

*Proposed Superstructure Replacement
Park Street over Martins Brook
Bridge No. N-18-002 (7YC)*

Prepared for: **Town of North Reading DPW**
235 North Street
North Reading, MA 01864



Prepared by: **TEC, Inc.**
282 Merrimack Street
Lawrence, MA 01843



March 27, 2024

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WPA FORM 3



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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

North Reading

City/Town

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

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>Park Street over Martins Brook</u>	<u>North Reading</u>	<u>01864</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>N/A</u>	<u>42.571592</u>	<u>-71.101273</u>
f. Assessors Map/Plat Number	d. Latitude	e. Longitude
	<u>N/A - Bridge</u>	
	g. Parcel /Lot Number	

2. Applicant:

<u>Joseph</u>	<u>Parisi</u>	
a. First Name	b. Last Name	
<u>Town of North Reading DPW</u>		
c. Organization		
<u>235 North Street</u>		
d. Street Address		
<u>North Reading</u>	<u>MA</u>	<u>01864</u>
e. City/Town	f. State	g. Zip Code
<u>(978) 357-5260</u>	<u>jparisi@northreadingma.gov</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Street Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Andrew</u>	<u>Spurr</u>	
a. First Name	b. Last Name	
<u>TEC, Inc.</u>		
c. Company		
<u>282 Merrimack Street</u>		
d. Street Address		
<u>Lawrence</u>	<u>MA</u>	<u>01843</u>
e. City/Town	f. State	g. Zip Code
<u>(978) 794-1792</u>	<u>aspurr@theengineeringcorp.com</u>	
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>Exempt</u>	<u>Exempt</u>	<u>Exempt</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

Superstructure Replacement.

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. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

310 CMR 10.53(3)(i) - Bridge Improvement

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

N/A - public roadway

a. County

N/A

c. Book

b. Certificate # (if registered land)

N/A

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, 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.



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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet	2. square feet
	3. cubic yards dredged	

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	5000	5000
	1. square feet	2. square feet
	0 cf	40 cf +/-
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input checked="" type="checkbox"/> Riverfront Area	Martins Brook (Inland)	
	1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):
- 25 ft. - Designated Densely Developed Areas only
 - 100 ft. - New agricultural projects only
 - 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: 20,000 square feet

4. Proposed alteration of the Riverfront Area:

<u>5000</u>	<u>5000</u>	<u>0</u>
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 this NOI? Yes No
6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal 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.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input checked="" type="checkbox"/> Project Involves Stream Crossings		
	0	1 - Replacement of Bridge Superstructure
	a. number of new stream crossings	b. number of replacement 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.

- a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

8/1/2021
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 & buffer zone)
 - (b) Photographs representative of the site

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

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

** 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.



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

(c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).
 Make check payable to “Commonwealth of Massachusetts - NHESP” and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- (f) OR 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, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; 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. Separate MESA review completed.
 Include copy of NHESP “no Take” determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?
- a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Bourne to Rhode Island border, and the Cape & Islands:

North Shore - Plymouth 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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C. Other Applicable Standards and Requirements (cont'd)

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
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?
- a. Yes No
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?
- 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:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 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.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. 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.

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



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D. Additional Information (cont'd)

3. 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 other materials submitted with this NOI.

Superstructure Replacement

a. Plan Title

TEC, Inc.

b. Prepared By

c. Signed and Stamped by

Varies

d. Final Revision Date

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. 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.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

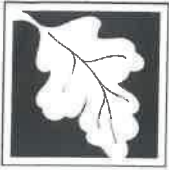
3. Check date

4. State Check Number

5. Check date

6. Payor name on check: First Name

7. Payor name on check: Last Name



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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.

1. Signature of Applicant

3. Signature of Property Owner (if different)

5. Signature of Representative (if any)

2. Date

4. Date

6. Date

3/20/2024

3/20/2024

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:

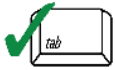
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.



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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.



A. Applicant Information

1. Location of Project:

<u>Park Street over Martins Brook</u>	<u>North Reading</u>
a. Street Address	b. City/Town
<u>N/A</u>	<u>N/A</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>Joseph</u>	<u>Parisi</u>	
a. First Name	b. Last Name	
<u>Town of North Reading DPW</u>		
c. Organization		
<u>235 North Street</u>		
d. Mailing Address		
<u>North Reading</u>	<u>MA</u>	<u>01864</u>
e. City/Town	f. State	g. Zip Code
<u>(978) 357-5260</u>	<u>jparisi@northreadingma.gov</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

<u></u>	<u></u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Mailing Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address

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.

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



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B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 4(f)			Exempt
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			Exempt
Step 6/Fee Payments:			
Total Project Fee:			Exempt a. Total Fee from Step 5
State share of filing Fee:			b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:			c. 1/2 Total Fee plus \$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.)

NARRATIVE

INTRODUCTION AND PURPOSE

The Town of North Reading is proposing a superstructure replacement project at the Park Street over Martins Brook Bridge. The project proposes to replace an existing single span, concrete tee beam superstructure with concrete deck beams and a concrete deck. The existing structure has section loss, spalling, and efflorescence on the underside of the bridge, indicating the need for repair.

The proposed superstructure replacement includes demolition of the existing bridge deck and railings, and selective demolition at the abutments. The new superstructure will include concrete deck beams, a concrete deck, concrete approach slabs, concrete abutment caps, bridge rails and approach guardrails. The project also includes the relocation of water and gas mains across the bridge via structural utility supports. Generally, the post-development conditions will closely match the existing conditions.

EXISTING CONDITIONS

Park Street is an urban local two-lane roadway, approximately 24' in paved width. The runoff from Park Street flows off the roadway and down the adjacent vegetated embankments to Martins Brook. There are overhead wires on the east side of the road. There is a gas main on the east side of the bridge, and a water main on the west side of the bridge.

The existing bridge, built in 1913, is a single span, reinforced concrete tee beam structure with reinforced concrete abutments and wingwalls. The bridge has concrete barriers with approach guardrail at all four corners.

Martins Brook flows from west to east, flowing from Martin's Pond to the Ipswich River, approximately 275' east of the site. The drainage area is about 13.2 square miles at the project location. There are areas of bordering vegetated wetland to the east of the bridge. Per the most recent FEMA special flood hazard maps, Martins Brook is mapped with a regulatory floodway, and elevated 100-year flood plain.

PROPOSED IMPROVEMENTS

The project proposes to replace the existing superstructure with 9 precast deck beams and a concrete deck. The existing abutment caps will be demolished, and a new reinforced concrete abutment cap will be poured to support the proposed superstructure. The existing abutments and wingwalls will remain in place, maintaining the existing bridge span. New CT-TL2 bridge rail will be installed, along with new approach guardrail. The project also includes a resurfaced roadway and new pavement markings. Generally, the proposed roadway features and dimensions will closely match existing conditions.

The proposed superstructure has a low chord of 69.86', which is approximately 13 inches higher than the existing low chord of 68.75'. A hydraulic evaluation completed by Bay Colony Group in August 2023 noted the proposed condition may decrease the base flood elevation (BFE) upstream of the bridge, and may temporarily increase the BFE downstream, but downstream will likely

return to current BFE due to the backwater effect of the Ipswich River. This will also result in a slightly larger openness ratio for the structure as calculated under the Massachusetts Stream Crossing Standards.

RESOURCE AREAS

Goddard Consulting delineated the wetland resources within the project area in February 2023. The brook and wetland resources were delineated based on the most recent Massachusetts Wetlands Protection Act and Regulations 310 CMR 10.00 and the local bylaw. Numbered sequences of flags or stakes were placed in the field to delineate the boundary between upland and wetland resources. Resource Areas associated with the project include bank, bordering vegetated wetland, riverfront areas, land under water and waterways, and bordering land subject to flooding. A copy of the wetland border report dated February 21, 2023 is attached.

STORMWATER MANAGEMENT

The intention of this project is to maintain existing drainage patterns. The project does not propose any change in ground cover types or drainage paths which would deviate from existing conditions. The only proposed work associated with stormwater management is installation of a stabilized riprap drainage swale. The proposed swale will provide increased stabilization and energy dissipation, and thus decreased risk of erosion and sedimentation over the current flow path down the steep somewhat vegetated embankment. The voids in the riprap will also provide for some heavier pollutant removal prior to discharge to the brook. The project qualifies as a limited project as described in 310 CMR 10.53(3)(i), and therefore the project is required to meet certain Stormwater Standards to the maximum extent practicable. A Stormwater Report has been included as an appendix of this application which justifies the project's accordance with the MassDEP Checklist for Stormwater Report.

MITIGATION

Prior to construction, erosion control and sedimentation barriers will be installed between the project area and resource areas to establish a limit-of-work. The erosion control measures will be installed and maintained throughout construction. Due to the nature of the proposed work, no dewatering is anticipated. A temporary floating sediment barrier/silt fence is also proposed on the downstream limit of the bridge.

The project will result in the following resource area impacts:

<u>Resource Area</u>	<u>Impact</u>
0'-100' Riverfront Area Martins Brook	5000 s.f.

There is no proposed impact to bordering vegetated wetlands, bank, or land under waterbodies. The proposed work is associated with the bridge superstructure, however no proposed work is related to the foundation/substructure of the bridge. Any of the minimal proposed regrading work is associated with the roadway and shoulders, as well as the proposed drainage swale. Although work is proposed within the local North Reading Wetlands Bylaw 12-foot buffer from the wetlands, all work is proposed in previously disturbed and degraded area and is related to the replacement of an existing bridge superstructure. Little to no vegetative disturbance is necessary. The majority,

if not all proposed work appears to be located within the 100-year special flood hazard zone associated with Martins Brook, however the project's proposed regrading will ultimately result in a slight increase of flood storage volume over the existing conditions.

All proposed bridge and road repaving work within the Martins Brook Riverfront Area is within previously disturbed and degraded (impervious/ unvegetated) Riverfront Area according to the definitions as set forth in 310 CMR 10.58(5), is in relation to the routine maintenance of a public roadway bridge, and will result in an improvement over the existing structural condition of the bridge. The project will not result in an increase in impervious area or changes to existing ground cover.

WPA INLAND RESOURCE AREA PERFORMANCE STANDARDS

10.54: Bank

Not Applicable. The Bank near the project area will not be disturbed and therefore the proposed construction will meet the performance standards. The Bank will be protected during construction with erosion and sedimentation control barriers, and the site will be stabilized following construction.

10.55: Bordering Vegetated Wetlands

Not Applicable. The BVW near the project area will not be disturbed during construction and therefore the proposed construction will meet the performance standards of the WPA. The BVW will be protected during construction with erosion and sedimentation control barriers, and the site will be stabilized following construction.

10.56: Land under Water Bodies and Waterways

Not Applicable. The project will not impact the LUW and therefore will meet the performance standards of the WPA. The LUW will be protected during construction with erosion and sedimentation control barriers and floating silt fence, and the site will be stabilized following construction.

10.57: Land Subject to Flooding

The proposed construction is intended to replace an existing bridge superstructure. The majority, if not all proposed work appears to also be located within the 100-year special flood hazard zone (BLSF) associated with Martins Brook, however the project's proposed regrading will ultimately result in a slight increase of flood storage volume over the existing conditions and therefore will meet the performance standards of the WPA as the work will:

1. Not cause an increase or contribute incrementally to an increase in the horizontal extent and level of flood water during peak flows.
2. Not impair capacity to provide important habitat functions.
3. No impact on habitat sites of rare species.

10.58 Riverfront Area

The proposed work meets the performance standards for Riverfront Area as the project is for redevelopment within previously developed and degraded riverfront areas. The work, replacement of existing structures and roads via repair and resurfacing is considered exempt from the requirements of the Riverfront Area according to 310 CMR 10.58(5)(c). The work is intended to improve upon existing conditions. Stormwater drainage patterns will match existing conditions and no change in ground cover is proposed. All stormwater standards established by the DEP will be met.

Alternatives Analysis:

- No Build: The project purpose is to replace an existing public roadway bridge superstructure to prevent further degradation of the structure. The No-Build alternative does not meet the project's purpose and could eventually cause a safety concern for the public. The failure/ closing of the bridge could cause significant transportation impacts in the event the superstructure is not replaced. The No Build scenario is not a practicable alternative.
- Bridge Replacement: A full bridge replacement could be considered an alternative rather than replacing the existing superstructure, and would meet the project's purpose, however, would cause significantly greater resource area impacts, have significantly higher construction costs, and create significantly greater traffic/ transportation impacts related to an increased construction time frame. A full bridge replacement is not a practicable or substantially equivalent economic alternative.
- Preferred Alternative/ Current Proposal: The current proposal achieves the project goal of replacing the superstructure to lengthen the life of the bridge and improve public safety. The proposal also achieves the project goal without detrimental impact to resource areas as no changes in ground cover or increase in impervious area is proposed.

10.59: Estimated Habitats of Rare Wildlife

Not Applicable. No Estimated Habitat of State Listed Wildlife according to the most recent NHESP Habitat Maps is located within the project area and therefore the proposed construction will meet the performance standards of the WPA.

