

Engineers
Environmental Scientists
Software Developers
Landscape Architects
Planners
Surveyors

MAY 6, 2024

www.bscgroup.com

Spencer Conservation Commission, Attn. Lauren Vivier Memorial Town Hall, 157 Main Street, Spencer, MA 01562.

#### RE: Notice of Intent (NOI) for the T20 ACR Project - Soil Borings Phase

Dear Lauren Vivier and Conservation Commission Members,

On behalf of New England Power Company (NEP), BSC Group, Inc. (BSC) is pleased to submit this Notice of Intent (NOI) for activities associated with exploratory geotechnical soil borings along the T20 Right-of-Way (ROW), in Spencer, MA ("the Project"). Geotechnical soil borings are proposed at 18 existing Structures along the ROW, of which 13 are located within jurisdictional wetland resource areas or buffer zones, including: Bordering Vegetated Wetland (BVW), 100-ft Buffer Zone (BZ) to BVW / Inland Bank, Bordering Land Subject to Flooding (BLSF), 200-ft Riverfront Area (RA), NHESP Mapped Priority/Estimated Habitats, and the locally regulated 100-ft Buffer Zone to BLSF and 25-ft No Touch Zone / No Disturb Zone.

One (1) soil boring will be conducted at each Structure. Soil borings are approximately four (4) to six (6) inches in diameter, resulting in approximately 1 square foot of temporary impact per soil boring (13-sf of impacts in total). Any excess soils resulting from the exploratory boring activities will be backfilled or spread in an upland location. Existing and historically used access roads within the ROW (off Meadow Rd, Smithville Rd, Main St, State Hwy 49, S. Spencer Rd, Herbert Rd, and WM Casey Rd), will be used to access the soil boring locations. Construction mats or the use of low ground pressure ("LGP") equipment will be required for access through BVWs to conduct soil boring activities at the Structures. In total, ~1.3 acres (~49,199-sf) of construction matting is anticipated for access and work envelopes.

Best Management Practices ("BMPs"), including sediment and erosion controls, will be implemented to ensure adjacent resource areas are adequately protected, and impacts to the surrounding areas are reduced. Upon completion of the Project activities, all temporarily disturbed areas will be restored to pre-existing conditions to the maximum extent practicable.

This NOI is being submitted in accordance with the Massachusetts Wetlands Protection Act (M.G.L. Ch.131, S.40) (WPA), and it implements regulations (310 CMR 10.00), and the Spencer Wetland Protection Bylaw (Article 7) and associated regulations. The proposed project qualifies as a limited project under CMR 10.53(3)(d) which allows for "the construction, reconstruction, operation, and maintenance of underground and overhead public utilities, such as electrical distribution or transmission lines...".

Construction mats associated with utility projects are regulated by the Comprehensive Water Quality Certification for Utility Maintenance (23-WW10-0008-APP), between National Grid and the Massachusetts Department of Environmental Protection (MassDEP), which provides permit coverage under the 401 Water Quality Certification Program. As such, and as requested by MassDEP, construction mats are not included in the attached WPA Form 3. However, the approximate square footage of temporary impacts is included for reference within the cover letter and narrative.

# **BSC GROUP**

We respectfully request that this matter be heard at the next scheduled Conservation Commission hearing. This application has been submitted electronically via eDEP, and three (3) hard copies sent to the Spencer Conservation Commission. If you have any questions regarding the enclosed information, please contact me at (617) 896-4532 or Laura Ernst of NEP at (781) 392-9594. Thank you for your consideration in this matter.

Sincerely,

BSC Group, Inc.

**Alison Milliman** 

Senior Project Manager

cc: Laura Ernst, NEP

MassDEP CERO

llising, Killiman

Enclosures:

WPA Form 3: Notice of Intent, NOI Fee Transmittal Form, and Copy of Filing Fee Checks

Local Filing Forms: NOI Checklist, Application Process Signature Form,

Attachment A: Detailed Project Narrative

Attachment B: USGS Site Locus Map, Environmental Resources Map

Attachment C: Site Photographs

Attachment D: Abutters Notification Letter, List of Abutters, Affidavit of Service

Attachment E: National Grid's Best Management Practices Manual (EG-303)

# T20 ACR Project – Soil Borings Phase Notice of Intent

**Town of Spencer Conservation Commission** 

May 2024

## Prepared for:

# nationalgrid

New England Power Company, 150 Data Drive, Waltham, MA 02451.

Prepared by:



1 Mercantile Street, Suite 610, Worcester, MA 01606

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Spencer Site Access Form

**Attachment A** Project Narrative

Attachment B USGS Site Locus Map

FEMA FIRMette

**Environmental Resources Map** 

**Attachment C** Site Photographs

**Attachment D** Certified List of Abutters

Copy of Abutters Notice

Affidavit of Service

**Attachment E** National Grid's Best Management Practices (BMPs)





# **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

# WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

l	Provided by MassDEP:
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#### Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

# A. General Information

Project Location (Note: electronic	filers will click on button to loc	cate project site):
T20 Transimission Line ROW	Spencer	01562
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	From: 42.2	
Latitude and Longitude.	To: 42.184	772 <u>To: -72.007664</u>
- M (D) (A)	<u>Various</u>	N
f. Assessors Map/Plat Number	g. Parcel /Lot	Number
Applicant:		
Laura	Ernst	
a. First Name	b. Last Na	me
New England Power Company (N	EP)	
c. Organization		
170 Data Drive d. Street Address		
Waltham	MA	02451
e. City/Town	f. State	g. Zip Code
781-392-9594	laura.ernst@na	• .
h. Phone Number i. Fax Numb		ational grid. com
o Organization		
c. Organization		
d. Street Address		
e. City/Town	f. State	g. Zip Code
h. Phone Number i. Fax Numb	per j. Email address	
Representative (if any):		
Alison	Milliman	
a. First Name	b. Last Na	me
BSC Group, Inc.		
c. Company		
One Mercantile Street, Suite 610		
d. Street Address	8.4.4	04000
Worcester e. City/Town	<u>MA</u> f. State	01608
-		g. Zip Code
(617) 896-4532 h. Phone Number i. Fax Numb	amilliman@bsc per j. Email address	group.com
I. I ax Nullic	j. Liliali addiess	
Total WPA Fee Paid (from NOI W	etland Fee Transmittal Form):	
750.00	362.50	387.50
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



# **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

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Α.	General Information (continued)	
6.	General Project Description:	
	NEP is proposing to conduct exploratory soil boring associated with future utility work on the T20 Transi BVW, BLSF, 100-ft Buffer Zone to BVW, 200-ft Rive temporary only.	nission Line. Soil borings are proposed within
7a.	Project Type Checklist: (Limited Project Types see	Section A. 7b.)
	1. Single Family Home	2. Residential Subdivision
	3.   Commercial/Industrial	4. Dock/Pier
	5. 🛛 Utilities	6. Coastal engineering Structure
	7. Agriculture (e.g., cranberries, forestry)	8. Transportation
	9. Dther	
7b.	Is any portion of the proposed activity eligible to be Restoration Limited Project) subject to 310 CMR 10	.24 (coastal) or 310 CMR 10.53 (inland)?
	10.24 and 10.53 for a comp	ed project applies to this project. (See 310 CMR olete list and description of limited project types)
puk	310 CMR 10.53(3)(d) - the construction, reconstruction utilities.	ion, operation and maintenance of overhead
	If the proposed activity is eligible to be treated as at CMR10.24(8), 310 CMR 10.53(4)), complete and at Project Checklist and Signed Certification.	
8.	Property recorded at the Registry of Deeds for:	
	Worcester a. County	b. Certificate # (if registered land)
	NEP has Easement rights c. Book	d. Page Number
<b>D</b>	Buffer Zone & Resource Area Impa	-
D.	_	` ' ' ' '
1.	Buffer Zone Only – Check if the project is locate Vegetated Wetland, Inland Bank, or Coastal Re	
2.	☐ Inland Resource Areas (see 310 CMR 10.54-10	

Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

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# B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Resource A	<u>Area</u>	Size of Proposed Alteration	Proposed Replacement (if any)	
<u> </u>	ank	1. linear feet	2. linear feet	
	ordering Vegetated /etland	~3 (Temporary) 1. square feet	2. square feet	
	and Under /aterbodies and	1. square feet	2. square feet	
W	/aterways	3. cubic yards dredged		
Resource A	<u>∖rea</u>	Size of Proposed Alteration	Proposed Replacement (if any)	
	ordering Land	~1 (Temporary) 1. square feet	2. square feet	
51	ubject to Flooding	i. square reet	2. square reet	
		3. cubic feet of flood storage lost	4. cubic feet replaced	
	olated Land ubject to Flooding	1. square feet		
		2. cubic feet of flood storage lost	3. cubic feet replaced	
f. 🛛 Ri	iverfront Area	Seven Mile River (Inland)		
T. 🔼 🔼	iveriioni Area	1. Name of Waterway (if available) - spec	ify coastal or inland	
2. W	idth of Riverfront Area (c	heck one):		
	] 25 ft Designated Der	nsely Developed Areas only		
	☐ 100 ft New agricultural projects only			
$\boxtimes$	200 ft All other proje	cts		
			2,241,413	
3. I Ota	al area of Riverfront Area	on the site of the proposed project	t: square feet	
4. Pro	posed alteration of the Ri	iverfront Area:		
2		1	1	
a. total	square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.	
5. Has	an alternatives analysis	been done and is it attached to the	s NOI? ⊠ Yes □ No	
6. Was	s the lot where the activit	y is proposed created prior to Aug	ust 1, 1996? ⊠ Yes ☐ No	
3. Coasta	al Resource Areas: (See	310 CMR 10.25-10.35)		

Note: for coastal riverfront areas, please complete Section B.2.f. above.



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# B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your
document
transaction
number
(provided on your
receipt page)
with all
supplementary
information you
submit to the
Department.

4.

5.

Resource Area		Size of Proposed	Alteration	Proposed Replacement (if any)
а. 🗌	Designated Port Areas	Indicate size und	der Land Unde	r the Ocean, below
b. 🗌	Land Under the Ocean	1. square feet		
		2. cubic yards dredge	d	
с. 🗌	Barrier Beach	Indicate size unde	er Coastal Bead	ches and/or Coastal Dunes below
d. 🗌	Coastal Beaches	1. square feet		2. cubic yards beach nourishment
е. 🗌	Coastal Dunes	1. square feet		2. cubic yards dune nourishment
		Size of Proposed	Alteration	Proposed Replacement (if any)
f. 🗌	Coastal Banks	1. linear feet		
g. 🗌	Rocky Intertidal Shores	1. square feet		
h. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
i. 🗌	Land Under Salt Ponds	1. square feet		
		2. cubic yards dredge	d	
j. 🔲	Land Containing Shellfish	1. square feet		
k. 🗌	Fish Runs	Indicate size unde		ks, inland Bank, Land Under the er Waterbodies and Waterways,
		1. cubic yards dredge	d	
I. 🔲	Land Subject to Coastal Storm Flowage	1. square feet		
If the p	estoration/Enhancement project is for the purpose of	restoring or enhance		resource area in addition to the ve, please enter the additional
a. square feet of BVW b. sq			b. square feet of S	alt Marsh
☐ Pr	☐ Project Involves Stream Crossings			
a. numb	per of new stream crossings		b. number of repla	cement stream crossings



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# C. Other Applicable Standards and Requirements This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists - Required Actions (310 CMR 10.11). Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review 1. Is any portion of the proposed project located in Estimated Habitat of Rare Wildlife as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the Massachusetts Natural Heritage Atlas or go to http://maps.massgis.state.ma.us/PRI EST HAB/viewer.htm. If yes, include proof of mailing or hand delivery of NOI to: a. X Yes No **Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife** 1 Rabbit Hill Road August 1, 2021 Westborough, MA 01581 b. Date of map If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below). c. Submit Supplemental Information for Endangered Species Review\* 1. Percentage/acreage of property to be altered: (a) within wetland Resource Area percentage/acreage (b) outside Resource Area percentage/acreage 2. Assessor's Map or right-of-way plan of site 2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work \*\* (a) 🛛 Project description (including description of impacts outside of wetland resource area &

Photographs representative of the site

buffer zone)

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<sup>\*</sup> Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <a href="https://www.mass.gov/maendangered-species-act-mesa-regulatory-review">https://www.mass.gov/maendangered-species-act-mesa-regulatory-review</a>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

<sup>\*\*</sup> MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



3.

# **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

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# C. Other Applicable Standards and Requirements (cont'd)

Make	(c) MESA filing fee (fee information available at <a href="https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review">https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review</a> ).  Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to NHESP</i> at above address					
Project	s altering <b>10 or more acres</b> of land, also sub	mit:				
(d)	Vegetation cover type map of site					
(e)	Project plans showing Priority & Estima	ated Habitat boundaries				
(f) Ol	R Check One of the Following					
1. Project is exempt from MESA review.  Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <a href="https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat">https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat</a> ; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)						
2. 🗌	Separate MESA review ongoing.	a. NHESP Tracking # b. Date submitted to NHESP				
3.	3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.					
For coasta		osed project located below the mean high water				
a. 🛛 Not	applicable – project is in inland resource	area only b. 🗌 Yes 🔲 No				
If yes, incl	ude proof of mailing, hand delivery, or ele	ectronic delivery of NOI to either:				
South Shor the Cape &	e - Cohasset to Rhode Island border, and Islands:	North Shore - Hull to New Hampshire border:				
Division of Marine Fisheries - Southeast Marine Fisheries Station Attn: Environmental Reviewer 836 South Rodney French Blvd. New Bedford, MA 02744 Email: dmf.envreview-south@mass.gov  Division of Marine Fisheries - North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930 Email: dmf.envreview-north@mass.gov						
Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.						
c. 🗌 🛮 Is	this an aquaculture project?	d. 🗌 Yes 🛛 No				
If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).						

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# **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

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# C. Other Applicable Standards and Requirements (cont'd)

	4.	Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?					
Online Users: Include your document		a.   Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). <b>Note:</b> electronic filers click on Website.					
transaction		b. ACEC					
number (provided on your receipt page) with all	5.	Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?					
supplementary information you		a. 🗌 Yes 🔀 No					
submit to the Department.	6.	Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)					
		a. 🗌 Yes 🔀 No					
	7.	Is this project subject to provisions of the MassDEP Stormwater Management Standards?					
		<ul> <li>a.  Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:</li> <li>1.  Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)</li> </ul>					
		_					
		2. A portion of the site constitutes redevelopment					
		3. Proprietary BMPs are included in the Stormwater Management System.					
		b. 🛛 No. Check why the project is exempt:					
		1. Single-family house					
		2. Emergency road repair					
		3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.					
	D.	Additional Information					
		This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).					
		Applicants must include the following with this Notice of Intent (NOI). See instructions for details.					
		<b>Online Users:</b> Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.					
		1. Substituting Sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)					

Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative

to the boundaries of each affected resource area.

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2.



# Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 3 - Notice of Intent Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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	Oity/ TOWIT

# D.

D.	Add	itional Information (cont'd)					
	3. A Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.						
	4. 🛛	List the titles and dates for all plans and oth	er materials submitted with	this NOI.			
	Env	vironmental Resources Map					
		lan Title					
	BS	C Group, Inc.	N/A				
		repared By	c. Signed and Stamped by				
	Арі	ril 2024	1"=100'				
	d. F	inal Revision Date	e. Scale				
		GS Locus Map		April 2024			
	f. Ad	dditional Plan or Document Title		g. Date			
	5.	If there is more than one property owner, pl listed on this form.	ease attach a list of these p	property owners not			
	6. 🗌	Attach proof of mailing for Natural Heritage	and Endangered Species I	Program, if needed.			
	7.	Attach proof of mailing for Massachusetts D	Division of Marine Fisheries	, if needed.			
	8. 🛛	Attach NOI Wetland Fee Transmittal Form					
	9. 🗌	Attach Stormwater Report, if needed.					
Ε.	Fees						
	<ol> <li>Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.</li> </ol>						
		nts must submit the following information (in ansmittal Form) to confirm fee payment:	addition to pages 1 and 2	of the NOI Wetland			
	3674 4/24/2024						
		pal Check Number	3. Check date				
	eDEP f		n/a				
		Check Number	5. Check date				
	BSC C	ompainies, Inc.					
	6. Payor name on check: First Name  7. Payor name on check: Last Name						

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# **Massachusetts Department of Environmental Protection**Bureau of Resource Protection - Wetlands

# WPA Form 3 - Notice of Intent

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# F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Laura Ernst	5/6/2024
1. Signature of Applicant	2. Date
3. Signature of Property Owner (if different)	4. Date 5/6/2024
5. Signature of Representative (if any)	6. Date

#### For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

#### For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

#### Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



# Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

A. Applicant Information

# **NOI Wetland Fee Transmittal Form**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key





T20 Transimission	n Line ROW	Spencer	
a. Street Address		b. City/Town	
efile		\$362.50	
c. Check number		d. Fee amount	
. Applicant Mailing	Address:		
Laura		Ernst	
a. First Name		b. Last Name	
New England Pov	ver Company (NEP)		
c. Organization			
170 Data Drive			
d. Mailing Address			
Waltham		MA	02451
e. City/Town		f. State	g. Zip Code
781-392-9594		laura.ernst@nationalgrid.com	
h. Phone Number	i. Fax Number	j. Email Address	
. Property Owner (i	f different):		
NEP Utility ROW	/ Easement Rights		
a. First Name	<del>-</del>	b. Last Name	
c. Organization			
d. Mailing Address			
e. City/Town		f. State	g. Zip Code
h Phone Number	i Fax Number	i Fmail Address	

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

## B. Fees

Fee should be calculated using the following process & worksheet. *Please see Instructions before filling out worksheet.* 

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

**Step 4/Subtotal Activity Fee:** Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

**Step 6/Fee Payments:** To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.



# **Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

# **NOI Wetland Fee Transmittal Form**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)			
Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2(e)	1 (x1.5)	\$750.00	\$750.00
	Step 5/To	otal Project Fee:	\$750.00
	Step 6/	Fee Payments:	
	Total	Project Fee:	\$750.00 a. Total Fee from Step 5
	State share	of filing Fee:	\$362.50 b. 1/2 Total Fee <b>less</b> \$12.50
	City/Town share	e of filling Fee:	\$387.50 c. 1/2 Total Fee <b>plus</b> \$12.50

# C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection Box 4062 Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

**To MassDEP Regional Office** (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

Copy of Checks Redacted

5 September 1990 Details on bail



## NOTICE OF INTENT APPLICATION REVIEW CHECKLIST

Spencer Conservation Commission Required Application Contents

Updated 1/9/24

Site Address: T20 transmission line between W Main St & Cassey Rd

Applicant Name: Laura Ernst - New England Power Company (NEP)

Representative Name: Alison Milliman, BSC Group

DEP #:

Phone: (781) 392-9594 Phone: (617) 896-4532

## Check items included. Circle missing items.

- Table of Contents listing all items in the filing, in the order which they appear. The TOC should match this checklist but may include additions specific to the project & location (e.g. storm water calculations, a consultant's wetlands evaluation report, or wildlife habitat information).
- □ Completed WPA Form 3 Notice of Intent signed by the property owner on page 8.
- A copy of a completed Wetland Fee Transmittal Form.
- A photocopy of the checks used to pay fees: 2 separate checks, including bylaw fee.

  DO NOT INCLUDE CHECK IN ELECTRONIC FORMAT.
- A signed copy of the Application Process Signature Form.
- M Certified Abutters List, obtained from the Assessor's Office.
- A copy of the Notification to Abutters form, filled out.
- M Completed & signed Affidavit of Service form certifying that abutters have been notified.
- N/A Spencer Stormwater Permit Application Checklist.
- N/A ( A wetlands delineation report (if applicable).
  - A United Stated Geographical Survey (USGS) topographic map of the area clearly indicating the project/property location. The lot should be outlined or have an arrow pointing to it.

  - A project narrative and a construction sequence listing all proposed work in the order in which it will occur.
  - Scaled plans showing the location of work in relation to the wetlands, as explained in DEP WPA Form 3 "Notice of Intent Instructions."
  - TX Flood map.
  - ⋈ NHESP map (in necessary).

# FOR COMMERCIAL, INDUSTRIAL PROPERTIES & SUBDIVISIONS OF MORE THAN 4 LOTS

□ Stormwater Management Form and supporting documentation.

Two complete paper sets and one digital set of all materials (except copes of checks) shall be submitted. Additional information may be requested: e.g. DEP Wetland Delineation Field Forms, after initial review.

Any revisions must be submitted NO LESS THAN 7 (SEVEN) DAYS to the hearing date. Revisions submitted less than seven days prior may not be accepted or may lead to a continuance.



## APPLICATION PROCESS SIGNATURE FORM

There are three different application that can be submitted to undertake work in a jurisdictional area: a Notice of Intent (NOI), a Request for a Determination of Applicability (RDA) and an Administrative Approval. All three application have different criterial for submission and approval and the NOI & RDA are governed by both state law and the local by-law, whereas the administrative approval is governed by the local by-law only.

When potential applicant requests advise from the Conservation Agent on which application to file, the opinion of the Agent is based on information given by the potential applicant and any other information available to the Agents, e.g. the town's GIS system. The Agent has no legal right to go onto private property at any time until after and application is filed, or permission of the property owner is given.

