

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

Project Title: Whitehall Barrens 2

DWSP Harvest Permit Number: 4405
DCR Forest Cutting Plan File Number: 257-32398-2

Site Information

Watershed: Ware River Watershed	Town(s): Rutland
Acres: 23	Nearest Road: Whitehall Rd
Natural Heritage Atlas overlap?: No	Public Drinking Water Supply Watershed?: Yes
Forest Types: White Pine/Hardwood, Red Pine, White Pine/Oak	ACEC¹?: No
Soils: 254B - Merrimac fine sandy loam - excessively drained	
Wetland Resources: Parker Brook and associated wetlands are adjacent to the harvest area.	
Vernal Pools present or within 200 feet of harvest : No	

Harvest Information

Harvest Start Date: 10/1/21	Harvest End Date: Before 6/30/2023
Number of Wetland Crossings: None	Number of Stream Crossings: None

Best Management Practices Applied

Stream Crossings	There are no stream crossings.
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 # 431
Phone #: 857-274-7090
Email: kenneth.canfield@mass.gov

¹ACEC: Area of Critical Environmental Concern

NARRATIVE

General Description/Forest Composition/History:

The harvest area is located in the town of Rutland on Whitehall Rd, adjacent to the MA Central Rail Trail. It consists of white pine/hardwood, red pine, and white pine/oak stands.

Tree species present in the overstory are white pine, Scots pine, red, black, and white oaks, red pine, pitch pine, red maple, paper birch, yellow birch, black cherry, and eastern hemlock. The understory consists of red maple, eastern white pine, black birch, red, black, and white oak, eastern hemlock and black cherry.

Tree of heaven is present on the rail trail in the harvest area.

The soils are excessively 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 it is a good site to expand the pine/oak barrens on Whitehall Rd. This type of habitat is relatively rare in central Massachusetts and supports many rare species. It is characterized by overstory pitch pine and oak and is relatively open. The habitat is fire dependent. DWSP's goal is to maintain the habitat that will be created by this harvest with mechanical mowing and/or prescribed fire.

Silvicultural Objectives:

The goal in these stands is to create a barren to expand recent pitch pine/oak barren that was established in 2020 on the other side of the MCRT. The overstory pitch pine and white oak that is present is more scattered than the area that was previously cut. That will result in some areas that appear more open after the harvest. All trees greater than 5 feet tall that are not pitch pine or white oak will be cut and removed.

Cultural Resources:

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

Wildlife/Rare or Endangered Species:

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

FIGURES

Figure 1 Forest Cutting Plan

Figure 1 Forest Cutting Plan

Forest Cutting Plan

and Notice of Intent under M.G.L. Chapter 132 – The Forest Cutting Practices Act, 304 CMR 11.00 (Effective Date: 3/15/16)

JUN 09 2021

For DCR Use Only:

File Number 257-30398-21 Case No. _____
 Date Rec'd 6.9.21 Nat. Hert. _____
 Earliest Start 6.24.21 Pub. Dr. Wat. _____
 River Basin CHICOPPEE ACEC _____
 Gen. Obj. LT

Site Information

Location

Town Rutland
 Road Whitehall Rd
 Acres 23 Proposed Start Date 7/21
 Vol. MBF 89.4 Vol. Cds. 77 Vol. Tons 582

Plan Preparer

Name Kenneth W. Canfield
 Address 578 Old Turnpike Rd
 Town, State, Zip Oakham, MA 01068
 Phone (857) 274-7090
 Type of Preparer LF
 *Mass. Forester License # 431
 *Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name DCR Division of Water Supply Protection
 Mailing Address 485 Ware Rd
 Town, State, Zip Belchertown, MA 01007
 Phone (413) 323 - 6921
 Ch61 61A 61B Stew *Case # _____
 FSC CR CR Holder

Licensed Timber Harvester**

Name _____
 Address _____
 Town, State, Zip _____
 Phone _____
 Mass. Lic. Harvester # _____
 **This information may be supplied after the plan is approved, but before work begins.

Best Management Practices

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing				
Existing Structure				
Type of Bottom				
Bank Height (ft)				
Stabilization				

Wetland Crossings

Indicate location on map	WC-1	WC-2	WC-3	WC-4
Length of Crossing				
Mitigation				
Stabilization				

Filter Strips

Indicate location on map	FS-1	FS-2	FS-3	FS-4
Width (50', 100', or VA)	VA			

Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)				
Acres to be Harvested				
Resid. Basal Area (>50%?)				