CONCLUSION

The proposed superstructure replacement consists of new prestressed concrete deck beams, concrete bridge deck, abutment cap reconstruction, concrete approach slabs, bridge railing and approach guardrail. The project also includes a resurfaced roadway and new pavement markings. Generally, the proposed roadway features and dimensions will closely match existing conditions. The only resource area impacts are to previously disturbed and degraded Riverfront Area and a slight increase in BLSF storage capacity. Construction period erosion and sedimentation controls are proposed to protect the resource areas during construction, and stabilization measures following construction will provide for permanent protection of the resource areas from impact. The Applicant requests that the Conservation Commission finds that the project as described in this Notice of Intent successfully upholds the interest of the Wetlands Protection Act and the North Reading Wetland Protection Bylaw, and subsequently issues an Order of Conditions for the proposed improvement project.

STORMWATER REPORT

Proposed Superstructure Replacement Park Street over Martins Brook Bridge No. N-18-002 (7YC) Stormwater Report

Introduction

This stormwater report was performed to study the stormwater runoff conditions for the Park Street Bridge over Martins Brook Superstructure Replacement Project in North Reading, MA. The Town of North Reading is proposing a superstructure replacement project at the Park Street over Martins Brook Bridge, in North Reading. The bridge provides a span of greater than 10' for a public way and therefore is under the jurisdiction of MassDOT. The proposed superstructure replacement consists of new prestressed concrete deck beams, concrete bridge deck, abutment cap reconstruction, concrete approach slabs, bridge railing and approach guardrail. The project also includes a resurfaced roadway and new pavement markings. Generally, the proposed roadway features and dimensions will closely match existing conditions. The project is subject to the Massachusetts Department of Environmental Protection Wetlands Protection Act. This analysis has been performed to conclude that the proposed conditions for the project will not have any adverse effects on stormwater conditions.

Stormwater Pre and Post Conditions

The intention of this project is to maintain existing drainage patterns including flow paths, watershed size, peak flows, and discharges for the area of work. The existing roadway runoff is directed to the roadside shoulders, and discharged to Martins Brook via flow down steep, partially vegetated embankments. There are no proposed changes to ground cover, changes to flow paths, or increase in impervious area. The project does include a proposed stormwater BMP improvement over existing conditions via the construction of a stabilized riprap swale. The proposed swale will provide for increased stabilization and energy dissipation, and thus decreased risk of erosion and sedimentation over the current flow path down the steep, partially vegetated embankment. The voids in the riprap will also provide for some heavier pollutant removal prior to discharge to the brook, resulting in an improved post-development condition over existing. The project qualifies as a redevelopment project and as a limited project as described in 310 CMR 10.53(3)(i), and therefore the project is required to meet certain Stormwater Standards to the maximum extent practicable.

Stormwater Standards

Standard 1: No New Untreated Discharges

No new stormwater conveyances may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

The intention of this project is to maintain existing drainage patterns. As previously noted, the project proposes an improvement over the existing stormwater discharge to Martins Brook via the construction of a stabilized riprap swale. The proposed swale will provide for increased stabilization and energy dissipation, and thus decreased risk of erosion and sedimentation over the current flow path down the steep, partially vegetated embankment. The voids in the riprap will also provide for some heavier pollutant removal prior to discharge to the brook, resulting in an improved post-development condition over existing. As designed the project will meet Standard 1 and not discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.

Standard 2: Peak Rate Attenuation

Stormwater management systems shall be designed so that the post-development peak discharge rates do not exceed pre-development peak discharge rates.

As a limited roadway/redevelopment project, this project must meet this standard to the maximum extent practicable. The intention of this project is to maintain existing drainage patterns, including ground cover, drainage flow paths, conveyances, and therefore peak flows. The project does not propose any increases in impervious surface. As designed the project will meet Standard 2 and not increase pre-development peak discharge rates.

Standard 3: Recharge

Loss of annual recharge to groundwater shall be eliminated or minimized through the use of environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance.

As a limited roadway/redevelopment project, this project must meet this standard to the maximum extent practicable. The intention of this project is to maintain existing drainage patterns, including ground coverage. The project does not include any proposed increase in impervious surfaces or any other change in ground cover, and therefore does not require any proposed groundwater recharge. As designed the project will meet Standard 3 and not cause an increase in loss of annual recharge to groundwater.

Standard 4: Water Quality

Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS).

As a limited roadway/redevelopment project, this project must meet this standard to the maximum extent practicable. The intention of this project is to maintain existing drainage patterns, including ground coverage. The project does not include any proposed increase in impervious surfaces, and therefore does not require any additional water quality treatment BMPs. The project includes the proposed construction of a stabilized riprap swale. The proposed swale will provide for increased stabilization and energy dissipation, and thus decreased risk of erosion and sedimentation over the current flow path down the steep, partially vegetated embankment. The voids in the riprap will also provide for some heavier pollutant removal prior to discharge to the brook, resulting in an improved post-development condition over existing. As designed the project will meet Standard 4 and not cause an impairment of water quality to waters of the Commonwealth.

Standard 5: Land Uses with Higher Potential Pollutant Loads (LUHPPLs)

For land uses with higher potential pollutant loads, source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable.

As a limited roadway/redevelopment project, this project must meet this standard to the maximum extent practicable, however the proposed project area is not considered a land use with higher potential pollutant load since the land use is not changing, therefore, Standard 5 does not apply to this project.

Standard 6: Critical Areas

Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply and stormwater discharges near or to any other critical area require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such areas, as provided in the Massachusetts Stormwater Handbook.

As a limited roadway/redevelopment project, this project must meet this standard to the maximum extent practicable, however the project area does not discharge to any Critical Areas and therefore Standard 6 does not apply to this project.

Standard 7: Redevelopment and Other Projects Subject to the Standards Only to the Maximum Extent Practicable

A redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable: Standard 2, Standard 3, and the pretreatment and structural stormwater best management practice requirements of Standards 4, 5, and 6. Existing stormwater discharges shall comply with Standard 1 only to the maximum extent

practicable. A redevelopment project shall also comply with all other requirements of the Stormwater Management Standards and improve existing conditions.

This project is considered a redevelopment project as it is the repair of a public roadway and bridge, and as such is required to meet Standards 2, 3, 4, 5, and 6 only to the maximum extent practicable. The intention of this project is to maintain existing drainage patterns, including ground cover, drainage flow paths, conveyances, discharge peak flow rates, groundwater recharge, and water quality. As designed the project will exceed the requirements of Standard 7 by meeting all other Standards to the full extent.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A plan to control construction-related impacts, including erosion, sedimentation, and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.

This project in whole will disturb less than one acre of land, and therefore the project will not require coverage under the EPA NPDES Construction General Permit.

The project has been designed to include erosion and sedimentation controls to prevent impacts to down gradient resource areas. Perimeter sediment control barriers will be installed in construction areas upgradient of adjacent resources areas.

See attached Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan.

Standard 9: Operation and Maintenance Plan

A Long -Term Operation and Maintenance (O&M) Plan shall be developed and implemented to ensure that stormwater management systems function as designed.

The completed stormwater management system will be maintained by the Town of North Reading Department of Public Works. See attached Operation and Maintenance Plan.

Standard 10: Prohibition of Illicit Discharges

All illicit discharges to the stormwater management system are prohibited.

Only stormwater is proposed to be conveyed through the stormwater management system. No illicit materials will be permitted. The Town DPW is responsible for the maintenance of the stormwater system. See attached Illicit Discharge Compliance Statement.

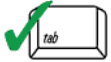
Conclusion

TEC believes the superstructure replacement project meets all of the Standards of the MassDEP Stormwater Regulations by matching pre-development conditions after the proposed work has been completed.

Checklist for Stormwater Report

A. Introduction

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



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the [Massachusetts Stormwater Handbook](#). The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.¹ This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8²
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

¹ The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

² For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

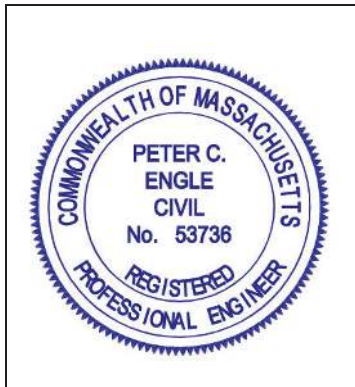
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



03/18/2024

Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

- New development
- Redevelopment
- Mix of New Development and Redevelopment

Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- No disturbance to any Wetland Resource Areas
- Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- Reduced Impervious Area (Redevelopment Only)
- Minimizing disturbance to existing trees and shrubs
- LID Site Design Credit Requested:
 - Credit 1
 - Credit 2
 - Credit 3
- Use of "country drainage" versus curb and gutter conveyance and pipe
- Bioretention Cells (includes Rain Gardens)
- Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- Treebox Filter
- Water Quality Swale
- Grass Channel
- Green Roof
- Other (describe): _____

Standard 1: No New Untreated Discharges

- No new untreated discharges
- Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

- Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

- Soil Analysis provided.
- Required Recharge Volume calculation provided.
- Required Recharge volume reduced through use of the LID site Design Credits.
- Sizing the infiltration, BMPs is based on the following method: Check the method used.
 - Static
 - Simple Dynamic
 - Dynamic Field¹
- Runoff from all impervious areas at the site discharging to the infiltration BMP.
- Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
 - Site is comprised solely of C and D soils and/or bedrock at the land surface
 - M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
 - Solid Waste Landfill pursuant to 310 CMR 19.000
 - Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

¹ 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

- The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
 - Provisions for storing materials and waste products inside or under cover;
 - Vehicle washing controls;
 - Requirements for routine inspections and maintenance of stormwater BMPs;
 - Spill prevention and response plans;
 - Provisions for maintenance of lawns, gardens, and other landscaped areas;
 - Requirements for storage and use of fertilizers, herbicides, and pesticides;
 - Pet waste management provisions;
 - Provisions for operation and management of septic systems;
 - Provisions for solid waste management;
 - Snow disposal and plowing plans relative to Wetland Resource Areas;
 - Winter Road Salt and/or Sand Use and Storage restrictions;
 - Street sweeping schedules;
 - Provisions for prevention of illicit discharges to the stormwater management system;
 - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
 - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
 - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
 - Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
 - is within the Zone II or Interim Wellhead Protection Area
 - is near or to other critical areas
 - is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
 - involves runoff from land uses with higher potential pollutant loads.
 - The Required Water Quality Volume is reduced through use of the LID site Design Credits.
 - Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.

Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

- The BMP is sized (and calculations provided) based on:
 - The ½" or 1" Water Quality Volume or
 - The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- The NPDES Multi-Sector General Permit does **not** cover the land use.
- LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- All exposure has been eliminated.
- All exposure has **not** been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

- The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- Critical areas and BMPs are identified in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
 - Limited Project
 - Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
 - Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
 - Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
 - Bike Path and/or Foot Path
 - Redevelopment Project
 - Redevelopment portion of mix of new and redevelopment.
- Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
 - Construction Period Operation and Maintenance Plan;
 - Names of Persons or Entity Responsible for Plan Compliance;
 - Construction Period Pollution Prevention Measures;
 - Erosion and Sedimentation Control Plan Drawings;
 - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
 - Vegetation Planning;
 - Site Development Plan;
 - Construction Sequencing Plan;
 - Sequencing of Erosion and Sedimentation Controls;
 - Operation and Maintenance of Erosion and Sedimentation Controls;
 - Inspection Schedule;
 - Maintenance Schedule;
 - Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

- The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- The project is **not** covered by a NPDES Construction General Permit.
- The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

- The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
 - Name of the stormwater management system owners;
 - Party responsible for operation and maintenance;
 - Schedule for implementation of routine and non-routine maintenance tasks;
 - Plan showing the location of all stormwater BMPs maintenance access areas;
 - Description and delineation of public safety features;
 - Estimated operation and maintenance budget; and
 - Operation and Maintenance Log Form.
- The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
 - A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
 - A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

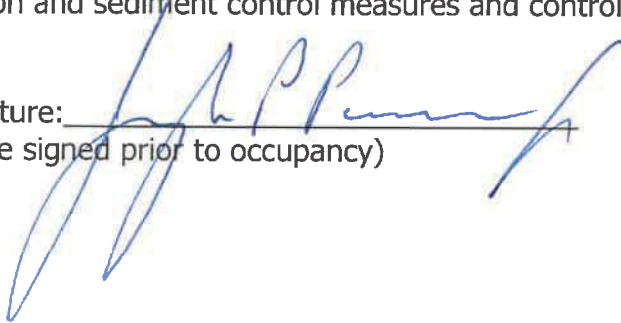
- The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- An Illicit Discharge Compliance Statement is attached;
- NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.

Illicit Discharge Compliance Statement

Name of Owner: Town of North Reading
Name of Facility: Park Street over Martins Brook
Location: Park Street, North Reading, MA 01864

The Construction Plans and Stormwater Report for the Park Street over Martins Brook Superstructure Replacement, located at Park Street, North Reading, meets the requirements of Standard 10 of the Massachusetts Stormwater Handbook.

The Construction Plans were prepared by qualified personnel at the direction of **Town of North Reading**. The Site Plans identify the location of temporary erosion and sediment control measures and control of water.

