

Mitigation Area Annual Report
Eversource Sudbury to Hudson
Transmission Reliability Project
Sudbury, Massachusetts

OCTOBER 2023 - OCTOBER 2024

PREPARED FOR

Epsilon Associates, Inc.
3 Mill & Main Place, Suite 250
Maynard, MA 01754

PREPARED BY

SWCA Environmental Consultants

**MITIGATION AREA ANNUAL REPORT
EVERSOURCE SADBURY TO HUDSON TRANSMISSION
RELIABILITY PROJECT
SADBURY, MASSACHUSETTS**

Prepared for

Epsilon Associates, Inc.
3 Mill & Main Place, Suite 250
Maynard, MA 01754

Prepared by

SWCA Environmental Consultants
153 Cordaville Road, Suite 130
Southborough, MA 01772
(413) 658-2027
www.swca.com

SWCA Project No. 67849

December 2024

This page intentionally left blank.

CONTENTS

1 Project Background	Error! Bookmark not defined.
2 Pre-Construction Conditions.....	1
3 Mitigation Area Construction	2
4 Monitoring Activities	3
5 Summary	4

Attachment A: Copy of Approved Mitigation Plan

Attachment B: Monitoring Photos

1 PROJECT BACKGROUND

The Eversource Sudbury to Hudson Transmission Reliability Project (the “Project”) consists of a new, approximately 9-mile-long transmission line between Eversource’s existing Sudbury substation in Sudbury, Massachusetts and the Hudson Light & Power Company’s (HL&P) substation in Hudson, Massachusetts. The new underground transmission line is currently being installed in the municipalities of Sudbury, Hudson, Stow, and Marlborough, Massachusetts. Approximately 4 miles of the Project are located within Sudbury, with portions of the work located within jurisdictional resource areas.

As part of the Project, the construction of an 819-square foot (sf) mitigation area was proposed within the existing Project easement, approximately 140 linear feet west of the start of the Project by the Sudbury Substation. The approved mitigation plan, dated January 2021, is located in Attachment A.

The Sudbury Order of Conditions for the Project (DEP# 301-1287) has four special conditions pertaining to the mitigation area and mitigation plantings installed in Sudbury:

Under Special Condition Part I(z) of the Sudbury Order of Conditions for DEP# 301-1287

The wetland replication area and land adjacent thereto shall be monitored for invasive species, and manually removed when found, for the life of the Order. The wetland replication area shall be considered substantially restored when it contains a minimum of 90% cover with native species. Replications that do not properly restore the functions and values of altered resource areas will not be deemed acceptable no matter how closely they adhere to approved engineered plans.

Under Special Condition Part II(y) of the Sudbury Order of Conditions for DEP# 301-1287

Mitigation, and restoration efforts within the limit of work, shall be implemented during the first growing season following commencement of work. Written reports shall be submitted by December 1 of each year the Order is active that details mitigation efforts that have been implemented, success of implementation, and anticipated activities the following growing season. Mitigation and Restoration areas shall be deemed substantially in compliance when there is a minimum of 90% cover with native species and free of invasive species.

Under Special Condition Part II(bb) of the Sudbury Order of Conditions for DEP# 301-1287

The wetland replication area shall be constructed during vegetation removal in the vicinity of the replication area and prior to the construction of structures in that vicinity.

Under Special Condition Part II(cc) of the Sudbury Order of Conditions for DEP# 301-1287

All plantings must survive for at least two growing seasons or be replaced at the expense of the Applicant.

SWCA Environmental (SWCA) has developed this report on behalf of Eversource to provide information on the status of the constructed mitigation area after one year of construction.

2 PRE-CONSTRUCTION CONDITIONS

The approximate four-mile Project area within Sudbury is broken up into eight segments. The mitigation area is located in Segment 14 and is approximately 140-lf west of the Sudbury Substation driveway. The area proposed for mitigation is located on the southern side of Mass Central Rail Road easement. Railroad ties spanned east to west along the center of Segment 14. A wetland is located north of the railroad ties with a culvert spanning

underneath the railroad ties. The culvert outlet was located south of the railroad ties, with the water flowing in a man-made channel to another culvert located along the easement line, which eventually flows into another wetland. The man-made channel was straight with steep banks. The vegetation within the proposed mitigation area consisted predominantly of invasive plant species such as buckthorn, honey suckle, and bittersweet. There were few trees within the proposed mitigation area, and those that were present were in poor condition or standing dead trees, covered in Asiatic bittersweet (*Celastrus orbiculatus*).

3 MITIGATION AREA CONSTRUCTION

During the first phase of the Project, in December 2022, trees located within the mitigation area boundaries were cut and removed off site, along with any shrubs and vines. During the spring and summer of 2023, invasive plant management in the form of hand pulling was conducted within the mitigation area.

In October 2023, the construction of the mitigation area commenced and was overseen by Terry Ramborger, an AECOM wetland scientist. At the time of the mitigation area construction, it was anticipated that more impact was to occur within the Project area than originally anticipated and therefore the mitigation area was enlarged by 40-sf expanding the replication area from the proposed 819-sf to 859-sf. The anticipated additional impact did not occur, however the replication area remains to be 859-sf. The additional 40-sf were added to the eastern side of the upland.

Mr. Ramborger was present to monitor and document soil composition and assist with establishment of the final grade. Installed soil had high organic characters and suitable for successful vegetation growth in the replication area. Hydrology was observed during construction and planting activities. Final grade documented and reviewed on October 27, 2023. Grading of the area consisted of the channel being removed and the construction of a detention basin with gentle slopes on all sides. The culvert spanning under the railroad tracks remained along with the culvert south of the easement.

