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| Project Name:Plantation Removal & Restoration | Date Proposed: 2/01/2022 |
| Property Name: Manuel Correllus State Forest | Town(s): Edgartown |
| Acres: 175 | Landscape Designation: Reserve |
| Forestry District: Southeast | Rec Complex/District: Manuel Correllus / Cape Cod |
| Forester: Gregory | FOTL/F&P Supervisor: Laffey (both) |

MASSACHUSETTS FOREST ACTION PLAN GOALS

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| \* Increase resistance and resilience of trees and forests to mitigate and adapt to the effects of climate change |
| \* Manage forest ecosystem health and biodiversity |
| \* Support the role and use of prescribed fire in the landscape |
| \* Cultivate and support partnerships with forestry and conservation Stakeholders |

GENERAL LOT DESCRIPTION

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| **Acres** | **Forest Type** | | **Stand Description** |
| 175 | Overstory: Eastern white pine plantation | Understory: Ranging from no understory to heath species and white pine saplings. | Many plantations are closed canopy with little to no ground cover or understory to more open canopies with tree oaks in the canopy and with shrubs below. Sizes range from highly dense pole sized (6” to 10.9” diameter at breast height (dbh)) to large sawlog (>15” dbh). |

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| Description of Project Area: The plantations range from heavily stocked closed canopy to sparsely stocked with open canopy where either past treatment (salvage, thinning, and shelterwood) or insects/diseases have occurred. Many of the plantations do not consist entirely of just one species but a variety of species to various degrees. Dead red pine (cut stumps, existing snag, or coarse woody material) can be found in many of the plantations. |

# SOILS AND TOPOGRAPHIC FEATURES

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| Acres | Soil Type | Drainage Characteristic |
| 77 | 259 | Excessively drained Carver loamy coarse sand. |
| 79 | 288 | Well drained Riverhead sandy loam. |
| 19 | 297 | Moderately well drained Klej loamy coarse sand. |

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| Average Slope Percent:0-5% | Terrain Consistency: Constant |
| General Aspect:South | Terrain Position: Flatland |
| Description of Soils and Topographic Features: The project area is comprised of mainly flat terrain. The soils are the result of glacial outwash. | |

# WETLAND FEATURES

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|  | Present | Crossing | Work within Filter/Buffer |
| Wetlands: | No | No | No |
| Regulated Streams: | No | No | No |
| Non-Regulated Streams: | No | No | No |
| Vernal Pools: | No | No | No |
| Seeps: | No | No | No |

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| Description of Wetland Features: No wetland features are in the project area. |

CULTURAL RESOURCES

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|  | Present | At Risk | Work Within Buffer |
| Stone Walls: | No | No | No |
| Foundation / Cellar Hole: | No | No | No |
| Well: | No | No | No |
| Structures: | No | No | No |
| Cemetery: | No | No | No |
| Other: Click or tap here to enter text. | No | No | No |

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| Description of Cultural Resources: The project will have an archeological review and evaluation by DCR’s archeologist. Any recommendations will be incorporated into the final scope of work. |

NATURAL HERITAGE / WILDLIFE-HABITAT MANAGEMENT / OTHER RESOURCES

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| Natural Heritage Polygon: Yes | Natural Heritage Restrictions: Possible |
| Restrictions on Harvest Description: Will adjust management to NHESP recommendations. | |

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| Wildlife Specific Management: Yes | Targeted Species: Several State-listed plant and animal species. |
| Goals: To increase rare species habitat. | |

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| Additional Habitat Management: Yes | Habitat Type: Native sandplain heathlands and pitch pine – scrub oak barrens habitats. |
| Goals: Increase habitat type. | |

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| State Forest Action Plan: Yes | State Wildlife Action Plan: Yes |
| ACEC: No | Public Water Supply: Yes |
| BIO Map2: Yes | Current Resource Management Plan: Yes |
| Additional Detail: A portion of the project area is within a DEP Approved Wellhead Protection Area Zone II. | |

FOREST HEALTH / INVASIVE SPECIES

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| Forest Health Concern: No | Species Affected: Click or tap here to enter text. |
| Management Considerations: Click or tap here to enter text. | |

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| Plant Invasive Species Present: Yes | Species Present: Glossy buckthorn, multiflora rose, honeysuckle |
| Management Considerations: Invasive species are concentrated along the Red Trail just east of Fire Road 9. DCR’s Ecology program will treat invasives prior to plantation removal. | |