Signature: 
(To be signed prior to occupancy)

Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan

TEC Project File No. T1313

Proposed Superstructure Replacement Park Street over Martins Brook Bridge No. N-18-002 (7YC)

Prepared for: **Town of North Reading DPW**
235 North Street
North Reading, MA 01864



Prepared by: **TEC, Inc.**
282 Merrimack Street
Lawrence, MA 01843



March 27, 2024

CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN

Name of Applicant: Town of North Reading
Name of Facility: Park Street Bridge over Martins Brook
Location: North Reading, MA 01843

Good Housekeeping BMPs

Goals

Minimize the potential for contaminants to enter or runoff from the site during construction activities. Fuel and other equipment related fluids will be properly stored. The Contractor shall establish secure storage areas that collect any spillage to meet requirements of the Town of North Reading Fire Department regarding the storage of flammable materials. The Contractor shall complete and submit the plans to the Engineer.

General Requirements

The following presents a proactive approach to all of the best management practices, erosion and sedimentation controls, mitigation measures, and monitoring activities for this Project.

Compost Filter Tube

Compost filter tube is used as temporary perimeter controls where construction activities will disturb existing surfaces. They can also be used to contain soil stockpiles areas. Filter tubes consist of a minimum diameter of 12 inches tamped into place to ensure good contact with soil surface. When installed correctly and inspected frequently, filter tubes can be an effective barrier to sediment leaving the site in stormwater runoff.

Temporary Seeding and Slope Stabilization

Seeding shall be used to temporarily stabilize areas that will not be brought to final grade for a period of more than 30 working days and to stabilize disturbed areas before final grading or in a season not suitable for permanent seeding. Stabilization of open soil surfaces will be implemented within 14 days after grading or construction activities have temporarily or permanently ceased, unless there is sufficient snow cover to prohibit implementation.

Vegetative slope stabilization will be used to minimize erosion on slopes of 3:1 or steeper. Annual grasses, such as annual rye, will be used to ensure rapid germination and production of root mass. Permanent stabilization will be completed with the planting of perennial grasses or legumes. Establishment of temporary and permanent vegetative cover may be established by hydro-seeding or sodding. A suitable topsoil, good seedbed preparation, and adequate lime, fertilizer, and water will be provided for effective establishment of these vegetative stabilization methods. Root systems restrain the soils so that they are less apt to be dislodged and carried offsite by stormwater runoff or wind.

Temporary seeding also reduces the problems associated with mud and dust from bare soil surfaces during construction. Mulch will also be used after permanent seeding to protect soil from the impact of falling rain and to increase the capacity of the soil to absorb water.

General Maintenance

Refer to the Inspection and Maintenance Checklist (at the end of this section) identifying inspection and maintenance measures for each specific practice.

The contractor or subcontractor will be responsible for implementing each control shown on the Plan. In accordance with EPA regulations, the contractor must sign a copy of a certification to verify that a plan has been prepared and that permit regulations are understood.

The onsite contractor will inspect all sediment and erosion control structures weekly and after each rainfall event meeting the minimum requirements as defined in the Plan.

Records of the inspections will be prepared and maintained onsite by the contractor as required by the Plan, as well as federal, state, and local authorities.

- Silt shall be removed from behind barriers if greater than 6-inches deep or as needed.
- Damaged or deteriorated items will be repaired immediately after identification.
- The underside of wattles/tubes/socks/bales should be kept in close contact with the earth and reset as necessary.
- Sediment that is collected in structures shall be disposed of properly and covered if stored onsite.
- At a minimum establish good housekeeping BMPs for:
 - Material handling and waste management
 - Staging areas
 - Designate washout areas
 - Equipment vehicle fueling and maintenance
 - Spill prevention and control

Erosion control structures shall remain in place until all disturbed earth has been securely stabilized. After removal of structures, disturbed areas shall be regraded and stabilized as necessary.

Spill Prevention and Control

The Contractor will actively maintain and manage the site activities with the procedures outlined in this Plan. In the event of petroleum or other deleterious substance spill, action will be taken by the Contractor to contain and remove the spill. The Contractor will comply with the relevant section(s) of the Oil Pollution Prevention Act, 40 CFR 112.7.

Responsibility

All project personnel share the responsibility for the initial control and reporting of the oil and other substance spill, especially the personnel that first discover the spill. The Site Safety and Health Officer (SSHO) will be responsible for determining the necessary safety equipment and for establishing safety practices to be followed by the Contractor during the clean-up operations. All personnel will be trained in the use of and location of this equipment, prior to the commencement of the construction.

The Contractor's goal is to provide effective, efficient, and coordinated action to minimize or mitigate damages to the environment and public health and welfare from oil or other substance discharges, conforming to applicable federal, state, and local regulations, as well as other provisions and restrictions. In the event of spills or releases that may occur during the Project, a representative on-site qualified by OSHA training requirements (29 CFR 1910.120) for a Level 3 Hazmat Technician will be provided and will have the responsibility and authority for supervising the cleanup. If the representative determines that the cleanup operations are beyond the capacity of the Contractor, assistance shall be requested from its Subcontractor.

In the event of an emergency spill, the Contractor will be responsible for retaining the environmental Subcontractor. The selected environmental subcontractor will develop a Hazardous Materials Health and Safety Plan, which will be referenced when a spill or release is discovered, and the control of the spill or release is beyond the scope of the Spill Prevention Control and Countermeasure plan. The Contractor's Project Manager is responsible for giving the SSHO directions for initiating the Hazardous Materials Health and Safety Plan.

Alert and reporting procedures will become effective immediately upon observance and indication of a spill or discharge of oil or other substances on the project.

Reportable observations are:

1. Leaks or spills
2. Soils which are discolored or have an odor
3. Discharge of oil or other similar substances from drain pipes.

The Engineer will be informed immediately of all substantial spills, releases, or other substance discharges. All telephone numbers for the Emergency Response agencies will be posted on site. The Contractor or its Subcontractors will implement control and countermeasures immediately.

Fuel and Oil Delivery Trucks

The equipment superintendent or designee will monitor all truck unloading procedures to verify all hoses are tight and do not leak, and if necessary, will tighten, adjust, or replace them to prevent a release of any kind. In the event of a major spill, alert and initial report procedures will be implemented, and an emergency response contractor will be called in to perform the cleanup.

Equipment

Motorized equipment that requires fuel and oil to operate will be inspected prior to the start of each work shift by the operator (in the field) to ensure there is no leakage of oil, fuel, or other material. Trucks will be inspected prior to use for potential leaks or drips. If a leak is found,

repairs will be made immediately, and spillage will be cleaned up manually using sorbent material. Vehicles that are found to be leaking will be immediately taken out of service until repairs can be made.

Drum Storage

Drum storage, if any, will be located in a secure area within the Project limits away from environmental areas of concern. Petroleum liquids and other substances stored in drums will be kept in a drum container that consists of a drum rack and drip containment pan that is capable of containing 110% of the stored volume should the drum rupture.

Lubrication / Oil Maintenance

Replacement lubrication will be directly deposited from the lubrication truck to the equipment lubrication reservoir. No other container system will be used to transport oil to the equipment. Mobile equipment will be serviced off site or in the lay-down area. Equipment that cannot be moved will be serviced in the field. The Contractor will place a containment pan or absorbent below the service area prior to initiating service activities in the field. Waste disposal will be completed by the Contractor or by a waste disposal firm. Miscellaneous lubricants for operating equipment will be limited to daily quantities.

Spent Oil

Oil that has already been used on the job will be disposed of via a certified waste disposal firm. Spent oil will be stored in a labeled (hazardous waste signs) and vented fuel storage cell located at the staging area awaiting disposal by a certified waste disposal firm (i.e. Enpro, Inc.). The staging area will be located within the boundary of the project and inspected daily for leaks or spills. The storage cell will be bermed to contain 110% of the largest container or 10% of the total volume in storage, whichever is greater.

Special Oil Spill Equipment

Sorbent Pads

Sorbent pads will be available to absorb oil and petroleum compounds. If necessary, the pads will be used to absorb oil spills or leaks by placing them on the oil and giving them adequate time to absorb it. The sorbent pads will be stored in equipment box located in the maintenance area. The pads shall float and be water repellent, so they can absorb oil on water. Saturated/contaminated pads will be placed in an appropriate container and stored within the maintenance area. A certified waste disposal firm will dispose of the approved containers.

Sorbent Compound

The compound will be used for contaminants spilled on decks or hard surfaces. In most cases, it can be applied directly to spills, but if the spill is large, it can be used to form a dike around the spill to prevent further migration.

Stormwater Management Operations and Maintenance Plan

TEC Project File No. 1313

Proposed Superstructure Replacement Park Street over Martins Brook Bridge No. N-18-002 (7YC)

Prepared for: **Town of North Reading DPW**
235 North Street
North Reading, MA 01864



Prepared by: **TEC, Inc.**
282 Merrimack Street
2nd Floor
Lawrence MA, 01843



March 27, 2024

Stormwater Management Operation and Maintenance Plan

Name of Owner: Town of North Reading
Name of Facility: Park Street over Martins Brook
Location: North Reading, MA 01864

A detailed, written log of all scheduled preventative and corrective maintenance performed for the stormwater management measures must be kept by the Applicant, including a record of all inspections and copies of maintenance-related work orders.

An "Inspection and Maintenance Check List" shall be maintained as a record of regularly scheduled inspection and maintenance items as outlined below for every year. The property owners, Town of North Reading, or their representative is responsible for the upkeep and maintenance of the structure and proposed erosion control measures. The funding, operation, and maintenance of the maintenance of the stormwater management Best Management Practices (BMPs) shall be provided by the DPW of Town of North Reading or their appointee.

Maintenance routine and schedule: Routine inspections will be conducted monthly and thorough investigations will be conducted twice a year. Task systems include regular removal of accumulated sediments, floatables and debris. Inspections will occur after every major storm event throughout construction and for the first six (6) months after construction is completed. Inspections will be conducted by a qualified person experienced in drainage design and stormwater management systems.

Refer to plans entitled "Park Street over Martins Brook Superstructure Replacement" for locations of BMPs to be maintained.

The owner agrees with a minimum maintenance schedule as follows:

1. Sweeping and cleaning deck surface.

All surfaces of the deck shall be swept with a vacuum assisted cleaner at least two times per year. The deck shall be swept by hand as needed to remove the noticeable accumulation of sediments.

2. Grass Landscaping

The grass landscaping and plantings will be inspected after every major storm event for the two (2) months after seeding to ensure functionality. Thereafter, inspections should take place every six (6) months in the spring and fall and after severe storm events. Grass landscaping showing signs of wear and erosion will be re-loamed/re-seeded as necessary to prevent further erosion from taking place.

3. Snow removal. Snow will be removed from the bridge as part of a town-wide snow removal procedure as conducted throughout the rest of the town-owned right of ways.

4. Riprap Swale. Inspect riprap structure annually and after heavy rains. Look for erosion at sides and ends of apron and for stone displacement. Rock may need to be added if sediment builds up in the pore spaces of the stone. Any detrimental sediment accumulation should be removed. If rilling has taken place on the lip, the damage should be repaired. Make repairs immediately using appropriate stone sizes. Do not place stones above finished grade. If erosion is occurring down gradient of the outfall, the down gradient vegetation is not stable and the area should be stabilized, the riprap apron is not long or wide enough and needs to be increased, or the riprap stones are too small or not graded well. If movement of stone is occurring: riprap stones may be too small or not graded well, or the appropriate filter fabric may not be installed under riprap. If erosion occurs around apron and scour holes appear, foundation may not be excavated wide or deep enough. If erosion of the foundation is occurring, the appropriate filter fabric may not be installed under riprap. Woody vegetation should be removed from the rock riprap annually because tree roots will eventually dislodge the riprap. Woody vegetation should not be allowed to become established in the rock riprap and if present should be removed. Debris should not be allowed to accumulate in the channel. Dispose of waste materials in designated disposal areas.

The Long-Term Pollution Prevention Plan

The Town of North Reading agrees to comply with the following Long-Term Pollution Prevention Plan to ensure long-term stormwater quality discharge from the site:

- *Good housekeeping practices:* The project is public roadway and bridge maintained by the Town, including snow removal, de-icing, street sweeping and BMP inspection/maintenance.
- *Provisions for storing materials and waste products inside or under cover:* Waste products are not anticipated to be produced or stored on this site.
- *Vehicle washing controls:* No vehicle washing is expected at the site following construction.
- *Spill prevention and response plans:* Vehicular travel over the bridge may result in a spill of oil or hazardous materials. The police and fire department will respond and address any release.
- *Provisions for maintenance of landscaped areas:* The Town will provide long-term maintenance for the landscaped areas.
- *Requirements for routine inspections and maintenance of stormwater BMPs:* The Town DPW will provide long-term maintenance of the stormwater system.