MON Landscaping Inc. supplied and installed the plantings and seed material, detailed in Table 1 of this report, for the wetland mitigation area. Plantings were installed on October 30, 2023. The wetland planting and seeding activities were conducted in accordance with the project specifications and are detailed in this report and photo pages. When the proposed replication area was expanded, additional herbaceous plantings were installed.

All plantings were installed in accordance with the proposed plantings list, however, during plant installation it was determined that the proposed three (3) red maple (*Acer rubrum*) trees were not available at the garden center and were substituted for three (3) black tupelo (*Nyssa sylvatica*) trees. The substitution was reviewed and approved by the Sudbury Conservation Agent, Lori Capone. With the expansion of the mitigation area, additional herbaceous plantings, specifically twenty (20) giant bur-reed (*Sparganium eurycarpum*) and twenty (20) arrow arum (*Peltandra virginica*), were installed. Table 1, below, is the summary of the plantings installed within the replication area.

Following plant installation, the mitigation area was seeded using a wetland seed mix provided by MON. The seed mix was reviewed to ensure the seed mix consisted of native wetland plant species and approved by Mr. Ramborger. Following the seeding, the area was stabilized with straw mulch.

Table 1: Plantings Proposed and Installed within the Wetland Replication Area

Location	Plant Type	PROPOSED				INSTALLED			
		QTY	Scientific Name	Common Name	Specs	QTY	Scientific Name	Common Name	Specs
Wetland	Shrubs	5	<i>Cephalanthus occidentalis</i>	Common Buttonbush	18-24 inch	5	<i>Cephalanthus occidentalis</i>	Common Buttonbush	18-24 inch
		5	<i>Rosa palustris</i>	swamp rose	18-24 inch	5	<i>Rosa palustris</i>	swamp rose	18-24 inch
		5	<i>Swida amomum</i>	Silky dogwood	18-24 inch	5	<i>Swida amomum</i>	Silky dogwood	18-24 inch
	Herbs	20	<i>Sparganium eurycarpum</i>	Giant bur-reed	2" plug	40	<i>Sparganium eurycarpum</i>	Giant bur-reed	2" plug
		20	<i>Peltandra virginica</i>	Arrow arum	2" plug	40	<i>Peltandra virginica</i>	Arrow arum	2" plug
		Wetland Seed mix			18 lb/acre	Wetland Seed mix			18 lb/acre
Buffer	Tree	3	<i>Acer rubrum</i>	Red maple	1-2" caliper	3	<i>Nyssa sylvatica</i>	Black tupelo	
	Shrubs	10	<i>Clethra alnifolia</i>	Sweet pepper bush	18-24"	10	<i>Clethra alnifolia</i>	Sweet pepper bush	18-24"
		Wetland Seed mix			18 lb/acre	Wetland Seed mix			18 lb/acre

4 MONITORING ACTIVITIES

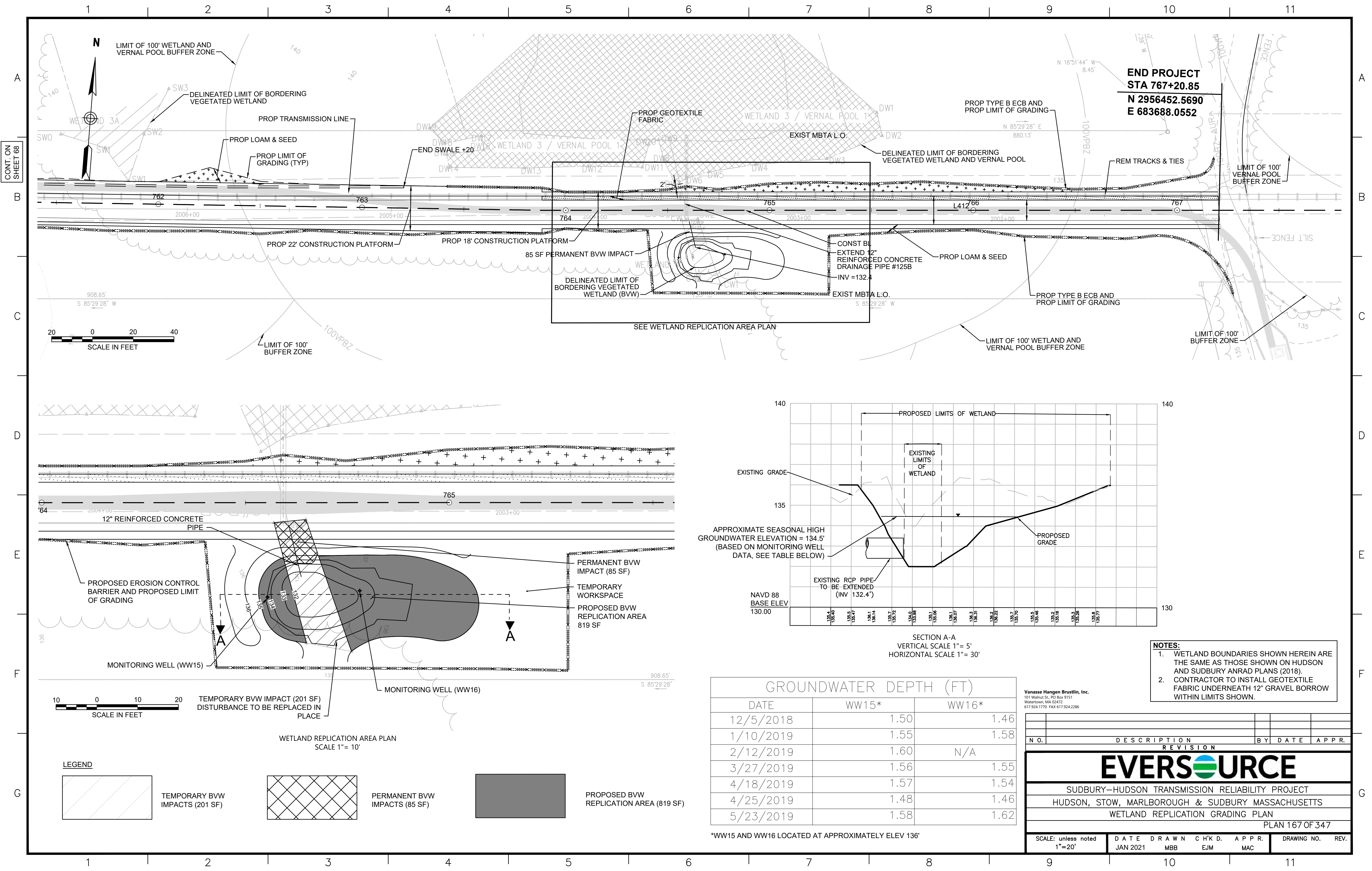
Construction of the mitigation area was completed on October 30, 2023, and was followed by a winter and spring with higher than average rainfall. To ensure the mitigation remained stable and installed plantings were thriving, the area was reviewed daily during the months between November 2023 through end of June 2024 after which the area was reviewed monthly. Monitoring consisted of reviewing the area for erosion and sedimentation, function of the constructed detention basin, review of condition of installed plantings, and reviewing the area for invasive plants. Please see selected photos of the area in Attachment B.