Service Forester Comments

*PLEASE NOTIFY DCR SERVICE FORESTER AT START OF HARVEST OPERATION

Codes

<u>Type of Preparer</u>	<u>Type of Crossing</u>	<u>Stabilization</u>	<u>Mitigation</u>	<u>Type of Bottom</u>
LF Mass. Lic. For	CU Culvert	SE Seed	FR Frozen	LE Ledge
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud
LO Landowner	PO Poled	ST Stone		GR Gravel
OT Other	OT Other	HB Hay Bales		OT Other
		OT Other		

Note:
 Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin. Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.

Forest Products

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	60.1 Mbf	Red Maple	54 Cds
Red Pine	23.3 Mbf	Sugar Maple	
Pitch Pine		Red Oak	22 Cds
Hemlock		Black Oak	
Spruce		White Oak	
Other Sftwd.	5.9 Mbf	Other Hdwd.	
White Ash		Total Mbf	89.3
Beech		Cordwood (Cds)	77
White Birch		SW Pulp (Tons)	
B & Y Birch		HW Pulp (Tons)	
Black Cherry		Chips (Tons)	582

Stand Treatment

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WO	RP	WH	
Acres	2.0	3.8	17.2	
Landowner Objective	LT	LT	LT	
Designation of Trees	CT	CT	LT	
Type of Cut	OT	OT	OT	
Source of Regeneration	OT	OT	OT	

*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.

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.

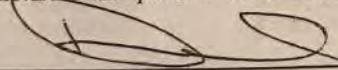
I (we) have read the Massachusetts Cutting Plan Information Sheet, and am aware of my (our) management options.

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.



6-2-21

Signature of landowner(s)

Date

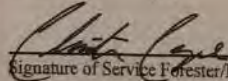
Service Forester

Determination and Status 257-32398-21

Final Report and Comments

Approved Disapproved Expires

Cutting Plan 6/9/23

 6/21/21
Signature of Service Forester/Director's Agent 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 Date

Extension 1 2 Expires Ser. 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	CT	Cut Tree	SH	Shelterwood	Intermediate Harvests:	
WK	WP/Hem	HH	Hem/Hdwd	RM	Red Maple	LT	Leave Tree	ST	Seed Tree	CT	Commercial Thin
WH	WP/Hdwd	BC	Black Cherry	BE	Beech	SB	Stand Boundary	CC	Clear Cut	NT	Non Com Thin
WO	WP/Oak	RB	Bee/Bir/Map	SF	Spruce/Fir	OT	Other	SE	Selection	Non-Standard Systems*:	
RP	Red Pine	OR	Oak/Hdwd	SM	Sugar Maple	Landowner Objective		SA	Salvage	HG	Highgrade*
SR	Red Spruce	OR	N Red Oak	PP	Pitch Pine	LT	Long-term Mgt	SN	Sanitation	DL	Diameter Limit*
										AD	Advanced
										SE	Natural Seed
										PL	Plant
										CO	Coppice
										DS	Direct Seed
										OT	Other

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 Rutland

File Number 257-32398-2

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.

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.