- *Requirements for storage and use of fertilizers, herbicides, and pesticides:* No storage or use of fertilizers, herbicides, or pesticides are expected at the site following construction.
- *Provisions for operation and management of septic systems:* Not Applicable
- *Provisions for solid waste management:* The Town is responsible for roadway litter clean up.
- *Snow disposal and plowing plans relative to Resource Areas:* No snow will be stored or disposed of in surrounding resource areas.
- *Street sweeping:* All surfaces of the deck shall be swept with a vacuum assisted cleaner at least two times per year. The deck shall be swept by hand as needed to remove the noticeable accumulation of sediments.
- *Provisions for prevention of illicit discharges to the stormwater management system:* Only stormwater is proposed to be conveyed through the stormwater management system. No illicit materials will be permitted. The Town will be responsible to maintain this system.
- *Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL:* The project location is not considered a LUHPPL, however in the event of a maintenance vehicular spill, the fire department and police department will be responsible for cleanup and contamination removal.
- *Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan:* Prior to implementation of the LTPPP, the owners shall provide an on-site meeting with the maintenance personnel to present the contents and requirements of the Stormwater Operation and Maintenance Plan and the LTPPP.
- *List of Emergency contacts for implementing Long-Term Pollution Prevention Plan:*

Town of North Reading
235 North Street
North Reading, MA 01864

**Long-Term Operation and Maintenance
INSPECTION AND MAINTENANCE SCHEDULE**

**Park Street Bridge over Martins Brook
North Reading, MA 01864**

Best Management Practice (BMP)	Inspection Frequency	Maintenance Frequency
Landscaping	Bi-Annual (Early Spring & Late Fall)	Seasonally As Needed
Roadway Sweeping	Bi-Annual (Early Spring & Late Fall)	Bi-Annual (2-Times / Year) (Apr/May and Oct/Nov.)
Snow Removal		After heavy snowfall
Riprap Swale	Bi-Annual (Early Spring & Late Fall)	Bi-Annual (2-Times / Year) (Apr/May and Oct/Nov.)

* Actual time of inspecting and maintaining items may vary. The chart shall be used to indicate the frequency of events.

** This chart shall be used in conjunction with the "Stormwater Management Operations and Maintenance Plan".

Name of Applicant: Town of North Reading

Name of Facility: Park Street Bridge over Martins Brook

Location: North Reading, MA 01864

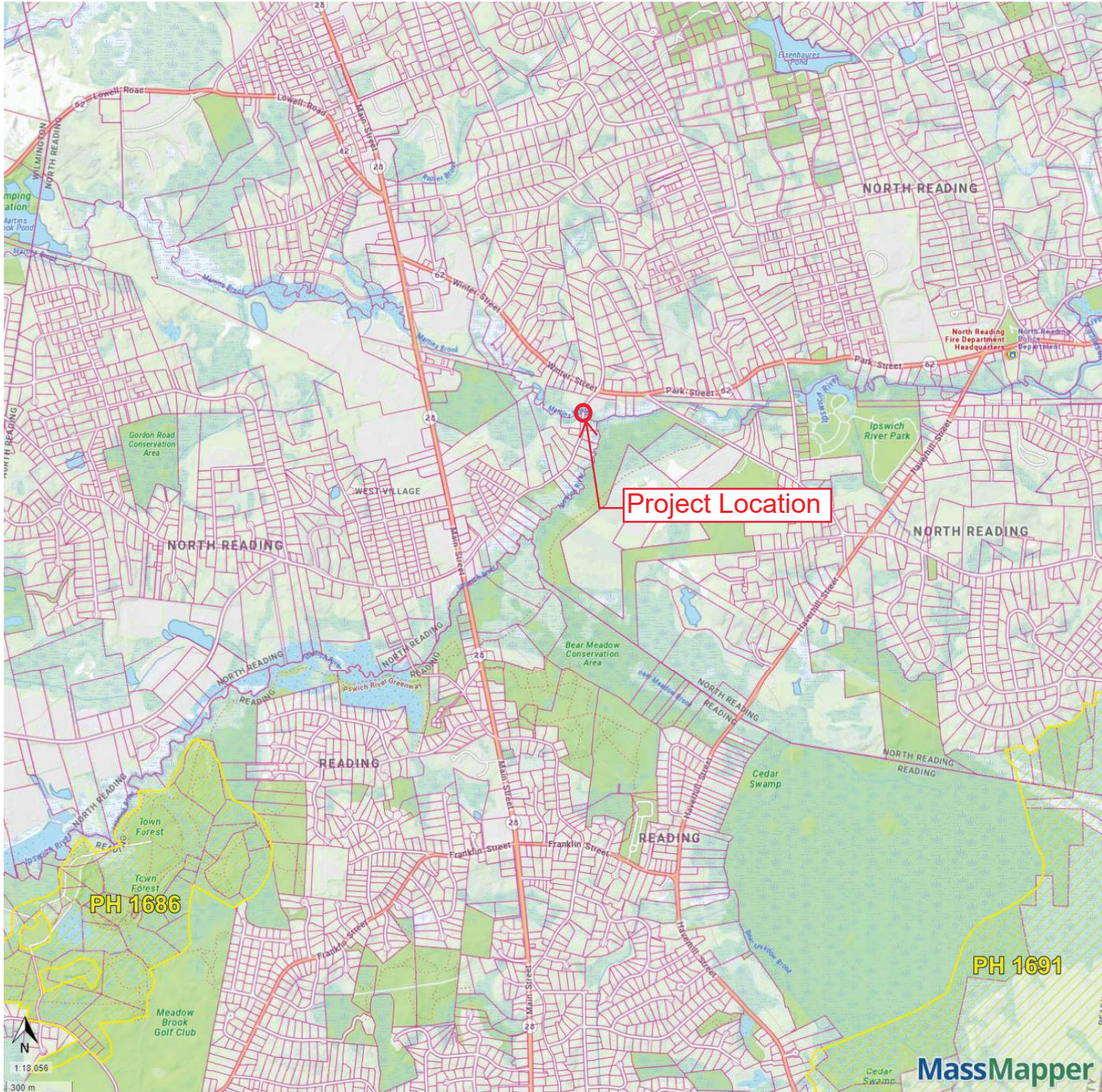
Inspection and Maintenance Log

Inspection No.	Date	Inspections Performed	Maintenance Actions Taken
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			

Additional Sheets shall be added as needed.

SUPPORTING MAPS AND DATA

Park Street



Outstanding Resource Waters

- ACEC
- Cape Cod National Seashore
- Protected Shoreline
- Public Water Supply Watershed
- Retired Public Water Supply
- Scenic/Protected River
- Wildlife Refuge

NHESP Priority Habitats of Rare Species

-
-

NHESP Estimated Habitats of Rare Wildlife

-

Property Tax Parcels

National Flood Hazard Layer FIRMMette



71°6'23"W 42°34'31"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

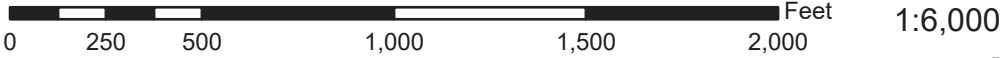
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/4/2024 at 1:21 PM 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.



Basemap Imagery Source: USGS National Map 2023

71°5'46"W 42°34'4"N

WETLAND BORDER REPORT

TEC, Inc.
Jody Trunfio, P.E.
Principal
282 Merrimack Street
Lawrence, MA 01843

February 21, 2023

Re: Wetland Border Report
Park Road Crossing of Martin Brook, North Reading MA

Dear TEC Inc.,

Introduction

On February 16, 2023, the wetland resources were delineated on land located on or near the above-listed site (refer to enclosed locus maps). The brook and wetland border were flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al and the local wetland bylaw. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

Two Banks/MAHW were delineated on either side of Martin Brook at Park Street's crossing with series GC B-1 to B-12 and 2B-1 to 2B-12. Three Bordering Vegetated Wetlands lining the flagged banks were flagged with series W-1 to W-5, 2W-1 to 2W-4, and 3W-1 to 3W-4. The wetlands are protected under the MA Wetlands Protection Act and the local bylaw.

According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife. The site is not located in an Area of Critical Environmental Concern (ACEC), but is within regulated FEMA flood zone designations AE.

The titles of attached documents are as follows:

- DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form
- *Map 1. USGS of Locus Site*, Goddard Consulting, LLC, 2/15/2023
- *Map 2. Orthophoto & Soils View of Locus Site*, Goddard Consulting, LLC, 2/15/2023
- *Map 3. FEMA Flood Map*, Goddard Consulting, LLC, 2/15/2023
- *Map 4. NHESP Map*, Goddard Consulting, LLC, 2/15/2023

Section 1. Regulatory Framework, Implications, and Delineation Methodology

1.1 Wetlands Protection Act (WPA)

Wetland resource areas were delineated in accordance with relevant federal and state regulations. Definitions of the resource areas on site are provided. As stated in 310 CMR 10.55 (2)(a), "Bordering Vegetated Wetlands are freshwater wetlands which border on creeks, rivers, streams, ponds and lakes. The types of freshwater wetlands are wet meadows, marshes, swamps and bogs. Bordering Vegetated Wetlands are areas where the soils are saturated and/or inundated such that they support a predominance of wetland

indicator plants. The ground and surface water regime and the vegetation community which occur in each type of freshwater wetland are specified in M.G.L. c 131 sec. 40.”

Additionally stated in 310 CMR 10.55, “A Bank is the portion of the land surface which normally abuts and confines a water body, It occurs between a water body and a vegetated bordering wetland and adjacent flood plain, or, in the absence of these, it occurs between a water body and an upland.”

Further defined in 310 CMR 10.58 (2), “A river is any natural flowing body of water that empties to any ocean, lake, pond, or other river and which flows throughout the year. Rivers include streams that are perennial because surface water flows within them throughout the year.”

The methodology used to delineate Bordering Vegetated Wetlands is detailed in: (1) the BVW Policy “BVW: Bordering Vegetated Wetlands Delineation Criteria and Methodology,” issued March 1, 1995; and (2) “Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act: A Handbook,” produced by the Massachusetts Department of Environmental Protection, dated March 1995.

1.2 Bylaw

Federal, state, and local authorities regulate wetland jurisdiction. North Reading’s local bylaws states its purpose is to, “protect the wetlands, related water resources, and adjoining land areas in the Town of North Reading by prior review and control of activities deemed by the Conservation Commission to have a significant or cumulative effect upon resource area values...” Ch. 196 § 1.

Section 2. Description of Regulated Inland Resource Area

- | | |
|---|---|
| <input checked="" type="checkbox"/> Bank | <input checked="" type="checkbox"/> Bordering Vegetated Wetland (BVW) |
| <input checked="" type="checkbox"/> Land Under Water Bodies and Waterways | <input checked="" type="checkbox"/> Land Subject to Flooding |
| <input checked="" type="checkbox"/> Riverfront Area | <input type="checkbox"/> Isolated Vegetated Wetlands |
| <input checked="" type="checkbox"/> Buffer Zone | <input type="checkbox"/> Estimated Habitats of Rare Wildlife |
| <input type="checkbox"/> Vernal Pool (Certified and/or Potential) | <input type="checkbox"/> Priority Habitats of Rare Species |

The table below provides the Flag Numbers, Flag Type, and Wetland Types and Locations for the BVW resources delineated.

Resource Area	Regulatory Buffer Zone	Wetland Types and Locations
Bank/MAHW Line	100-ft for Bank (buffer zone not flagged in field). 200’ RFA to the MAHWL.	Bank of Martin Brook, flagged with series B-1 to B12 & 2B-1 to 2B-12.
BVW	100-ft (buffer zone not flagged in field)	Boundary of BVW associated with Martin Brook, flagged with series W-1 to W-5, 2-W1 to 2W-4, & 3W-1 to 3W-7.

LUWW	None	Not Flagged. Associated with Martin Brook.
BLSF	None	Not Flagged. Associated with 100-Year floodplain.

2.1 Site Photos



Figure 1. View of Park Road Crossing of Martin Brook.



Figure 2. 2W series BVW along brook.



Figure 3. View of eastern side of crossing along 2B series.



Figure 4. View of 3W series BVW.

2.2 Vegetation

The wetland tree layer is dominant in red maple and American elm. Prominent shrubs in the area include glossy buckthorn and red maple, with inclusions of silky dogwood and highbush blueberry. Tussock Sedge and small amounts of sensitive fern line the wetland forest floor. The adjacent upland tree layer is dominant in white oak and red maple, whereas in the shrub layer buckthorn is the sole dominant plant. Within the upland herbaceous layer there are trace amounts of garlic mustard, and oriental bittersweet is found throughout the upland. All three wetland areas were similar in vegetative character.

2.3 Hydrology

The delineated BVWs connect off the flagged bank of Martin Brook. Evidence of surface water and soil saturation within the wetlands include: Depth to free water in observation hole, saturated soils found at 12 inches, and hydric soils such as Saco mucky silt loam.

2.4 Soils

Consistent with the NRCS survey, soils identified on the property include the above-mentioned Saco mucky silt loam. In the upland, from 0 to 12 inches depth the A-Horizon consists of a fine sandy loam layer with a matrix color of 10YR 5/6. Within the wetland, alternating layers of A and C-Horizons are indicative of floodplain soils. These included layers of 10YR 3/2 matrix of very fine sandy loam, and C-Horizons of 10YR 5/1 fine sand. More detailed information about soils is included in the attached NCRS soil map.