It is important that all applicants understand that after an applicant is filed, additional information may come to light e.g. via a field inspection or application review, that may impact the scope of the submitted application and the approval process. In addition, the Agent is not the final approval authority on RDA's and NOI's, that authority rests with the Commission. Therefore, it is the applicant who has the ultimate responsibility to decide which application to file.

Considering the above, please sign below indicating an understanding of the policy and submit it with the application.

Alising, Illilliman	04/22/2024		
Signature of Applicant	Date		



## SITE VISIT ACCESS

"The conservation commission, its members and agents, and the Department employees may enter upon privately owned land for the purpose of performing their duties under M.G.L. c. 131, § 40, and 310 CMR 10.00." 310 CMR 10.08(1).

Prior to the approval of the project at T20 ROW btwn W Main St and Casey Rd (street address), the Spencer Conservation Commission aims to schedule an in-person site visit and complete an inspection report. The Commission will contact the applicant or representative to schedule the initial visit and may request the presence of the applicant(s) or a representative.

Throughout the duration of the project, the Spencer Conservation Commission may conduct additional inspections to: ensure that the project is being executed within the parameters of the Order of Conditions (if applicable), inspect erosion control, inspect the site for disturbances caused by extreme weather conditions, or if there is a suspicion of a violation of the Wetlands Protection Act, 310 CMR.

A copy of any and all inspection reports completed by the agent, or its members can be requested, if one is not provided, for no cost.

☑ I grant the Spencer Conservation Commission permission to enter the property for the purpose of performing their duties if I (the applicant) am not present or unavailable, until a Certificate of Compliance has been issued.	
□ I DO NOT grant the Spencer Conservation Commission permission to enter the property for the purpose of performing their duties if I (the applicant) am not present or unavailable.	

Please note that if the Commission is unable to fulfill their responsibilities and inspect the property to the best of their ability, the application may be denied and/or a Certificate of Compliance may not be issued upon completion.

Alison Milliman (BSC Group), on behalf of Laura Ernst (NEP).	
Applicant/Representative Name	
aling, Illuman	04/22/24
Applicant/Representative Signature	Date

# **Attachment A**

T20 ACR Project – Soil Borings Phase Spencer, Massachusetts Notice of Intent

**Project Narrative** 



T20 LINE GEOTECHNICAL SOIL BORINGS PROJECT NOTICE OF INTENT PAGE 1 OF 8

# INTRODUCTION

1

On behalf of New England Power Company (NEP), BSC Group, Inc. (BSC) is pleased to submit this Notice of Intent (NOI) for activities associated with exploratory geotechnical soil borings along the T20 Right of Way (ROW) in Spencer, MA (the Project). This NOI is being submitted in accordance with the Massachusetts Wetlands Protection Act (M.G.L. Ch.131, S.40) (WPA), and it implements regulations (310 CMR 10.00), and the Spencer Wetland Protection Bylaw (Article 7) and associated regulations.

Geotechnical soil borings are proposed at 18 existing structures along the T20 Transmission Line right-of-way (ROW) in Spencer. Of these soil borings, 13 are located within jurisdictional resource areas or buffer zones including: Bordering Vegetated Wetland (BVW), 100-ft Buffer Zone (BZ) to BVW/Inland Bank, 200-ft Riverfront Area (RA), Bordering Land Subject to Flooding (BLSF), and the locally regulated 100-ft BZ to BLSF, 50-ft BZ to wetlands & streams, and 25-ft No Disturb Zone. In addition, six (6) soil borings are located within NHESP designated Priority/Estimated Habitat for rare Species, and five (5) within Zone II Wellhead Protection Zone. Soil boring locations and their associated resource areas are described in Table 3-1, on page 3 of this Project Narrative.

One (1) soil boring will be conducted at each structure. Soil borings are approximately four (4) to six (6) inches in diameter, resulting in approximately 1 square foot (sf) of temporary impact per soil boring. Any excess soils resulting from the exploratory boring activities will be backfilled or spread in an upland location.

Existing and historically used access roads within the ROW (off Meadow Rd, Smithville Rd, Main St, State Hwy 49, S. Spencer Rd, Herbert Rd, and WM Casey Rd), will be used to access the soil boring locations. Where access or work areas are required within wetlands/BVW, construction mats or low ground pressure (LGP) equipment will be used. Assuming that construction mats are used, NEP is proposing cumulative temporary impacts of ~1.13 acres (49,199-sf), for access and work pads within BVW.

Additional Best Management Practices (BMPs), including sediment and erosion controls, will be implemented to ensure the protection of the resource areas. Upon completion of the Project activities, all temporarily disturbed areas will be restored to pre-existing conditions to the maximum extent practicable.

## 1.1 Work Subject to Review Under the WPA and the Spencer Bylaw

Soil borings B-T1, B-T2, B-T3, B-T4, B-T21, B-T23, B-T28, B-T38 and B-T47, are subject to review under both the WPA and the Spencer Bylaw. Of these soil borings, three (3) are located within BVW, six (6) within BZ but requiring access through BVW, and one (1) within BLSF and 200-ft RA. Refer to Table 3-1 for further details.

While this Project qualifies as a Limited Project in accordance with the WPA regulations (310 CMR 10.53(3)(d)), the Spencer Bylaw does not explicitly recognize the Limited Project status. The following narrative describes how the proposed Project will meet the Performance Standards of the WPA and will result in only temporary wetland impacts.

#### ATTACHMENT A - PROJECT NARRATIVE

Due to the nature and purpose of the proposed activities, there are no practicable alternatives to the Project. However, no adverse impacts to wetland resource areas or values protected by the WPA are anticipated. Impacts directly associated with soil borings will be temporary in nature, and will result in approximately 13-sf total disturbance. Construction mats associated with utility projects are regulated by the Comprehensive Water Quality Certification for Utility Maintenance (23-WW10-0008-APP), between National Grid and the Massachusetts Department of Environmental Protection (MassDEP), which provides permit coverage under the 401 Water Quality Certification Program. As such, and as requested by MassDEP, construction mats are not included in the attached WPA Form 3. However, the approximate square footage of temporary impacts is included for reference within the cover letter and narrative.

#### 1.2 Work Subject to Review Under the Spencer Bylaw Only (Work Exempt Under the WPA)

Soil borings B-T7, B-T12, B-T13, B-T33 and B-T50 may be considered exempt minor buffer zone activities under the WPA (310 CMR 10.02(2)(b)(2)(g))<sup>1</sup>. Therefore, NEP intends to perform this work as exempt maintenance in accordance with the provision of the Massachusetts Wetlands Protection Act (MGL 131-40)<sup>2</sup> and regulations 310 CMR 10.02 (2)(a)(2) and 10.02(2)(b)(g). However, the Spencer bylaw does not explicitly recognize the minor activities exemption of the WPA, and as such, these soil borings are included within this NOI for review under the Spencer Bylaw only. No impacts to resource areas are anticipated, and no wetlands will be crossed for access to these soil boring locations, as required for conformance with the minor activities exemption of the WPA.

#### 2 **EXISTING CONDITIONS**

The T20 Line ROW is generally oriented north to south and is currently used for overhead electric utility transmission operations. Vegetation within the ROW is regularly maintained for compatibility with the facilities. Project activities are proposed within upland and wetland areas within the ROW predominantly consisting of scrub-shrub/herbaceous communities. Surrounding land use primarily consists of mixed forest, with some low-density residential uses.

#### 2.1 Resource Area Summary

BSC conducted both a Desktop Analysis (using MassGIS data layers, FEMA Firmette, and other available mapping), and wetland field delineations to confirm wetland boundaries within the Rightof-Way. Wetland delineations were conducted in October and November 2022, in accordance with the methodology described in the MassDEP Handbook on Delineating Bordering Vegetated Wetlands (Published in March 1995).

Activities [within the riverfront area or buffer zone only], which are temporary in nature, have negligible impacts, and are necessary for planning and design purposes, and providing that resource areas are not crossed for access.

<sup>&</sup>lt;sup>2</sup> MGL 131-40 allows for "maintaining, repairing, or replacing, but not substantially changing or enlarging" existing transmission line structures or facilities without filing a Notice of Intent.

Existing conditions, wetland resource areas, and buffer zones, in relation to the proposed activities, are shown on the Environmental Resources Map in **Attachment B**. Project activities in Spencer are located within BVW, BLSF, 100-ft BZ to BVW, 200-ft RA, NHESP Priority/Estimated Habitats, and the locally regulated 100-ft BZ to BLSF, 50-ft BZ to wetlands, and 25-ft No Disturb Zone. Representative Photographs are provided in **Attachment C**.

#### 2.1.1 Bordering Vegetated Wetlands (BVW)

Soil borings B-T2, B-T28, and B-T38 are located within BVW. Soil boring B-T2 is located within deep emergent marsh associated with Seven Mile River. Dominant vegetation in this wetland includes sensitive fern *Onoclea sensibilis*, white meadowsweet *Spiraea alba*, *cattail Typha latifolia*, common winterberry *Ilex verticillata*, and glossy false buckthorn *Frangula alnus*. Borings B-T28 and B-T38 are within shallower emergent and scrub/shrub wetlands. Dominant vegetation in these wetlands includes sphagnum moss, wool grass *Scirpus cyperinus*, and cattail.

#### 2.1.2 Seven Mile River & Associated Riverfront Area (200-ft RA)

Soil borings B-T1 and B-T2 are located within the 200-ft RA of Seven Mile River. Within the ROW, the river has two main channels (one ~40-ft wide, and the other ~130-ft wide), with deep emergent marsh (dominated by cattails), surrounding both sides of the channels. Seven Mile River is a Coldwater Fisheries Resource, and within the Project area it is considered an impaired waterway (Category 5), for primary contact recreation, due to *E. coli* contamination.

#### 2.1.3 Bordering Land Subject to Flooding (BLSF)

Soil boring B-T1 is located within the FEMA 100-Year Floodzone AE, associated with Seven Mile River. According to FEMA mapping, the soil boring is located at an approximate elevation of 633.3 feet, within FIRMette panel 25027C0757E, effective 7/4/2011. The soil boring will result in minimal, temporary disturbance only, and no loss of flood storage capacity or restriction of flows will occur as a result of the work.

#### 2.1.4 NHESP Priority/Estimated Habitat

Five (5) soil borings within wetland resource areas are also located within NHESP Priority/Estimated Habitats PH 1160 / EH 845, which are mapped for one (1) bird and one (1) reptile species. One (1) further soil boring at B-T12 is located within NHESP Habitat, but outside of all wetland resource areas. Temporary soil boring activities and associated vehicle/equipment access within NHESP Habitat will be performed in accordance with NEP's current Operation and Maintenance Plan (OMP).

## 2.2 Other Resource Areas

No other resource areas were identified within or near the Project area, including Areas of Critical Environmental Concern (ACEC), Outstanding Resource Waters (ORW), or Surface Water Protection Zone (SWPZ).

## 3 PROJECT ACTIVITIES AND ANTICIPATED IMPACTS

The Project will consist of 13 exploratory soil boring at the structures listed in Table 3-1, below. The purpose of the borings is to evaluate subsurface conditions for foundation design associated with future structure replacements. Soil borings are temporary in nature, and at the conclusion of

work, all areas will be restored to the fullest extent practicable. Existing and historically used access roads within the ROW will serve as the primary means of access to the work areas. A small trackmounted or wheeled drill rig will be used to perform the soil borings. The boring hole will be approximately four (4) to six (6) inches in diameter. Erosion and sedimentation controls will be used, as discussed in *Section 6* of this Narrative, to ensure wetland areas are protected.

Str	BVW	BLSF	100-ft BZ	200-ft RA	NHESP
B-T1		X	X	X	х
B-T2	X			X	х
В-Т3			X		х
B-T4			X		х
B-T7			X		
B-T13			X		х
B-T21			X		
B-T23			X		
B-T28	X				
B-T33			X		
B-T38	X				
B-T47			Х		

Table 3-1: Geotechnical soil boring locations and associated resource areas.

#### 4 CONFORMANCE WITH PERFORMANCE STANDARDS OF THE WPA

#### 4.1 Limited Project Status

B-T50

Although the Project meets the criteria to be considered a Limited Project, as outlined in 310 CMR 10.53(3)(d), which allows for "the construction, reconstruction, operation and maintenance of overhead public utilities that may, under certain circumstances, be permitted without meeting the performance standards of the WPA", the Project has been designed to meet all applicable performance standards for each affected resource area. In accordance with general condition 310 CMR 10.53(3)(d)(2), the proposed project will implement BMPs to ensure the adjacent resource areas are adequately protected, and impacts to the surrounding area are reduced, minimized, and restored to the maximum extent practicable. Project-specific BMPs are further discussed in Section 6.

## 4.2 Bordering Vegetated Wetlands (BVW)

The proposed activities meet the performance standards of the WPA at 310 CMR 10.55(4). Due to the nature and purpose of the proposed activities, there are no practicable alternatives to the Project. However, no significant adverse impacts on wetland resource areas or values protected by the WPA are anticipated. BMPs will be implemented to protect resource areas, and following the completion of work the areas will be restored the pre-existing conditions, as required for Limited Projects by the WPA regulations (310 CMR 10.53(3)(d)).

(a) Where the presumption set forth in 310 CMR 10.55(3) is not overcome, any proposed work in a Bordering Vegetated Wetland shall not destroy or otherwise impair any portion of said area.

The proposed project activities are temporary in nature, and will result in negligible impacts to BVW. Impacts are limited to the disturbance of approximately 3-sf of soil (during soil boring activities), and the use of 1.13 acres of temporary construction matting for access and work areas in BVW. BMPs, including the use of construction matting and sediment and erosion controls, will be used to ensure the protection of the resource areas.

- (b) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of up to 5000 square feet of Bordering Vegetated Wetland when said area is replaced in accordance with the following general conditions and any additional, specific conditions the issuing authority deems necessary to ensure that the replacement area will function in a manner similar to the area that will be lost.
- (c) Notwithstanding the provisions of 310 CMR 10.55(4)(a), the issuing authority may issue an Order of Conditions permitting work which results in the loss of a portion of Bordering Vegetated Wetland when;
  - 1. said portion has a surface area less than 500 square feet;
  - 2. said portion extends in a distinct linear configuration ("finger-like") into adjacent uplands; and
  - 3. in the judgment of the issuing authority it is not reasonable to scale down, redesign or otherwise change the proposed work so that it could be completed without loss of said wetland.

N/A – no loss of BVW is proposed. All project activities are temporary in nature, with negligible impacts.

(d) Notwithstanding the provisions of 310 CMR 10.55(4)(a), (b) and (c), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.

Activities within NHESP Habitat are limited to six (6) temporary soil borings, which will be performed in accordance with NEP's current OMP with NHESP. Protective measures such as time-of-year (TOY) restrictions, turtle sweeps, and the use of reptile-friendly sediment and erosion controls will be employed to ensure that soil boring activities do not harm rare species or their habitats.

(e) Any proposed work shall not destroy or otherwise impair any portion of a Bordering Vegetated Wetland that is within an Area of Critical Environmental Concern designated by the Secretary of Energy and Environmental Affairs under M.G.L. c. 21A, § 2(7) and 301 CMR 12.00: Areas of Critical Environmental Concern.

N/A – no activities are proposed within ACEC.

#### 4.3 Bordering Land Subject to Flooding (BLSF)

310 CMR 10.57(4)(a) – Bordering Land Subject to Flooding.

#### ATTACHMENT A - PROJECT NARRATIVE

T20 LINE GEOTECHNICAL SOIL BORINGS PROJECT *NOTICE OF INTENT* 

PAGE 6 OF 8

1. Compensatory storage shall be provided for all flood storage volume that will be lost as the result of a proposed project within Bordering Land Subject to Flooding, when in the judgment of the issuing authority said loss will cause an increase or will contribute incrementally to an increase in the horizontal extent and level of flood waters during peak flows.

N/A. No loss of flood storage volume is proposed, and soil boring activities will result in temporary impacts only.

> Work within Bordering Land Subject to Flooding, including that work required to provide the above-specified compensatory storage, shall not restrict flows so as to cause an increase in flood stage or velocity.

N/A. No loss of flood storage volume is proposed, and soil boring activities will result in temporary impacts only.

> Work in those portions of bordering land subject to flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions.

Work within BLSF will be temporary, and will not impair the capacity of BLSF to provide existing wildlife habitat functions. All activities are proposed within the existing, historically managed ROW, and will be consistent with existing conditions and land uses.

#### 4.4 Riverfront Area (200-ft RA)

Project activities within the 200-ft Riverfront Area are limited to two (2) soil borings, resulting in ~2-sf of temporary disturbance. The following outlines the Project's compliance with the Riverfront Area performance standards:

310 CMR 10.58(4)(a) - "Protection of Other Resource Areas. The work shall meet the performance standards for all other resource areas within the riverfront area..."

Soil borings within RA will conform will all applicable performance standards for overlapping BVW (see Section 4.1), and BLSF (Section 4.3).

310 CMR 10.58(4)(b) – "Protection of Rare Species. No project may be permitted within the riverfront area which will have any adverse effect on specified habitat sites of rare wetland or upland, vertebrate or invertebrate species, as identified by the procedures established under 310 CMR 10.59 or 10.37, or which will have any adverse effect on vernal pool habitat certified prior to the filing of the Notice of Intent"

Activities within NHESP habitat will be performed in accordance with NEP's current OMP with NHESP. Protective measures such as time-of-year (TOY) restrictions, turtle sweeps, and the use of reptile-friendly sediment and erosion controls will be employed to ensure that soil boring activities do not harm rare species or their habitats.

310 CMR 10.58(4)(c) – "Practicable and Substantially Equivalent Economic Alternatives. There must be no practicable and substantially equivalent economic alternative to the proposed project with less adverse effects on the interests identified in M.G.L. c. 131 § 40".

PAGE 7 OF 8

Due to the nature and purpose of the proposed activities, there are no practicable alternatives to the Project. Soil borings are proposed at the location of existing utility structures and are necessary to inform future maintenance and replacement of these structures.

## 5 CONFORMANCE WITH THE SPENCER BYLAW & VARIANCE REQUEST

Portions of the proposed work will occur within locally regulated resource areas, including within the 25-ft No Touch / No Disturb Zone, and the 100-ft BZ to BLSF. As described previously, soil boring activities will result in minimal, temporary, impacts to resource areas only, and appropriate Best Management Practices (BMPs), including sediment and erosion controls meeting the requirements of the Spencer Bylaw Section 16.3.1, will be implemented throughout construction and stabilization. Soil boring locations are determined by the location of the existing transmission line structures, and as such cannot be relocated outside of resource areas. As such, NEP is requesting a variance for work to be performed within the 100-ft BZ to BLSF, and the 25-ft No Touch Zone, in accordance with Section 17 of the Spencer Bylaw.

#### 6 PROPOSED MITIGATION TECHNIQUES

NEP has established procedures that are to be followed by all employees and contractors for accessing sites and performing construction activities on ROWs. These procedures ensure that NEP's projects are completed in accordance with all applicable environmental laws and regulations as well as with NEP policies and compliance objectives. The following sections include a summary of BMPs that will be implemented for this Project. See **Attachment D** for an excerpt of National Grid's Environmental Guidance Document, Access, Maintenance and Construction Best Management Practices.

#### 6.1 Sediment and Erosion Controls

Erosion and sediment control measures may be installed prior to the commencement of work, as necessary. These controls will function to mitigate work-related erosion and sedimentation, and to serve as a physical boundary that delineate work areas and contain construction activities within approved locations. Erosion and sediment control measures may include silt fence, weed free straw bale barriers, straw wattles, or similar treatment.

BMPs will be inspected and maintained in working order until all disturbed areas are stabilized. Please refer to **Attachment D** for erosion and sediment control details.

#### 6.2 Construction Access

Existing and historically used access routes (when present within the ROW), will be utilized to the greatest extent practicable, as shown on the Geotechnical Soils Borings Plan in **Attachment B**. Access to the structures will be from public roadways, as indicated on the Soil Borings Plan. Temporary construction mats will be used to provide access across wetlands. Construction mats are a typical BMP used by NEP to protect wetland soils, root systems/seed banks, and existing vegetation. Where possible, construction mats will be placed on top of existing vegetation, and will be removed upon completion of work. Some trimming of woody vegetation may be required for

#### ATTACHMENT A – PROJECT NARRATIVE

T20 LINE GEOTECHNICAL SOIL BORINGS PROJECT NOTICE OF INTENT PAGE 8 OF 8

the placement of mats in scrub/shrub wetlands. If necessary, the wetland area will be restored through seeding and stabilization.

#### 6.3 Restoration of Disturbed Areas

Disturbed areas will be returned to pre-construction conditions to the extent practicable. As necessary, disturbed areas will be seeded with an appropriate conservation seed mixture and/or mulched and allowed to re-vegetate.

Erosion and sediment control devices will be removed following stabilization of disturbed areas. Temporary construction mats will be removed following the work. In addition, construction debris and non-biodegradable controls will be removed from the site during restoration.

#### 7 CONCLUSION

Although portions of the Project will occur within wetland resource areas, the proposed Project will:

- Minimize disturbance by utilizing an existing disturbed ROW to the greatest extent practicable;
- Result in only minor and temporary impacts to BVW, BLSF, 200-ft RA and 100-ft BZ;
- Utilize appropriate BMPs to protect wetland resource areas from sedimentation and soil disturbance during boring activities; and
- Qualify as a Limited Project under the WPA provisions for public utilities [310 CMR10.53(3)(d)].

