

**Landscape & Mitigation Plant List**

84 Round Hill Road

Abb.	Scientific Name	Common Name	Size	Quan.
<b>Trees</b>				
AL	Amalanchier laevis	Shadblow	7-8' ht.	2
BN	Betula nigra	River Birch (Clump)	9-10' ht.	4
BP	Betula papyrifera	Paperbark Birch	8-9' ht.	3
CF	Cornus florida	Flowering Dogwood	7-8' ht.	6
SD	Salix discolor	Pussy Willow	5-6' ht.	2
<b>Shrubs</b>				
BS	Buxus sempervirens	American Boxwood	1.5-2' ht.	18
IV	Ilex verticillata	Winterberry	3-3.5' ht.	10
HV	Hamamelis virginiana	Witch Hazel	5-6' ht.	3
JB	Juniperus Bar Harbor	Bar Harbor Juniper	2-2.5" sp.	36
SA	Spiraea A. Waterer	A. Waterer Spiraea	2.5' 3' ht.	3
VD	Viburnum dentatum	Arrowwood	4-5' ht.	7
<b>Perennials</b>				
OC	Osmunda cinnamomea	Cinnamon Fern	1 Gal. Pots	36
PA	Pennisetum alopecuroides	Fountain Grass	1 Gal. Pots	3

**Shoreline Plants**

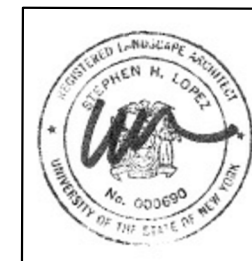
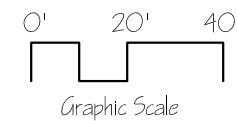
SM	Caltha palustris	Marsh Marigold	2" plug, 3' oc	15
	Hibiscus moscheutos	Rose Mallow	2" plug, 3' oc	15
	Peltandra virginica	Arrow Arum	2" plug, 3' oc	20

**Mitigation Area Notes**

1. Total disturbed area 9849 sf. Total mitigation area at 2x = 19,698 sf.
2. Mitigation area provided 21,551 sf. (8870 + 7351 + 5330)
3. Mitigation Notes on Sheet 2.

**Mitigation Plant Notes:**

1. Plants to be field located in site areas noted.
2. All plants to be free of disease, and may be bareroot.
3. All mitigation plants to be warranted for five years, and the approved monitoring plan will be implemented.
4. Plants to be planted in native soil, no amendments.
5. Thoroughly soak all plant roots at the time of planting.
6. Native seeding mix to be ERNX-122 by Ernst Seed. Seed at the rate and method recommended by the supplier. Scarify existing lawn and overseed in recommended season.



**General Notes:**

1. This drawing is for plant material specification only. All base data by others. No representation or warranty is express or implied as to accuracy of same.
2. Contractor is responsible for safety of site during installation of all improvements. Thereafter the owner is responsible for maintaining a safe site.
3. All environmental constraints subject to local, state and/or federal jurisdiction must be reviewed by appropriate agencies.

**Landscape & Wetland Buffer Mitigation Plan - Town CB**

Stephen Lopez, AICP, RLA 254 Bedford Road, Pleasantville, NY 10570	
Tomasz Fidziukiewicz 84 Round Hill Road Armonk, NY	Sheet 1
Date: April 5, 2019, Rev. 6-12-19, 8-9-19, 7-6-21, 11-4-21, 8-22-22, 9-22-22	



PROJECT LONG-TERM WETLAND MONITORING AND MAINTENANCE PLAN:

1. Wetland Monitoring & Maintenance Plan

- The purpose of the Wetland Monitoring & Maintenance Plan is to ensure that development in the wetland buffer does not compromise the functional integrity of the wetland buffer, ponds or wetlands and resulting mitigation meets its stated goals as described in the Final Resolution adopted by the Town of North Castle "Town" Planning Board for (the "Permittee").

2. Protocol for Commencement of Wetland Monitoring & Maintenance Plan

- Permittee shall implement the mitigation plan (wetland plantings) approved by the Town Planning Board.
- Following the installation of all wetland mitigation in accordance with the Final Resolution and plans adopted by the Planning Board, the Permittee shall submit two (2) copies of the following:
  - Certification from a Qualified Environmental Consultant ("Consultant") approved by the Planning Board or its designee verifying the proper installation of all plants and materials in accordance with the approved Planning Board Resolution. The Consultant shall note any deficiencies in the installation of the plant materials or deviations from the approved resolution so that these can be corrected before final approval.
  - As-Built plan prepared by a Licensed Engineer or Licensed Surveyor detailing the (1) location of plantings and (2) number of species of individual plants.
  - The monitoring period shall begin with the review of all required submitted information/materials and final written approval by the Town's Wetland Consultant and continue for a period of 5 years.