2.5 Topography

Additional site information about elevation and changes in slope that inform delineation of BVW boundary points can be found in the attached topographic maps provided by the U.S. Geological Survey.

Section 3. Buffer Zone

Buffer Zone is defined in 310 CRM 10.04 as the “area of land extending 100 feet horizontally outward from the boundary of any area specified in 310 CMR 10.02(1)(a).” Additionally, the Town of North Reading further defines under General Wetland Protection Rules & Regulations “Lands Within 100 Feet,” which is “different from 310 CMR 10.00 in that this area is a protectable resource area: and that this resource area encompasses more than the buffer zone designated in 310 CMR 10.00.”

Section 4. FEMA Flood Zones

The MassGIS National Flood Hazard Layer provided by the Federal Emergency Management Agency (FEMA) depicts the crossing to be within an AE & X (500 year flood) designated flood zone, meaning there is a 1% Annual Chance of Flooding with BFE, and a 0.2% Annual Chance of Flooding. BLSF is defined in 310 CMR 10.57 (2)(a)(1) as “an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds or lakes. It extends from the banks of these waterways and water bodies; where a bordering vegetated wetland occurs, it extends from said wetlands.” This area is regulated as Bordering Land Subject to Flooding (BLSF), as it is classified as a 100-year flood zone.

Section 5. Findings

Based on these hydric soil indicators, vegetation, hydrological indicators, and topography, Series W, 2W, and 3W were found to be the boundaries of BVW, and series B & 2B to be Bank and MAHWL of Martin Brook.

This site is not located within Estimated and/or Priority Habitat of Rare Wildlife, nor is the site located in an ACEC. This site is within regulated FEMA flood zones.

Very truly yours,
GODDARD CONSULTING, LLC



Steven Riberdy, MS, PWS, CWB, CE, CERP, PSS
Lead Biologist, Soil Scientist and Manager



USGS, MassGIS

Date: 2/15/2023

GC Job Number:
246

Wetland Border Report
Site Locus USGS Map

0 500 1,000
Feet
1 in = 1,000 ft

Figure 1



Park Road Crossing of Martin Brook
North Reading, MA



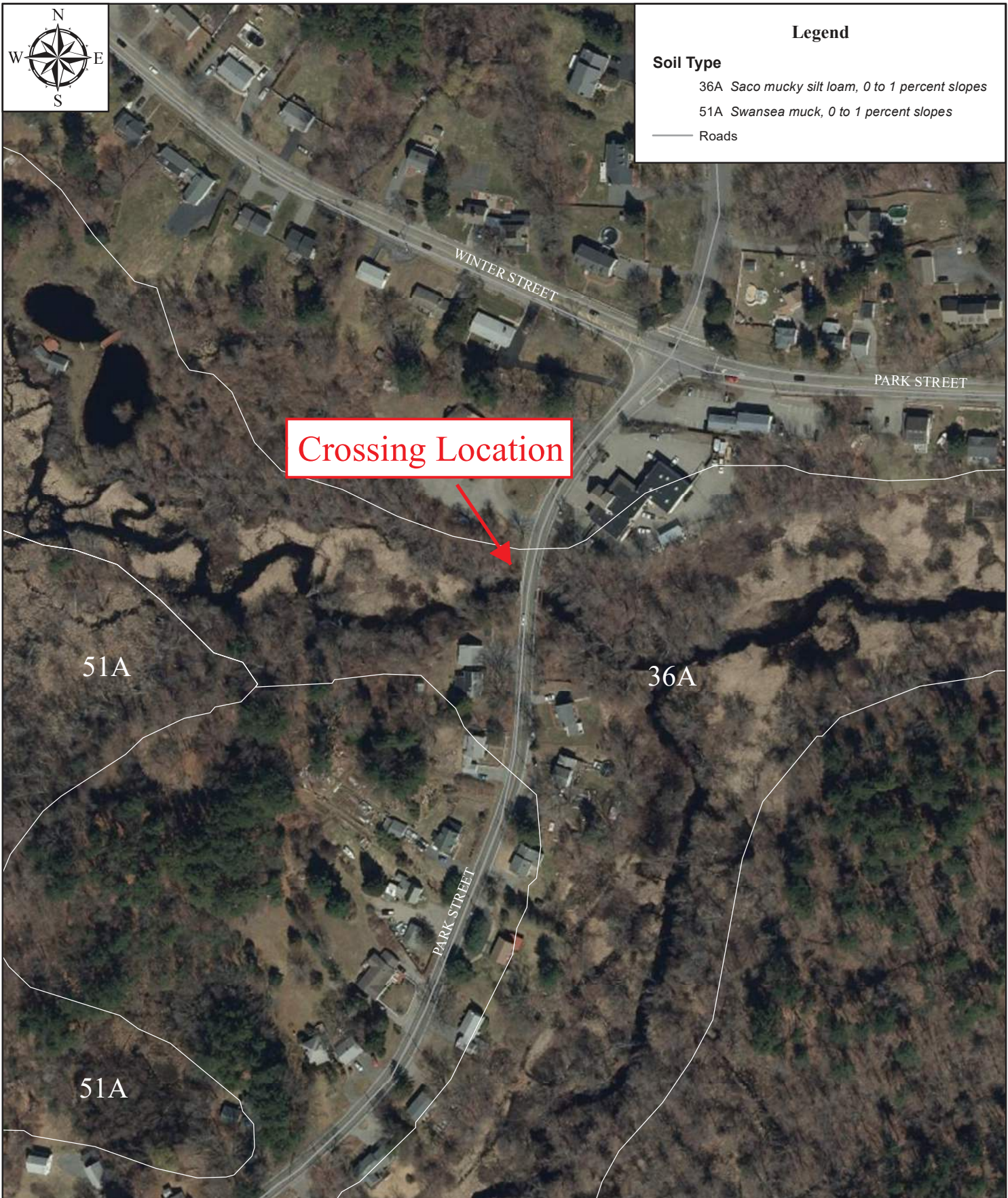
Legend

Soil Type

36A *Saco mucky silt loam, 0 to 1 percent slopes*

51A *Swansea muck, 0 to 1 percent slopes*

— Roads



Date: 2/15/2023

GC Job Number:
246

**Wetland Border Report
Orthophoto & Soils Map**

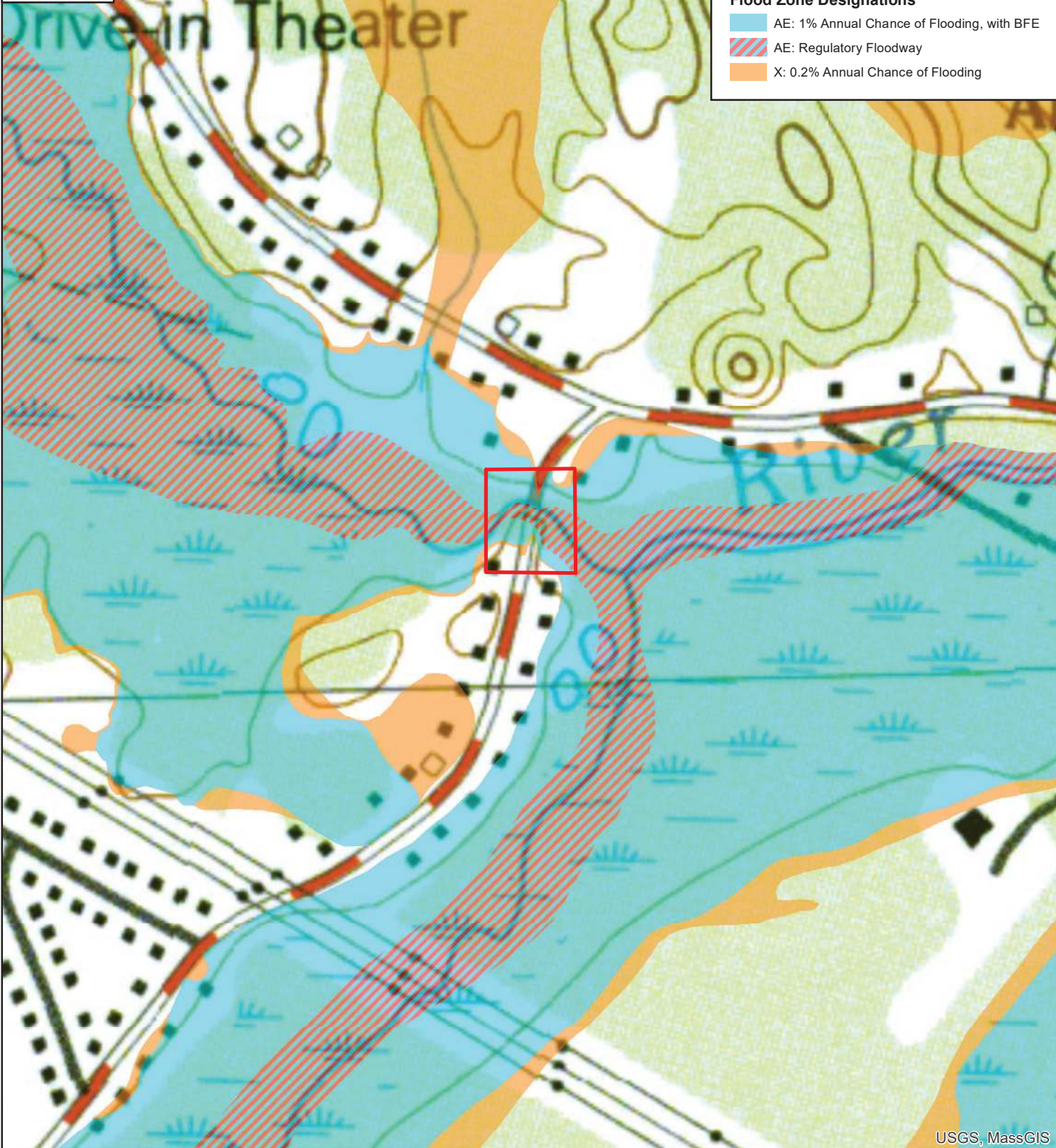
Park Road Crossing of Martin Brook
North Reading, MA

0 100 200
Feet


1 in = 200 ft

Figure 2

GODDARD CONSULTING
Strategic Wetland Permitting LLC






Legend

 Crossing Location

FEMA National Flood Hazard Layer

Flood Zone Designations

-  AE: 1% Annual Chance of Flooding, with BFE
-  AE: Regulatory Floodway
-  X: 0.2% Annual Chance of Flooding

Date: 2/15/2023

GC Job Number:
246

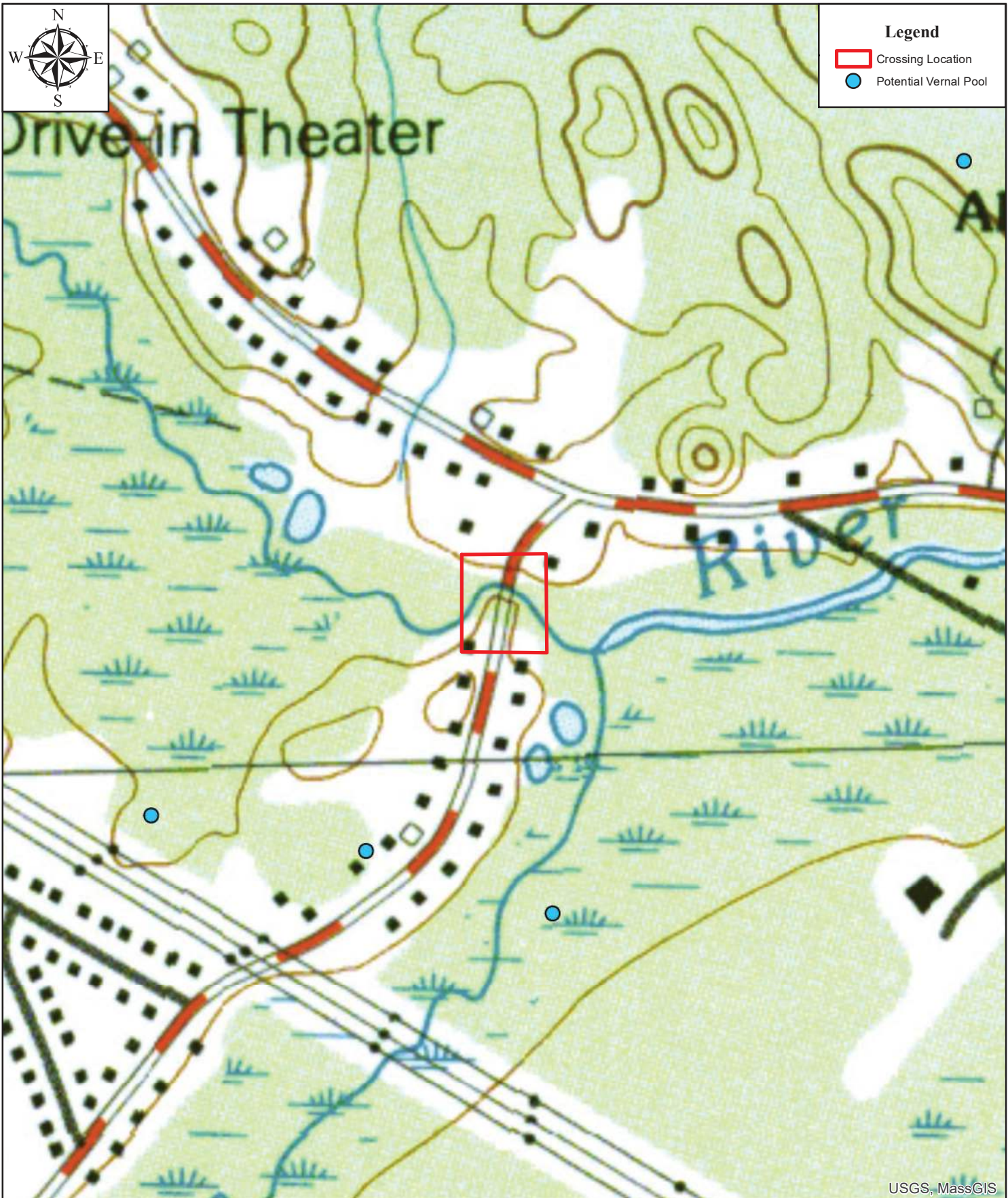
Wetland Border Report FEMA Map

Park Road Crossing of Martin Brook
North Reading, MA



1 in = 400 ft

Figure 3



Date: 2/15/2023

GC Job Number:
246

Wetland Border Report NHESP Map



1 in = 400 ft

Park Road Crossing of Martin Brook
North Reading, MA

Map: #, Lot: #

Figure 4

GODDARD CONSULTING
Strategic Wetland Permitting LLC

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: TEC, Inc.