Therefore, NEP requests the Spencer Conservation Commission find this proposal adequately protective of the public interests identified in the WPA and the Spencer Bylaw and issue an Order of Conditions for the Project as described herein.

# **Attachment B**

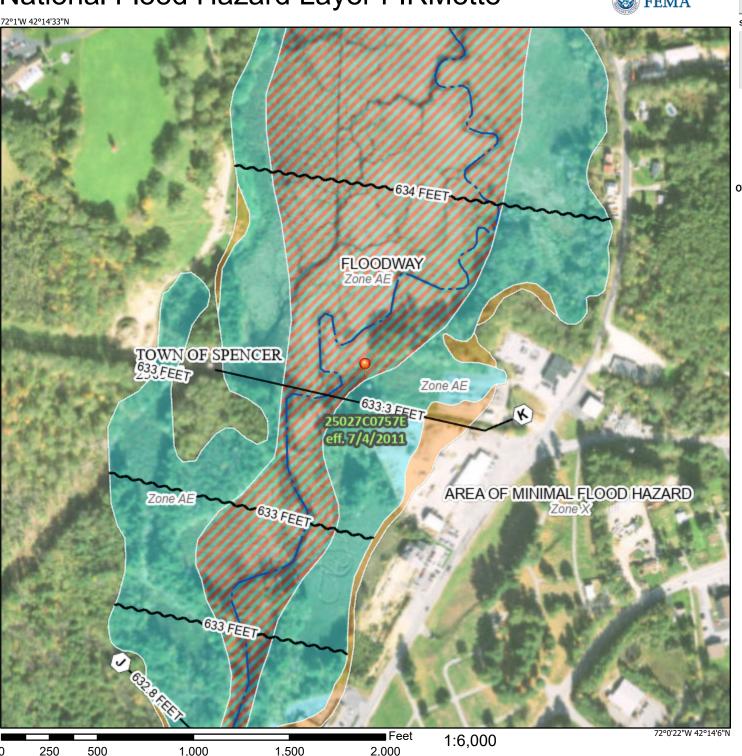
T20 ACR Project – Soil Borings Phase Spencer, Massachusetts Notice of Intent

USGS Site Locus Map FEMA FIRMette Environmental Resources Map



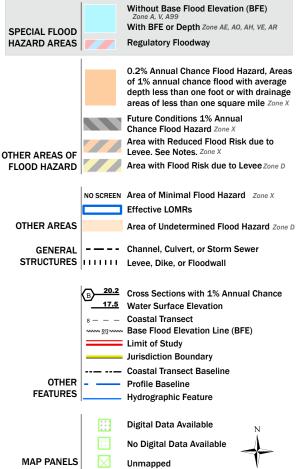
# National Flood Hazard Layer FIRMette





#### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



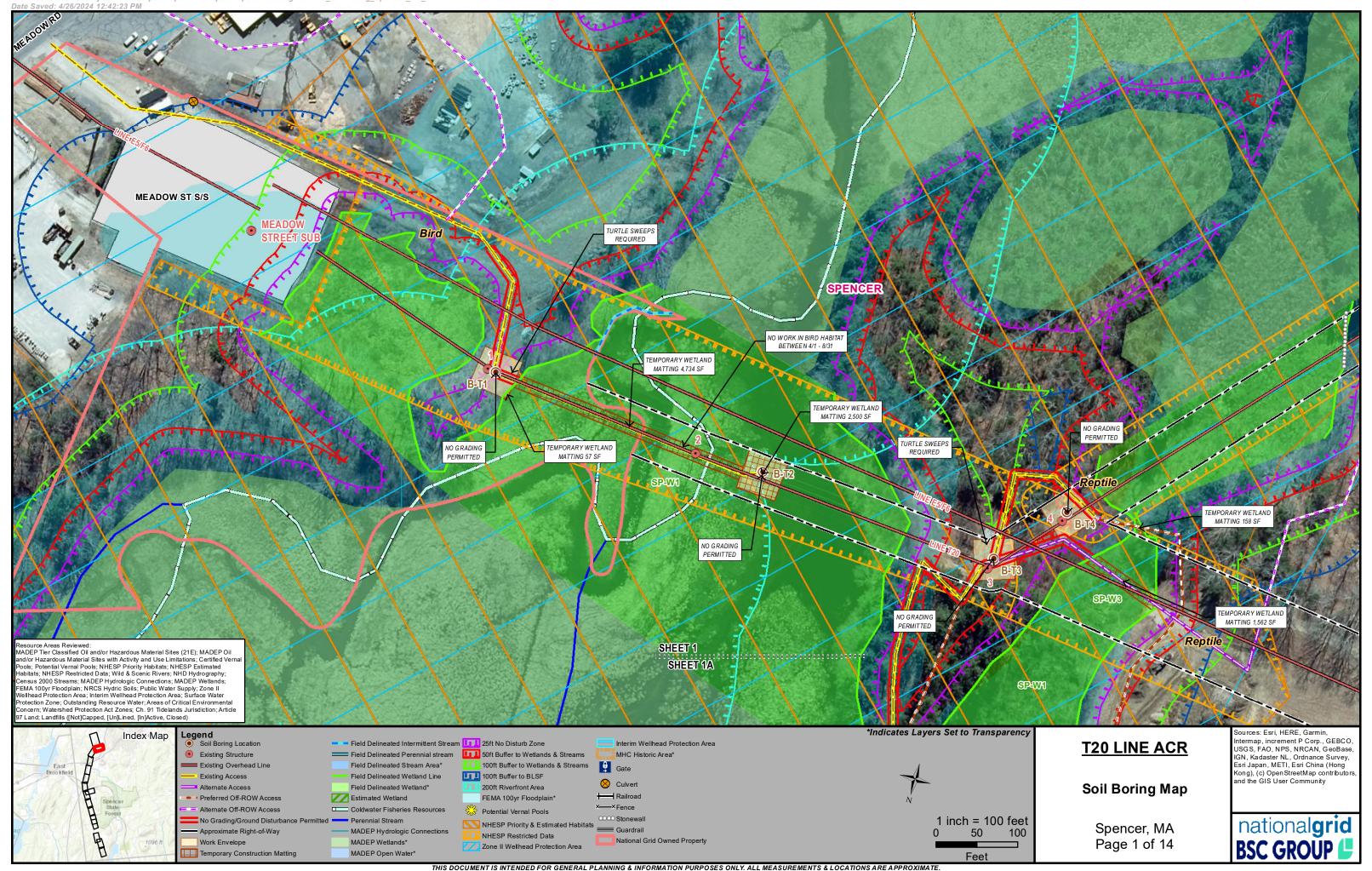
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

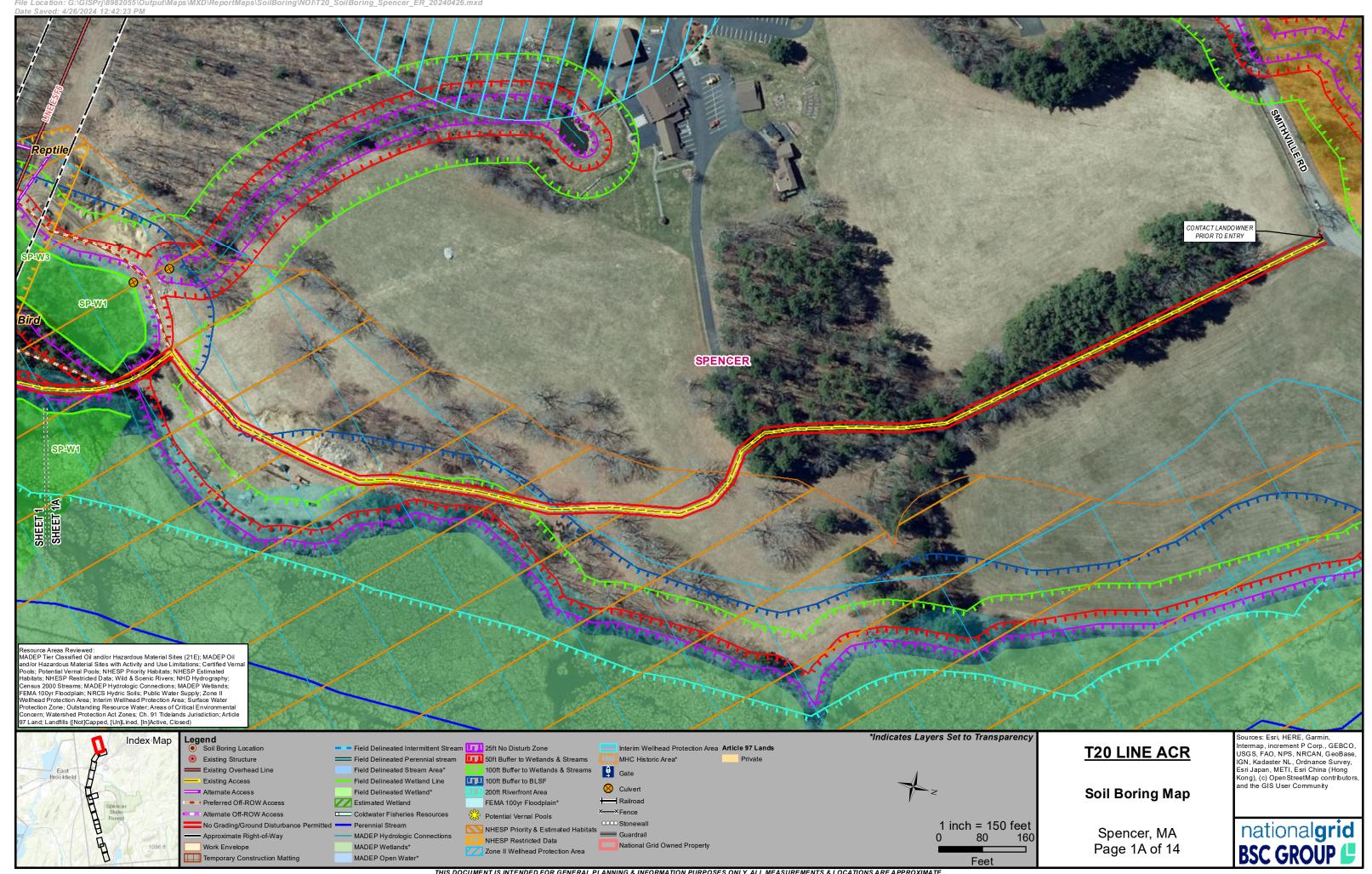
The pin displayed on the map is an approximate point selected by the user and does not represent

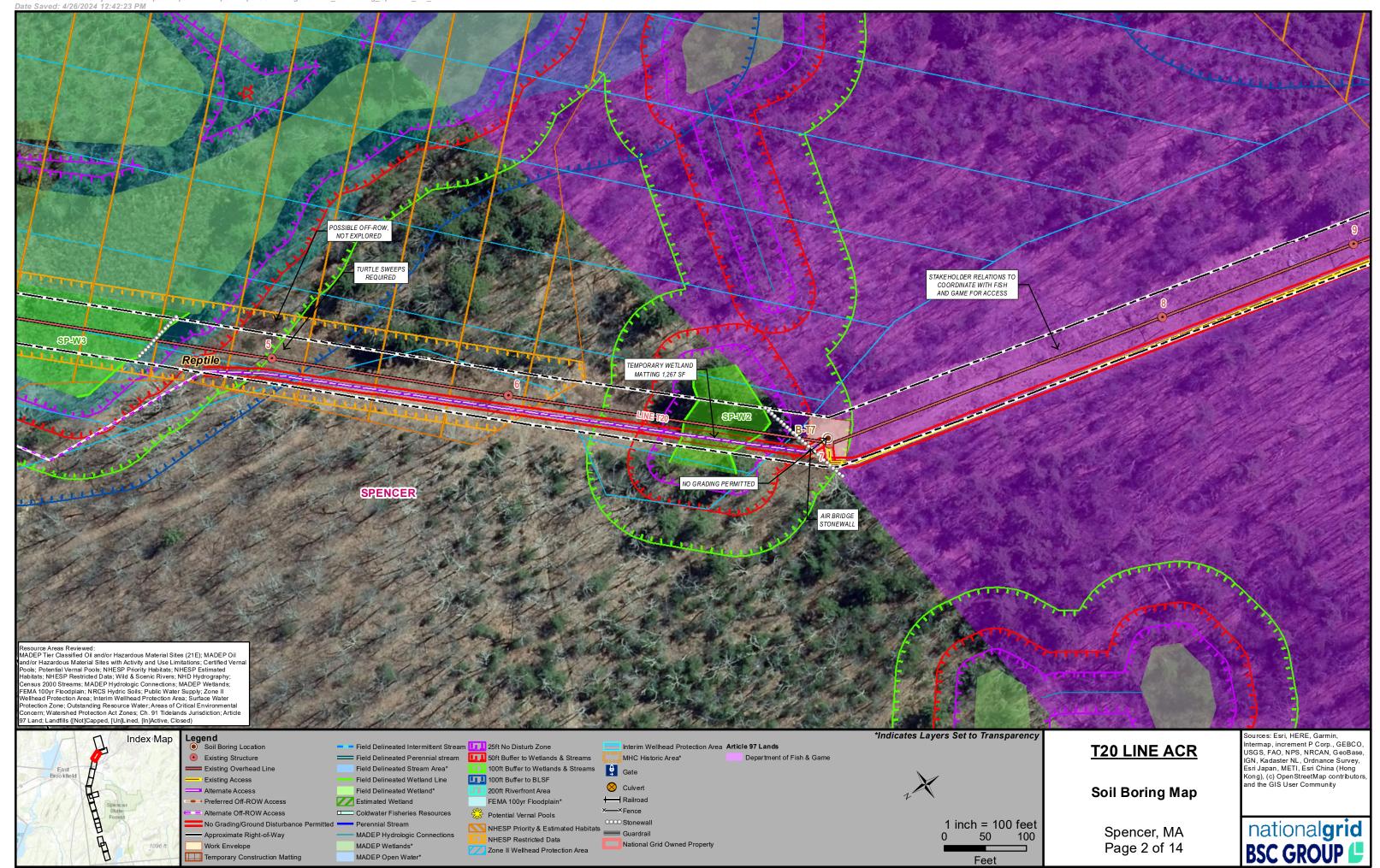
an authoritative property location.

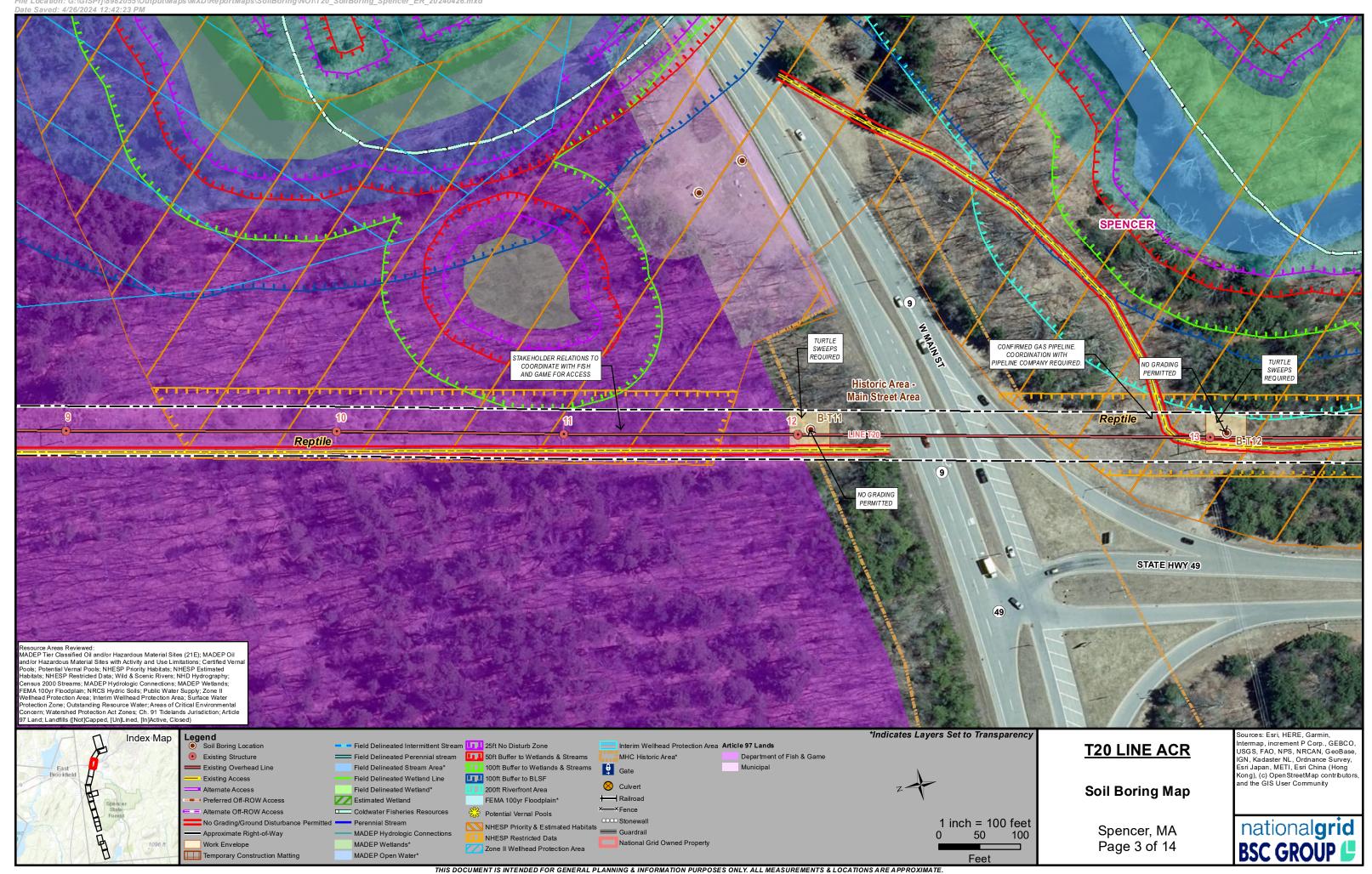
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/22/2024 at 8:59 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

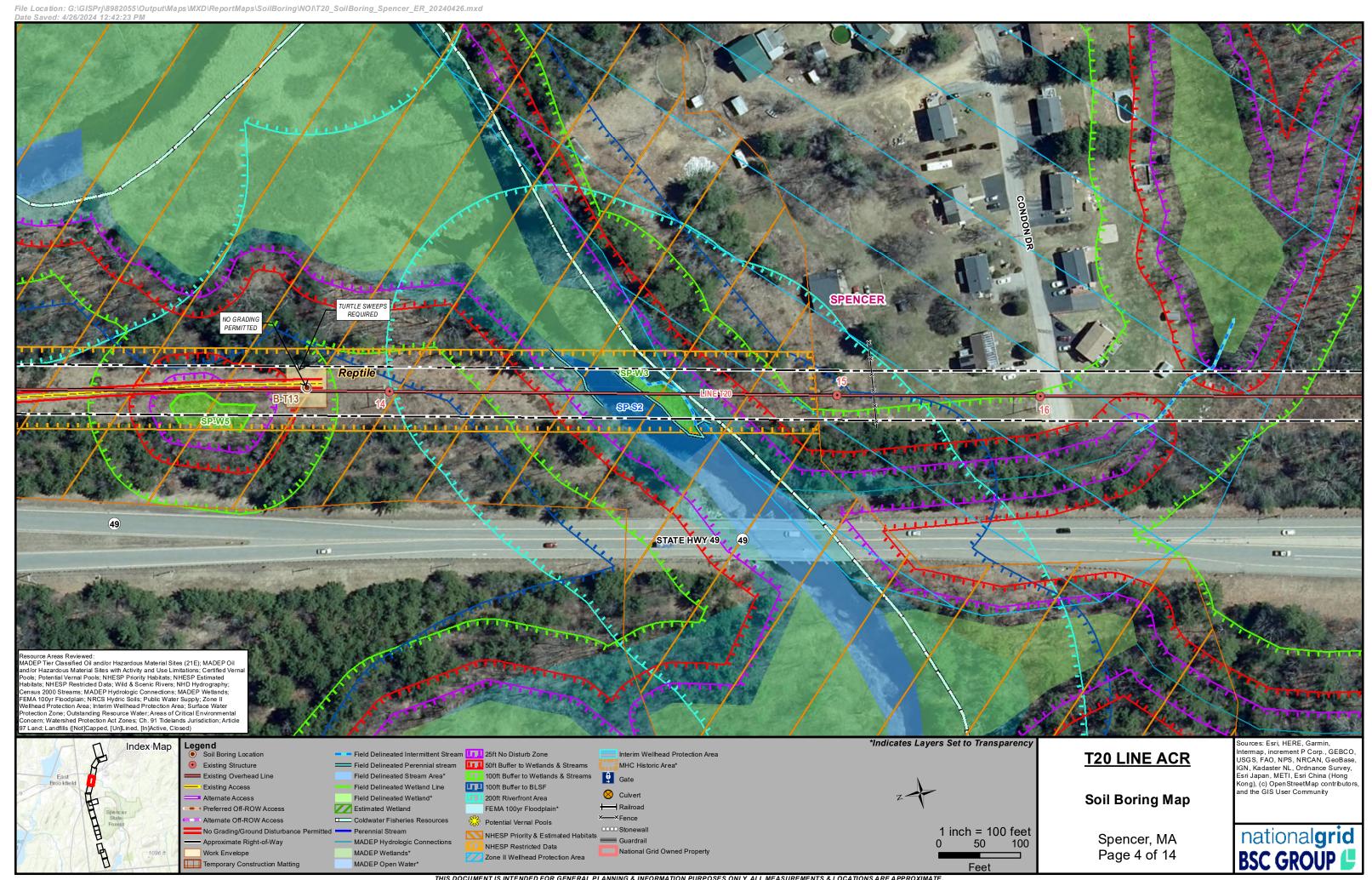
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

