

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

Project Title: Rice Rd

DWSP Harvest Permit Number: 4400
DCR Forest Cutting Plan File Number: 021-16390-20

Site Information

Watershed: Ware River Watershed	Town(s): Barre
Acres: 12.1	Nearest Road: Rice Rd
Natural Heritage Atlas overlap?: Yes	Public Drinking Water Supply Watershed?: Yes
Forest Types: white pine	ACEC¹?: No
Soils: 253B Hinckley loam sand excessively drained	
Wetland Resources: This area is adjacent to the Burnshirt River and associated wetlands, and a stream.	
Vernal Pools present or within 200 feet of harvest : One known vernal pool is present less than 200 feet outside of the harvest area.	

Harvest Information

Harvest Start Date: 10/18/19	Harvest End Date: 11/5/19
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 no 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 #: 508-882-3636 X 1603
Email: kenneth.canfield@state.ma.us

¹ACEC: Area of Critical Environmental Concern

NARRATIVE

General Description/Forest Composition/History:

The harvest area is located in Barre, adjacent to Gilbert Rd and Rice Rd.

The harvest area is dominated by low quality, old pasture white pine. The excessively drained soils have led to much of the overstory white pine with low vigor. Red and white oak, black cherry, red maple, and eastern hemlock stems are also present in the overstory. A shelterwood harvest of the stand was completed in 1993 which has resulted in abundant red and white oak, hemlock, red maple, black birch, American beech, and black cherry regeneration.

Glossy buckthorn is well established throughout the entire area. Some invasive shrubs were hand-pulled during the marking of this lot

The soil is 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 specifically targeted because the stand is dominated by poorly formed pasture white pine. That type of stand is relatively low in diversity of overstory tree species. The white pine trees that are present are also more prone to windthrow in a wind event because they are tall and multi-stemmed. The abundant advanced regeneration present consists of a more balanced species mix and makes it more likely that the resulting stand will be established quickly and will be more diverse.

Silvicultural Objectives:

The silvicultural objective for this lot is to regenerate 12.1 acres of old pasture white pine stand to a more diverse stand with a higher percentage of dominant or co – dominant hardwood species, especially oak. This will be done in five groups that are 0.7 acres, 1.6 acres, 2.0 acres, 2.0 acres and 4.3 acres in size.

Cultural Resources:

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

Wildlife/Rare or Endangered Species:

NHESP restrictions on this lot (see cutting plan) will be complied with. One vernal pool is present adjacent to the harvest area. It will be buffered and protected.

FIGURES

Figure 1 Final Forest Cutting Plan

Figure 1 Final 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)

AUG 12 2019

For DCR Use Only:

File Number 021-16390-20 Case No.
 Date Rec'd 8-12-19 Nat. Hert. YES
 Earliest Start 8-27-19 Pub. Dr. Wat. YES
 River Basin CHIKOPEE ACEC NO
 Gen. Obj. LT Nat. Her. Impact YES

Location

Town Barre
 Road Gilbert Rd and Rice Rd
 Acres 12.1 Proposed Start Date 9/15/19
 Vol. MBF 35.6 Vol. Cds. 15 Vol. Tons 891

Plan Preparer

Name Kenneth W. Canfield
 Address 578 Old Turnpike Rd

Town, State, Zip Oakham, MA 01068
 Phone (508) 882-3636
 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 CHRIS PIARER LOGGING
 Address 152 WILLIAMSVILLE RD
 Town, State, Zip HUBBARDSTON, MA 01452
 Phone (978) 270-9916
 Mass. Lic. Harvester # 2020-587

**This information may be supplied after the plan is approved, but before work begins.

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	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 OPERATION
- *SEE ATTACHED NHESP DETERMINATION LETTER
- *NHESP 50'-300' BUFFER ZONE DELINEATION IS NOT REQUIRED WHEN OPERATING FROM OCTOBER 15 - APRIL 14

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom
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.