By the end of June 2024, the installed plantings had all survived and showed signs of additional growth. The understory of the mitigation area was densely vegetated with a variety of grasses. A patch of non-native common barnyard grass (*Echinochloa crus-galli*) was observed within the mitigation area. A SWCA restoration team removed the barnyard grass via hand pulling and applied additional a New England Wetland Seed Mix to the area between June 2024 and August 2024. During the annual review of the area in October 2024, there were no signs of barnyard grass within the mitigation area. The patch of mitigation area, where barnyard grass was removed and additional seed mix applied, did not show signs of germination of either the wetland seed mix or the non-native barnyard grass. The installed shrubs and trees were all present and appeared to be in good condition.

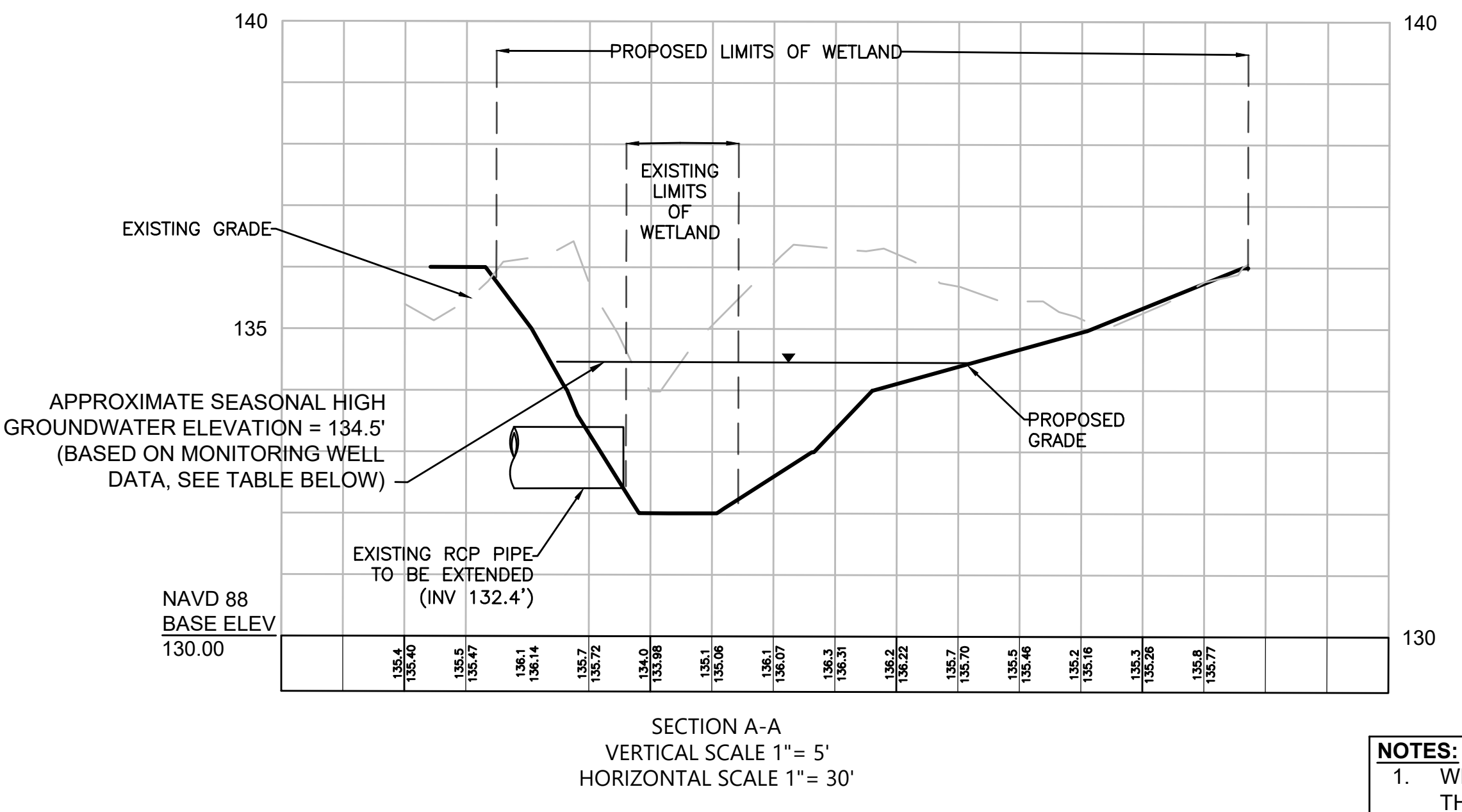
5 SUMMARY

Since the construction of the wetland replication area on October 30, 2023, SWCA returned to the replication area on October 31, 2024, to observe and monitor the success of the wetland replication area. Seeded species have established well. The entire mitigation area has reached approximately 90% percent vegetation cover, with an area where barnyard grass was removed still pending revegetation. All planted species are alive and show signs of new growth. Though the area surrounding the mitigation