

ECR

Environmental Consulting & Restoration, LLC



WETLAND MEMO

TO: Morse Engineering Company
FROM: Brad Holmes
DATE: January 28, 2021
RE: Dolan Lane, Cohasset

Following ECR's Wetland Resource Area Analysis, Lot C Dolan Lane, Cohasset, MA dated January 28, 2021, ECR is revising this wetland memo pertaining to the property located on Dolan Lane (the Site). As part of the proposed work within the buffer zone to the offsite Bordering Vegetated Wetland (BVW) and onsite Isolated Vegetated Wetland (IVW), ECR in collaboration with Morse Engineering Company have designed several project improvements and buffer zone enhancements. More specifically, please note the following:

- **Project Improvements** – In order to minimize impacts within the buffer zone, the proposed project has been revised to include pervious pavement and stormwater improvements such as a stone infiltration trench along the proposed driveway and a rain garden at the base of the driveway. The rain garden will include native plantings and will help to process clean water prior to entering the buffer zone and eventually towards the IVW. The native planting will add to the value of the buffer zone.
- **Buffer Zone Enhancements** – Portions of the buffer zone are sparsely vegetated and could be improved with supplemental native plantings. On December 9, 2020, ECR staked out potential enhancement planting areas within the buffer zone. ECR placed yellow ribbons labeled with the specific plant species at each proposed planting location. A total of 17 yellow ribbons, representative of the 17 proposed shrubs, were placed within the buffer zone. The following plant list is the proposed 17 native shrubs (at least 2 feet in height) for planting within the buffer zone, which would be performed at the direction of the overseeing specialist:

3 Witch Hazel (*Hamamelis virginiana*)
3 Inkberry (*Ilex glabra*)
3 Winterberry (*Ilex verticillata*)
3 Bayberry (*Myrica pennsylvanica*)
3 Shadbush (*Amelanchier canadensis*)
2 Black Chokeberry (*Aronia melanocarpa*)

Upon planting, each shrub should be mulched with natural wood chips to protect the root ball and provide future nutrients. All shrubs are native species that provide biodiversity and significant wildlife habitat value to the site.

ECR also placed yellow ribbons around two mature White Pine trees that present an opportunity for additional wildlife habitat value by creating snags (dead standing trees) via girdling. Tree girdling is the practice of intentionally killing a tree and in this case, to create a snag that will provide valuable habitat to insect feeders, cavity/den dwelling animals, raptors, etc. The practice of tree girdling involves cutting a ring around the tree into the cambium which ultimately kills the tree but leaves it standing. The two potential White Pines ECR flagged are located along the east side of the site.

ECR

Environmental Consulting & Restoration, LLC



Photograph 1 – Digitized photo of the buffer zone with proposed native shrubs installed to provide an example of the enhancement planting proposed above.

Upon review of this memo, please contact me at (617) 529 – 3792 or brad@ecrwetlands.com with any questions or requests for additional information.

Thank you,
Brad Holmes, Professional Wetland Scientist #1464, Massachusetts Certified Arborist #2130
Manager