Prepared by: Goddard Consulting LLC

Project location: Park Road Crossing of Martin Brook, Norf File #: _____

- Check all that apply: Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 Method other than dominance test used (attach additional information)

Section I. Vegetation		Observation Plot Number: W5	Transect Number: Upgradient	Date of Delineation: 16-Feb-23	
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<u>Tree Layer</u>					
Northern White Oak	<i>Quercus alba</i>	38%	50.0%	yes	FACU
Red Maple	<i>Acer rubrum</i>	38%	50.0%	yes	FAC*
 <u>Sapling Layer</u>					
<u>Shrub Layer</u>					
Glossy Buckthorn	<i>Frangula alnus</i>	63%	100.0%	yes	FAC*
<u>Climbing Woody Vine</u>					
Oriental Bittersweet	<i>Celastrus orbiculatus</i>	21%	87.2%	yes	UPL
Virginia Creeper	<i>Entry not found!</i>	3%	12.8%	no	#N/A
<u>Ground Cover</u>					
Garlic-Mustard	<i>Alliaria petiolata</i>	3%	100.0%	yes	FACU
Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth					
Morphological Adaptations: 0			Description: _____		
* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.					
Vegetation conclusion:					
Number of dominant wetland indicator plants: 2			Number of dominant non-wetland indicator plants: 3		
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? no					

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: **Interim Soil Survey of Middlesex County - 1991 (Maps - 1989)**

map number: _____

soil type mapped: _____

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

<u>Horizon</u>	<u>Depth (inches)</u>	<u>Matrix Color</u>	<u>Mottles Color or Texture</u>
A	0-12	10YR 5/6	FSL

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

- Other: _____

Vegetation and Hydrology Conclusion for Upgradient of W5		
	<u>yes</u>	<u>no</u>
Number of wetland indicator plants >= number of non-wetland plants		X
Wetland hydrology present:		
hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

Submit this form with the Request for Determination of Applicability or Notice of Intent

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: TEC, Inc.

Prepared by: Goddard Consulting LLC

Project location: Park Road Crossing of Martin Brook, North File #: _____

- Check all that apply: Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
 Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II
 Method other than dominance test used (attach additional information)

Section I. Vegetation		Observation Plot Number: W5	Transect Number: Downgradient	Date of Delineation: 16-Feb-23	
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<u>Tree Layer</u>					
Red Maple	<i>Acer rubrum</i>	63%	85.7%	yes	FAC*
American Elm	<i>Ulmus americana</i>	11%	14.3%	no	FACW*
 <u>Sapling Layer</u> 					
<u>Shrub Layer</u>					
Glossy Buckthorn	<i>Frangula alnus</i>	63%	60.3%	yes	FAC*
Silky Dogwood	<i>Cornus amomum</i>	11%	10.0%	no	FACW*
Highbush blueberry	<i>Vaccinium corymbosum</i>	11%	10.0%	no	FACW*
Red Maple	<i>Acer rubrum</i>	21%	19.6%	no	FAC*
 <u>Climbing Woody Vine</u> 					
<u>Ground Cover</u>					
Tussock Sedge	<i>Carex stricta</i>	11%	77.8%	yes	OBL*
Sensitive Fern	<i>Onoclea sensibilis</i>	3%	22.2%	yes	FACW*
<p>Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth</p> <p>Morphological Adaptations: 0 Description: _____</p> <p>* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.</p>					
<p>Vegetation conclusion:</p> <p>Number of dominant wetland indicator plants: 4 Number of dominant non-wetland indicator plants: 0</p> <p>Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes</p>					

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no
 title/date: Interim Soil Survey of Middlesex County - 1991 (Maps - 1989)
 map number: _____
 soil type mapped: _____
 hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no
 Remarks: Alternating areas of A + C horizons. Floodplain soils.

2. Soil Description

<u>Horizon</u>	<u>Depth (inches)</u>	<u>Matrix Color</u>	<u>Mottles Color or Texture</u>
A	0-12	10YR 3/2	VFSL
C		10YR 5/1	FS

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____ 14
- Depth to soil saturation in observation hole: _____ 12
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

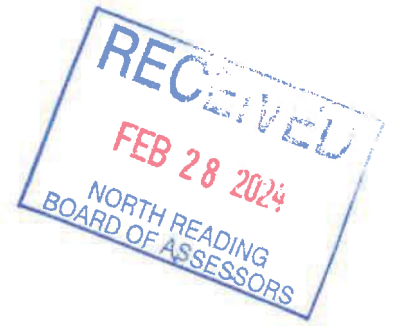
- Other: _____

Vegetation and Hydrology Conclusion for Downgradient of W5		
	<u>yes</u>	<u>no</u>
Number of wetland indicator plants		
>= number of non-wetland plants	X	
Wetland hydrology present:		
hydric soils present	X	
other indicators of hydrology present		X
Sample location is in a BVW		X

Submit this form with the Request for Determination of Applicability or Notice of Intent

CERTIFIED ABUTTERS INFORMATION

TOWN OF NORTH READING
BOARD OF ASSESSORS
235 North Street
North Reading, MA 01864
978-357-5215



REQUEST FOR CERTIFICATION OF ABUTTERS LIST

To be submitted to (check one)

- Board of Appeals
 Board of Health
 Community Planning Commission
 Conservation Commission
 Other _____

If this form is not complete, it will be returned.

Copy of Assessor's Map with area highlighted _____
Fee for \$50 _____

Property Owner of Record Town of North Reading

Address of Property Park Street over Martins Brook
(No. & Street)

Assessor's Map # _____ Parcel# _____

Name of Applicant (print) Emily Clickner, TEC, Inc.

Applicant Address 282 Merrimack Street
(No. & Street)

Lawrence, MA 01843
(City/town & State)

Applicant's Telephone 978-798-1792

Email Address eclickner@theengineeringcorp.com

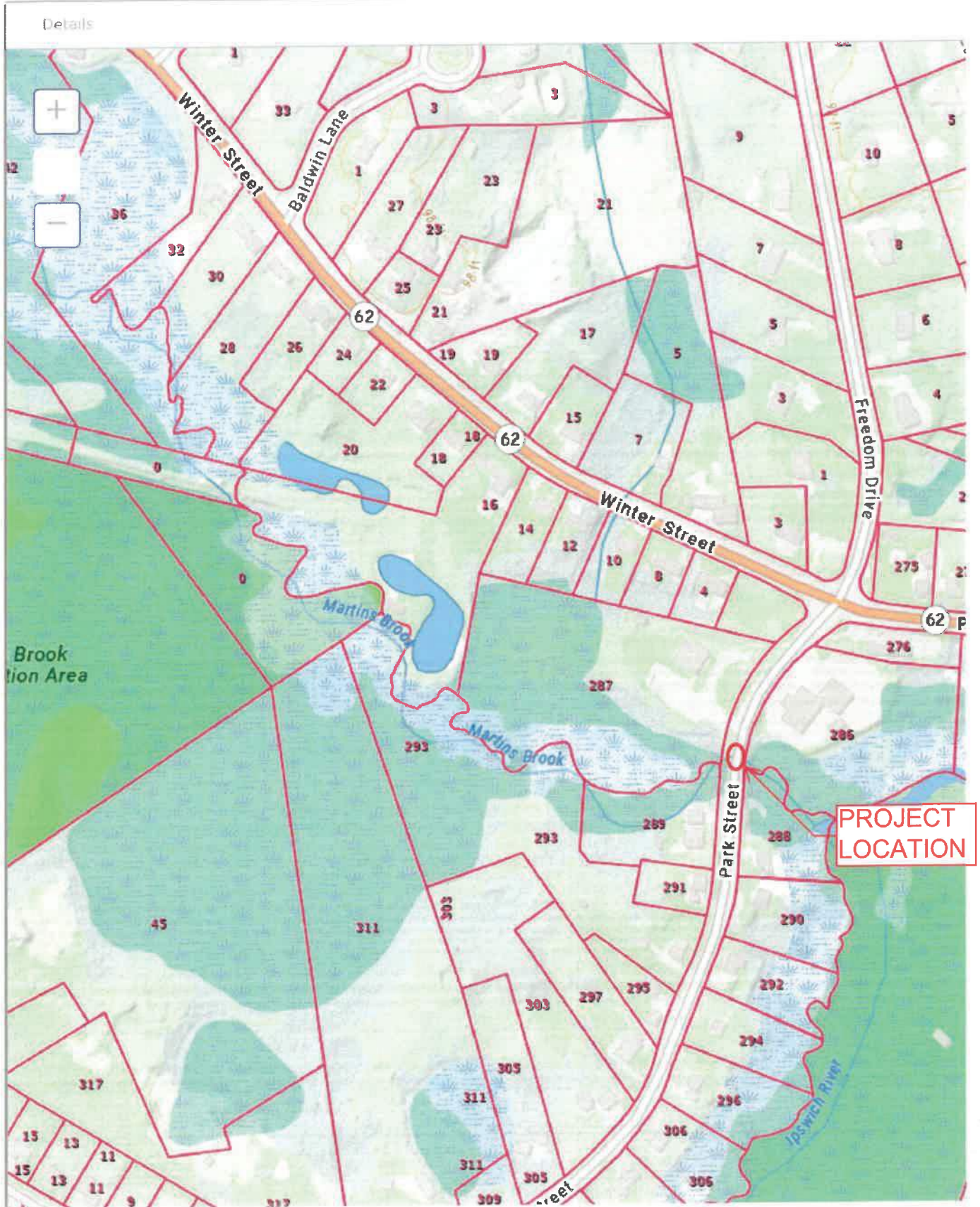
CERTIFIED LIST WILL BE PROVIDED WITHIN 7 - 10 WORKING DAYS

Official Use Only

Certified by : *Debbie Carbone*

Date 3/1/2024

Massachusetts Interactive Property Map



Parcel Number	GIS Number	Cama Number	Property Address	Owner Name	Co-Owner Name	Owner Address	Owner City	Owner Zip
213/035.0-0000-0006.0	M_232699_924_909	213/035.0-0000-0006.0	5 WINTER ST	HOCHBERG DONNA R TRS		5 WINTER ST	NORTH READING	MA 01864-
213/035.0-0000-0071.0	M_232886_924_791	213/035.0-0000-0071.0	2 FREEDOM DR	LAVINE TODD J		2 FREEDOM DR	NORTH READING	MA 01864-
213/036.0-0000-0006.0	M_232597_924_607	213/036.0-0000-0006.0	293 PARK ST	POON HUNG	POON CHI PING L	293 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0007.0	M_232694_924_551	213/036.0-0000-0007.0	291 PARK ST	MASTERSON LES G	MASTERSON DANIELLE	291 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0008.0	M_232679_924_598	213/036.0-0000-0008.0	289 PARK ST	KIM DONG SIK & BAE HYUN JOO		289 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0009.0	M_232655_924_684	213/036.0-0000-0009.0	287 PARK ST	MASONIC TEMPLE OF NORTH READING		PO BOX 56	NORTH READING	MA 01864-
213/036.0-0000-0011.0	M_232714_924_746	213/036.0-0000-0011.0	4 WINTER ST	BRADLEY STEPHEN E	BRADLEY BARBARA L	4 WINTER ST	NORTH READING	MA 01864-
213/036.0-0000-0012.0	M_232683_924_756	213/036.0-0000-0012.0	8 WINTER ST	COVIELLO SERGIO & SHARON TRS	COVIELLO WINTER STREET REALTY TRUST	55 SPRUCE RD	NORTH READING	MA 01864-
213/036.0-0000-0015.0	M_232761_924_776	213/036.0-0000-0015.0	3 WINTER ST	KOSINSKI ERIC	KOSINSKI ANDREANA	3 WINTER ST	NORTH READING	MA 01864-
213/036.0-0000-0017.0	M_232838_924_760	213/036.0-0000-0017.0	275 PARK ST	NETO FERNANDO CAETANO DASILVA	DE AZEVEDO RENATA L	275 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0018.0	M_232879_924_756	213/036.0-0000-0018.0	273 PARK ST	RILEY FRANCES		273 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0049.0	M_232902_924_667	213/036.0-0000-0049.0	272 PARK ST	LAMONT AUGUSTUS S & ETAL TRS	A S L REALTY TRUST	272 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0050.0	M_232834_924_708	213/036.0-0000-0050.0	276 PARK ST	PINK FENCE LLC		276 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0052.0	M_232771_924_591	213/036.0-0000-0052.0	288 PARK ST	LEVESQUE WAYNE		288 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0053.0	M_232769_924_526	213/036.0-0000-0053.0	290 PARK ST	LAVALLEE PAUL S	LAVALLEE MARY G	290 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0054.0	M_232759_924_485	213/036.0-0000-0054.0	292 PARK ST	PARK JUNG HOON	PARK HAEJIN	292 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0061.0	M_233376_924_237	213/036.0-0000-0061.0	168 CHESTNUT ST	NORTH READING TOWN OF	TOWN HALL MURPHY CENTER	235 NORTH ST	NORTH READING	MA 01864-
213/036.0-0000-0063.0	M_232943_924_667	213/036.0-0000-0063.0	270 PARK ST	LAMONT KEITH B	LAMONT KRISTIN E	270 PARK ST	NORTH READING	MA 01864-