site still contains a variety of invasive plant species, no invasive species were observed within the mitigation area itself. No erosion or sedimentation has been observed within the wetland replication area. All adjacent slopes and vegetated areas are permanently stabilized.

ATTACHMENT A
Approved Wetland Mitigation Plan



**END PROJECT
STA 767+20.85
N 2956452.5690
E 683688.0552**



- NOTES:**
1. WETLAND BOUNDARIES SHOWN HEREIN ARE THE SAME AS THOSE SHOWN ON HUDSON AND SUDBURY ANRAD PLANS (2018).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.

Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.924.1770 FAX 617.924.2286

GROUNDWATER DEPTH (FT)

DATE	WW15*	WW16*
12/5/2018	1.50	1.46
1/10/2019	1.55	1.58
2/12/2019	1.60	N/A
3/27/2019	1.56	1.55
4/18/2019	1.57	1.54
4/25/2019	1.48	1.46
5/23/2019	1.58	1.62

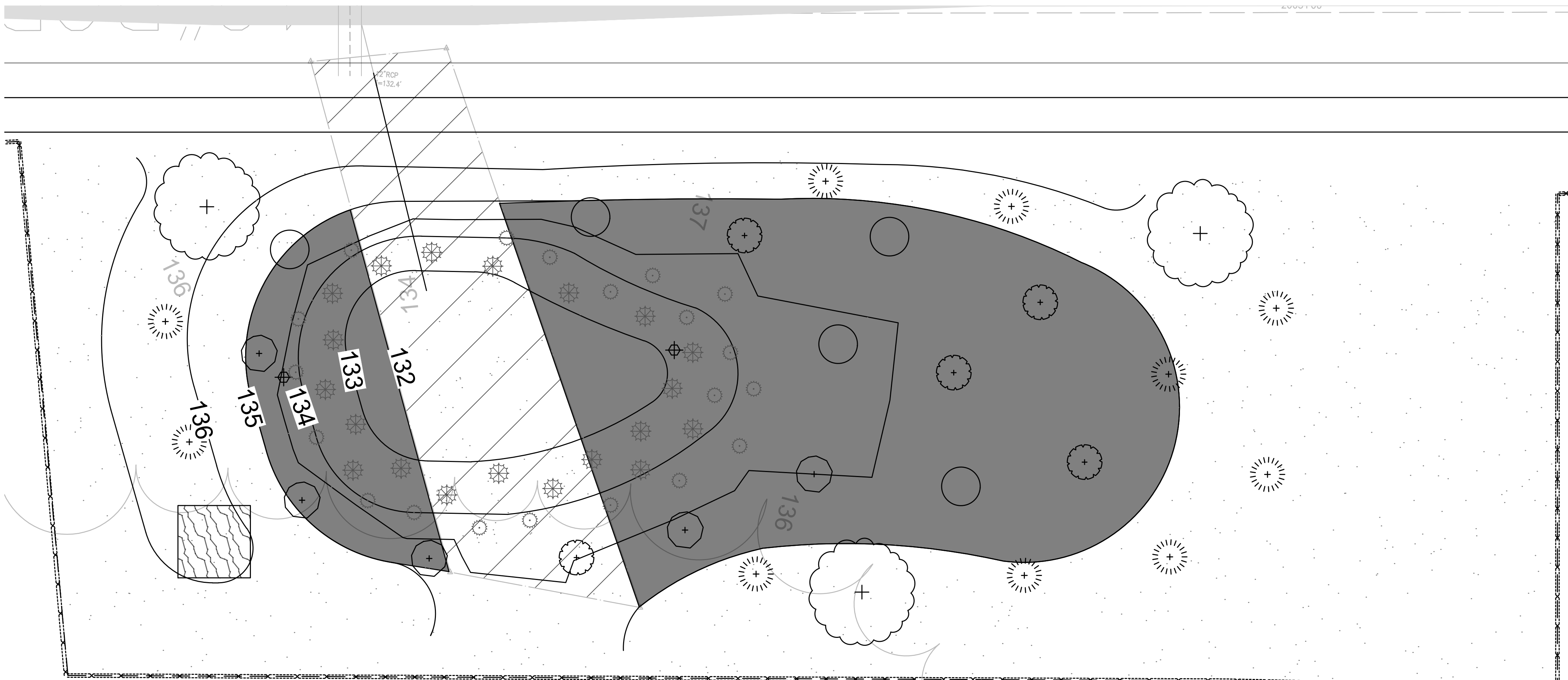
*WW15 AND WW16 LOCATED AT APPROXIMATELY ELEV 136'

LEGEND

	TEMPORARY BVW IMPACTS (201 SF)		PERMANENT BVW IMPACTS (85 SF)		PROPOSED BVW REPLICATION AREA (819 SF)
--	--------------------------------	--	-------------------------------	--	--

N.O.	DESCRIPTION	BY	DATE	APPR.
REVISION				
EVERSOURCE				
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT				
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS				
WETLAND REPLICATION GRADING PLAN				
PLAN 167 OF 347				
SCALE: unless noted 1"=20'	DATE	DRAWN	CHK'D.	APPR.
	JAN 2021	MBB	EJM	MAC
DRAWING NO.	REV.			