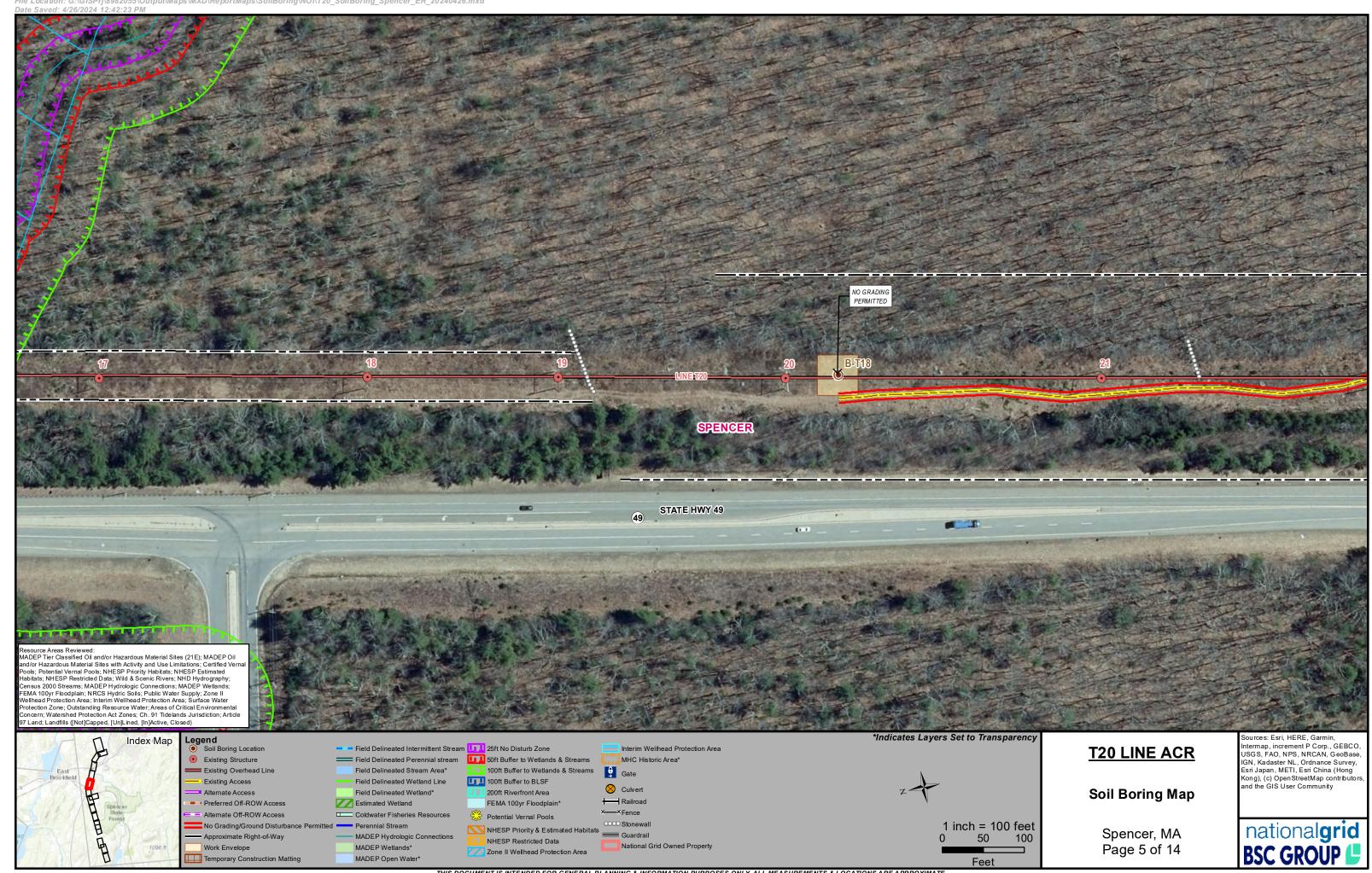


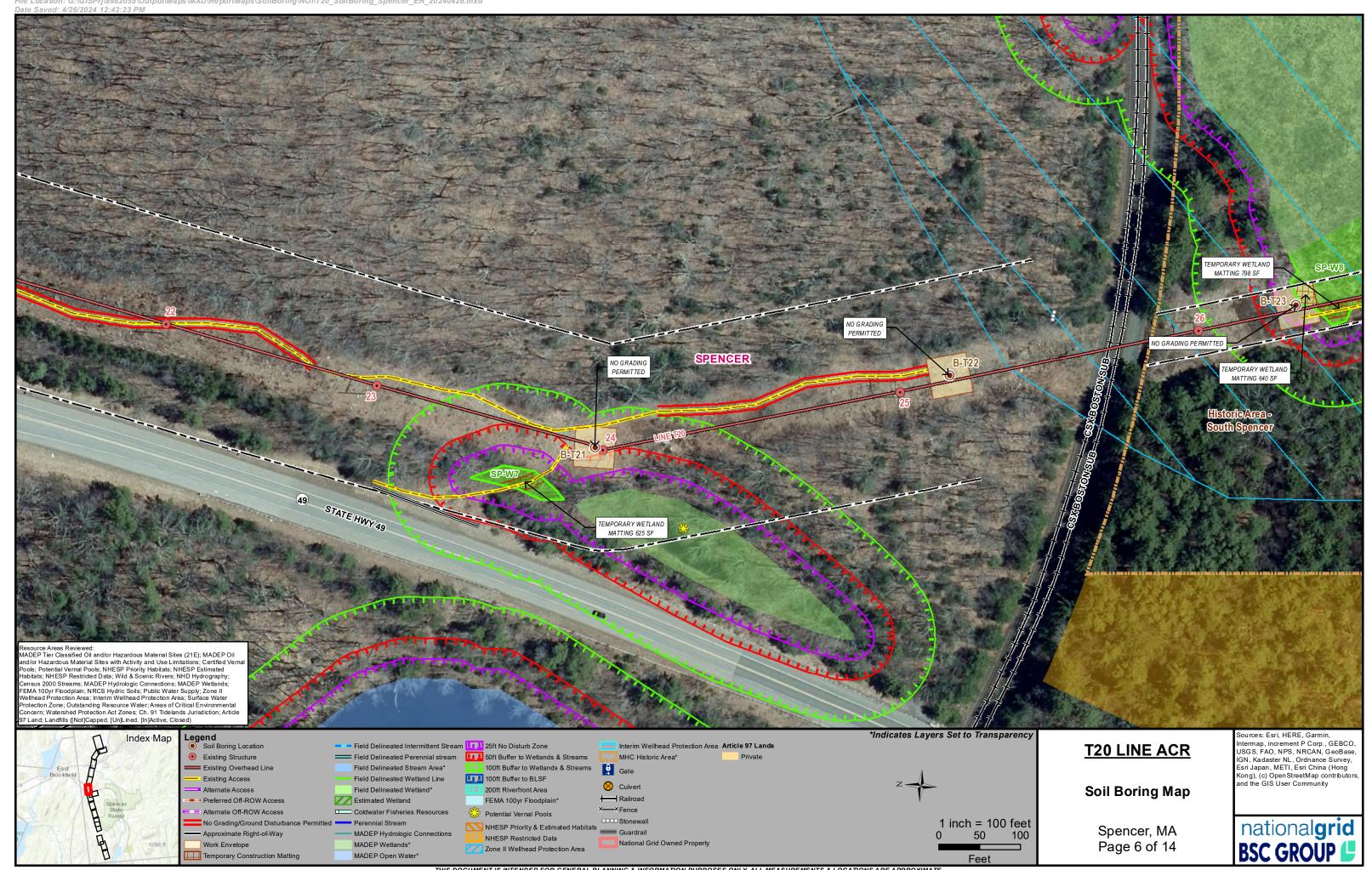


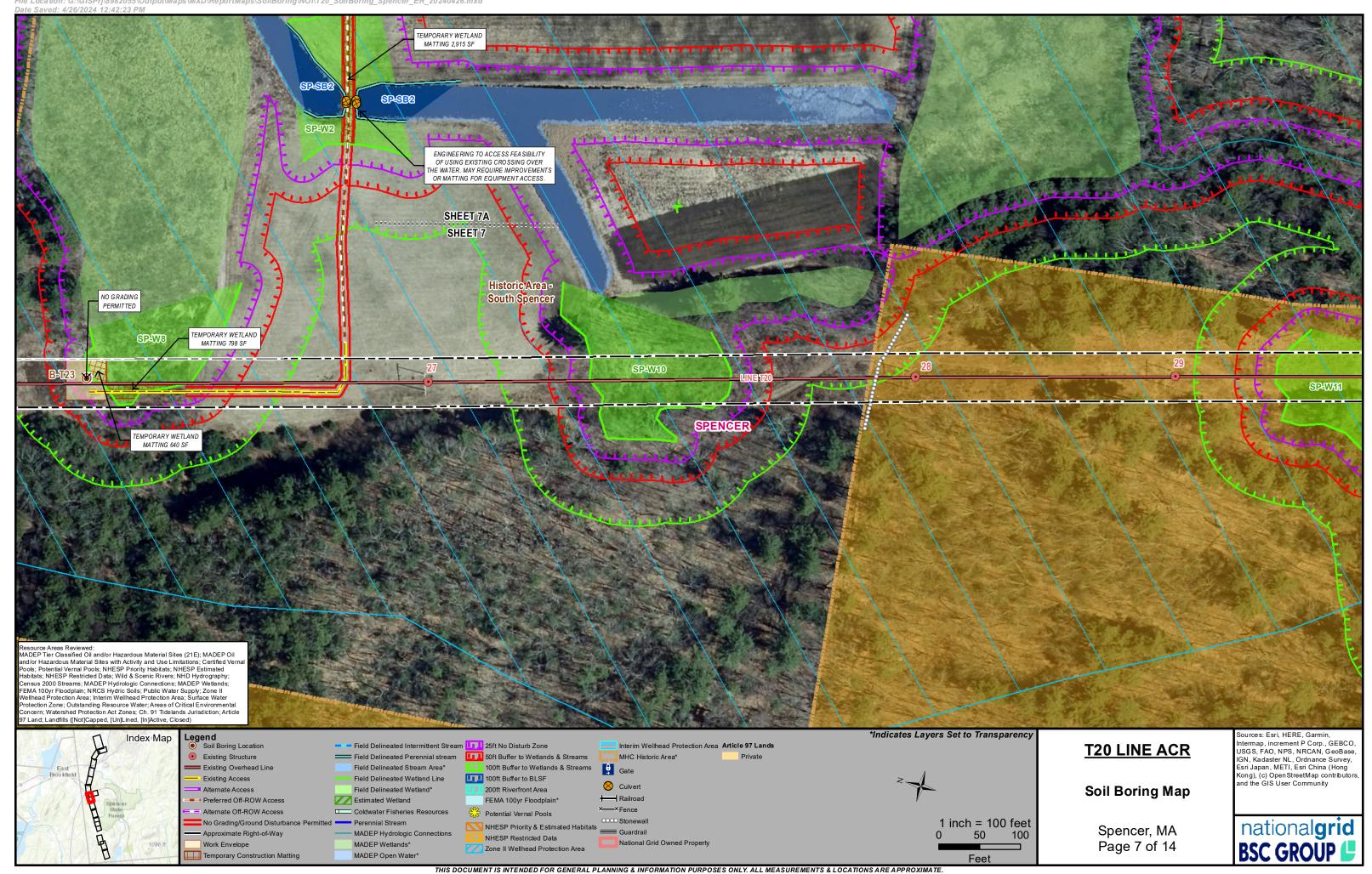


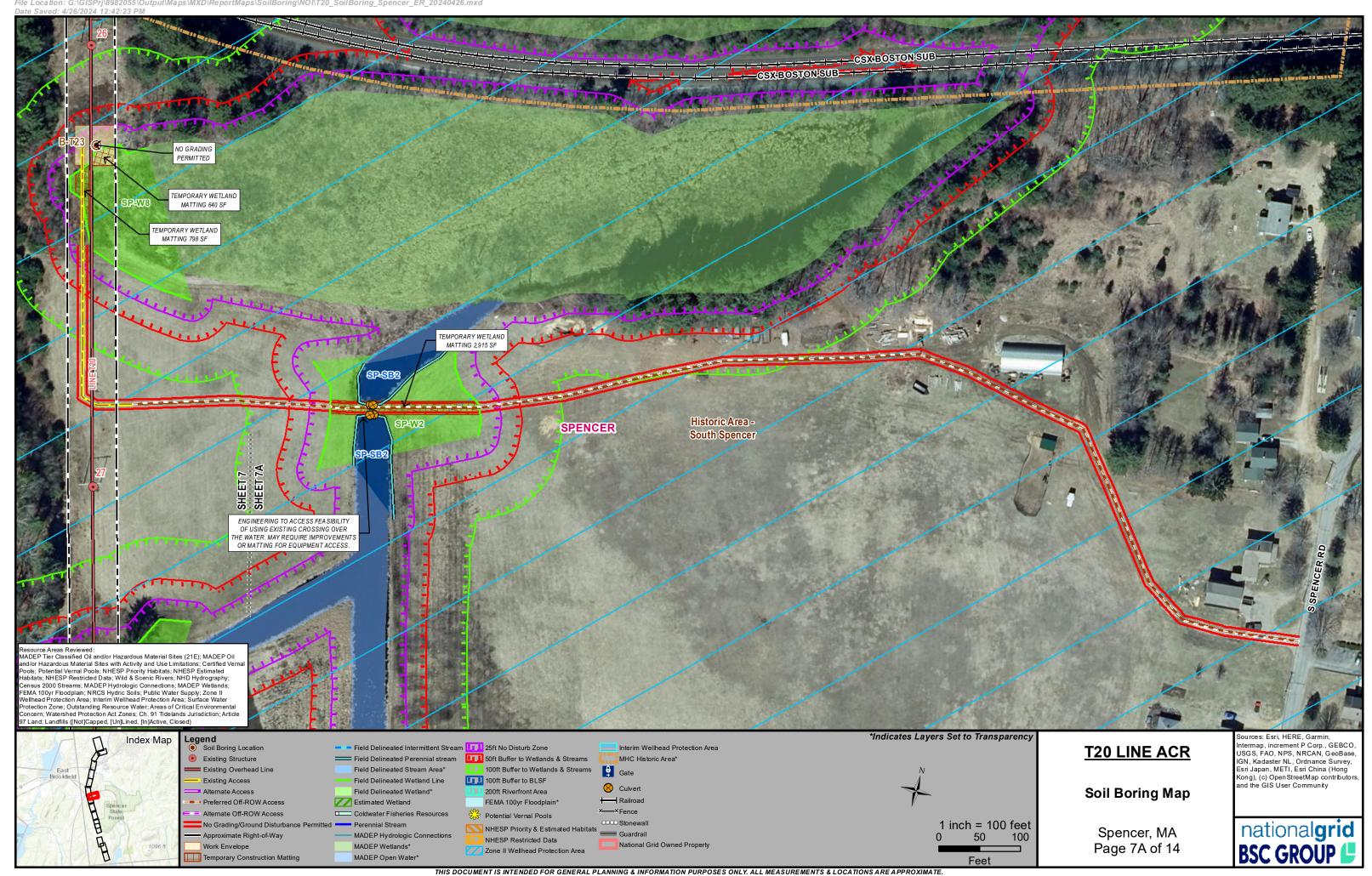


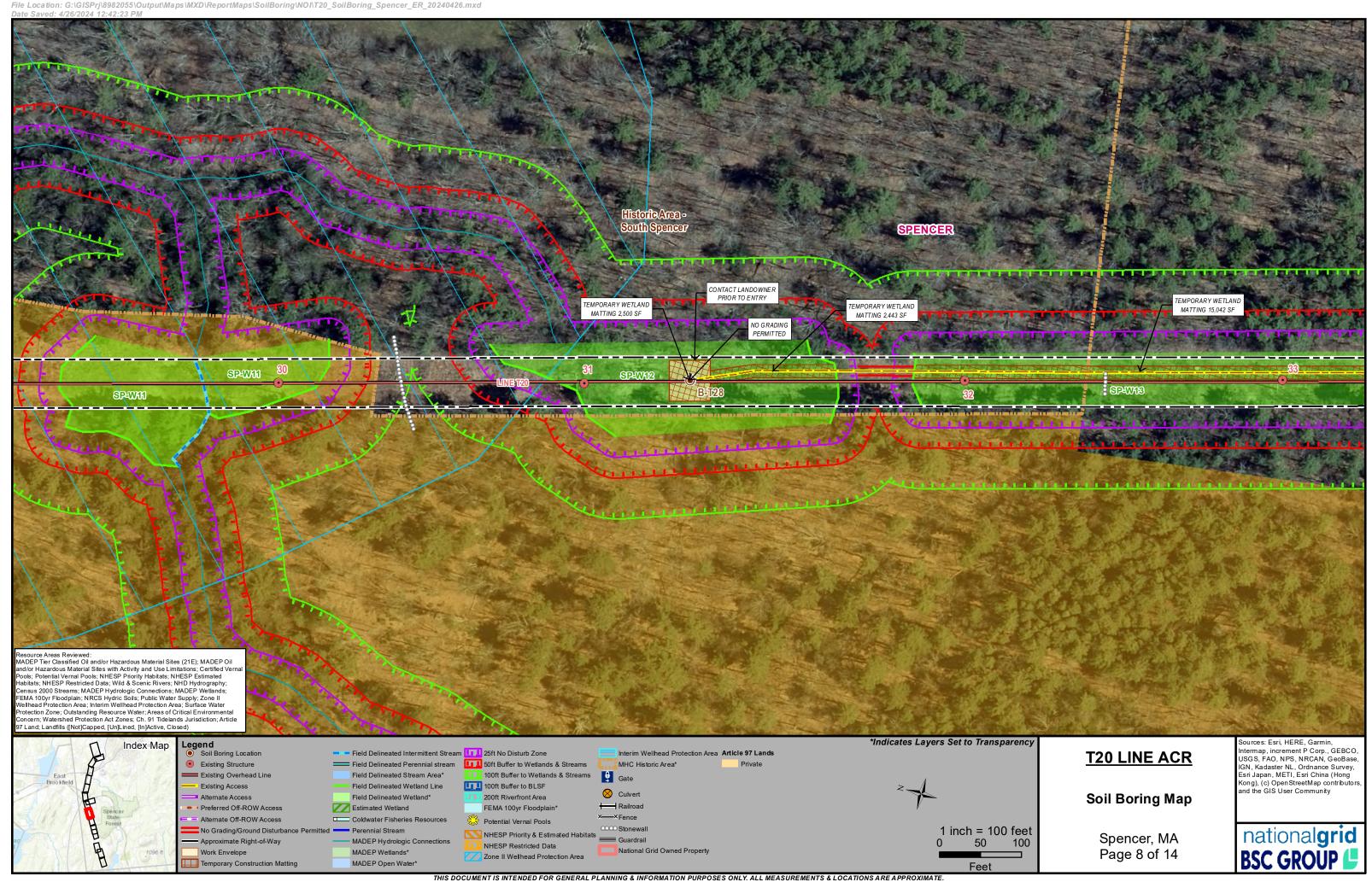


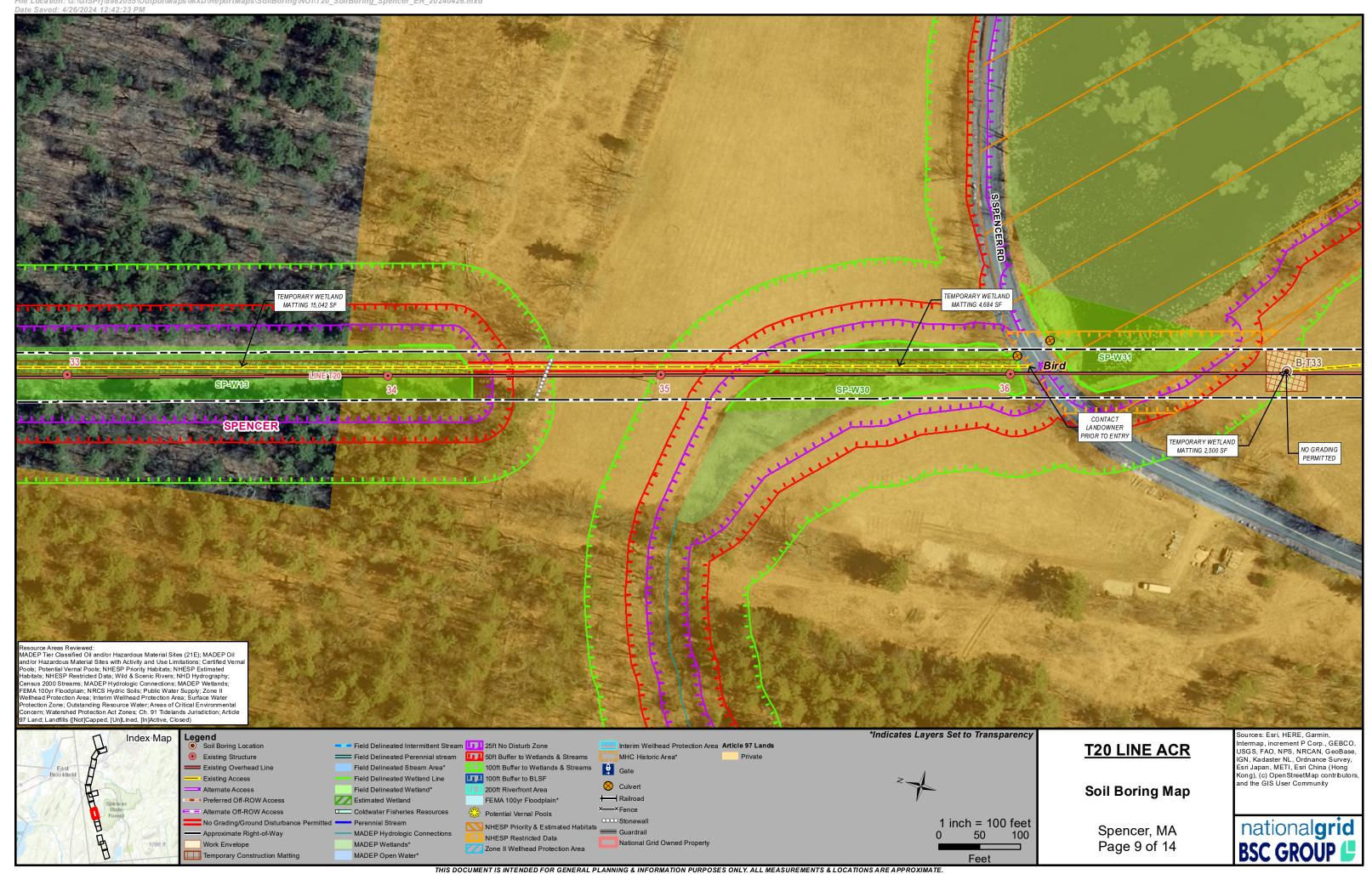


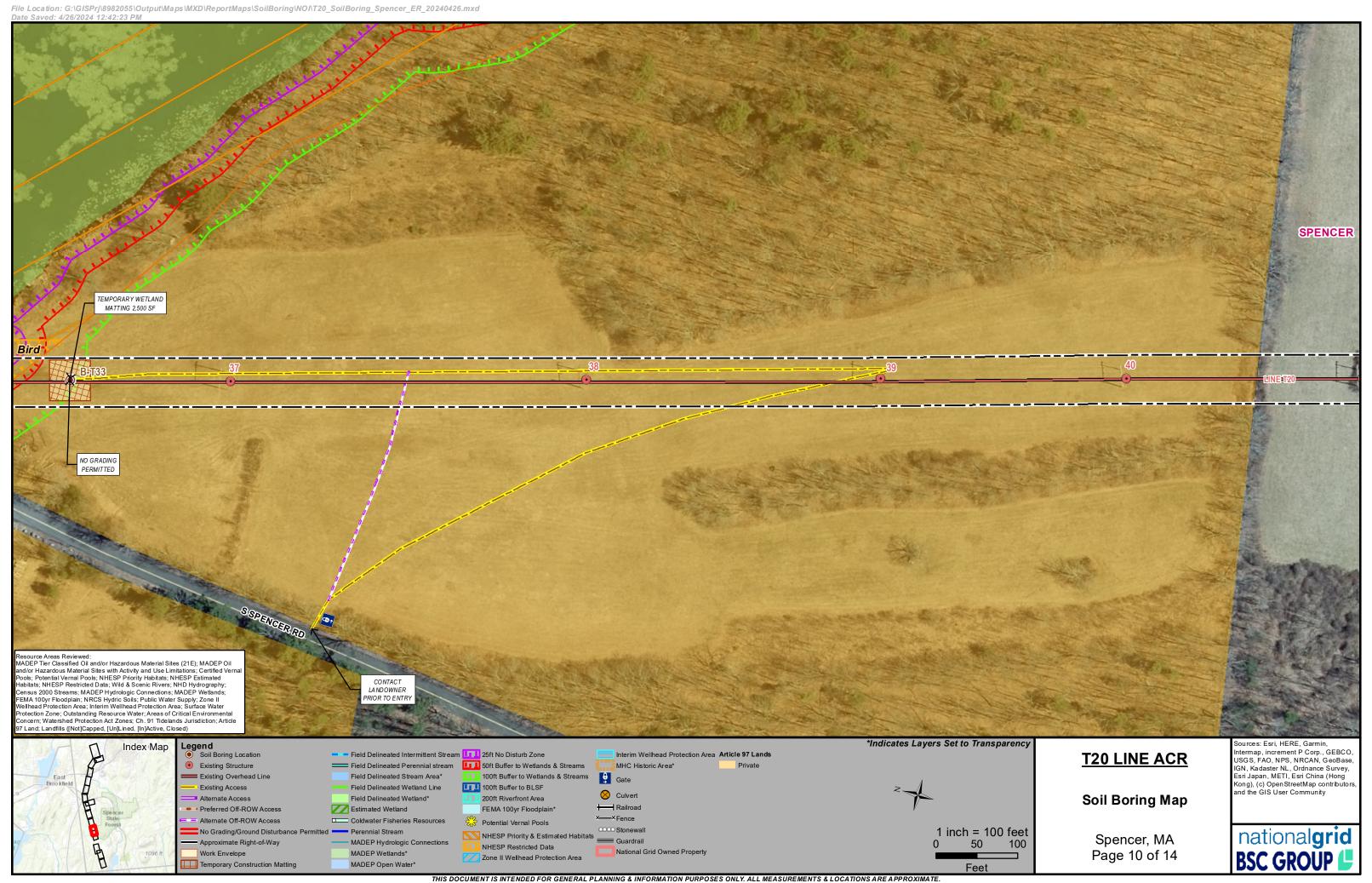


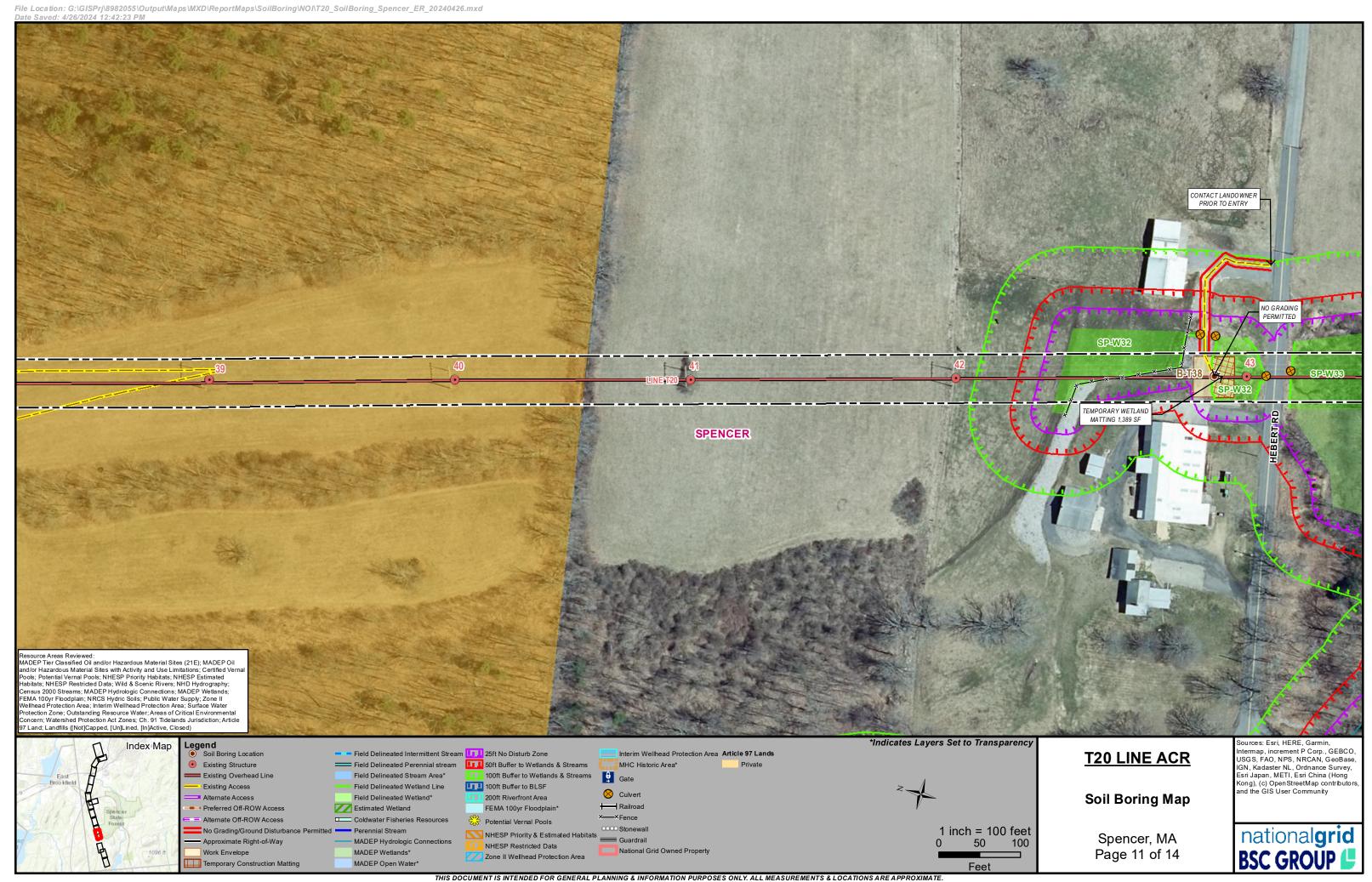


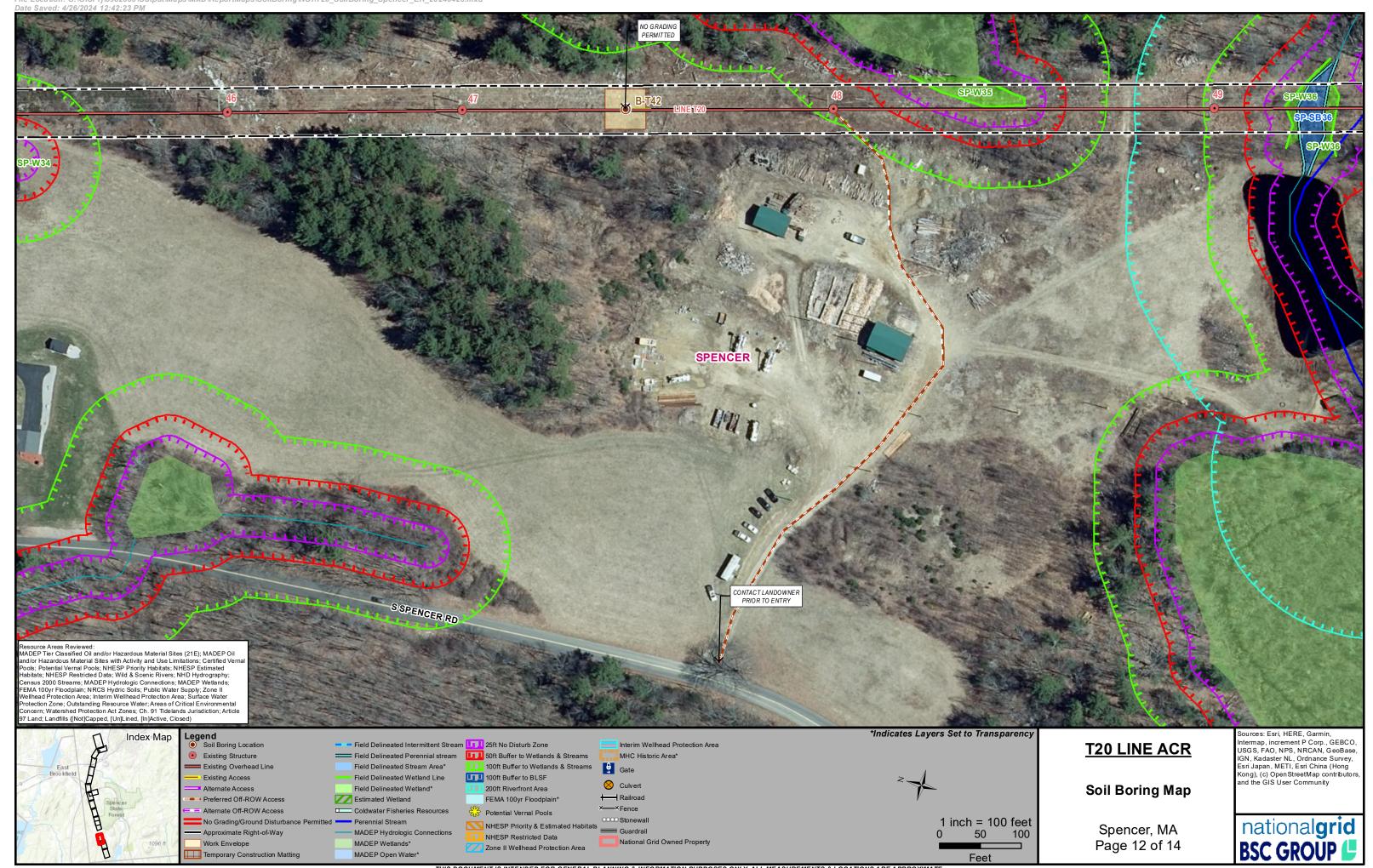