3. Assurances

- All plantings and seed mixture applications in conjunction with the mitigation work shall be accomplished in accordance with the approved drawings and completed within the first growing season after site clean-up is complete and topsoil is re-spread on the disturbed areas to be re-vegetated.
- The Permittee shall ensure that all plants in conjunction with the wetland mitigation plan shall have a minimum 85% survival rate of installed plants, which must be met or exceeded at the end of the second growing season following the initial planting/seeding. If the 85% survival rate is not met at the end of the second growing season, the Permittee shall take all necessary measures to ensure the level of survival by the end of the next growing season, including replanting and re-grading with topsoil, if necessary. Continue the program for the full term of the 5 years after planting.

1. Monitoring Reports

- The purpose of the mitigation monitoring and maintenance reports shall be to: (1) evaluate the progress of the establishment of the mitigation areas, (2) assess compliance with plant survival and plant condition requirements, and (3) identify those aspects of the mitigation areas that may require remediation by the Permittee in order to achieve the mitigation objectives.
- Permittee shall submit the mitigation monitoring and maintenance reports prepared by a Licensed Landscape Architect (or an environmental professional approved by the Town of North Castle) annually no later than November 1<sup>st</sup> to the Town's Wetland Consultant for review.
- Information for said reports shall be collected a minimum of 7 times: once prior to construction; once immediately post-construction; and annually for 5 years post-construction between the months of June 1<sup>st</sup> and September 1<sup>st</sup>.
- Minimum requirements for monitoring reports:
  - Identification of the number of surviving approved plants and area coverage at the time of the observation. The report should detail the condition, vigor, size (dbh) of all planted material and compliance with the approved Planning Board Resolution.
  - Color photographs from established stations approved by the Town's Wetland Consultant showing representative conditions in the mitigation areas taken annually during the designated period defined above.
  - An estimate of the vegetative cover in the mitigation areas, noting, in particular, areas which are bare of vegetation and/or locations where erosion and sedimentation are occurring; or where invasive plant species have become established. Aerial coverage of invasive plant species must be less than 15% of the total wetland mitigation area on the site.
  - A qualitative analysis of the extent to which the mitigation has been successful. Said reports shall note areas of deficiencies and/or non-compliance and provide recommendations/measures to be taken to ensure continued success of the mitigation efforts and soil stabilization.

2. Completion of Monitoring Period

- Final Report submitted by the Permittee and certified by the Permittee's Consultant.
- The Town's Wetland Consultant will review the submitted material and perform an inspection of the site for conformance with the approved Planning Board Resolution and As-Built Plans. Upon review and inspection, the Town's Wetland Consultant shall submit written approval to the Planning Board.

- A Monitoring Data Form (in Report) shall be filled out that includes the above information and the following information, if applicable:
  - The vegetative cover shall be comprised of native species (not invasive species), whether planted or resulting from natural colonization. If vegetative cover is less than 85%, replanting shall occur with native species which have survived and show good vigor within the wetland buffer mitigation planting areas.
  - Elimination of invasive plant species. Permittee shall demonstrate 100% removal of target species at initial treatment. Ongoing removal shall be demonstrated at each inspection period. Target species shall be tested, as necessary, to prevent re-establishment, including, but not limited to, Japanese Barberry (*Barberis thunbergii*), Common Reed (*Phragmites australis*), Bittersweet (*Celastrus orbiculatus*), Multiflora Rose (*Rosa multiflora*), Porcelain Berry (*Ampelopsis brevipedunculata*), Autumn Olive (*Elaeagnus umbellata*), Winged Euonymus (*Euonymus alatus*) and Garlic Mustard (*Alliaria petiolata*). It is incumbent on the Permittee to remove such invasive species during the appropriate season in which removal is optimal. Hand removal of any deformed, diseased or otherwise unhealthy plantings and replacement "in kind" as necessary to meet the 85% survival threshold.

1. Pesticide and fertilizer use is restricted within the 100' wetland buffer from the edge of the wetland line, except for those products which are permitted by the NYSDEC.



## Mitigation Notes

Stephen Lopez, AICP, RLA 254 Bedford Road, Pleasantville, NY 10570	
Tomasz Fidziukiewicz 84 Round Hill Road Armonk, NY	Sheet 2
Date: July 6, 2021      Scale: NA	