If Other (OT) is used in any category an explanation must be given on an attached narrative page

pg 3 of 5

Site Information

Best Management Practices

Codes

Products to be Harvested*

Species	Mbf/Cds		Mbf/Cds
White Pine	35.6 Mbf	Red Maple	3 Cds
Red Pine		Sugar Maple	
Pitch Pine		Red Oak	1 Cd
Hemlock		Black Oak	
Spruce		White Oak	3 Cds
Other Sftwd.		Other Hdwd.	
White Ash		Total Mbf	35.6
Beech		Cordwood (Cds)	15
White Birch		SW Pulp (Tons)	
B & Y Birch	1 Cd	HW Pulp (Tons)	
Black Cherry	8 Cds	Chips (Tons)	891

*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.

Cutting Standards

Indicate location on map	ST-1	ST-2	ST-3	ST-4
Forest Type	WP	WP		
Acres	7.8	4.3		
Landowner Objective	LT	LT		
Designation of Trees	CT	CT		
Type of Cut	SE	CC		
Source of Regeneration	SE	SE		

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

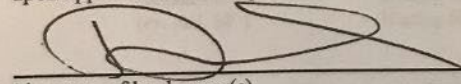
Harvest of trees with the main intention of producing short-term income with minimal consideration given to improving the future forest condition, which often results in a forest dominated by poor quality and low value species.

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)

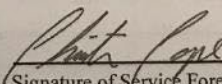
8-7-19
Date

Determination and Status 021-110390.20

Approved	Disapproved	Expires
Cutting Plan <input checked="" type="checkbox"/>	<input type="checkbox"/>	8/12/21
Signature of Service Forester/Director's Agent		8/21/19
		Date
Extension	1 <input type="checkbox"/> 2 <input type="checkbox"/>	Expires / / Ser. For. Ints. /
Amendment	App 1 <input type="checkbox"/> Dis 1 <input type="checkbox"/> App 2 <input type="checkbox"/> Dis 2 <input type="checkbox"/>	/ /

Final Report and Comments

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

11/15/19
Date

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

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

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 021-16390-20

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.