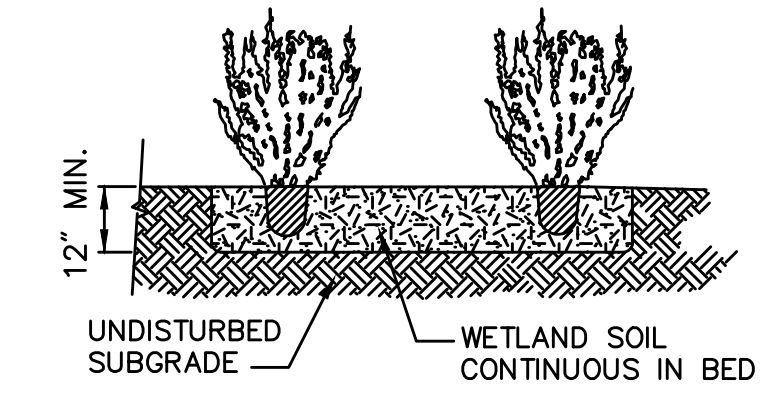
CONT. ON SHEET 68



WETLAND REPLICATION PLANTING PLAN
SCALE 1" = 4'

Specimen	Wetland Status	Plant Type	Plant Size	Quantity	Density/Spacing
Basin Embankment:					
buttonbush (<i>Cephalanthus occidentalis</i>)	OBL	Shrub	18-24 inches	5	6-8 ft. on center
arrow arum (<i>Peltandra virginica</i>)	OBL	Herbaceous	2" plug	20	2-3 ft. on center
swamp rose	OBL	Shrub	18-24 inches	5	6 ft. on center
giant bur-reed (<i>Sparganium eurycarpum</i>)	OBL	Herbaceous	2" plug	20	2-3 ft. on center
silky dogwood (<i>Swida amomum</i>)	FACW	Shrub	18-24 inches	5	6 ft. on center
Wetland seed mix ¹	--	Herbaceous	--		18 lb./ac
Surrounding Buffer Zone:					
red maple (<i>Acer rubrum</i>)	FAC	Tree	1-2" caliper	3	15 ft. on center
sweet pepperbush (<i>Clethra alnifolia</i>)	FAC	Shrub	18-24 inches	10	6 ft. on center
Wetland seed mix ¹	--	Herbaceous	--		18 lb./ac

¹Wetland seed mix: "New England Wetmix" from New England Wetland Plants, Inc. or similar. Typical species: fox sedge (*Carex vulpinoidea*), sallow sedge (*Carex lurida*), broom sedge (*Carex scoparia*), sensitive fern (*Onoclea sensibilis*), blue vervain (*Verbena hastata*), hop sedge (*Carex lupulina*), dark-green bulrush (*Scirpus atrovirens*), nodding bur-marigold (*Bidens cernua*), bristly sedge (*Carex comosa*), fringed sedge (*Carex crinita*), tall mannagrass (*Glyceria grandis*), wool-grass (*Scirpus cyperinus*), soft rush (*Juncus effusus*), spotted Joe-Pye-weed (*Eutrochium maculatum*), boneset (*Eupatorium perfoliatum*), American water-plantain (*Alisma subcordatum*), New England aster (*Symphotrichum novae-angliae*), rattlesnake mannagrass (*Glyceria canadensis*), purple-stem aster (*Symphotrichum puniceum*), soft-stemmed bulrush (*Schoenoplectus tabernaemontani*), blueflag (*Iris versicolor*), swamp milkweed (*Asclepias incarnata*), and Allegheny monkey-flower (*Mimulus ringens*).



Shrub Planting 6/08
N.T.S. Source: WHB LD_691

LEGEND

	WETLAND SEED MIX		BUTTONBUSH		GIANT BUR-REED
	REPLICATION AREA/WETLAND SEED MIX		SWEET PEPPERBUSH		ARROW ARUM
	RED MAPLE		SILKY DOGWOOD		TREE SNAG
	SWAMP ROSE				