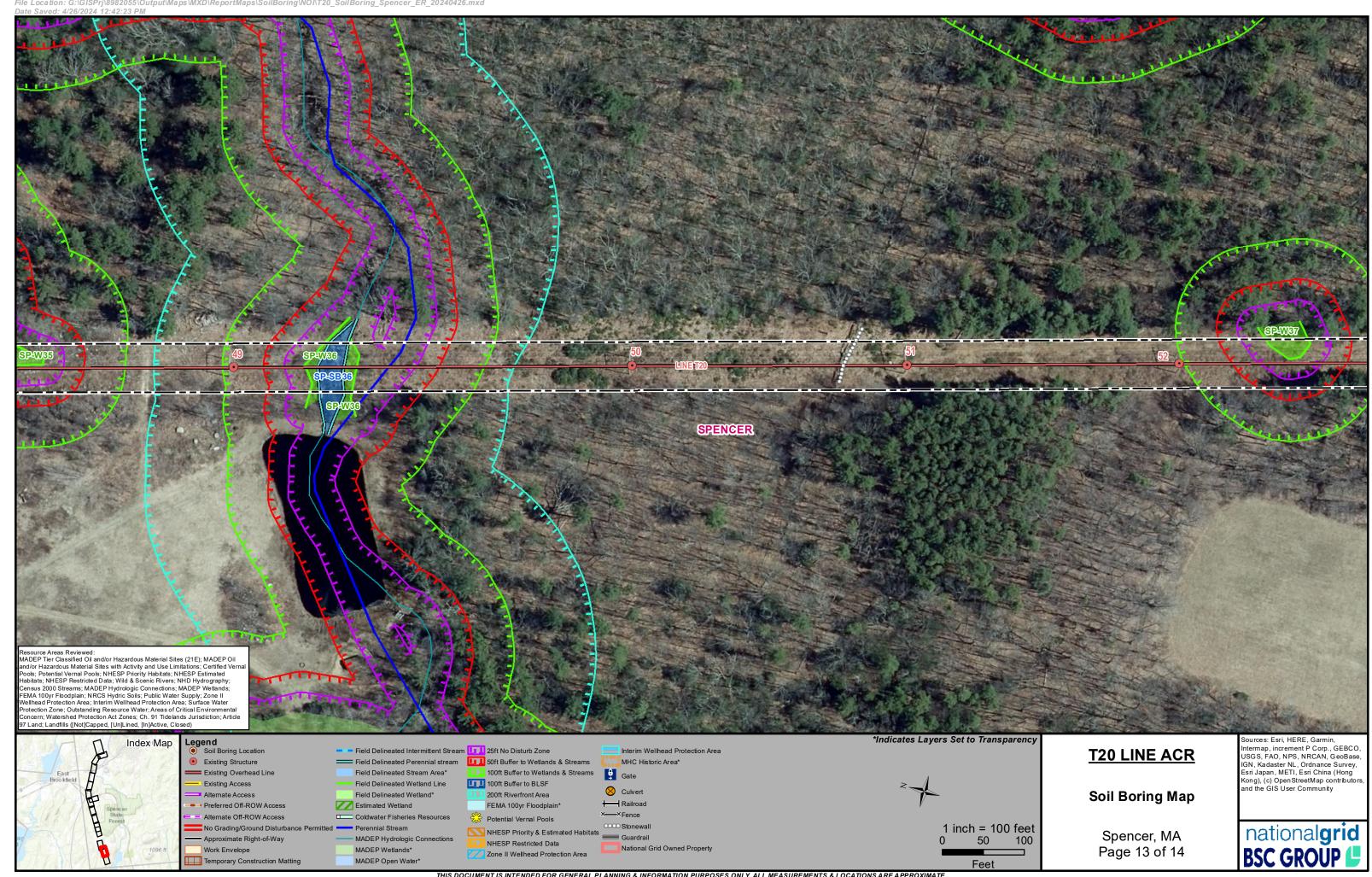


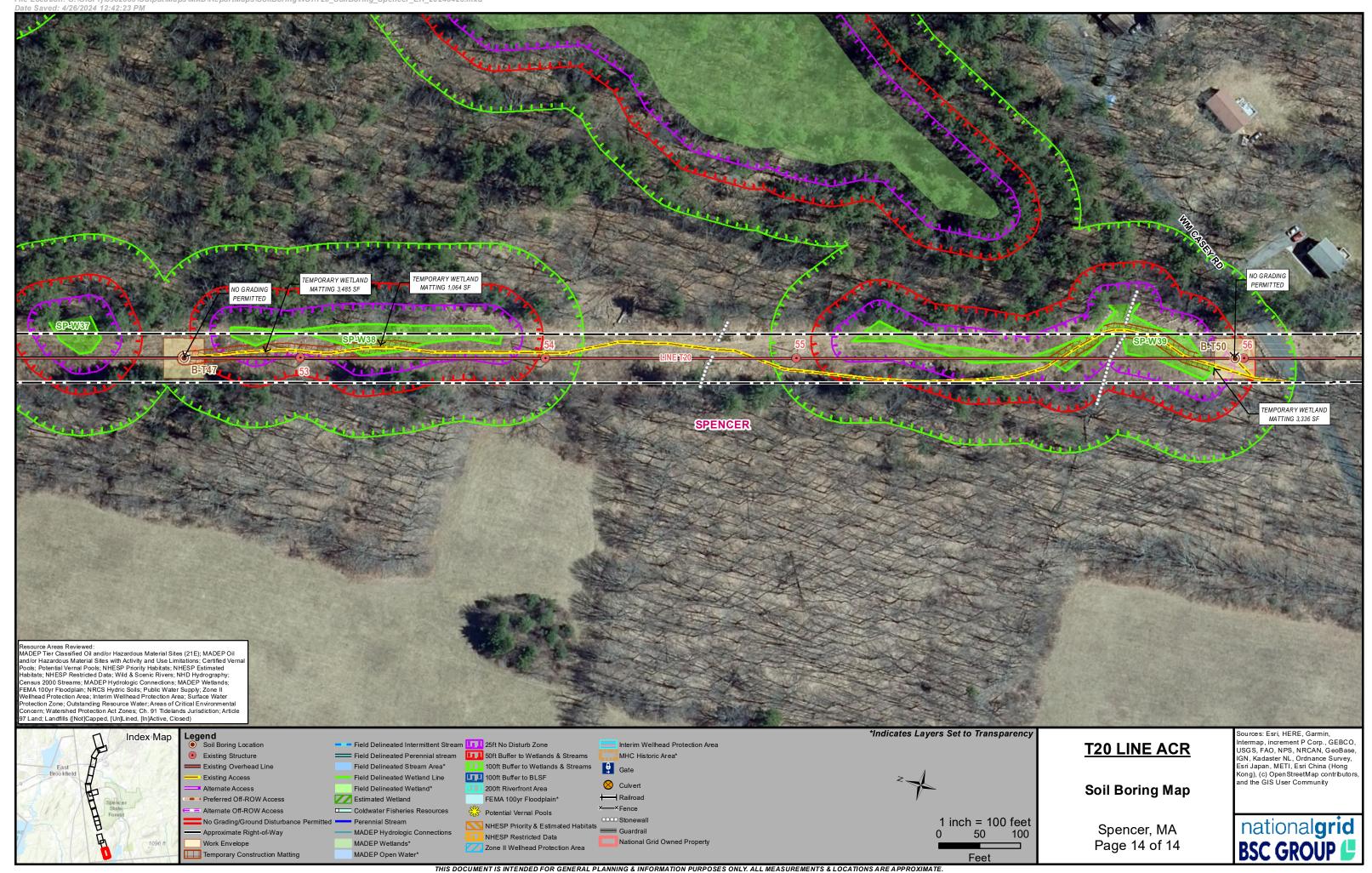












#### **Attachment C**

T20 ACR Project – Soil Borings Phase Spencer, Massachusetts Notice of Intent

**Site Photographs** 



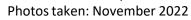






Photo #1: View of deep emergent wetland SP-W1, near Str 2 (soil boring B-T2), marked with a white arrow.