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

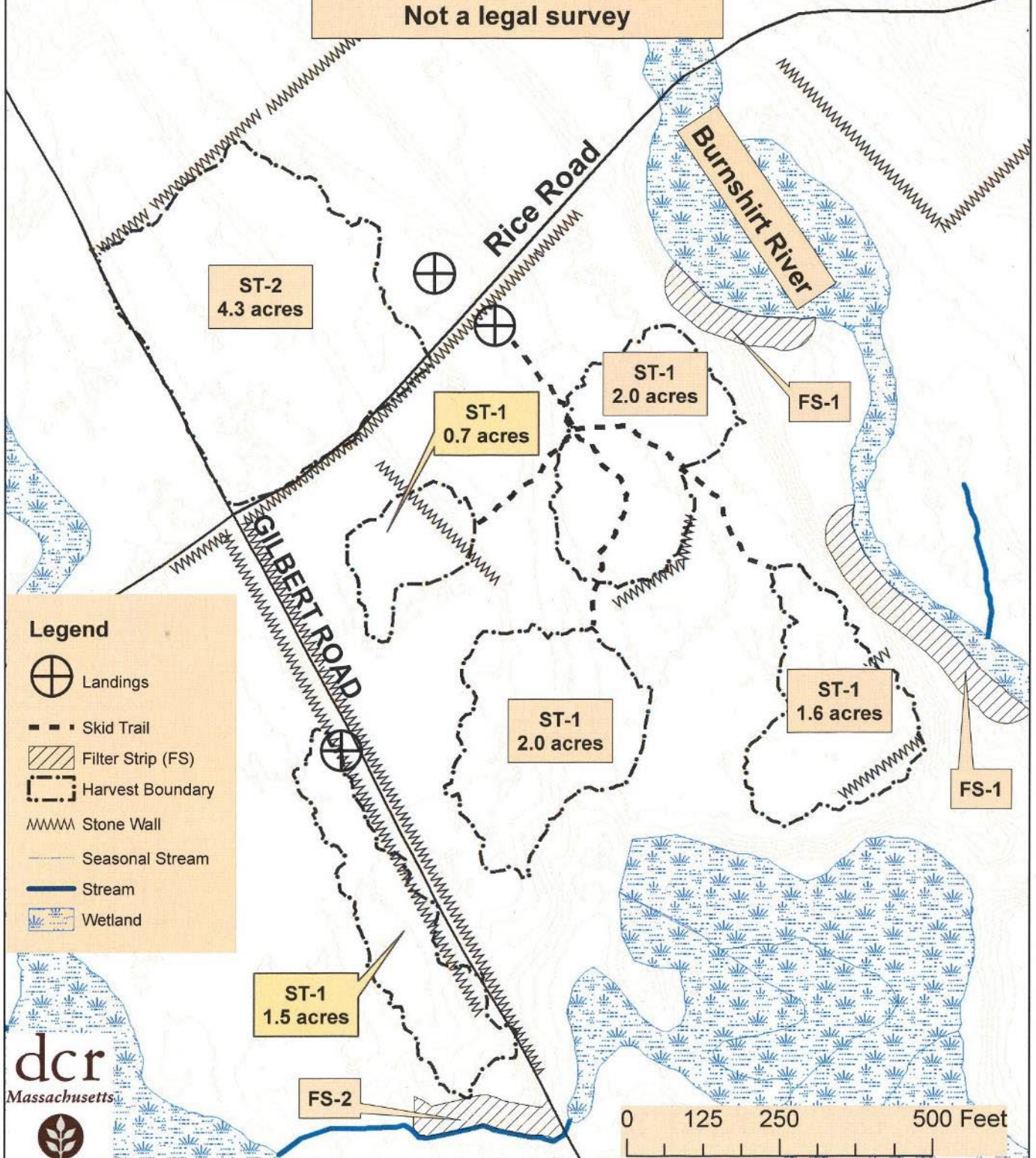
Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

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

ST-1	SE	This is an old field white pine stand. The overstory is dominated by low quality, mature eastern white pine. The stand will be harvested in groups of 2.0, 2.0, 1.6, 1.5, and 0.7 acres.
ST-2	CC	This is an old field white pine stand. The overstory is dominated by low quality, mature eastern white pine. The stand will be harvested in a 4.3 acre clearcut.