- NOTES:**
- CONSTRUCTION OF THE WETLAND REPLICATION AREA WILL INCLUDE GRADING, SOILS PLACEMENT, AND PLANTING, AND ALL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF AN EXPERIENCED WETLAND SCIENTIST. ALL PLANTINGS SHALL BE PERFORMED IN SPRING (APRIL 15 TO JUNE 15) OR FALL (SEPTEMBER 1 TO OCTOBER 31).
 - AN EROSION CONTROL BARRIER WILL CONSIST OF SYNCOPATED SILT FENCE (TYPE B EROSION CONTROL BARRIER) AND SHALL BE INSTALLED ALONG THE ENTIRE PERIMETER OF THE REPLICATION AREA EXCEPT AT THE UPGRADIENT EDGE TO ALLOW ACCESS TO MACHINERY.
 - ALL AREAS TO BE PLANTED AS PART OF THE REPLICATION AREA SHALL BE CLEARED AND GRUBBED (AS NEEDED) AND SHALL BE EXCAVATED TO A DEPTH OF 12 INCHES BELOW THE FINAL DESIGN ELEVATIONS. MINOR MODIFICATIONS TO THE GRADING PLAN MAY BE MADE IN THE FIELD BY THE SUPERVISING WETLAND SCIENTIST IN RESPONSE TO HYDROLOGIC CONDITIONS. THE SUPERVISING WETLAND SCIENTIST WILL INSPECT THE FINAL SUB-GRADE OF THE REPLICATION AREA TO ENSURE THAT THE PROPER HYDROLOGY HAS BEEN ESTABLISHED.
 - THE TWELVE-INCH DBH SNAG THAT WILL BE REMOVED DURING CONSTRUCTION WILL BE REINSTALLED WITH A SIGNIFICANT PORTION OF THE ROOT MASS INTACT. THE SNAG WILL BE FIRMLY ENTRENCHED TO PREVENT FUTURE WINDTHROW.
 - THE REPLICATION AREA WILL THEN BE BACKFILLED WITH PREPARED WETLAND SOIL. PREPARED SOILS SHALL CONSIST OF A 1:1 MIXTURE (OR EQUAL VOLUMES) OF ORGANIC AND MINERAL MATERIALS (IN THE SILT LOAM, LOAM, OR LOAMY SAND RANGE) TO INCREASE THE ORGANIC CARBON CONTENT TO BETWEEN 4 AND 12 PERCENT BY WEIGHT. CLEAN LEAF OR COMMERCIALY AVAILABLE COMPOST IS THE PREFERRED AMENDMENT TO ACHIEVE THIS STANDARD, ALTHOUGH OTHER MATERIALS MAY BE USED IF APPROVED BY THE SUPERVISING WETLAND SCIENTIST. AREAS TO BE PLANTED AS BVW SHOULD BE GRADED IN A SLIGHTLY IRREGULAR FASHION TO ALLOW FOR SMALL HUMMOCKS AND HOLLOWES APPROXIMATELY 6 INCHES ABOVE AND BELOW GRADE TO CREATE A PIT AND MOUND TOPOGRAPHY.
 - FALLEN LOGS, BRANCHES, AND OTHER NATURAL MATERIALS SHALL BE DISTRIBUTED IN THE REPLICATION AREA TO PROVIDE ADDITIONAL WILDLIFE HABITAT. THESE MATERIALS SHALL COVER 2 TO 4 PERCENT OF THE REPLICATION AREA'S SURFACE AND SHALL NOT INCLUDE ANY KNOWN INVASIVE SPECIES. WOODY MATERIAL SHOULD VARY IN SIZE AND DEGREE OF DECOMPOSITION.
 - ONCE WETLAND SOILS AND ANY NATURAL MATERIALS HAVE BEEN PLACED, ANY EQUIPMENT OR VEHICLES EXERTING A GROUND PRESSURE OF 3 PSI OR GREATER SHALL NO LONGER BE ALLOWED IN THE REPLICATION AREA TO AVOID COMPACTING THE WETLAND SOILS.
 - PLANTINGS WILL BE INSTALLED ONCE THE ABOVE TASKS HAVE BEEN COMPLETED. ALL SHRUB PLANTING WORK SHALL BE PERFORMED BY HAND USING HAND TOOLS ONLY. THE SPECIES, SIZE, AND QUANTITY OF PLANTINGS SHALL FOLLOW THE PLANTING SCHEDULE. ONLY PLANT MATERIALS NATIVE TO THE REGION SHALL BE USED. IN THE EVENT THAT PLANT SUBSTITUTIONS ARE NECESSARY, THE SUPERVISING WETLAND SCIENTIST OR ANOTHER QUALIFIED WETLAND SCIENTIST OR BOTANIST SHALL BE CONSULTED. ALL WOODY PLANT STOCK SHALL EITHER BE BARE-ROOT OR CONTAINER-GROWN. PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN SPECIFIED ON THE PLAN, ALTHOUGH THE SUPERVISING WETLAND SCIENTIST MAY DIRECT THE PROJECT CONTRACTOR TO RELOCATE PLANTINGS BASED ON FIELD CONDITIONS.
 - FOLLOWING SHRUB PLANTINGS, THE AREA WILL BE SEEDED WITH A NATIVE WETLAND SEED MIX AS SPECIFIED IN THE PLANTING SCHEDULE OR A SIMILAR MIX. THE SEED MIX SHALL BE APPLIED AT A RATE AND IN A MANNER ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
 - FOLLOWING COMPLETION OF PLANTING AND SEEDING, A LINE OF EROSION CONTROLS WILL BE INSTALLED ALONG THE UPGRADIENT EDGE OF THE REPLICATION AREA. ALL EROSION CONTROLS AROUND THE REPLICATION AREA SHALL REMAIN IN PLACE UNTIL VEGETATION IS WELL-ESTABLISHED AND SOILS HAVE STABILIZED. EROSION CONTROLS WILL REMAIN IN PLACE UNTIL REMOVAL HAS BEEN APPROVED BY THE ENVIRONMENTAL MONITOR.
 - THE REPLICATION AREA WILL BE MONITORED FOR TWO FULL GROWING SEASONS AFTER PLANTING. THE AREA WILL BE INSPECTED TWICE PER YEAR TO ASSESS WHETHER THE AREA HAS ACHIEVED 75 PERCENT COVER BY REGIONAL INDIGENOUS WETLAND SPECIES. CONSIDERATION WILL BE GIVEN TO OTHER NATIVE WETLAND PLANT SPECIES THAT BECOME ESTABLISHED IN THE REPLICATION.
 - INVASIVE SPECIES WITHIN THE REPLICATION AREA SHALL BE REMOVED BY HAND FOR TWO GROWING SEASONS AFTER PLANTING. IF NECESSARY ANY AREAS WHERE INVASIVE SPECIES HAVE BEEN REMOVED WILL BE RESEED WITH A SUITABLE WETLAND SEED MIX.
 - SHRUBS AND SEED MIX ARE SUBJECT TO CHANGE OR SUBSTITUTION PENDING AVAILABILITY AND ACTUAL SITE CONDITIONS.