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| Insect Invasive Species Present: Possible | Species Present: Click or tap here to enter text. |
| Management Considerations: Forest Health trapping program may result in invasive insect being present. Will revise project if necessary. | |

CLIMATE ADAPTATION AND CARBON CONSIDERATIONS

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| **Action Type** | **Identified Issue** | **Action Description** |
| Resilience | Existence of non-native conifer plantations and their inability to provide  high-quality native habitats. | Restore native sandplain heathlands and pitch pine – scrub oak barrens habitats through the removal of existing non-native conifer plantations and subsequent application of prescribed fire. Restoring these fire dependent natural communities will provide habitat for a diversity of rare species. |

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| Adaptive Management Strategies:  • Maintain or restore a diversity of native tree and understory plant species. • Use prescribed fire and mechanical treatments to manipulate structure and composition to reduce the risk of wildfire. • Increase fuel reduction treatments in the wildland-urban interface. • Restore fire-adapted ecosystems using fire-tolerant and drought-adapted native species that are expected to be  resilient to future climate and fire regimes. |

**INFRASTRUCUTRE / RECREATION/ AESTHETICS**

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| Access Road: Fire Road 11 | Ownership: DCR |
| Condition: Good | Road Repair/Upgrade: No |
| Existing Landing: No | Landing Repair/Upgrade: No |
| Project Access and Landing Site: Landings will be on Fire Road 11 and on Edgartown – West Tisbury Road (State Highway). Fire Road 11 may need to be graded following operations due to soft areas. | |

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| Existing Skid Trail Network: No | Pre-Harvest Repair/Upgrade: No |
| Skid Trail Network Description: Click or tap here to enter text. | |

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| Shared Infrastructure: No | Road/Trail Names: Click or tap here to enter text. |
| Management Considerations: Click or tap here to enter text. | |

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| Official Trail Present: Yes | Condition: Fair to good. |
| Illegal Trail Present: Possible | Condition: Click or tap here to enter text. |
| Existing Trail Head: Yes | Condition: Good. |
| Recreation Facility: No | Condition: Click or tap here to enter text. |
| Recreation and Aesthetic Concerns/Opportunities: As whole tree removal will occur; the resulting landscape will have a dramatic change in appearance as large clearings will be created. Given the objective to remove the non-native plantations there will be no retention of road or trail buffers. The landscape view will change from a single species forest monoculture to a more diverse and native shrubland or woodland community. | |

SILVICULTURE

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| **Acres** | **Silviculture Type** | **Silviculture Description** |
| 175 | Seed Tree | The primary silvicultural goal is to restore and maintain native sandplain heathlands and pitch pine - scrub oak barrens habitats with a focus on a savannah condition of individual, larger diameter, full-crowned oak and pitch pine trees in the overstory with a dense understory of scrub oak and heath species. Secondary goals are to reduce the fuel load thereby reducing the wildfire danger and increasing public safety, and to provide safe access for firefighters and fire apparatus. |

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| General Comments on Silviculture Proposed: The overstory removal of non-native conifer plantations will facilitate the establishment of native species and to allow for future prescribed burning and/or mechanical mowing. The desired future condition is an open canopy of tree oak and scattered pitch pine above a dense understory of scrub oak with scattered openings of heathland species. This will allow for the safe application of prescribed fire as well as reduce the wildfire risk to the abutting homeowners. |

PERMIT REQUIREMENTS / OPPORTUNITIES

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|  | Description |
| Seasonal Restrictions: Possible | A Natural Heritage time of year restriction is possible. |
| Equipment Restrictions: Yes | Equipment will be restricted to its ability to process whole trees. |
| Recreation Restrictions: Yes | Roads, trails, and the paved bike path will be closed during mechanical operations. Wooden benches existing in the project area will be temporarily removed. |
| Green Docket: Possible | Depending on Natural Heritage review. |
| In-kind Services: No | Click or tap here to enter text. |

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| Potential Local Economic Benefits: The harvesting of wood products may provide an opportunity for the trees harvested to be utilized locally. Benefits for the visiting public include improved birding and wildlife viewing, and improved hunting opportunities. |

**Attachments:**

**Locus Map**

**Proposal Map**

**Map

Description automatically generated**

**Map

Description automatically generated**