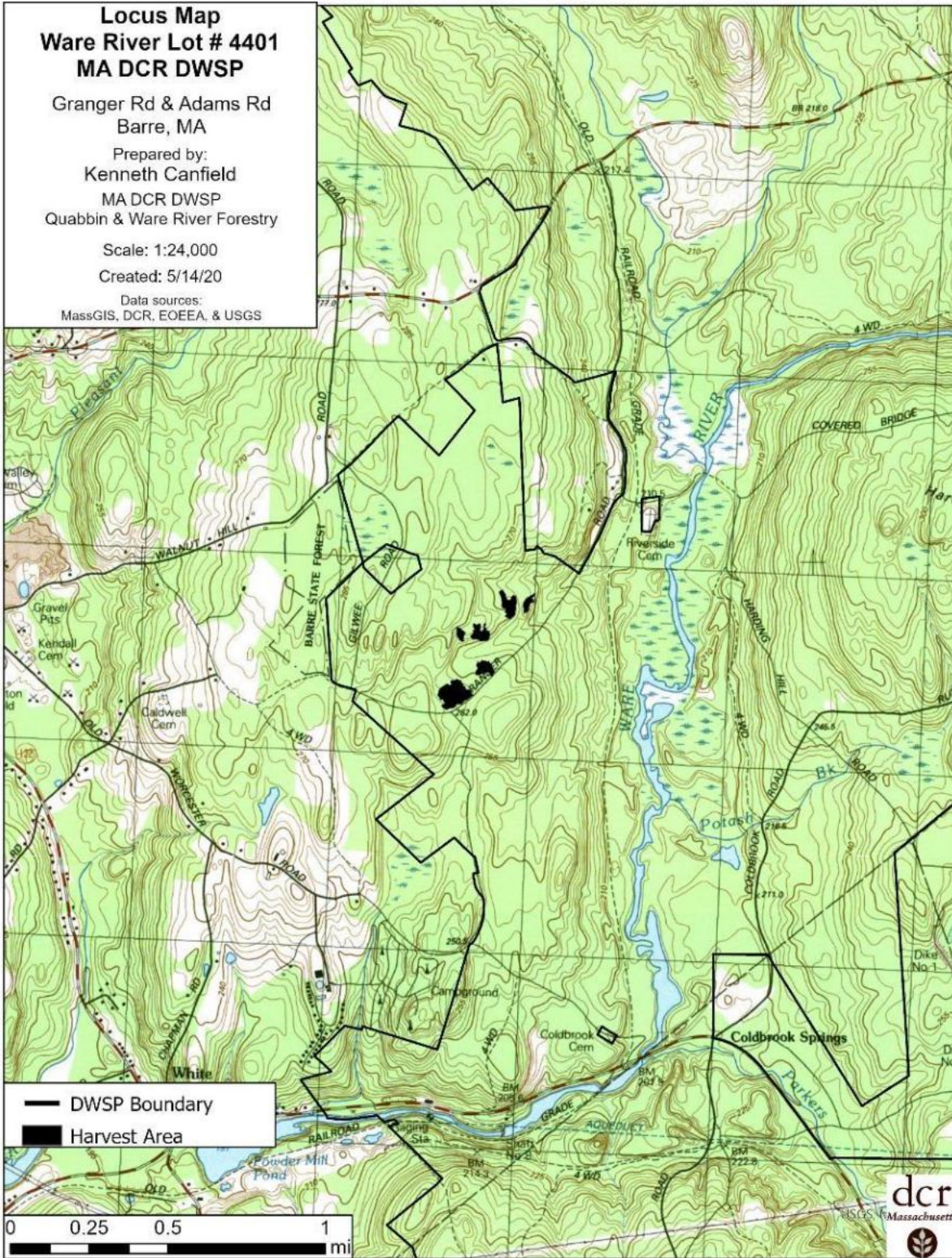
Granger Rd & Adams Rd  
Barre, MA

Prepared by:  
Kenneth Canfield  
MA DCR DWSP  
Quabbin & Ware River Forestry

Scale: 1:24,000

Created: 5/14/20

Data sources:  
MassGIS, DCR, EOEEA, & USGS



dc



COMMONWEALTH OF MASSACHUSETTS  
Department of Conservation and Recreation  
Division of State Parks and Recreation

FILE # 021-27857-20

# FOREST CUTTING PLAN CERTIFICATE

# W

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that DCR - DWSP 485 WARE ROAD  
(Name of Owner) (Address) BELCHERTOWN, MA 01007 in accordance with the

provision of M.G.L. Chapter 132, Section 40-46, filed in CLINTON with the Dept. of Conservation  
and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the  
GRANGER RD lot.

Approval Date 6/8/20  
Director's Agent CHRIS CAPONE  
DCR Phone No. (857) 406-0175

ISSUED BY:   
Priscilla E. Geigis, Director  
Division of State Parks and Recreation

**Figure 2A Pre-Harvest photo 1 looking NNW on Granger Rd taken on 8/25/20**



**Figure 2B Pre-Harvest photo 2 looking N on Granger Rd taken on 8/25/20**



**Figure 2C Pre-Harvest photo 3 looking NNE on Granger Rd taken on 8/25/20**



**Figure 3A Post-Harvest photo 1 looking NNE on Granger Rd taken on 11/14/22**



**Figure 3B Post-Harvest photo 2 looking N on Granger Rd taken on 11/14/22**



**Figure 3C Post-Harvest photo 3 looking NNW on Granger Rd taken on 11/14/22**



**Figure 4A Post-Harvest photo 1 looking NNE on Granger Rd taken on 7/13/23**



**Figure 4B Post-Harvest photo 2 looking N on Granger Rd taken on 7/13/23**



**Figure 4C Post-Harvest photo 3 looking NNW on Granger Rd taken on 7/13/23**