Parcel Number	GIS Number	Cama Number	Property Address	Owner Name	Co-Owner Name	Owner Address	Owner City	Owner Zip
213/036.0-0000-0064.0	M_233025_924 667	213/036.0-0000-0064.0	268 PARK ST	LAMONT AUGUSTUS TRS	A S L REALTY TRUST	272 PARK ST	NORTH READING	MA 01864-
213/036.0-0000-0067.0	M_232790_924 775	213/036.0-0000-0067.0	1 FREEDOM DR	CAMPBELL JR CHARLES F & WENDY W TRS	CHARLES F CAMPBELL JR REVOCABLE TRUST-2014	1 FREEDOM DR	NORTH READING	MA 01864-
213/036.0-0000-0068.0	M_232928_924 761	213/036.0-0000-0068.0	269 PARK ST	KELLY JR EDWARD L	KELLY DONNA L	269 PARK ST	NORTH READING	MA 01864-

BRADLEY STEPHEN E
BRADLEY BARBARA L
4 WINTER ST
NORTH READING, MA 01864-

LAVALLEE PAUL S
LAVALLEE MARY G
290 PARK ST
NORTH READING, MA 01864-

RILEY FRANCES
273 PARK ST
NORTH READING, MA 01864-

CAMPBELL JR CHARLES F & W
CHARLES F CAMPBELL JR REV
1 FREEDOM DR
NORTH READING, MA 01864-

LAVINE TODD J
2 FREEDOM DR
NORTH READING, MA 01864-

COVIELLO SERGIO & SHARON
COVIELLO WINTER STREET RE
55 SPRUCE RD
NORTH READING, MA 01864-

LEVESQUE WAYNE
288 PARK ST
NORTH READING, MA 01864-

HOCHBERG DONNA R TRS
5 WINTER ST
NORTH READING, MA 01864-

MASONIC TEMPLE OF NORTH R
PO BOX 56
NORTH READING, MA 01864-

KELLY JR EDWARD L
KELLY DONNA L
269 PARK ST
NORTH READING, MA 01864-

MASTERSON LES G
MASTERSON DANIELLE
291 PARK ST
NORTH READING, MA 01864-

KIM DONG SIK & BAE HYUN J
289 PARK ST
NORTH READING, MA 01864-

NETO FERNANDO CAETANO DAS
DE AZEVEDO RENATA L
275 PARK ST
NORTH READING, MA 01864-

KOSINSKI ERIC
KOSINSKI ANDREANA
3 WINTER ST
NORTH READING, MA 01864-

NORTH READING TOWN OF
TOWN HALL MURPHY CENTER
235 NORTH ST
NORTH READING, MA 01864-

LAMONT AUGUSTUS S & ETAL
A S L REALTY TRUST
272 PARK ST
NORTH READING, MA 01864-

PARK JUNG HOON
PARK HAEJIN
292 PARK ST
NORTH READING, MA 01864-

LAMONT AUGUSTUS TRS
A S L REALTY TRUST
272 PARK ST
NORTH READING, MA 01864-

PINK FENCE LLC
276 PARK ST
NORTH READING, MA 01864-

LAMONT KEITH B
LAMONT KRISTIN E
270 PARK ST
NORTH READING, MA 01864-

POON HUNG
POON CHI PING L
293 PARK ST
NORTH READING, MA 01864-

PROJECT PLANS

Town of North Reading
Park Street Bridge over Martins Brook – Superstructure Replacement
(N-18-002) (7YC)

PROJECT PLANS WERE PROVIDED AS A PART OF THIS SUBMISSION.

PLEASE SEE APPENDIX B FOR PLANS.

RECEIVED

MAR 23 11:10:44

MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF RESOURCE PROTECTION



**Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions**

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
North Reading's General Wetlands Protection Bylaw

Provided by MassDEP:
245-1762
MassDEP File #

eDEP Transaction #
North Reading
City/Town

A. General Information

Please note:
this form has been modified with added space to accommodate the Registry of Deeds Requirements

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

1. From: North Reading
Conservation Commission

2. This issuance is for (check one):
a. Order of Conditions b. Amended Order of Conditions

3. To: Applicant:
Joseph Parisi
a. First Name b. Last Name
Town of North Reading DPW
c. Organization
235 North Street
d. Mailing Address
North Reading MA 01864
e. City/Town f. State g. Zip Code

4. Property Owner (if different from applicant):
a. First Name Town of North Reading b. Last Name
c. Organization
235 North Street
d. Mailing Address
North Reading MA 01864
e. City/Town f. State g. Zip Code

5. Project Location:
Park Street over Martins Brook North Reading
a. Street Address b. City/Town
N/A N/A Bridge
c. Assessors Map/Plat Number d. Parcel/Lot Number
Latitude and Longitude, if known: d m s d m s
d. Latitude e. Longitude





Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 245-1762
 MassDEP File # _____
 eDEP Transaction # _____
 North Reading
 City/Town

A. General Information (cont.)

6. Property recorded at the Registry of Deeds for (attach additional information if more than one parcel):
 Middlesex
 a. County _____ b. Certificate Number (if registered land) _____
 N/A public roadway _____ N/A _____
 c. Book _____ d. Page _____
7. Dates: 3/27/24 4/16/24 4/ /24
 a. Date Notice of Intent Filed b. Date Public Hearing Closed c. Date of Issuance
8. Final Approved Plans and Other Documents (attach additional plan or document references as needed):
 North Reading Park Street over Martins Brook NOI Plan
 a. Plan Title _____
 The Engineering Corp _____ Andrew J. Spurr _____
 b. Prepared By c. Signed and Stamped by
 3/25/24 _____ 1"=20 _____
 d. Final Revision Date e. Scale _____
 f. Additional Plan or Document Title _____ g. Date _____

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act:
 Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act (the Act). Check all that apply:

- a. Public Water Supply b. Land Containing Shellfish c. Prevention of Pollution
 d. Private Water Supply e. Fisheries f. Protection of Wildlife Habitat
 g. Groundwater Supply h. Storm Damage Prevention i. Flood Control

2. This Commission hereby finds the project, as proposed, is: (check one of the following boxes)

Approved subject to:

- a. the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 245-1762
 MassDEP File #

eDEP Transaction #
 North Reading
 City/Town

B. Findings (cont.)

Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)

	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below			
11. <input type="checkbox"/> Land Under the Ocean	_____	_____		
	a. square feet	b. square feet		
	_____	_____		
	c. c/y dredged	d. c/y dredged		
12. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
13. <input type="checkbox"/> Coastal Beaches	_____	_____	_____ cu yd	_____ cu yd
	a. square feet	b. square feet	c. nourishment	d. nourishment
14. <input type="checkbox"/> Coastal Dunes	_____	_____	_____ cu yd	_____ cu yd
	a. square feet	b. square feet	c. nourishment	d. nourishment
15. <input type="checkbox"/> Coastal Banks	_____	_____		
	a. linear feet	b. linear feet		
16. <input type="checkbox"/> Rocky Intertidal Shores	_____	_____		
	a. square feet	b. square feet		
17. <input type="checkbox"/> Salt Marshes	_____	_____	_____	_____
	a. square feet	b. square feet	c. square feet	d. square feet
18. <input type="checkbox"/> Land Under Salt Ponds	_____	_____		
	a. square feet	b. square feet		
	_____	_____		
	c. c/y dredged	d. c/y dredged		
19. <input type="checkbox"/> Land Containing Shellfish	_____	_____	_____	_____
	a. square feet	b. square feet	c. square feet	d. square feet
20. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
	_____	_____		
	a. c/y dredged	b. c/y dredged		
21. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	_____		
	a. square feet	b. square feet		



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 245-1762
 MassDEP File # _____
 eDEP Transaction # _____
 North Reading
 City/Town

B. Findings (cont.)

* #22. If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.5.c (BVW) or B.17.c (Salt Marsh) above, please enter the additional amount here.

22. Restoration/Enhancement *:

a. square feet of BVW _____

b. square feet of salt marsh _____

23. Stream Crossing(s):

a. number of new stream crossings _____

b. number of replacement stream crossings _____

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. the work is a maintenance dredging project as provided for in the Act; or
 - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on 4/23/27 unless extended in writing by the Department.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
245-1762
MassDEP File #

eDEP Transaction #
North Reading
City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
10. A sign shall be displayed at the site not less than two square feet or more than three square feet in size bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MassDEP"]
"File Number 245-1762 "
11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. **The work associated with this Order (the "Project") is (1) is not (2) subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:**

a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.

b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:

- i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;
- ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;
- iii.* any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;
- iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;
- v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement (“O&M Statement”) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan (“O&M Plan”) and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.

d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.

e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.

f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.



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C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.

- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.
- l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):

see attached special conditions



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D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Yes No
2. The North Reading _____ hereby finds (check one that applies):
 Conservation Commission
- a. that the proposed work cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw, specifically:

1. Municipal Ordinance or Bylaw _____ 2. Citation _____

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued.

- b. that the following additional conditions are necessary to comply with a municipal ordinance or bylaw:

North Reading General Wetlands Protection Bylaw _____ Ch 196
 1. Municipal Ordinance or Bylaw _____ 2. Citation _____

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

The special conditions relating to municipal ordinance or bylaw are as follows (if you need more space for additional conditions, attach a text document):



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E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

4/23/24

1. Date of Issuance

Please indicate the number of members who will sign this form.

3

This Order must be signed by a majority of the Conservation Commission.

2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

Signatures:

[Signature]
Melissa A. Campbell
[Signature]

by hand delivery on

4/23/24
 Date

by certified mail, return receipt requested, on

4/24
 Date

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request of Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.



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G. Recording Information

Prior to commencement of work, this Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

North Reading
 Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

North Reading
 Conservation Commission

Please be advised that the Order of Conditions for the Project at:

Park Street over Martins Brook
 Project Location

245-1762
 MassDEP File Number

Has been recorded at the Registry of Deeds of:

 County

 Book

 Page

for: Property Owner

and has been noted in the chain of title of the affected property in:

 Book

 Page

In accordance with the Order of Conditions issued on:

 Date

If recorded land, the instrument number identifying this transaction is:

 Instrument Number

If registered land, the document number identifying this transaction is:

 Document Number

 Signature of Applicant

SPECIAL CONDITIONS PER THE NORTH READING WETLAND BYLAW

20. No work shall commence until the North Reading Conservation Commission has received a copy of the RECORDED ORDER OF CONDITIONS bearing the registry's recording information on the Order. The recording of the Order of Conditions places a lien on the property to assure that the work is properly completed. The Conservation Agent shall not sign off on any building permits without proof of recording at the Registry of Deeds.

21. The applicant shall notify the North Reading Conservation Commission, in writing, forty-eight (48) hours before any activity commences on the project site. A pre-construction meeting must be scheduled to review the installation of erosion controls and discuss the sequence of construction. This meeting must be attended by the contractor, the applicant and a representative of the Conservation Commission

22. No work shall commence until all erosion controls and mitigation measures are in place as shown on the approved plan.

23. The erosion control line shown on the approved plan shall define the limit of work. No work shall occur beyond that limit.

24. This Order applies only to those resource areas approved to be altered or areas where work is approved within 200 feet of a perennial river or 100 feet of other resource areas as shown on the approved plans. No other work in or within 200 feet of a perennial river or 100 feet of any other resource area is permitted.