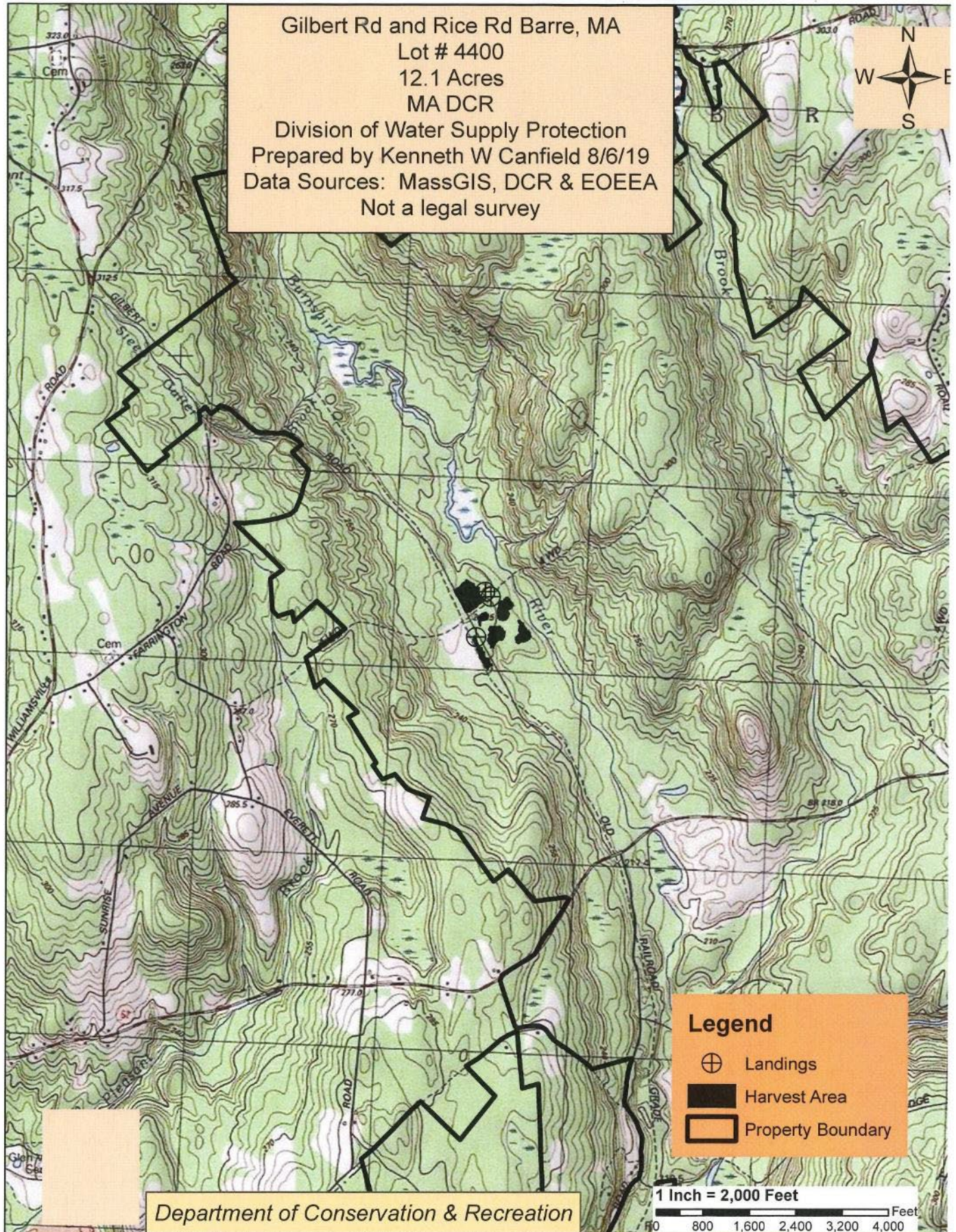
Stand No.	Desired Future Condition
	Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory
ST-1 & 2	This area is dominated by old field eastern white pine. The overstory trees are low quality, susceptible to windthrow, and losing vigor. There is very little diversity in species or age classes within the stand. Some regeneration was established through past thinnings, but it has stagnated due to lack of available sunlight. The regeneration is more diverse in terms of species composition than the overstory. Removing the overstory in groups of varying size will establish a new crop of regeneration that is more diverse, and release some of the existing regeneration. Approximately 5 square feet of basal area per acre of overstory trees will be retained within the groups. Where possible, the trees retained will be hardwood species, preferably oak. Dead standing trees and cavity trees will also be retained where possible.

Gilbert Rd & Rice Rd Barre, MA
Lot # 4400 - 12.1 acres
MA DCR DWSP
Map by Kenneth W. Canfield
8/6/19
Not a legal survey



Gilbert Rd and Rice Rd Barre, MA
Lot # 4400
12.1 Acres
MA DCR

Division of Water Supply Protection
Prepared by Kenneth W Canfield 8/6/19
Data Sources: MassGIS, DCR & EOEEA
Not a legal survey



Department of Conservation & Recreation

dc



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

FILE # 021-16390-20

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 D.W.SP. 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
GILBERT RD lot.

Approval Date 8/21/19
Director's Agent CHRIS CAPONE
DCR Phone No. (857) 406-0175

ISSUED BY:

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

