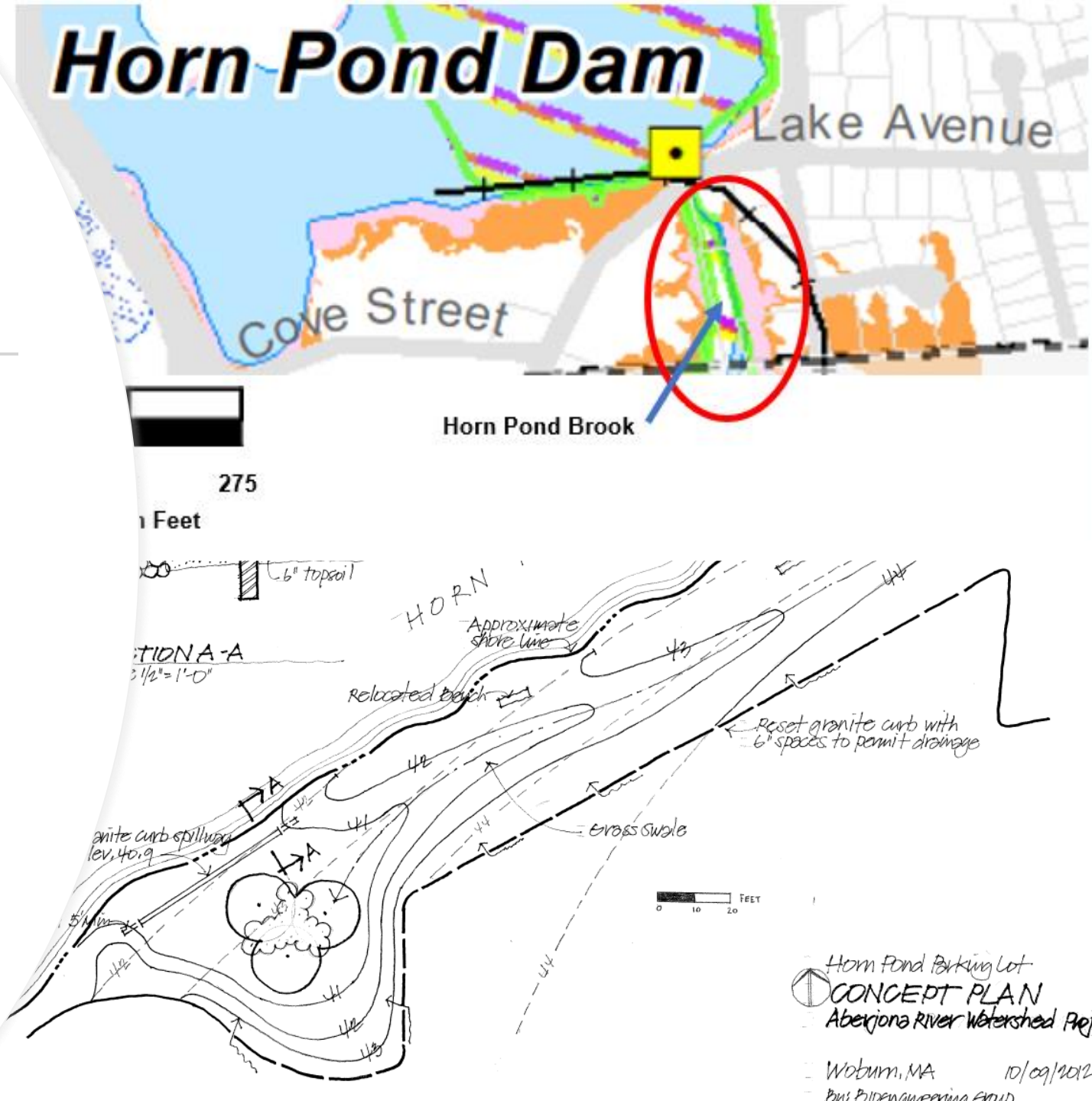
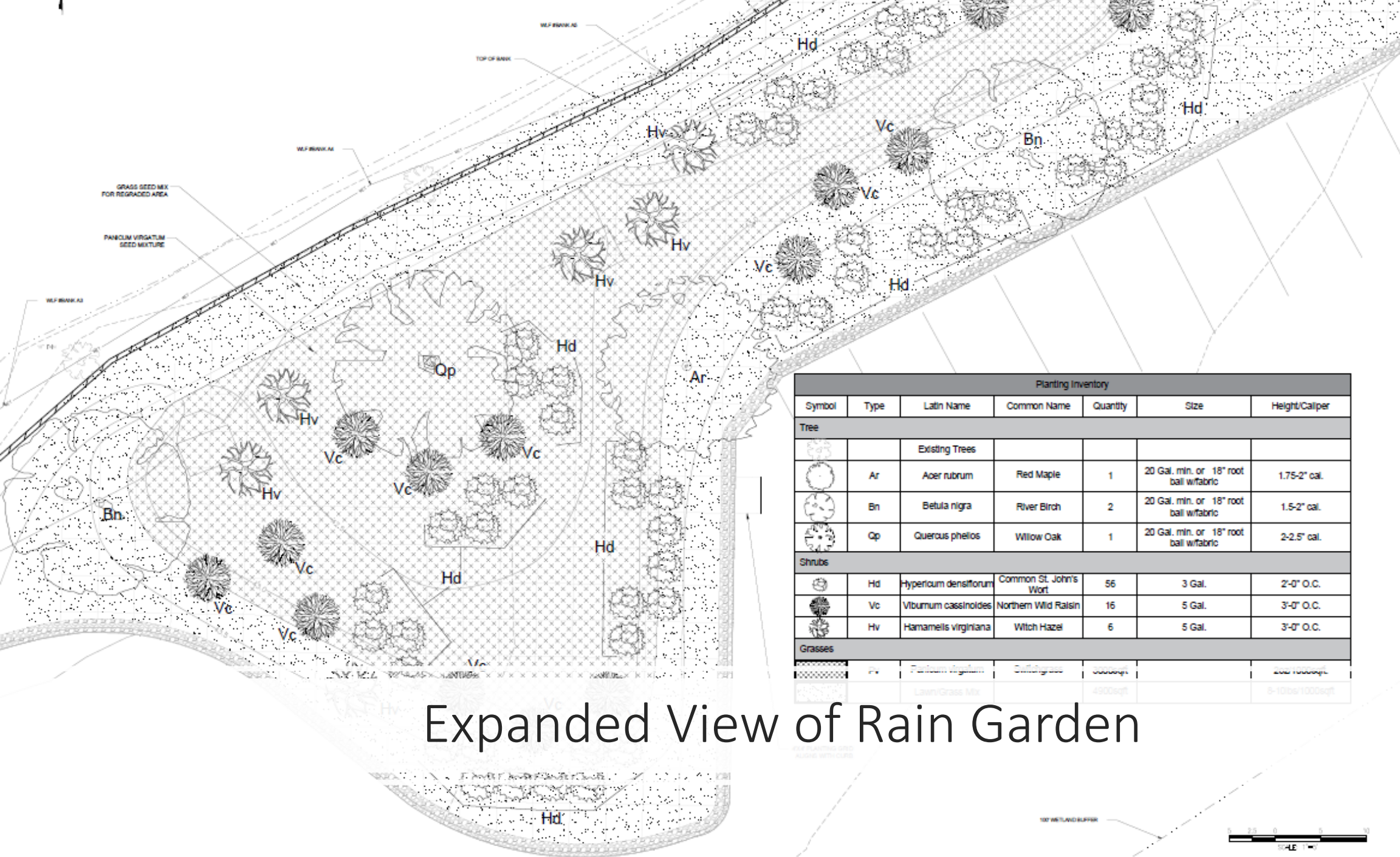


