

Site Address: 5 Catha Lane
Prepared for: Mr. James Cahill
Prepared by: Kara Lam, MA Registered Landscape Architect (RLA), License No. 4249
Date: October 29, 2020

Re: Mitigation Planting Plan within the 50'-100' Wetland Buffer

MITIGATION PLANT SELECTION WITHIN 50'-100' WETLAND BUFFER:

The plants selected to mitigate the effects of construction within the 50'-100' buffer zones were chosen for their adaptation to wet soil conditions. A variety of sun-loving and shade tolerant species have been chosen. These plants include:

SHRUBS:

- *Ilex verticillata* (Winterberry)
- *Ilex verticillata* (Winterberry - Male required for fruit production)
- *Ilex glabra* (Inkberry)
- *Vaccinium corymbosum* (Highbush Blueberry)
- *Vaccinium corymbosum* (Highbush Blueberry - Male required for fruit production)
- *Viburnum nudum* (Smooth Witherod Viburnum)
- *Viburnum trilobum* (American Cranberrybush Viburnum)

FERNS:

- *Dennstaedtia punctilobula* (Hayscented Fern)
- *Matteuccia struthiopteris* (Ostrich Fern)
- *Osmunda regalis* (Royal Fern)
- *Polystichum acrostichoides* (Christmas Fern)

GRASS (MATURE FORM):

- *Panicum virgatum* (Switchgrass)

PERENNIAL (PLUGS):

- *Asclepias incarnata* (Swamp Milkweed)
- *Aster novae-angliae* (New England Aster)
- *Aster puniceus* (Swamp Aster)
- *Chelone glabra* (Turtlehead)
- *Calamagrostis canadensis* (Blue Joint Grass)
- *Eupatorium purpureum* (Joe Pye Weed)
- *Iris versicolor* (Blue Flag Iris)
- *Liatris spicata* (Marsh Blazing Star)
- *Lobelia cardinalis* (Cardinal Flower)
- *Lobelia siphilitica* (Great Blue Lobelia)
- *Verbena hastata* (Blue Vervain)
- *Zizia aurea* (Golden Alexanders)

LANDSCAPE PLAN & DIAGRAM:

Please see the attached planting plan and plant list for spatial layout, quantities, and sizes.

The shrubs and ferns listed above will be planted in the shady understory of existing trees located on SE (right) side of the property. The grasses and herbaceous perennial plugs listed above will be planted along the stream bank (East) where there is partial to full sun.

The mitigation plantings as shown on the landscape plan does not include any plant quantities previously submitted for review.

Additional shrub plantings have been placed on the NE (right) side of the property (closest to the A1-2 to A1-3 flags) as requested per the 10/28 email response to the last submission on Monday 10/26.

A total of 19 shrubs, 30 ferns, 21 grasses, and 600 perennials plugs are scheduled to be planted. The total area for mitigation plantings as shown on the landscape plan and diagram is 2,722 SF. This exceeds the requirement of 1,800 SF of mitigation planting by 922 SF.

PLANT SOURCING:

All plants will be sourced from New England Wetland Plants, Inc. (NEWP) located in Amherst, MA and Cavicchio Greenhouses, Inc. located in Sudbury, MA.

WETLAND RESOURCE AREA:

The wetland resource area flagging (A-1 to A-8) was not performed for the applicant James Cahill residing at the property 5 Catha Lane. The applicant has no prior knowledge of this wetland flagging. Please reach out directly to professional wetland scientist Brad Holmes from Environmental Consulting & Restoration, LLC by phone (617) 529-3792 or email <brad@ecrholmes.com> to discuss any questions regarding his assessment of the wetland resource area and intermittent stream.

HARDSCAPE & PROGRAM ELEMENTS:

As requested, please find a summary of the square footages for each of the existing and proposed elements:

- Proposed Barn: 864 SF
- Proposed Driveway: 854 SF
- Existing Patio (Came With House): 600 SF
- Existing Patio Extension (Recent Work): 234 SF
- Existing Outdoor Shower: 20 SF
- Proposed Lawn Area To Be Regraded: 1,250 SF
- Proposed Mitigation Planting Area: 2,722 SF

LAWN AREA REGRADING:

The proposed graded lawn area for sports currently consists of construction debris from the construction of the residence. This debris came with the purchase of the home and includes large slabs of bituminous concrete and construction debris. The client wishes to dispose of this waste and re-grade this area to be used for his children's recreational sports.