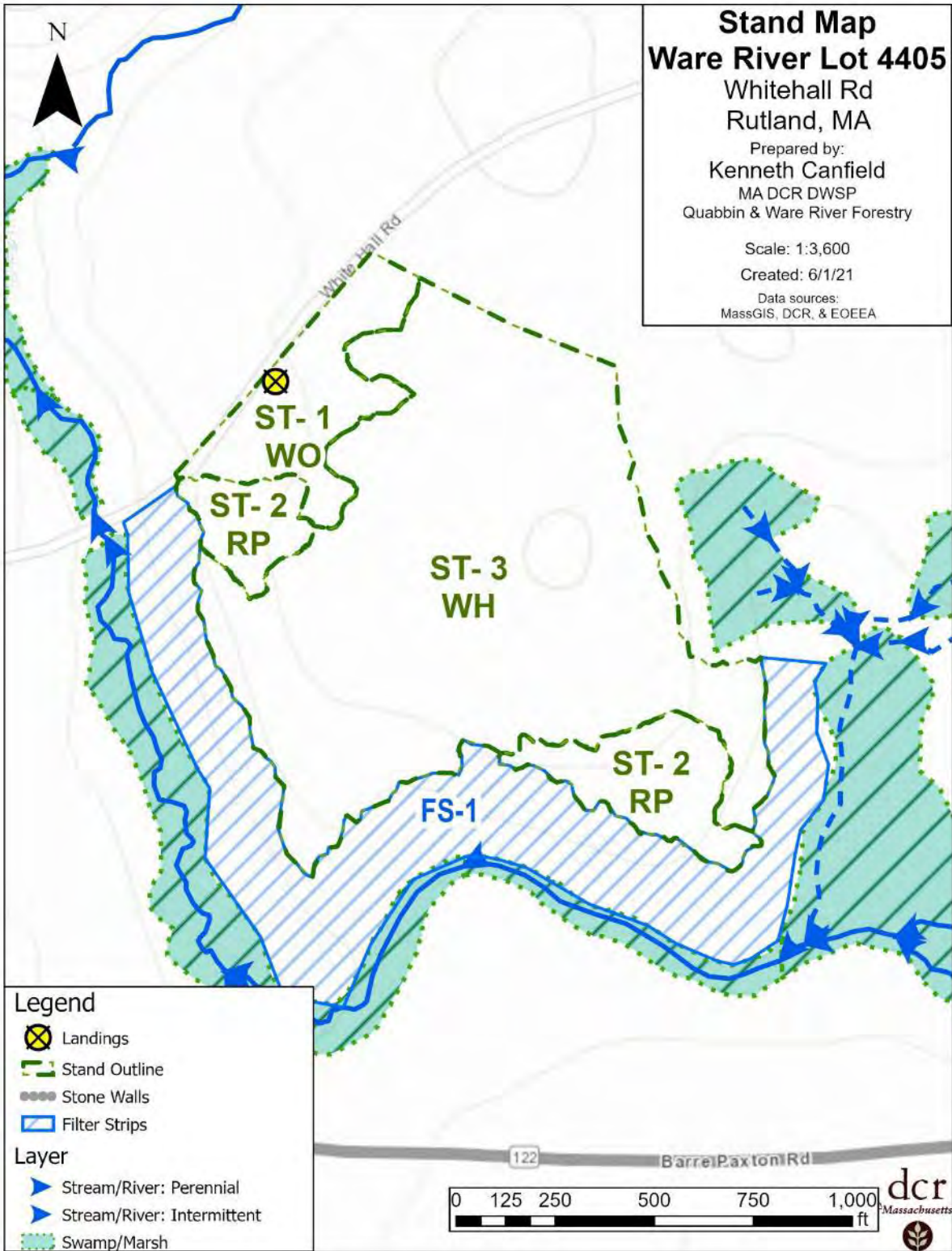
Stand No.	Describe Trees to be Cut			Describe Trees to be Left			% BA/AC	
	Species	Size	Quality	Species	Size	Quality	Cut	Left

Regeneration & Future Condition

Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, 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
1,2,3	OT	The purpose of the harvest is to remove undesirable species in order to restore a pitch pine/oak barren. DWSP intends to use prescribed fire and/or mowing to control the regeneration of undesirable species in the future. Approximately 11 square feet of basal area per acre of trees of desirable species (pitch pine and all oak species greater than 5 inches dbh) have been marked for retention. The desirable species occur sporadically throughout the stands, so that in some areas there is 20 + square feet of basal area per acre and other areas there is less than 5 square feet of basal area. All other trees, except in the filter strip, will be removed. The resulting harvest, outside of the filter strip, will resemble a clearcut or seed tree harvest in terms of stocking of overstory stems.

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
1,2,3	The desired future condition of this stand is a pitch pine/oak barren. This type of habitat is relatively open. The overstory will consist of scattered, healthy, large pitch pine and oak stems. The understory will be dominated by ericaceous species such as lowbush blueberry and huckleberry, with some taller shrubs, such as high bush blueberry, serviceberry, and scrub oak scattered sparsely.