NO.				DESCRIPTION				BY DATE		APPR.				
EVERSOURCE														
SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT														
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS														
WETLAND REPLICATION PLANTING PLAN														
PLAN 168 OF 347														
SCALE: unless noted 1"=4'			DATE JAN 2021			DRAWN MBB			CHK'D. EJM			APPR. MAC		
DRAWING NO.						REV.								

Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Waltham, MA 02457
617.924.1770 FAX 617.924.2286

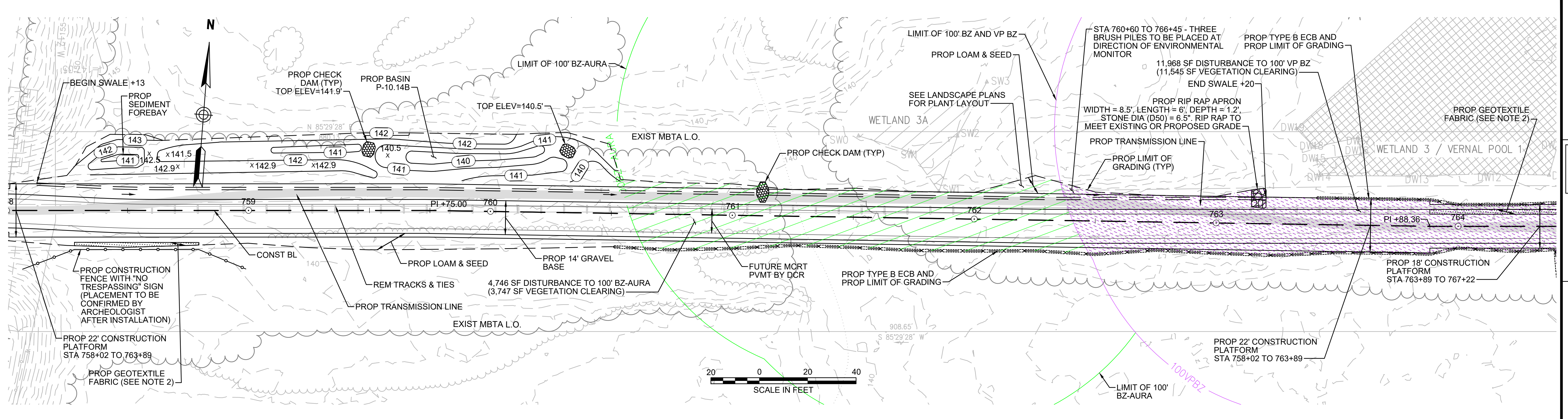
1 2 3 4 5 6 7 8 9 10 11

CONT. ON SHEET 67

CONT. BELOW

B
C

B
C

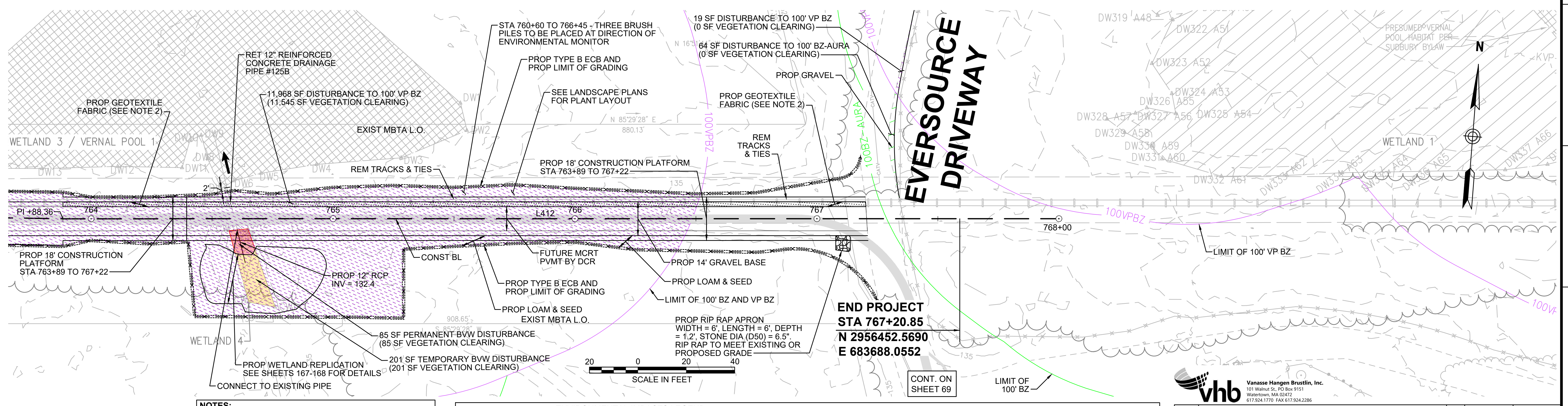


CONT. ABOVE

CONT. ABOVE

D
E
F

D
E
F



- NOTES:**
1. WETLAND RESOURCE AREA BOUNDARIES SHOWN HEREIN WERE APPROVED IN AN ORAD DATED AUGUST 27, 2018 (MADEP FILE NO. 301-1227).
 2. CONTRACTOR TO INSTALL GEOTEXTILE FABRIC UNDERNEATH 12" GRAVEL BORROW WITHIN LIMITS SHOWN.
 3. SYNCOPATED SILT FENCE (TYPE B ECB) TO BE USED WITHIN PRIORITY HABITAT AREA AND 100' VP BZ. SEE DETAIL ON SHEET 154.