Horn Pond Brook and Cummings Brook Restoration

- Municipal Vulnerability Preparedness (MVP) Action Grants
- Eligible for up to \$400,000 annually, the Horn Pond received \$325,000 for the design phase and construction funding in FY21.
- The 2019 Project includes: Horn Pond Brook Restoration for Improved fish passage, flood storage, as well as a bio retention area for storm water quality improvement and climate resiliency
- Each of these projects has an estimated total cost of \$800,000.
- We have also partnered with MyRWA to capture funds from the North American Wetlands Conservation Council.
- The Horn Pond project is expected to capture an additional \$1,000,000 from the Department of Natural Resources for a fish passageway that will allow Atlantic Herring to reach the upper watershed.





Expanded View of Rain Garden

Planting Inventory						
Symbol	Type	Latin Name	Common Name	Quantity	Size	Height/Caliper
Tree						
		Existing Trees				
	Ar	Acer rubrum	Red Maple	1	20 Gal. min. or 18" root ball w/fabric	1.75-2" cal.
	Bn	Betula nigra	River Birch	2	20 Gal. min. or 18" root ball w/fabric	1.5-2" cal.
	Qp	Quercus phellos	Willow Oak	1	20 Gal. min. or 18" root ball w/fabric	2-2.5" cal.
Shrubs						
	Hd	Hypericum densiflorum	Common St. John's Wort	56	3 Gal.	2'-0" O.C.
	Vc	Viburnum cassinoides	Northern Wild Raisin	16	5 Gal.	3'-0" O.C.
	Hv	Hamamelis virginiana	Witch Hazel	6	5 Gal.	3'-0" O.C.
Grasses						
	PV	Panicum virgatum	Switchgrass	3000sqft		200' x 1000sqft
		Lawn/Grass Mix		4500sqft		5-10lbs/1000sqft

Weston & Sampson Engineers, Inc.
25 Walkers Creek Drive, Suite 100
Hunting, NH 03118
603.255.1590
www.westonandsampson.com

Consultants

No.	Date	Description

Seal

CDR:
COPYRIGHT © 2020 BY WESTON & SAMPSON
THIS DRAWING HAS BEEN PREPARED FOR THE
EXCLUSIVE USE OF THIS CLIENT AND PROJECT NAME
LISTED ON THIS DRAWING ONLY.
REPRODUCTION, RELEASE, OR UTILIZATION OF THE
DRAWING CONTENT OR OTHER CONTENT HEREON AND
ON OTHER PROJECTS IS PROHIBITED BY LAW.
WESTON & SAMPSON HEREBY DISCLAIMS ANY
OF THE INTELLECTUAL PROPERTY CONTAINED
HEREIN.