Photo #2: View of deep emergent wetland SP-W1, near Str 2 (soil boring B-T2), marked with a white arrow.





**Photo #3**: View of wetland SP-W2, between poles 6 and 7. Access through the wetland will require temporary construction matting.



**Photo #4:** View of wetland SP-W30, between poles 35 and 36. Access through the wetland will require temporary construction matting.





**Photo #5**: View of pole 43, within wetland SP-W32. Temporary construction matting will be required for a work pad at this soil boring location.



**Photo #6:** View of wetland SP-W38. Temporary construction matting will be required for access through this wetland to reach soil boring B-T47.

#### **Attachment D**

T20 ACR Project – Soil Borings Phase Spencer, Massachusetts Notice of Intent

> Certified List of Abutters Copy of Abutters Notice Affidavit of Service

> > **Attachment E**





#### **BOARD OF ASSESSORS**

**157 MAIN STREET** SPENCER, MA 01562

TEL: 508-885-7500 x165

LOCATION: T20 electric transmission line - Various

PARCEL ID: R30-1, R30-2, U11-9, R29-23, R29-6, R20-23, R20-20, R11-4, R10-1, R01-18

The following is a list of abutters to the property designated on the application for appeal. "Parties in interest" shall mean the petitioners, abutters, owners of land directly opposite on any public or private street or way, and abutters to the abutters within 300 feet of the property line of the petitioner as they appear on the most recent taxable tax list, notwithstanding that the land of such owner is located in another city or town, the planning board of the city or town.

MAILING ADDRESS **OWNERS NAME** 

R01-15	KENT CHRISTOPHER M	17 WM CASEY RD	SPENCER	MA	01562
R01-15-1	GIBBONS WILLIAM N	25 WM CASEY RD	SPENCER	MA	01562
R01-15-2	GIBBONS WILLIAM N	25 WM CASEY RD	SPENCER	MA	01562
R01-16	WATSON GEORGE W JR	27 WM CASEY RD	SPENCER	MA	01562
R01-16-1	WATSON GEORGE W JR	27 WM CASEY RD	SPENCER	MA	01562
R01-16-2	STODARD PHILIP R	33 WILLIAM CASEY ROAD	SPENCER	MA	01562
R01-16-3	STODARD PHILIP R	33 WILLIAM CASEY RD	SPENCER	MA	01562
R01-16-4	PERCHAK MICHAEL J JR	74 JOLICOEUR AVE	SPENCER	MA	01562
R01-17	BEDROSIAN REALTY TRUST	38 SUNNYHILL RD	LUNENBURG	MA	01462
R01-19	MORRISSEY MICHAEL J	37 WM CASEY RD	SPENCER	MA	01562
R01-2	LACROIX DAVID L	185 SO SPENCER RD	SPENCER	MA	01562
R01-20	FOURNIER DIANE	39 WM CASEY RD	SPENCER	MA	01562
R01-21	TURNING POINT HOME BUYERS LLC	275 CENTRAL ST	BERLIN	MA	01503



#### **BOARD OF ASSESSORS**

157 MAIN STREET SPENCER, MA 01562

TEL: 508-885-7500 x165

R01-22	NICOL STEPHEN E	43 WM CASEY RD	SPENCER	MA	01562
R01-3	THE BETSY A ARAKELIAN IRR TRUST	187 SO SPENCER RD	SPENCER	MA	01562
R01-4	PLANTE DAVID G	P O BOX 161	E BROOKFIELD	MA	01515
R01-5	STURROCK JAMES D	191 SO SPENCER RD	SPENCER	MA	01562
R01-6	BRUNETTE JOSEPH L	193 SO SPENCER RD	SPENCER	MA	01562
R01-7	MULLENS DOUGLAS K	197 SO SPENCER RD	SPENCER	MA	01562
R09-4	WILLIAM CASEY ESTATES LLC	184 MAIN ST	SPENCER	MA	01562
R10-1	BERCUME EVAN D	159 SO SPENCER RD	SPENCER	MA	01562
R10-2	COMMONWEALTH OF MA - DIV OF CAPITAL PLANNING	1 ASHBURTON PLACE	BOSTON	MA	02108
R10-18	THOMAS ROGER O	P O BOX 24	SPENCER	MA	01562
R10-18-1	SANDY ALBERT C	20 WM CASEY RD	SPENCER	MA	01562
R10-18-2	CAMPOS FRANKLIN E CARIAS	18 WM CASEY RD	SPENCER	MA	01562
R10-20-4	JOHNS FAMILY 2017 REVOC LIVING TRUST	15 HEBERT RD	SPENCER	MA	01562
R10-20-5	CYR JEFFREY D & DEBORAH L - TRUSTEES	17 HEBERT RD	SPENCER	MA	01562
R10-21	BARBATO JOHN L	166 SO SPENCER RD	SPENCER	MA	01562
R10-23	BERCUME KIM M & DAVID A - TRUSTEES	169 SO SPENCER RD	SPENCER	MA	01562
R10-24	BARBATO JOHN L	166 SO SPENCER RD	SPENCER	MA	01562
R10-25	BULAK DAVID E	3 TOM CASEY RD	SPENCER	MA	01562
R10-25-1	FORAND ALBERT JR	1 TOM CASEY RD	SPENCER	MA	01562
R10-27	WELLS PETER D	158 SO SPENCER RD	SPENCER	MA	01562
R11-1	ZANAUSKAS DAVID J	111 SO SPENCER RD	SPENCER	MA	01562
R11-2	GLASS DAVID W	123 SO SPENCER RD	SPENCER	MA	01562
R11-3	JOHNSON STANLEY H	PO BOX 156	SOUTH BARRE	MA	01074- 0156
R11-4	PLOURDE ROGER P JR	PO BOX 322	HUBBARDSTON	MA	01452
R11-5	PLOURDE ROGER P JR	PO BOX 322	HUBBARDSTON	MA	01452
R11-5-1	RYERSON EDWARD MITCHELL	12 UPTON ST	CAMBRIDGE	MA	02139
R11-7	MANNIX MAUREEN W	116 SO SPENCER RD	SPENCER	MA	01562
R11-8	BARNES RUSSELL A	114 SO SPENCER RD	SPENCER	MA	01562
	l	<u>l</u>		1	ı



#### **BOARD OF ASSESSORS**

157 MAIN STREET SPENCER, MA 01562

TEL: 508-885-7500 x165

R20-10	CURREN KYLE JOHN	2 LYFORD CROSS RD	SPENCER	MA	01562
R20-10-9	CAFFARENA PABLO G	6 LYFORD CROSS RD	SPENCER	MA	01562
R20-8	SEPUKA JARED T	81 SO SPENCER RD	SPENCER	MA	01562
R20-9	BENOIT PATRICIA A	85 SO SPENCER RD	SPENCER	MA	01562
R20-11	MCINTYRE SHERYLE K - TRUSTEE	94 SO SPENCER RD	SPENCER	MA	01562
R20-12	LAVENTURE ELIZABETH T	93 SO SPENCER RD	SPENCER	MA	01562
R20-12-1	LAVENTURE WILLIAM C	95 SO SPENCER RD	SPENCER	MA	01562
R20-13	ROY ANDRE J	99 SO SPENCER RD	SPENCER	MA	01562
R20-14	ROY ANDRE J	99 SO SPENCER RD	SPENCER	MA	01562
R20-15	LEFTER MELISSA	105 SO SPENCER RD	SPENCER	MA	01562
R20-15-1	LINEEN TAMMY S	103 SO SPENCER RD	SPENCER	MA	01562
R20-16	SOUSA CAITLYN	107 SO SPENCER RD	SPENCER	MA	01562
R20-17	ZANAUSKAS JOHN D	109 SO SPENCER RD	SPENCER	MA	01562
R20-18	MITCHELL RONALD	110 SO SPENCER RD	SPENCER	MA	01562
R20-19	ARBOUR GEORGE J	104 SO SPENCER RD	SPENCER	MA	01562
R20-20	NORDQUIST KURT A	8 GALE DR	SPENCER	MA	01562
R20-20-1	LAFLAMME EDMUND A JR	98 SO SPENCER RD	SPENCER	MA	01562
R20-20-2	BELINSKAS FAMILY TRUST	5 GALE DR	SPENCER	MA	01562
R20-21	MCINTYRE SHERYLE K - TRUSTEE	94 SO SPENCER RD	SPENCER	MA	01562
R20-22	GAUCHER ROLAND F	90 SO SPENCER RD	SPENCER	MA	01562
R20-23	ORMSBEE HAROLD	84 SO SPENCER RD	SPENCER	MA	01562
R20-23-1	GAUCHER ROGER C	90 SO SPENCER RD	SPENCER	MA	01562
R20-24	MCGINN PETER T	82 SO SPENCER RD	SPENCER	MA	01562
R20-25	DEL BOSQUE ROBERTO ANTONIO	78 SO SPENCER RD	SPENCER	MA	01562
R20-26	SUTTON BARRY	80 SO SPENCER RD	SPENCER	MA	01562
R20-27	TOWN OF SPENCER	157 MAIN ST	SPENCER	MA	01562
R21-1	CHARPENTIER JOHN A	50 SHERBURNE AVE	WORCESTER	MA	01606
R21-2	CHARPENTIER JOSEPH P	17 DEPOT RD	SPENCER	MA	01562



#### **BOARD OF ASSESSORS**

157 MAIN STREET SPENCER, MA 01562

TEL: 508-885-7500 x165

R21-24	WALES EDWARD J	30 CONDON DR	SPENCER	MA	01562
R21-27	TERVO SHANNON DARCEY	22 CONDON DR	SPENCER	MA	01562
R21-28	RICHARD DIANA M	18 CONDON DR	SPENCER	MA	01562
R21-31-1	MOIR SHERYL	10 CONDON DR	SPENCER	MA	01562
R29-1	TOWN OF SPENCER	157 MAIN ST	SPENCER	MA	01562
R29-5	COMMONWEALTH OF MA - DIV OF CAPITAL PLANNING	1 ASHBURTON PLACE	BOSTON	MA	02108
R29-7	COMMONWEALTH OF MA - DIV OF CAPITAL PLANNING	1 ASHBURTON PLACE	BOSTON	MA	02108
R29-8	COMMONWEALTH OF MA - DIV OF CAPITAL PLANNING	1 ASHBURTON PLACE	BOSTON	MA	02108
R29-10	HARK PROPERTIES LLC	117 W MAIN ST	SPENCER	MA	01562
R29-19	JEBOLA PROPERTIES INC	15 MARBLE RD	SPENCER	MA	01562
R29-21	PELK LLC	15 RAILROAD DR	NORTHBOROUGH	MA	01532
R29-21-1	WEBSTER FIRST FEDERAL CREDIT UNION	271 GREENWOOD ST	WORCESTER	MA	01607
R29-22	COMMONWEALTH OF MA - DIV OF CAPITAL PLANNING	1 ASHBURTON PLACE	BOSTON	MA	02108
R29-24	TOWN OF SPENCER	157 MAIN ST	SPENCER	MA	01562
R29-23	COMMONWEALTH OF MA - DIV OF CAPITAL PLANNING	1 ASHBURTON PLACE	BOSTON	MA	02108
R29-25	COMMONWEALTH OF MA - DIV OF CAPITAL PLANNING	1 ASHBURTON PLACE	BOSTON	MA	02108
R29-27	JONLEE SPENCER LC	5050 BELMONT AVE	YOUNGSTOWN	ОН	44505
R30-1	ZUKAS PETER W & LYNN A	89 SMITHVILLE RD	SPENCER	MA	01562
R30-1-1	ZUKAS JEFFREY C	93 SMITHVILLE RD	SPENCER	MA	01562
R30-15	AGNEW THERESA A	123 SMITHVILLE RD	SPENCER	MA	01562
R30-2	TOWN OF SPENCER	157 MAIN ST	SPENCER	MA	01562
R30-3	GRASSO BRIAN J	95 SMITHVILLE RD	SPENCER	MA	01562
R30-4	LALIBERTE ANNE L	97 SMITHVILLE RD	SPENCER	MA	01562
R30-5	MCADAMS HOWARD M	99 SMITHVILLE RD	SPENCER	MA	01562
R30-5-CT	MCADAMS HOWARD	99 SMITHVILLE RD	SPENCER	MA	01562
R31-1-1	ZUKAS PETER W & LYNN A	89 SMITHVILLE RD	SPENCER	MA	01562
R31-3	PODBELSKI ALAN	4 WOODSIDE RD	SPENCER	MA	01562
U11-3-2	HIGHLAND GROVE LLC	16 W MAIN ST	SPENCER	MA	01562



#### **BOARD OF ASSESSORS**

157 MAIN STREET SPENCER, MA 01562

TEL: 508-885-7500 x165

U11-8	TOWN OF SPENCER	157 MAIN ST	SPENCER	MA	01562
U11-9	NEW ENGLAND POWER CO	40 SYLVAN RD	WALTHAM	MA	02451
U11-10	MASS ELECTRIC CO - C/O PROPERTY TAX DEPT	40 SYLVAN RD	WALTHAM	MA	02451
U11-11	HOLY ROSARY CEMETERY & ROMAN CATHOLIC BISHOP	46 MAPLE ST	SPENCER	MA	01562
U12-47	LATOUR REALTY LLC	8 NEW SPENCER RD	CHARLTON	MA	01507
U12-48	PER CAPITAL LLC	52 COUNTRY CLUB BLVD - APT 107	WORCESTER	MA	01605
U12-48-1	DANIEL REALTY GROUP LLC	1 STRAWBERRY HILL RD	ACTON	MA	01720
U23-7	TOWN OF SPENCER	157 MAIN ST	SPENCER	MA	01562
U24-17	TOWN OF SPENCER	157 MAIN ST	SPENCER	MA	01562
U24-19	HUARD JOHN P & MOLLY-JO	27 MEADOW RD	SPENCER	MA	01562
U24-21	TOWN OF SPENCER	157 MAIN ST	SPENCER	MA	01562

Date Certified: April 23, 2024

slc

# **NOTIFICATION TO ABUTTERS**

Massachusetts General Laws, Chapter 131, Section 40, Wetlands Protection Act Spencer General Bylaws, Article 7, Wetlands Protection



You are hereby notified of the following:

A. The name of the <u>Applicant</u> is <u>New England Power Company (NEP)</u> .
B. The Applicant has filed a Notice of Intent with the Spencer Conservation Commission for the seeking permission to remove, fill, dredge or alter an Area Subject to Protection (Wetland Resource Area and/or Buffer Zone) Under the Massachusetts Wetlands Protection Act (General Laws Chapter 131, Section 40).
T20 electric transmission line between C. The <u>address</u> of the lot where the activity is proposed: <u>Meadow Rd and WM Casey Rd.</u> .
D. The <b>proposed activity</b> is: Soil borings at 18 structures along the T20 transmission line, 13 of which are located within wetland resource areas. One soil boring will be performed at each of the 18 structures. Soil borings are ~4-6 inches in diameter, resulting in ~1 sf of temporary impact per soil boring. The borings are to inform the future design of replacement structure foundations.  E. A <b>Public Hearing</b> regarding this Notice of Intent will be held on:
Wednesday, <u>June 12</u> at <u>6:15</u> PM at Memorial Town Hall (157 Main Street, Spencer, MA 01562).  The exact room where this hearing will be held will be posted in the building.
F. Copies of the Notice of Intent may be examined at Office of Development & Inspectional Services at Memorial Town Hall between the hours of 7:30am & 4:30pm Monday, Tuesday, and Wednesday and 7:30am & 12:00pm on Thursday. For more information, call: (508)885-7500 x180.
G. Copies of the Notice of Intent may be obtained from either The Applicant, or the Applicant's representative Alison Milliman (BSC Group), by calling this telephone number:  617-896-4532, or email: between the hours of Mon - Fri 9am - 5pm.  amilliman@bscgroup.com
Abutters: The Spencer Conservation Commission has produced an "Abutters Guide to the Conservation Commission Permitting Process". This can be viewed from

the Conservation Commission has produced an Abutters Guide to the Conservation Commission Permitting Process". This can be viewed from <a href="https://www.spencerma.gov/conservation-commission/pages/abutters-guide-conservation-commission-permitting-process">https://www.spencerma.gov/conservation-commission-permitting-process</a>

Note: Public Hearing Notice, including its date, time, and place, will be published at least 5 days in advance in the New Leader (at the applicant's expense).

Since you are receiving this notice, you may have wetland resource areas or wetland buffers on your property. Therefore, construction, cutting, clearing, or grading may require a permit. For clarification or for more information, call the Conservation office (508)885-7500 x180 or visit our web site.

www.spencerma.gov

You also may contact the Department of Environmental Protection (DEP) for more information about this application or the Wetlands Protection Act (508)792-7620.



### AFFIDAVIT OF SERVICE

Massachusetts General Laws, Chapter 131, Section 40, Wetlands Protection Act Spencer General Bylaws, Article 7, Wetlands Protection

(Signature)	(Date)
<u></u>	5/6/2024
Alising, Milliman	
	2 E
property located at T20 electric transmission line right-o	f-way .
Spencer Conservation Commission filed on _5/_	10 / 2024 for the
by Laura Ernst (New England Power Company / NEP)	(applicant) with
A Notice of Intent filed under the Massachusetts We	
A Notice of Intent filed and anthe Manne de Control	
Spencer General Bylaws, Article 7, in connection wit	h the following matter.
notification to abutters in compliance with 310 CM	/IR 10.05(4)(a) and
the pains and penalties of perjury that on $_{5}$ $_{I}$	<u>0 / 2024</u> I gave
I, Alison Milliman (BSC Group)	, hereby certify under

\*\*Submit Affidavit of Service to the Massachusetts Department of Environmental Protection and the Conservation Commission with the Notice of Intent.

T20 ACR Project – Soil Borings Phase Spencer, Massachusetts Notice of Intent

# **National Grid's Best Management Practices (BMPs)**

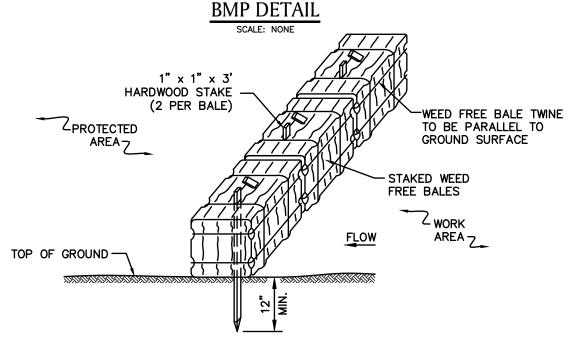


### **ENVIRONMENTAL GUIDANCE**

Doc. No.	EG-303NE
Page: 7-1	Rev. No. 4
Date	02/20/18

SUBJECT

Access, Maintenance and Construction Best Management Practices Reference EP No. 3 - Natural Resource Protection (Chapter 6)



#### **NOTES:**

1. THE GROUND SHALL BE PREPARED TO PROVIDE COMPLETE CONTACT WITH THE BALES.

### **BMP PICTURE**



#### **ENVIRONMENTAL GUIDANCE**

 Doc. No.
 EG-303NE

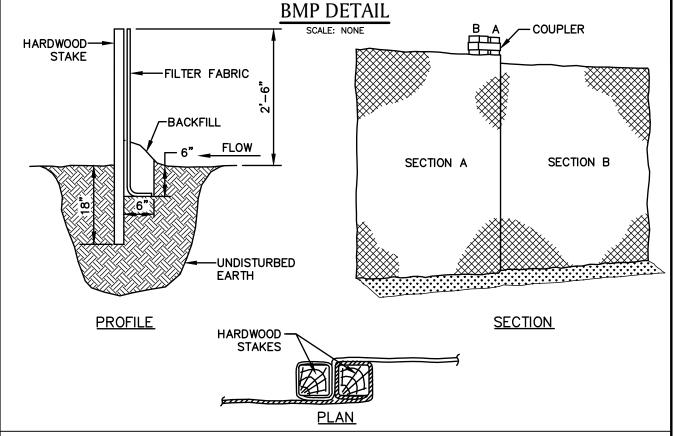
 Page: 7-2
 Rev. No. 4

 Date
 02/20/18

SUBJECT

Access, Maintenance and Construction Best Management Practices Reference

EP No. 3 - Natural Resource Protection (Chapter 6)



## **BMP PICTURE**



APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-2
SEDIMENT CONTROL FENCE

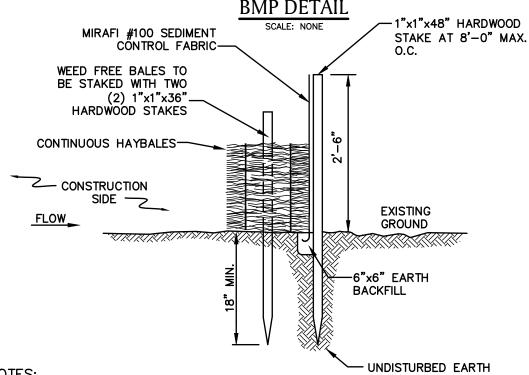
## nationalgrid **ENVIRONMENTAL GUIDANCE**

Doc. No.	EG-303NE
Page: 7-3	Rev. No. 4
Date	02/20/18

Reference

EP No. 3 - Natural Resource Protection (Chapter 6)

SUBJECT Access, Maintenance and Construction **Best Management Practices** 



**NOTES:** 

- BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO (2) 1"X1"X36" HARDWOOD STAKES 2. DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY 3. AS NEEDED.
- BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE. BALES TO BE TWINE BOUND. 5.