ENVIRONMENTAL IMPACTS LEGEND		DESCRIPTION	
HATCH	DESCRIPTION	HATCH	DESCRIPTION
[Hatch]	ISOLATED VEGETATED WETLAND	[Hatch]	DISTURBANCE TO WPA 200' RIVERFRONT AREA (WPA 200' RA)
[Hatch]	BORDERING VEGETATED WETLAND	[Hatch]	DISTURBANCE TO SUDBURY 200' RIVERFRONT AREA (SUD 200' RA)
[Hatch]	LAND UNDER WATER	[Hatch]	DISTURBANCE TO WPA 100' RIVERFRONT AREA (WPA 100' RA)
[Hatch]	VERNAL POOL	[Hatch]	DISTURBANCE TO SUDBURY 100' RIVERFRONT AREA (SUD 100' RA)
[Hatch]	PERMANENT DISTURBANCE TO VEGETATED WETLAND	[Hatch]	DISTURBANCE TO 100' BUFFER ZONE (100' BZ-AURA)
[Hatch]	TEMPORARY DISTURBANCE TO VEGETATED WETLAND	[Hatch]	DISTURBANCE TO BLSF
[Hatch]	TEMPORARY DISTURBANCE TO LAND UNDER WATER (LUW)	[Hatch]	EXISTING TREE LINE
[Hatch]	TEMPORARY DISTURBANCE TO BANK	[Hatch]	LIMIT OF GRADING
[Hatch]	DISTURBANCE TO 100' VERNAL POOL BUFFER ZONE (100' VP BZ)		

vhb Vanasse Hangen Brustlin, Inc.
101 Walnut St., PO Box 9151
Watertown, MA 02472
617.264.1770 FAX 617.264.2286

N.O.	DESCRIPTION	BY	DATE	APPR.

EVERSOURCE

SUDBURY-HUDSON TRANSMISSION RELIABILITY PROJECT
HUDSON, STOW, MARLBOROUGH & SUDBURY MASSACHUSETTS
CONSTRUCTION PLANS

PLAN 68 OF 347

SCALE:	DATE	DRAWN	CHK'D.	APPR.	DRAWING NO.	REV.
1"=20'	JAN 2021	MS	SK	MES		

1 2 3 4 5 6 7 8 9 10 11

ATTACHMENT B

Site Photographs



Photo #1: View of area proposed for wetland mitigation prior to construction. Railroad tracks are located in the center of the photo, the area proposed for mitigation is located on the left side of the railroad tracks. Photo taken November 18, 2022. *Facing west.*



Photo #2: Another view of the area proposed for wetland mitigation prior to construction. Photo taken November 18, 2022. *Facing southwest.*



Photo #3: View of wetland mitigation area after tree removal. Photo taken December 22, 2022. *Facing west.*



Photo #4: Another view of wetland mitigation area after tree removal. Photo taken December 22, 2022. *Facing southwest.*



Photo #5: View of the wetland mitigation area after area was graded. Photo taken October 27, 2023. *Facing west.*



Photo #6: View of installed plantings within the wetland mitigation area. Understory was seeded with a wetland seed mix and stabilized with straw mulch. Photo taken October 27, 2023. *Facing west.*



Photo #7: Another view of wetland mitigation area after plant installation. Photo taken October 27, 2023. *Facing east.*



Photo #8: View of wetland mitigation area in May. The applied seed mix has started to germinate. Photo taken May 13, 2024. *Facing southwest.*



Photo #9: Another view of wetland mitigation area in May. Photo taken May 13, 2024. *Facing west.*



Photo #10: View of wetland mitigation area in May. Photo taken May 13, 2024. *Facing east.*



Photo #11: View of wetland mitigation area in July. Installed plantings all appear in good condition. Understory has fully revegetated. Photo taken July 30, 2024. *Facing southwest.*



Photo #12: Another view of the wetland mitigation area in July. Photo taken July 30, 2024. *Facing west.*



Photo #13: Another view of the wetland mitigation area in July. Photo taken July 30, 2024. *Facing southeast.*



Photo #14: View of wetland mitigation area after barnyard grass was removed and additional New England wetland seed mix applied. Photo taken October 18, 2024. *Facing west.*



Photo #15: Another view of wetland mitigation area after barnyard grass was removed and additional New England wetland seed mix applied. No water present in the detention basin since July. Photo taken October 18, 2024. *Facing west.*



Photo #16: Another view of wetland mitigation area after barnyard grass was removed. The barnyard grass was removed from the slope leading towards the detention basin. Photo taken October 18, 2024. *Facing east.*



Photo #17: View of the wetland mitigation area in October. All of the installed shrubs and trees remain on site and appear to be in good condition. Photo taken October 28, 2024 *Facing southwest.*



Photo #18: Another view of the wetland mitigation area in October. No water present within the detention basin. Small unvegetated patch on the slope of the detention basin was the location of the removed barnyard grass. Photo taken October 28, 2024 *Facing southwest.*



Photo #19: Another view of the wetland mitigation area in October. Photo taken October 28, 2024. *Facing southeast.*