



# **Caron Environmental Consulting, LLC**

**Wetlands • Forestry • Permitting • Habitat Studies**

## **Buffer Zone Restoration Sequence**

**18 Porter Road  
Littleton, MA**

### **General:**

1. In the event of conflicts with this plan the requirements of the Littleton Conservation Commission shall be followed.
2. Buffer zone restoration shall take place in two areas: a strip between the house and the wetland approximately 4 feet wide by 27 feet long and an approximately 1000 s.f. area to the north of the driveway that has been previously disturbed.
3. All materials required to implement this plan shall be on-site to ensure that the work can proceed as efficiently as possible.
4. If the specified plants are not available substitution with other native species that are tolerant of full to semi shade shall be allowable, with the prior approval of the preparer of this plan.
5. The leaf litter mulch specified below shall consist of leaf litter/leaves collected from an area that is free of invasive species. If it is not possible to obtain the invasive free leaf litter/leaves the use of seed-free straw or salt marsh hay is allowed.

### **Strip Between the House and the Wetland:**

1. Cut back, and pull if possible, any invasive species present in the strip.
2. Plant the strip with a row of shrubs with a 4 foot spacing.
3. 2 each of the following shall be planted: Gray Dogwood, American Hazelnut and Swamp Azalea.
4. The shrubs planted shall be a minimum of three feet tall.
5. Mulch any disturbed surfaces with 2 inches of leaf litter/leaves.

### **1000 s.f. Area North of the Driveway:**

1. Remove all invasives species from the area, especially any bittersweet (which is abundant adjacent to the restoration area). In this area the invasive plants should be removed by pulling or excavation if necessary.
2. Rake the surface of the area with the teeth of an excavator to remove any surface debris, rocks, roots, etc.
3. Plant the area in a random pattern to create a natural appearance. There should be no need to develop a plan showing the exact location for plantings as the intent of this plan is not to create a landscaped area, but rather to create a natural area within which the exact location of the plants is not relevant.

4. Plant six trees, 2 each of the following species: Yellow Birch, Black Tupelo (Blackgum) and Black Spruce. These plantings shall be at least 4 feet tall.
5. Plant 10 shrubs, 5 each of the following species: Winterberry and Arrow-wood. These plantings shall have a minimum height of 3 feet.
6. Mulch the entire area with a minimum of 2 inches of leaf litter/leaves.
7. Establish a physical barrier between the restoration area and the driveway. Examples of the type of barrier may include, but are not limited to, large rocks, fencing or bollard/posts.
8. For at least two growing seasons remove all invasive species that attempt to become established in the restoration area. Regular inspections should ensure that the species are found early enough that they can be removed by pulling.