**Locus Map
Ware River Lot # 4405
MA DCR DWSP**

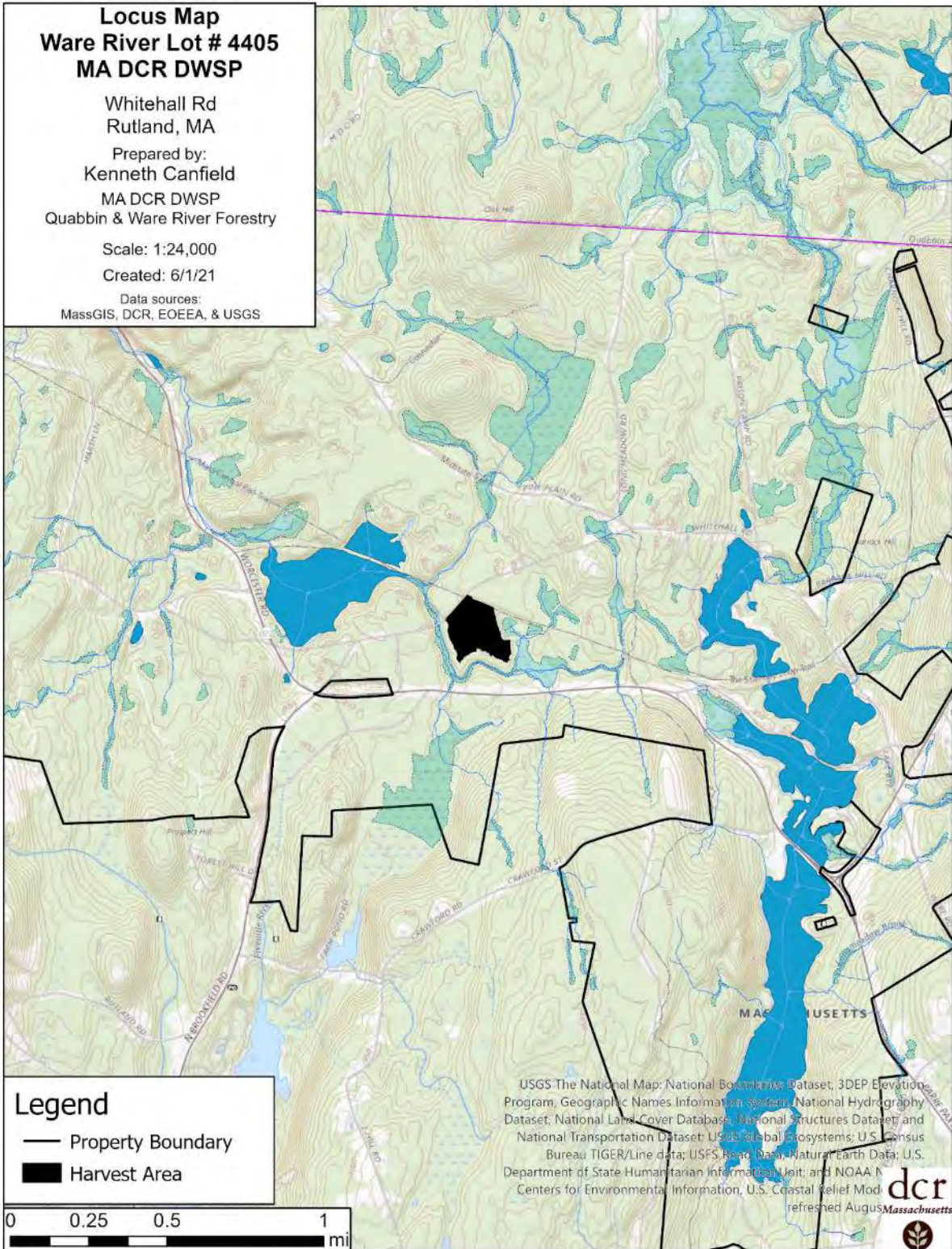
Whitehall Rd
Rutland, MA

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

Scale: 1:24,000

Created: 6/1/21

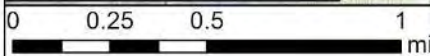
Data sources:
MassGIS, DCR, EOEEA, & USGS



Legend

— Property Boundary

■ Harvest Area



USGS The National Map; National Boundaries Dataset; 3DEP Elevation Program; Geographic Names Information System; National Hydrography Dataset; National Land Cover Database; National Structures Dataset; and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS Road Data; Natural Earth Data; U.S. Department of State Humanitarian Information Unit; and NOAA Centers for Environmental Information, U.S. Coastal Relief Model



dcr



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

FILE # 257-32398-21

W

FOREST CUTTING PLAN CERTIFICATE

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 RD
(Name of Owner) (Address) BELCHERTOWN, MA in accordance with the
01007

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
WHITEHALL lot.

Approval Date 6/21/21
Director's Agent CHRIS CAPONE
DCR Phone No. (857) 406-0175

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