EXISTING PATIO & PATIO EXTENSION:

The addition of a 234 SF fire pit patio and new plantings have been the only work completed along the NE side of the home (back side along the stream). A rectangular 600 SF patio and outdoor shower existed prior to the addition of the fire pit area.

PROPOSED DRIVEWAY EXTENSION:

The proposed driveway extension is to consist of permeable pavers set in grass (ie. 'grass pavers').

5 CATHA LANE HINGHAM - MITIGATION PLANTING LIST

| | | QTY | SYM | BOTANICAL NAME | COMMON NAME | BLOOM TIME | SIZE | |
|--------|------------|-------------------------------|------------|-----------------------------------|---------------------------------|------------------|--------------------|--|
| SHRUBS | | 3 | IV | Ilex verticillata | Winterberry | Berries / Winter | 3'-4' HT; POT | |
| | | 1 | IV | Ilex verticillata - Pollinator | Winterberry - Male Pollinator | Berries / Winter | 3'-4' HT; POT | |
| | | 3 | IG | Ilex glabra | Inkberry | Berries / Winter | 3'-4' HT; POT | |
| | | 5 | VC | Vaccinium corymbosum | Highbush Blueberry | Berries / Summer | 3'-4' HT; POT | |
| | | 1 | VC | Vaccinium corymbosum - Pollinator | Highbush Blueberry - Pollinator | Berries / Summer | 3'-4' HT; POT | |
| | | 3 | VN | Viburnum nudum | Smooth Witherod Viburnum | Berries / Fall | 3'-4' HT; POT | |
| | | 3 | VT | Viburnum trilobum | American Cranberrybush Viburnum | Berries / Fall | 3'-4' HT; POT | |
| | | TOTAL SHRUBS | 19 | | | | | |
| FERNS | | 12 | F1 | Dennstaedtia punctilobula | Hayscented Fern | - | 1 GAL | |
| | | 6 | F2 | Matteuccia struthiopteris | Ostrich Fern | - | 1 GAL | |
| | | 6 | F3 | Osmunda regalis | Royal Fern | - | 1 GAL | |
| | | 6 | F4 | Polystichum acrostichoides | Christmas Fern | - | 1 GAL | |
| | | TOTAL FERNS | 30 | | | | | |
| GRASS | | 21 | G | Panicum virgatum | Switchgrass | - | 2 GAL | |
| | | TOTAL MATURE GRASSES | 21 | | | | | |
| | HERBACEOUS | 50 | | Asclepias incarnata | Swamp Milkweed | July-Aug | 2" Plug / 18" O.C. | |
| | | 50 | | Aster novae-angliae | New England Aster | Aug-Sept | 2" Plug / 18" O.C. | |
| | | 50 | | Aster puniceus | Swamp Aster | Aug-Sept | 2" Plug / 18" O.C. | |
| | | 50 | | Chelone glabra | Turtlehead | Aug-Oct | 2" Plug / 18" O.C. | |
| | | 50 | | Calamagrostis canadensis | Blue Joint Grass | - | 2" Plug / 18" O.C. | |
| | | 50 | | Eupatorium purpureum | Joe Pye Weed | July-Sept | 2" Plug / 18" O.C. | |
| | | 50 | | Iris versicolor | Blue Flag Iris | May-June | 2" Plug / 18" O.C. | |
| | | 50 | | Liatris spicata | Marsh Blazing Star | July-Aug | 2" Plug / 18" O.C. | |
| | | 50 | | Lobelia cardinalis | Cardinal Flower | July-Sept | 2" Plug / 18" O.C. | |
| | | 50 | | Lobelia siphilitica | Great Blue Lobelia | July-Sept | 2" Plug / 18" O.C. | |
| | | 50 | | Verbena hastata | Blue Vervain | July-Sept | 2" Plug / 18" O.C. | |
| | | 50 | | Zizia aurea | Golden Alexanders | May-June | 2" Plug / 18" O.C. | |
| | | TOTAL HERBACEOUS PLUGS | 600 | | | | | |