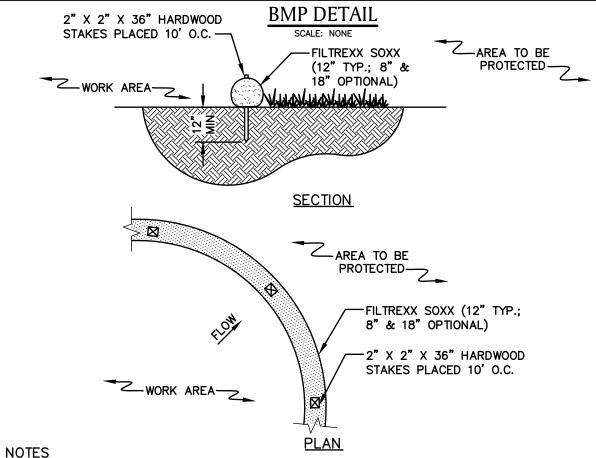
### **BMP PICTURE**



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SEC-3 SILT FENCE / WEED FREE BARRIER

#### Doc. No. EG-303NE nationalgrid Page: 7-4 Rev. No. 4 **ENVIRONMENTAL GUIDANCE** 02/20/18 Date SUBJECT Reference EP No. 3 - Natural Resource Access, Maintenance and Construction Protection (Chapter 6) **Best Management Practices**



- 1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
- 4. MESH CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" - 3/8".
- 5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
   6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.

### **BMP PICTURE**



\* PICTURE AND DETAIL PROVIDED BY FILTREXX LAND IMPROVEMENT SYSTEMS

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VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

SEC-4 SILT SOXX \*

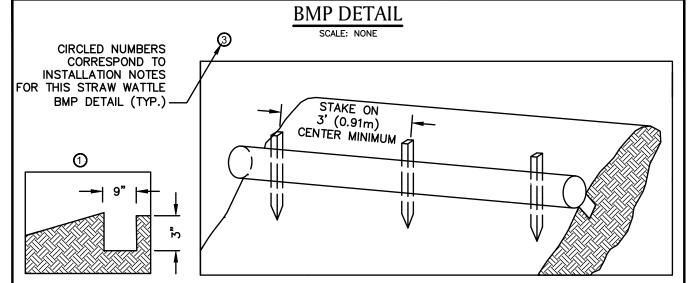
#### **ENVIRONMENTAL GUIDANCE**

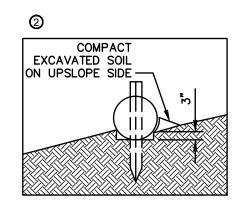
Doc. No.	EG-303NE
Page: 7-5	Rev. No. 4
Date	02/20/18

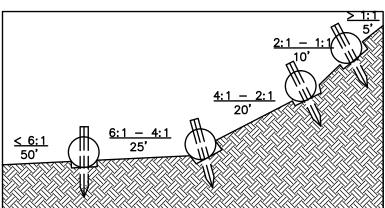
SUBJECT

Access, Maintenance and Construction **Best Management Practices** 

Reference EP No. 3 - Natural Resource Protection (Chapter 6)







TYPICAL WATTLE SPACING DETAIL

#### NOTES:

- PRODUCT TO BE TENSAR NORTH AMERICAN GREEN STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT. COORDINATE SPACING AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- MINIMUM 12" DIAMETER WATTLES SHOULD BE USED FOR HIGHLY DISTURBED AREAS (I.E., HEAVILY USED ACCESS ROAD WITH ADJACENT WETLAND) AND MINIMUM 9-10" WATTLES SHOULD BE USED FOR LESS DISTURBED SOILS.

#### **INSTALLATION** NOTES:

- BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- 3. SECURE THE WATTLE WITH 18-24" HARDWOOD STAKES EVERY 3-4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

\* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN

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SEC-5 STRAW WATTLE \* (1 OF 2)

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## **BMP PICTURE**



STRAW WATTLE - SHALLOW SLOPE (≤4:1) (ALTERNATE STAKING)

#### ALTERNATE STAKING INSTALLATION NOTES:

- ON SHALLOW SLOPES ( $\leq$ 4:1), STRAW WATTLE MAY BE SECURED WITH 18-24" HARDWOOD STAKES DRIVEN AGAINST THE SIDES OF THE WATTLE INSTEAD OF THROUGH. STAKES SHALL ALTERNATE
- SIDES, AND BE SPACED 3-4' MAX.
  2. TWINE SHALL BE TIED FROM STAKE TO STAKE, CRISS-CROSSING THE STRAW WATTLE. TIE TWINE TO STAKES BELOW THE HEIGHT OF THE WATTLE.

\* DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN APPROVED BY: VICE PRESIDENT, EM/RONMENTAL SERVICES
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SEC-5 STRAW WATTLE \* (2 OF 2)

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### **BMP**

#### **Definition**

Applying coarse plant residue or chips, or other suitable materials, to cover the soil surface.

### Purpose

The primary purpose is to provide initial erosion control while a seeding or shrub planting is establishing. Mulch will conserve moisture and modify the surface soil temperature and reduce fluctuation of both. Mulch will prevent soil surface crusting and aid in weed control. Mulch is also used alone for temporary stabilization in nongrowing months.

#### **Conditions Where Practice Applies**

On soils subject to erosion and on new seedings and shrub plantings. Mulch is useful on soils with low infiltration rates by retarding runoff.

### Criteria

Site preparation prior to mulching requires the installation of necessary erosion control or water management practices and drainage systems.

Slope, grade and smooth the site to fit needs of selected mulch products.

Remove all undesirable stones and other debris to meet the needs of the anticipated land use and maintenance required.

Apply mulch after soil amendments and planting is accomplished or simultaneously if hydroseeding is used.

Select appropriate mulch material and application rate or material needs. Determine local availability.

Select appropriate mulch anchoring material.

NOTE: The best combination for grass/legume establishment is straw (cereal grain) mulch applied at 2 ton/acre (90 lbs./1000sq.ft.) and anchored with wood fiber mulch (hydromulch) at 500 - 750 lbs./acre (11 – 17 lbs./1000 sq. ft.). The wood fiber mulch must be applied through a hydroseeder immediately after mulching.



#### NOTE:

- PICTURE DEPICTS STRAW MULCH APPLICATION (FROM MULCH SPREADER) ON STEEP SLOPE WITH AN IMPROVED DRAINAGE SWALE.
- 2. COORDINATE MULCH MATERIALS AND RATES WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- \* BMP INFORMATION FROM "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (AUGUST, 2005)." INFORMATION OBTAINED VA WEBSITE: http://www.dec.ny.gov/chemical/29066.html
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SEC-9 MULCH MATERIALS, RATES AND USES (FROM NY) \*

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#### UPLAND ROW RESTORATION MIX - GENERAL

#### Species Composition Options:

- Andropogon gerardii; Niagra Big Bluestem
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Elymus virginicus; Virginia Wildrye
- Lolium multiflorum; Annual Ryegrass
- Sorghastrum nutans; Indiangrass
- Chamaecrista fasciculate; Partridge Pea
- Desmodium canadense; Showy Tick Trefoil
- Helioposis helianthoides; Ox-Eye Sunflower
- Panicum virgatum; Switchgrass
- Rudbeckia hirta; Black Eyed Susan
- Poa palustris; Fowl Bluegrass
- Agrostis perennans; Upland Bentgrass
- Agrostis alba; Redtop
- Festuca rubra; Red Fescue
- Lotus corniculatus; Birds-Foot Trefoil
- Chrysanthemum leucanthem; Ox—Eye Daisy
- Aster novae-angliae; New England Aster

#### Example Seed Mixes:

- Native Upland wildlife forage and Cover Meadow Mix Ernst Conservation Seeds (ERNMX-123)
- 2. Eastern Ecotype Native Grass Mix— Ernst Conservation Seeds (ERNMX—177)
- 3. New England Native Warm Season Grass Mix New England Wetland Plants, Inc.
- 4. New England Logging Road Mix New England Wetland Plants, Inc.
- Northeast Upland Wildflower/Restoration Erosion Mix Southern Tier Consulting (STCMX-2)

### UPLAND ROW RESTORATION MIX - DRY/ROCKY SITES

#### Species Composition Options:

- Festuca rubra; Red Fescue
- Schizachyrium scoparium; Little Bluestem
- Elymus Canadensis; Canada Wild Rye
- Bouteloua gracillis; Blue Grama
- Lolium multiflorum; Annual Ryegrass
- Lolium perenne; Perennial Ryegrass
- Agrostics scabra; Rough Bentgrass
- Agrostis perennans; Upland Bentgrass
- Sorghastrum nutans; Indiangrass

#### **Example Seed Mixes:**

- 1. New England Erosion Control/Restoration Mix for Dry Sites New England Wetland Plants, Inc.
- 2. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).

Seeding Options.dwg

SEC-10

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#### WETLAND ROW RESTORATION MIX

#### Species Composition Options:

- Agrostis stolonifera; Creeping Bentgrass
- Poa trivialis; Rough Bluegrass
- Alopecurus arundinaceus; Creeping Meadow Foxtail
- Lolium multiflorum; Annual Ryegrass
- Festuca rubra; Creeping Red Fescue
- Elymus virginicus; Virginia Wildrye
- Schizachyrium scoparium; Little Bluestem
- Andropogon gerardii; Niagra Big Bluestem
- Carex vulpinoidea; Fox sedge Panicum virgatum; Switchgrass
- Agrostis scabra; Rough Bentgrass
- Aster novae-angliae; New England Aster
- Eupatorium perfoliatum; Boneset
- Euthamia graminifolia; Grass Leaved Goldenrod
- Scirpus atrovirens; Green Bulrush
- Verbene hastate; Blue Vervain
- Juncus effusus; Soft Rush
- Scirpus cyperinus; Wool Grass
- Panicum clandestinum; Deertongue

#### Example Seed Mixes

- New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites New England Wetland Plants, Inc.
- Northeast Wetland Grass Seed Mix Southern Tier Consulting (STCMX-7)
- 3. Ernst Conservation Seeds and similar companies can create a custom seed mix matching the composition above (with site specific additions if necessary).

#### **GERNERAL NOTES:**

- Seed mixes described herein are intended to cover a variety of typical new england landscapes. However, site specific seed mixes will need to be evaluated in coastal or mountainous regions.
- Seed mixes described herein are intended for general ROW restoration. Site specific wetland seed mixes may be required by local, state and/or federal regulators for certain impacts to wetlands.
- 3. All seed mixes are to be approved by National Grid Environmental Scientist prior to construction and must conform with all project permits.
- Seedbed preparation and maintenance as well as temporary erosion and sediment controls are crucial to the establishment of newly seeded areas. Coordinate with National Grid Environmental Scientist on seed bed preparation and maintenance as well as temporary erosion and sediment controls prior to construction.

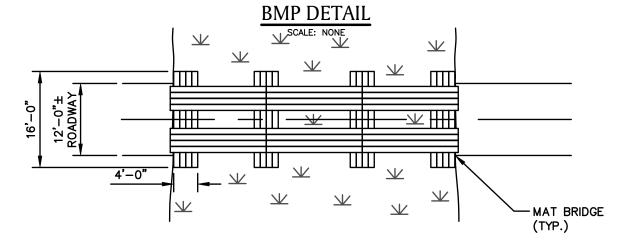
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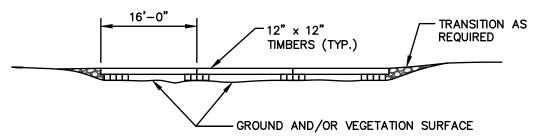
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### **NOTES:**

1. IF MATS ARE INSTALLED IN A WETLAND AREA, INSTALL EROSION CONTROLS TO CONTAIN MATERIAL UTILIZED IN THE MAT TRANSITIONS.

## **BMP PICTURE**



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CM-2 **CONSTRUCTION MAT BRIDGE** (1 OF 2)

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### BMP PICTURE - SINGLE SPAN

SCALE: NONE



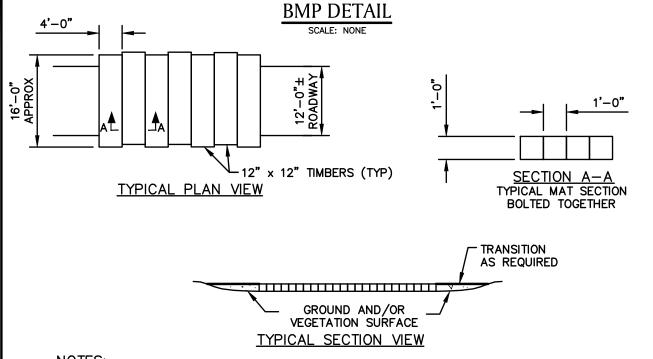


#### NOTES:

- 1. WHERE STREAM WIDTH ALLOWS, INSTALL CONSTRUCTION MATS TO SPAN THE WATERCOURSE IN ITS ENTIRETY WITHOUT STRINGER PLACEMENT IN THE WATER OR ANY RESTRICTION OF STREAM FLOW.
- 2. INSTALLATION OF THE CONSTRUCTION MAT BRIDGE SHALL NOT DAMAGE THE STREAM BED AND BANKS. WHERE POSSIBLE, FOOTERS SHALL BE PLACED PARALLEL TO THE TOP OF THE STREAM BANKS, WITH ACCESS MATTING PLACED ACROSS THE TOP OF THE STRINGERS DISTRIBUTING THE WEIGHT OF THE CONSTRUCTION EQUIPMENT.
- 3. AT STREAM CROSSINGS THAT CANNOT BE SPANNED BY A SINGLE SECTION OF CONSTRUCTION MATTING, AND WHERE PERMITS ALLOW, STRINGERS SHALL BE PLACED ATOP THE STREAM BED PARALLEL TO THE FLOW OF WATER.

e: Mat Bridge, dwa

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#### **NOTES:**

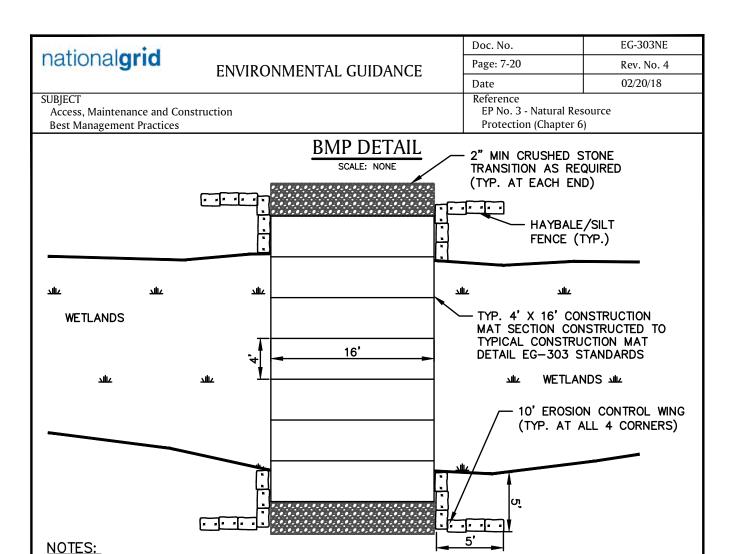
- 1. TO BE INSTALLED IF NECESSARY TO PREVENT RUTTING, TO ACCESS STRUCTURES.
- 2. THIS DETAIL SHOWS TYPICAL DIMENSIONS. SOME CONTRACTOR'S CONSTRUCTION MATS ARE DIMENSIONALLY DIFFERENT FROM WHAT IS SHOWN HERE.
- 3. DEPENDENT ON SITE CONDITIONS, MULTIPLE LAYERS OF CONSTRUCTION MATS MAY BE INSTALLED.

### **BMP PICTURE**



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CM-3
CONSTRUCTION MAT LAYOUT
(WITH TRANSITION)



### **BMP PICTURE**

ADD FILTER FABRIC AS NEEDED UNDER STONE TRANSITION RAMPS.

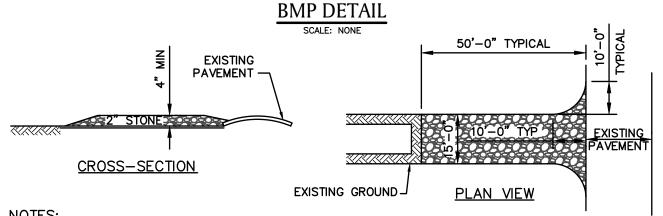
2. ALL MEASUREMENTS AND LOCATIONS ARE APPROXIMATE.



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CONSTRUCTION MAT LAYOUT (WITH TRANSITION AND BMPs)

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#### NOTES:

- STONE SIZE USE 2" STONE (MINIMUM) TO 6" STONE (MAXIMUM)
- LENGTH GREATER THAN OR EQUAL TO 50 FEET
- THICKNESS 4"
- WIDTH FIFTEEN (15) FOOT TYP., BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM SHALL BE PERMITTED.
- MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.
- THE CLEAN STONE SHOULD BE INSTALLED OVER A GEOTEXTILE FABRIC. GEOTEXTILE FABRIC MAY BE OMITTED FOR PERMANENT CONSTRUCTION ENTRANCES/EXITS ON A CASE-BY-CASE BASIS WITH THE APPROVAL OF THE NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- 9. FOLLOWING CONSTRUCTION, THE CONSTRUCTION ENTRANCE/EXIT SHALL BE REMOVED AND THE AREA GRADED, SEEDED, AND MULCHED AS NEEDED. ENTRANCE/EXITS MAY REMAIN DEPENDING UPON FUTURE ACCESS NEEDS AND/OR PROJECT-SPECIFIC APPROVALS BUT REQUIRES APPROVALS FROM THE NATIONAL GRID ENVIRONMENTAL SCIENTIST AND PROPERTY LEGAL.

### BMP PICTURE



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CM-8 TEMPORARY CONSTRUCTION ENTRANCE/ EXIT

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### **BMP PICTURE**



### NOTE:

- 1. PICTURE SHOWS VIEW OF ACCESS WAY STABILIZATION ADJACENT TO A WETLAND.
- 2. COORDINATE STABILIZATION DESIGN AND PRODUCT WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.

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### **BMP PICTURE**





NO ACCESS - WETLAND/STREAM CROSSING MATS REQUIRED







- NO ACCESS A.) PROJECT LIMITS E.G. ROW LIMITS
  B.) HISTORICAL/CULTURAL
  C.) ENVIRONMENTALLY SENSITIVE E.G. THREATENED & ENDANGERED
  D.) OTHER





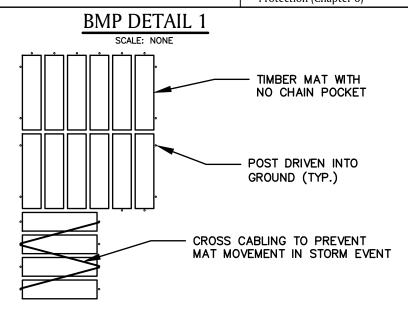
APPROVED ACCESS

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#### TYPICAL PLAN VIEW

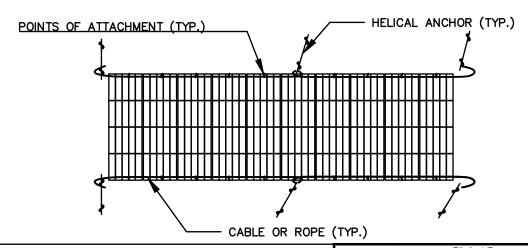
#### NOTES:

- EXAMPLES OF ANCHORING ONLY. MATTING CONTRACTOR SHALL PROPOSE THE METHOD OF ANCHORING BASED ON FIELD CONDITIONS.
- 2. ANCHORING METHOD TO BE APPROVED BY THE NATIONAL GRID ENVIRONMENTAL SCIENTIST AND TRANSMISSION LINE CONSTRUCTION SUPERVISOR.

#### **NOTES:**

## BMP DETAIL 2

- 1. TYPICAL HELICAL ANCHOR AND CABLE CONFIGURATION FOR MAT CONTAINMENT IN FLOODPLAINS/LAND SUBJECT TO FLOODING.
- 2. TYPICAL POINTS OF ATTACHMENT HEAVY STAPLES, EYE BOLTS OR OTHER SUITABLE HARDWARE TO SECURE ATTACHMENT OF MAT TO LINEAR CABLE. IF CHAIN POCKETS ARE PRESENT IN THE MATS CABLE OR ROPE CAN BE LOOPED THROUGH RODS.