Issued For:

**PERMITTING - NOT
FOR CONSTRUCTION**

Scale: AS SHOWN

Date: SEPTEMBER 9, 2020

Drawn By: LCA

Reviewed By: JEP

Approved By: JEP

NASD Project No.: 21000069

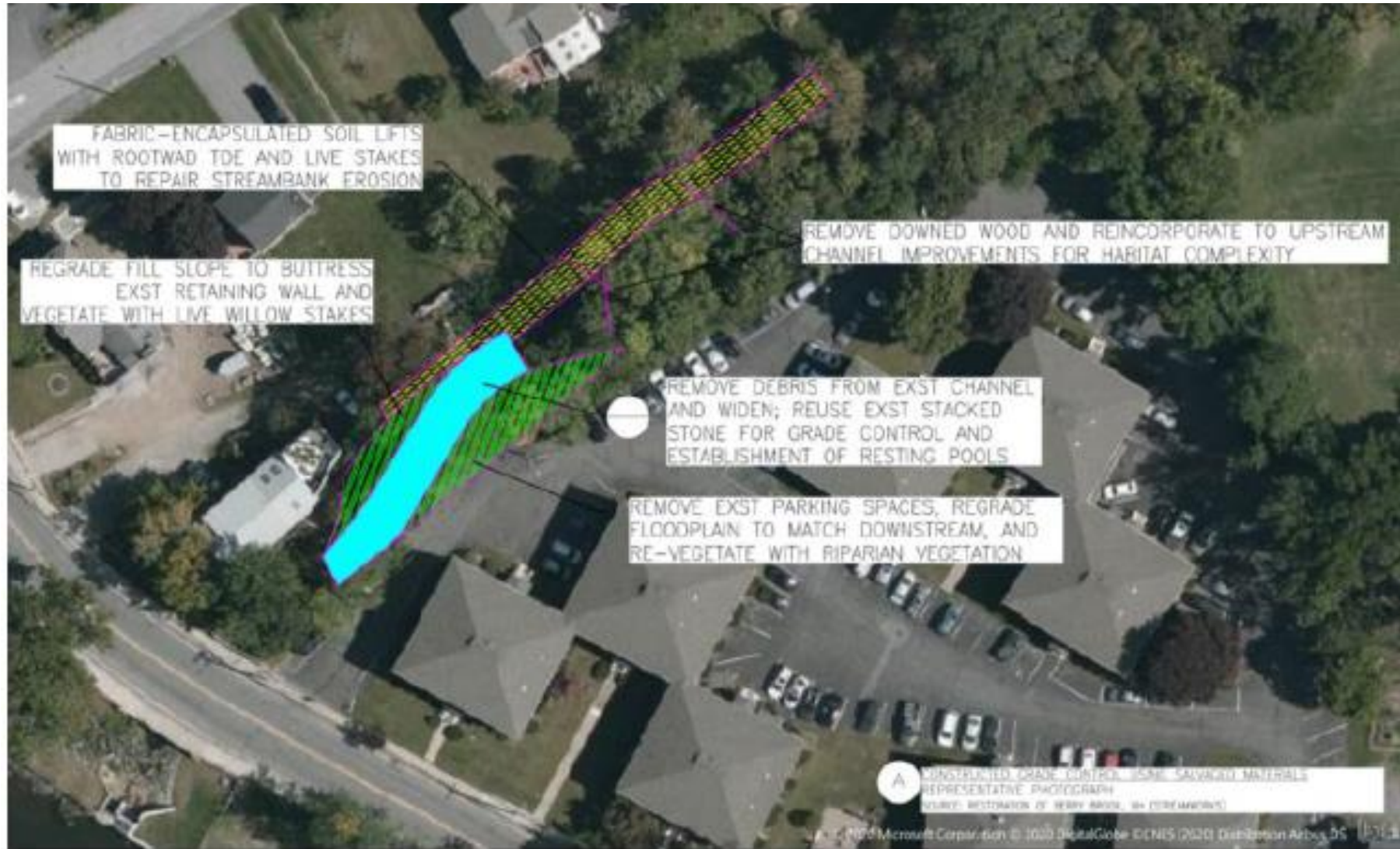
Sheet Title:

PLANTING PLAN

Sheet Number:

C104

Proposed Brook Improvements



Shaker Glenn Flood Storage and Wetlands Restoration

- Municipal Vulnerability Preparedness (MVP) Action Grants 2019 Design Phase
- The 2019 Project includes: preliminary design of flood storage, a bio retention area for storm water quality purposes, wetlands restoration and passive conservation areas.
- The City is applying for a second MVP grant to provide flood mitigation and improve downstream culvert
- The Shaker Glenn project is expected to capture an additional \$2,000,000 from the Department of Natural Resources for constructing the improvements