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EXAMPLE OF CONSTRUCTION MAT ANCHORING (1 OF 2)

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# **BMP PICTURE 1**



# **BMP PICTURE 2**



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CM-12 EXAMPLE OF CONSTRUCTION MAT ANCHORING (2 OF 2)

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## **BMP DETAIL**

SCALE: NONE

# WIRE BACKED SILT FENCE



#### MUTUAL INDUSTRIES WIRE BACKED SILT FENCE

PART # 1776-14-24

36" X 100'

36" MISF 1776 FABRIC

24" 14GA WIRE MESH

OPENING OF MESH 2" X 4"

FABRIC HOG RINGED EVERY 12"-18" ALONG THE TOP OF THE FENCE

**ROLL WEIGHT 40 LBS** 

32 ROLLS PER PALLET

#### **NOTES:**

- 1. PRODUCT TO BE MUTUAL INDUSTRIES' WIRE BACKED SILT FENCE OR APPROVED EQUAL BY NATIONAL ENVIRONMENTAL SCIENTIST.
- 2. COORDINATE INSTALLATION METHOD AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.

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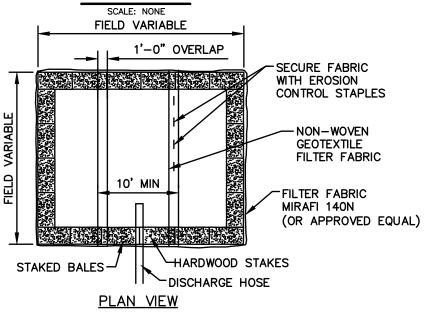
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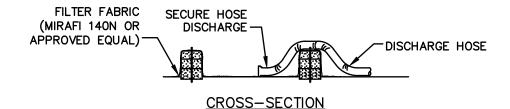
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### **BMP DETAIL**





#### **NOTES:**

- NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS, THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
- KEEP AS FAR FROM WETLANDS AS PRACTICAL.
- CLEAN AND REMOVE AS SOON AS DEWATERING IS COMPLETE.



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AA-10 **DEWATERING BASIN** (SMALL SCALE)

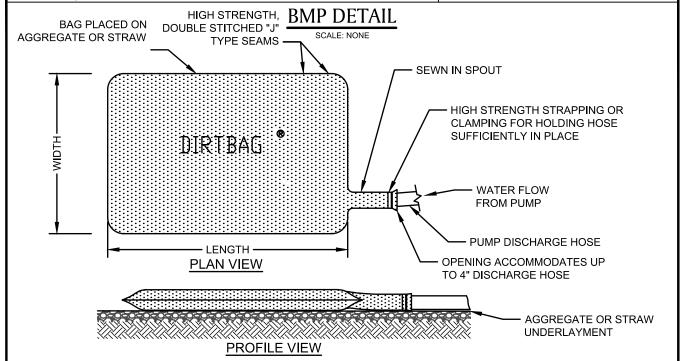
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#### NOTE:

ONCE PUMPING COMMENCES, THE DIRT BAG SHALL BE MONITORED FREQUENTLY TO ASSURE THAT THE CONNECTIONS ARE SECURELY FASTENED AND THE RATE OF WATER DELIVERY TO THE STRUCTURE IS LOW ENOUGH TO PREVENT UNFILTERED WATER FROM FLOWING FROM THE HOSE CONNECTIONS OR BAG.

### **BMP PICTURE**



\* PICTURE AND DETAIL PROVIDED BY ACF ENVIRONMENTAL

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AA-12 DIRTBAG \*

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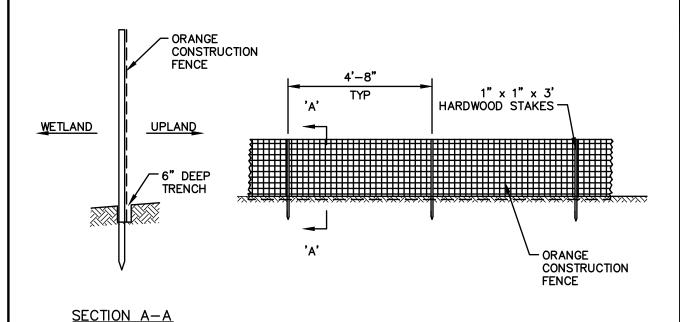
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# **BMP DETAIL**

SCALE: NONE



# **BMP PICTURE**



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AA-15 BARRIER FENCE (CONSTRUCTION FENCE)

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### **BMP**



#### Definition

The control of dust resulting from land-disturbing activities.

#### **Purpose**

To prevent surface and air movement of dust from disturbed soil surfaces that may cause off-site damage, health hazards, and traffic safety problems.

#### **Conditions Where Practice Applies**

On construction roads, access points, and other disturbed areas subject to surface dust movement and dust blowing where off-site damage may occur if dust is not controlled.

#### Design Criteria

Construction operations should be scheduled to minimize the amount of area disturbed at one time. Buffer areas of vegetation should be left where practical. Temporary or permanent stabilization measures shall be installed. No specific design criteria is given; see construction specifications below for common methods of dust control.

Water quality must be considered when materials are selected for dust control. Where there is a potential for the material to wash off to a stream, ingredient information must be provided to the local permitting authority.

#### **Construction Specifications**

**A. Non-driving Areas** – These areas use products and materials applied or placed on soil surfaces to prevent airborne migration of soil particles.

BMP INFORMATION FROM "NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (AUGUST, 2005)." INFORMATION OBTAINED VIA WEBSITE: http://www.dec.ny.gov/chemical/29086.html
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**Vegetative Cover** – For disturbed areas not subject to traffic, vegetation provides the most practical method of dust control (see Section 3).

**Mulch** (including gravel mulch) – Mulch offers a fast effective means of controlling dust. This can also include rolled erosion control blankets.

Spray adhesives – These are products generally composed of polymers in a liquid or solid form that are mixed with water to form an emulsion that is sprayed on the soil surface with typical hydroseeding equipment. The mixing ratios and application rates will be in accordance with the manufacturer's recommendations for the specific soils on the site. In no case should the application of these adhesives be made on wet soils or if there is a probability of precipitation within 48 hours of its proposed use. Material Safety Data Sheets will be provided to all applicators and others working with the material.

B. Driving Areas – These areas utilize water, polymer emulsions, and barriers to prevent dust movement from the traffic surface into the air.

**Sprinkling** – The site may be sprayed with water until the surface is wet. This is especially effective on haul roads and access routes.

Polymer Additives – These polymers are mixed with water and applied to the driving surface by a water truck with a gravity feed drip bar, spray bar or automated distributor truck. The mixing ratios and application rates will be in accordance with the manufacturer's recommendations. Incorporation of the emulsion into the soil will be done to the appropriate depth based on expected traffic. Compaction after incorporation will be by vibratory roller to a minimum of 95%. The prepared surface shall be moist and no application of the polymer will be made if there is a probability of precipitation within 48 hours of its proposed use. Material Safety Data Sheets will be provided to all applicators working with the material.

**Barriers** – Woven geotextiles can be placed on the driving surface to effectively reduce dust throw and particle migration on haul roads. Stone can also be used for construction roads for effective dust control.

**Windbreak** – A silt fence or similar barrier can control air currents at intervals equal to ten times the barrier height. Preserve existing wind barrier vegetation as much as practical.

<u>AA-18</u> DUST CONTROL (FROM NY) \*

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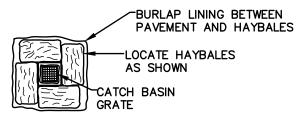
SUBJECT

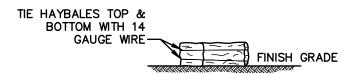
Access, Maintenance and Construction **Best Management Practices** 

Reference EP No. 3 - Natural Resource Protection (Chapter 6)

### **BMP DETAIL**

SCALE: NONE





#### **NOTES:**

- SURROUND STREET DRAINAGE STRUCTURE INLET WITH HAY BALES PRIOR TO CONSTRUCTION AND MAINTAIN UNTIL CONSTRUCTION IS COMPLETED. ACCUMULATED SEDIMENTS SHALL BE REMOVED.

  2. HAYBALES PLACED ON PAVEMENT SHALL HAVE BURLAP PLACED BETWEEN PAVEMENT AND HAYBALE

# **BMP PICTURE**



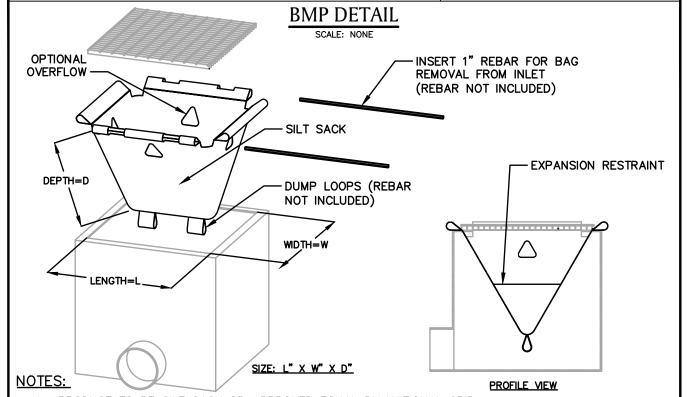
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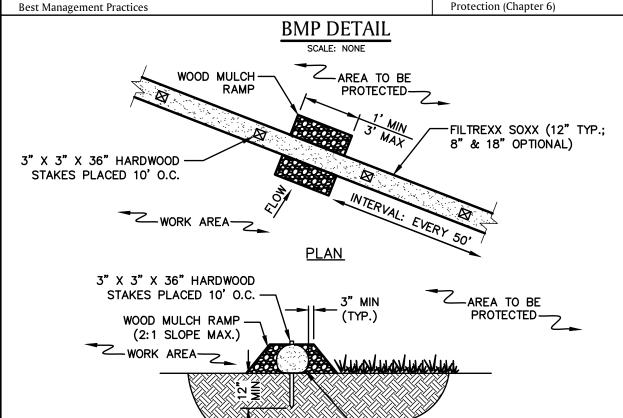
- PRODUCT TO BE SILT SACK OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- 2. THE USE OF A SILT SACK OPTIONAL OVERFLOW AND OVERALL DIMENSIONS ARE TO BE COORDINATED WITH A NATIONAL GRID ENVIRONMENTAL SCIENTIST.

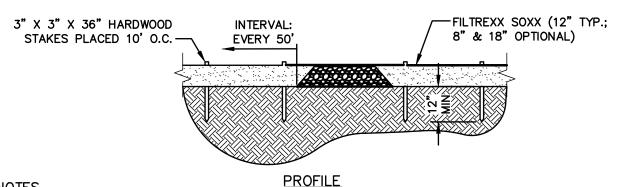
### **BMP PICTURE**



\* DETAIL PROVIDED BY ACF ENVIRONMENTAL APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE. AA-20 SILT SACK \*

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**SECTION** 

NOTES

FILTREXX SOXX (12" TYP.; 8" & 18" OPTIONAL)

- PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
- FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.

  NON-MONOFILAMENT CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE

  MATERIAL, WITH OPENING SIZES BETWEEN 1/8" 1/4".
- 5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2". 50% > 1/2".
- 6. COMPOST MATERIAL TO BE DISPOSED OF ON-SITE, OR IN ACCORDANCE WITH ENVIRONMENTAL PERMITS AS APPROVED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- 7. WOOD MULCH RAMP IS OPTIONAL DEPENDING ON SUBSTRATE/SITE CONDITIONS, AND TO BE APPROVED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.

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BMP # AA-22 SILTSOXX AMPHIBIAN & REPTILE CROSSING #1 (1 OF 2)

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## **BMP PICTURE**



SALAMANDER AND SNAKE CROSSING #1

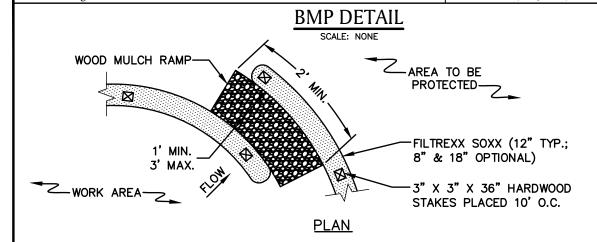
#### ALTERNATE WOOD MULCH RAMP SILTSOXX NOTES:

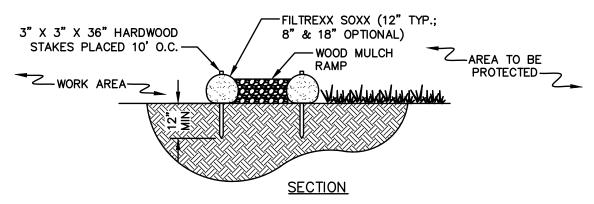
- 1. SILTSOXX, BY FILTREX INTERNATIONAL, OR APPROVED EQUAL PRODUCT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 2. BMP SHOULD ONLY BE UTILIZED IN AREAS WHERE RARE SALAMANDER AND SNAKE HABITAT OCCURS, OR AT THE DIRECTION OF THE NATIONAL GRID ENVIRONMENTAL SCIENTIST.

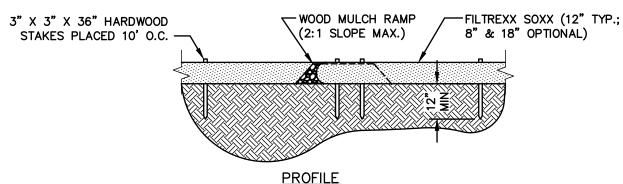
le: Alternate\_Mulch\_Ramp\_Siltsoxx.d

#### Doc. No. EG-303NE nationalgrid Page: 7-52 Rev. No. 4 **ENVIRONMENTAL GUIDANCE** 02/20/18 Date Reference SUBJECT EP No. 3 - Natural Resource Access, Maintenance and Construction

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#### **NOTES**

**Best Management Practices** 

- 1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
  FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
- 4. NON-MONOFILAMENT CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" - 1/4"
- 5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
   6. COMPOST MATERIAL TO BE DISPOSED OF ON-SITE, OR IN ACCORDANCE WITH ENVIRONMENTAL PERMITS AS APPROVED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- 7. WOOD MULCH RAMP IS OPTIONAL DEPENDING ON SUBSTRATE/SITE CONDITIONS, AND TO BE APPROVED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- 8. GAPS TO BE SPACED EVERY 50 FT, IF POSSIBLE GIVEN WETLAND PERMIT CONDITIONS.

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BMP # AA-23 SILTSOXX AMPHIBIAN & REPTILE CROSSING #2 (1 OF 2)

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## **BMP PICTURE**



SILTSOXX AMPHIBIAN & REPTILE CROSSING #2

### ALTERNATE WOOD MULCH RAMP SILTSOXX NOTES:

- 1. SILTSOXX, BY FILTREX INTERNATIONAL, OR APPROVED EQUAL PRODUCT SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
- 2. BMP SHOULD ONLY BE UTILIZED IN AREAS WHERE RARE SALAMANDER AND SNAKE HABITAT OCCURS OR AT THE DIRECTION OF THE NATIONAL GRID ENVIRONMENTAL SCIENTIST.

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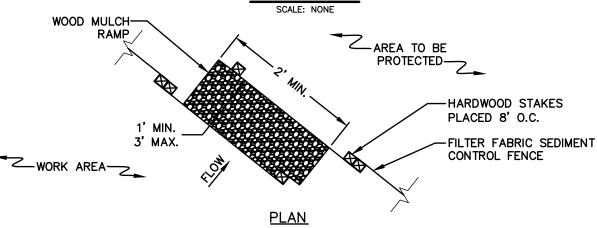
#### **ENVIRONMENTAL GUIDANCE**

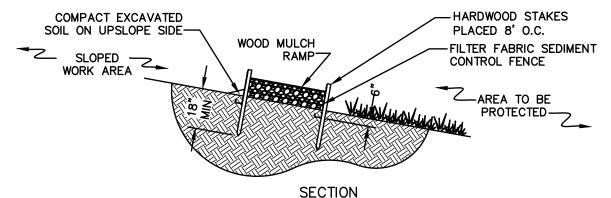
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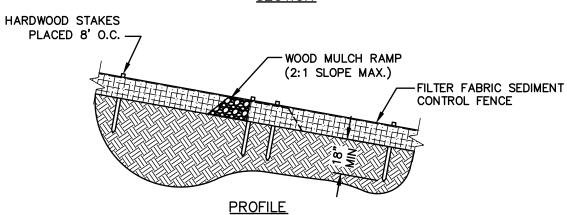
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### **BMP DETAIL**







#### **NOTES**

- 1. IN AREAS WHERE SLOPES OR RUN-OFF VOLUME PROHIBIT USE OF SILTSOXX, CROSSINGS CAN BE PROVIDED THROUGH TRENCHED SILT FENCE.
- 2. INTALL SILT FENCE TO SPECIFICATIONS IN EG303 APPENDIX 7 "SEC-2 SEDIMENT CONTROL FENCE."
- 3. WOOD MULCH RAMP IS OPTIONAL DEPENDING ON SUBSTRATE/SITE CONDITIONS, AND TO BE APPROVED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
- 4. GAPS TO BE SPACED EVERY 50 FT, IF POSSIBLE GIVEN WETLAND PERMIT CONDITIONS.

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**SUBJECT ROW Access, Maintenance and Construction Best** 

**Management Practices for New England** 

**EP-3**; Natural Resource Protection

### **APPENDIX 5 CERTIFICATION FORM FOR INVASIVE SPECIES CONTROL**

REFERENCE

Certain permit conditions, therefore a Condition of Contracts for the Prime Contractor, any Subcontractors, and any equipment or mat vendors for **National Grid Projects** shall be required to Certify their equipment<sup>7</sup> {each piece of equipment used on site} as 'clean'8. (name of firm) hereby Certifies that (make, model, and/or type) (equipment ID tag or #) meets the following 1. before entry on to the job site, has been sufficiently cleaned to remove all accumulated mud, debris, plant fragments, and detritus that could harbor seeds, roots, or plant fragments of so-called invasive plant species; and 2. that the above piece of equipment has neither been off-loaded nor operated in the interval between cleaning and delivery to the jobsite. 3. that equipment deployed in areas of invasive species (as identified in project plans) shall be cleaned prior to redeployment. (dated) (printed name) (title) (Firm) The signed original of this form {one for each piece of equipment (or lot<sup>9</sup> of mats)} is to be given to the NG

Construction Supervisor assigned to the project.

Equipment may include, but is not limited to bulldozers, excavators, backhoes, bucket trucks (tracked or wheeled), pulling equipment, concrete trucks, compressors, drilling equipment, and mats (composite, wood, or other materials).

With regard to invasive species, the definition of clean means free of accumulated mud, debris, plant fragments, and detritus that could harbor seeds, roots, or plant fragments of so-called invasive plant species.

Lot of mats is the number of mats that may be transported by one forwarder/truck at a time.

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# APPENDIX 6 SNOW DISPOSAL GUIDELINES

Finding a place to dispose of collected snow poses a challenge. While we are all aware of the threats to public safety caused by snow, collected snow that is contaminated with road salt, sand, litter, and automotive pollutants such as oil also threatens public health and the environment.

As snow melts, road salt, sand, litter, and other pollutants are transported into surface water or through the soil where they may eventually reach the groundwater. Road salt and other pollutants can contaminate water supplies and are toxic to aquatic life at certain levels. Sand washed into water bodies can create sand bars or fill in wetlands and ponds, impacting aquatic life, causing flooding, and affecting our use of these resources.

There are several steps that should be taken to minimize the impacts of snow disposal on public health and the environment.

- **DO NOT** dump snow into any water body, including rivers, the ocean, reservoirs, ponds, or wetlands. In fact, a buffer of at least 50 feet between any snow disposal area and any the highwater mark of any surface water should be kept. A silt fence or equivalent barrier should be securely placed between the snow storage area and the high-water mark. In addition to water quality impacts and flooding, snow disposed in surface waters can cause navigational hazards when it freezes into ice blocks.
- DO NOT dump snow within a wellhead protection area (e.g., a Zone II), in a high or medium-yield aquifer, or within 75 feet of a private well, where road salt may contaminate water supplies. Ask an Environmental Department representative for guidance in determining if a proposed disposal area is located within one of these sensitive areas.
- Avoid disposing of snow on top of storm drain catch basins or in storm water drainage swales or ditches. Snow combined with sand and debris may block a storm drainage system, causing localized flooding. A high volume of sand, sediment, and litter released from melting snow also may be quickly transported through the system into surface water.
- All debris in a snow storage area should be cleared from the site and properly disposed of no later than May 15 of each year the area is used for snow storage.

**Under extraordinary conditions**, when all land-based snow disposal options are exhausted, disposal of snow that is not obviously contaminated with road salt, sand, and other pollutants may be allowed near (within 50 feet) or even in certain water bodies under certain conditions.

In these dire situations, **notify the Environmental Department** so that the local Conservation Commission and the appropriate MassDEP Regional Service Center (in MA), RI DEM Office of Water Resources – RIPDES

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ROW Access, Maintenance and Construction
Best Management Practices for New England

REFERENCE
EP-3; Natural Resource Protection

Program (in RI), NH Department of Environmental Services – NHDES (in NH) and VT Department of Environmental Conservation - VT DEC (in VT) can be contacted before disposing of snow in a water body.

In emergency situations and after consulting an Environmental Department representative the following guidance should be followed:

- Dispose of snow in open water with adequate flow and mixing to prevent ice dams from forming.
- Do not dispose of snow in saltmarshes, vegetated wetlands, certified vernal pools, shellfish beds, mudflats, drinking water reservoirs and their tributaries, wellhead protection areas, or other environmentally sensitive areas.
- Do not dispose of snow where trucks may cause shoreline or stream bank damage or erosion.