25. No side slopes, created through the work sanctioned in this permit, shall be steeper than two (2) feet horizontal to one (1) foot vertical unless specifically approved by the Commission.

26. Any departures from or revisions to the approved plans shall be submitted to the North Reading Conservation Commission prior to implementation for a determination of its impact. The North Reading Conservation Commission reserves the right to impose additional conditions in order to protect the interests of the Wetlands Protection Act. Failure to comply with the approved plans may result in the issuance of daily fines, as allowed by the North Reading General Wetlands Protection Bylaw, or revoking of the permit.

27. No logs, stumps, boulders or foreign materials (including bituminous concrete) shall be buried in or within 100 feet of any resource area.

28. No stockpiles of material shall be stored in or within 100 feet of any resource area unless otherwise approved by the Commission.

29. Re-fueling of equipment is not allowed within 100 feet of a protectable wetland resource area. Storage or maintenance of machinery shall not be permitted in or within 100 feet of any resource area.

30. All disturbed or exposed soil surfaces shall be temporarily stabilized with hay, straw, mulch, jute mesh or any other protective covering and/or method approved by the U.S. Department of Agriculture Soil Conservation Service until they can be permanently stabilized as shown on the approved plans or as indicated elsewhere in this Order.

31. The developer or contractor responsible for the project's completion shall be notified of, and understand the requirements of this Order. A copy of the approved plans and this Order shall be on site while activities regulated by this Order are being performed.

32. No discharge or spillage of fuel, oil, or other pollutants into any area subject to protection under the Act shall result from this project. If during any phase of site preparation, construction, or cleanup, there occurs a spill or discharge of fuel, oil, or other pollutant, the North Reading Conservation Commission and the North Reading Fire Department (the town hazardous waste coordinator) shall be notified immediately by the applicant.

33. No de-icing chemicals or salts shall be used where runoff/drainage will be discharged into wetlands. This condition shall remain in perpetuity and shall be recorded as such on the Certificate of Compliance.

34. The North Reading Conservation Commission reserves the right to post permanent signage along the wetland line, at appropriate intervals, alerting passerby's to the existence of protected wetland resource areas.

35. **Upon completion of the project, the applicant or owner shall request a CERTIFICATE OF COMPLIANCE.** The Request for Certificate of compliance form must be submitted with an As-built plan and letter from a registered Professional Engineer or Registered Surveyor. The letter must state that all work has been completed in accordance with this Order and the approved plans or outline any deviations. No Certificate of Compliance will be issued until all disturbed areas have been properly and permanently stabilized. Recording of the Certificate of Compliance will remove the lien on the property.

36. **An "As-Built" plan, prepared by a Registered Professional Engineer or Registered Surveyor, preferably the design engineer if the approved plan was designed by such, shall be submitted to the North Reading Conservation Commission with the Request for a Certificate of Compliance.** The As-Built plan shall detail any structures, walls, driveways, subsurface sewage disposal systems, landscaping features or other activities constructed within the jurisdiction of the Order. Distances from the activity to the wetland boundary shall be shown on the plan. Finish grades shall be specified on the As-Built. If the approved plan was not designed by a RPE, then an As-built shall be prepared the party responsible for the construction of the project. Any deviations from the approved plans must be clearly noted.

37. The applicant is required to provide the Conservation Commission proof of application for a NPDES permit, where greater than one acre of land will be disturbed,

prior to any activity on the site. The Commission is also requiring copies of the NPDES monitoring reports, on a bi-weekly basis, and a copy of the erosion and sedimentation control plan submitted with the NPDES filing. Failure to comply with the NPDES permit will invalidate this Order of Conditions.

38. There shall be no pumping of water from wetland resource areas.

39. Cement trucks shall not be washed out in any wetland resource or buffer zone area, or into any drainage system. Any deposit of cement or concrete products into a buffer zone or wetland resource area shall be immediately removed.

40. Pesticides, herbicides, fungicides, and fertilizers **shall not be used** within 100 feet of the wetlands, within the riverfront area, or within bordering land subject to flooding. Organic pesticides, herbicides, fungicides and fertilizers may be used subject to the review and approval of the Conservation Commission. This shall be noted in the Certificate of Compliance and shall be an ongoing condition.

41. Only slow-release organic granular type fertilizers shall be used within the wetland buffer zone. This condition shall survive the expiration of this Order, and shall be included as a continuing condition in perpetuity on the Certificate of Compliance.

42. Dumping Prohibited: There shall be no dumping of leaves, grass clippings, brush, or other debris into the wetland or stream/body of water. This condition shall survive the expiration of this Order, and shall be included as a continuing condition in perpetuity on the Certificate of Compliance.

43. Additional Alteration Prohibited: There shall be no additional alterations of areas under Conservation Commission jurisdiction without the required review and permit(s). This condition shall survive the expiration of this Order, and shall be included as a continuing condition in perpetuity on the Certificate of Compliance.

44. The 12' No Disturb Zone shall be clearly marked. Permanent posts bearing the sign "Protected Wetland Area -Alteration Prohibited per order of the North Reading Conservation Commission" shall be installed every 40', unless otherwise specified, along the 12' No Disturb Zone.

45. There shall be no discharge of pool water into the wetland resource areas, if applicable.

46. Erosion control shall consist of silt fence **and** straw wattles, silt sock or hay bales, unless otherwise approved by the Conservation Commission. Silt fence shall be installed properly with the bottom edge being buried in the ground. Wattles, sock or hay bales shall be placed on the upland side of the silt fence.

47. Plantings of native trees and shrubs to replace trees being removed to be determined pre-construction.

17. PROJECT PLANS (BY CHECKING THE BOXES BELOW, YOU CERTIFY THESE ITEMS ARE COMPLETE) (see instructions)

- a. Plans shall at least contain the following: Vicinity Map, Plan View, and Typical Cross Section View of the proposed activity.
- b. All direct, indirect and secondary impacts from USACE regulated activities are shown on the project plans. N/A
- c. The size of the impact area for each activity (acre, square feet, linear feet) are shown on the project plans. N/A
- d. For discharges of fill material (§404), the volume of fill material is identified on the project plans. N/A
- e. The duration of each impact, permanent or temporary (X days), is identified on the project plans. N/A
- f. Do activities with permanent impacts result in the loss of waters? If so, this is identified on the project plans. N/A
- g. All aquatic resources in the vicinity of the USACE regulated activities are delineated on the project plans. N/A

18. AVOIDANCE & MINIMIZATION (BY CHECKING THE BOXES BELOW, YOU CERTIFY THESE CRITERIA ARE MET) (see instructions)

- a. The project has been designed to avoid and minimize impacts to aquatic resources.
- b. The footprint of activities in waters of the U.S. has been reduced to only what is necessary to achieve the overall project purpose.
- c. All practicable measures have been taken to avoid and minimize impacts to aquatic resources through construction techniques and site access (e.g., Best Management Practices, Time of Year Restrictions).
- d. All temporary impacts from USACE regulated activities will be restored upon completion of construction and the project area will be returned to pre-construction contours and conditions.

COMPLIANCE WITH FEDERAL REGULATIONS & SUPPLEMENTAL INFORMATION

19. DUE DILIGENCE (see instructions)

Complete the entries below to document compliance with the following Federal requirements. Construction may NOT begin if a PCN is/may be required, and you must contact USACE to determine permitting requirements. Documentation that demonstrates how the activity complies with each field below shall be submitted to the USACE as noted in the instructions block. See each General Condition (GC) in the GP for how to comply with each requirement.

- a. State Historic Preservation Officer Per Appendix A, the activity has no potential to affect historic properties.
- b. Massachusetts BUAR Per Appendix A, BUAR was notified and they did not respond with concerns within 30 days.
- c. Tribal Historic Preservation Officers The Tribe(s) were notified and they didn't respond with concerns within 30 days.
- d. Endangered Species Act - NOAA The activity is not located within the ESA-listed Species Range.
- e. Endangered Species Act - USFWS The activity is not located within the ESA-listed Species Range.
- f. Northern Long Eared Bat (ESA) The activity is not located within the NLEB Species Range.
- g. Essential Fish Habitat The project footprint does not contain EFH (see EFH definition in the MA GP).
- h. Wild & Scenic Rivers There are no WSR's within 0.25 miles of the project area.
- i. 401 Water Quality Certification 401 The activity qualifies under the general 401 WQC for the 2023 MA GPs.
401 WQC/OOC File Number: OOC issued: 401 issued:
- j. Section 408 Permission Not Required per GC 15a-f, no Federal Projects are within the project vicinity.
- k. Coastal Zone The project is not located within the coastal zone.
- l. Construction Mats N/A, the activity does not require the installation of construction mats.
- m. Time of Year Restrictions N/A, the project is not located in a waterbody that has TOY restrictions.
- n. Vernal Pools Per GC 28, the project is not located in a vernal pool.
- o. Sediment & Erosion Controls Per GC 25, the activity uses BMPs to avoid/minimize sedimentation & erosion.
- p. Stream/Wetland Crossings The activity complies with all applicable terms in GC 31.

20. AQUACULTURE ACTIVITIES - GP 18 (see instructions)

- a. If required, an Aquaculture Certification from the Massachusetts Division of Marine Fisheries was obtained prior to commencing work. Not Required
- b. Coordination with the U.S. Coast Guard pursuant to Private Aids to Navigation has occurred prior to commencing work. Not Required
- c. If required, a MEPA Certificate was obtained from the Massachusetts Environmental Protection Agency prior to commencing work. Not Required
- d. The prospective permittee contacted local authorities (e.g. harbormaster, select board, shellfish constable) for authorization of their facility prior to commencing work.

21. ADDITIONAL INFORMATION/ATTACHMENTS (see instructions)



- a. The project plans are enclosed in this SVN submittal (see block 17).
- b. The activity IS NOT funded through the Bipartisan Infrastructure Bill (also known as the Infrastructure Investment and Jobs Act).
- c. All required state, local and federal approvals were acquired prior to starting construction in USACE jurisdiction.
- d. After construction of the activity is completed, a complete Certificate of Compliance will be submitted to USACE.

22. IS THERE ANOTHER LEAD FEDERAL AGENCY:

- YES NO

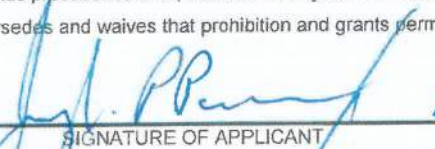
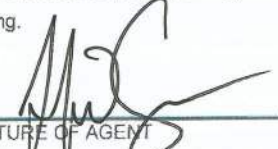
23. STATEMENT OF AUTHORIZATION (see instructions)

I certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

 
SIGNATURE OF APPLICANT DATE SIGNATURE OF AGENT DATE

24. SIGNATURES (see instructions)

I hereby certify that the information in this Self-Verification Notification is complete and accurate. As the applicant or their duly authorized agent, I certify the activity was completed in accordance with the terms and conditions of the GP. This includes all applicable terms, general conditions, and activity-specific GP criteria. I agree to allow the duly authorized representatives of the Corps of Engineers Regulatory Program and other regulatory or advisory agencies to enter upon the premises of the project site at reasonable times to evaluate inspect and photograph site conditions. This consent to enter the property is superior to, takes precedence over, and waives any communication to the contrary. For example, if the property is posted as "no trespassing" this consent specifically supersedes and waives that prohibition and grants permission to enter the property despite such posting.

 
SIGNATURE OF APPLICANT DATE SIGNATURE OF AGENT DATE

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

**Instructions for Preparing a
Department of the Army
General Permit (GP) Self-Verification**

Blocks 1 through 3. To be completed by the Corps of Engineers.

Block 4. Applicant' Name. Enter the name and the e-mail address of the responsible party or parties. If the responsible party is an agency, company, corporation, or other organization, indicate the name of the organization and responsible officer and title. If more than one party is associated with the self-verification, please attach a sheet of paper with the necessary information marked Block 4.

Block 5. Address of Applicant. Please provide the full address of the party or parties responsible for the self-verification. If more space is needed, attach an extra sheet of paper marked Block 5.

Block 6. Applicant Telephone Number(s). Please provide the telephone number where you can usually be reached during normal business hours.

Blocks 7 through 9. To be completed, if you choose to have an agent.

Block 7. Authorized Agent's Name and Title. Indicate name of individual or agency, designated by you, to represent you in this process. An agent can be an attorney, builder, contractor, engineer, consultant, or any other person or organization. Note: An agent is not required.

Blocks 8 and 9. Agent's Address and Telephone Number. Please provide the complete mailing address of the agent, along with the telephone number where they can be reached during normal business hours.

Block 10. Proposed General Permit Activity Name or Title. Please provide a name identifying the proposed GP activity, e.g., Windward Marina, Rolling Hills Subdivision, or Smith Commercial Center.

Block 11. File Number(s) of Previous USACE Actions on the Site Please provide any known USACE file number. If the activity does not have a known USACE file number, you may state N/A.

Block 12. Name of Waterbody. Please provide the name (if it has a name) of any stream, lake, marsh, or other waterway to be directly impacted by the GP activity. If it is a minor (no name) stream, identify the waterbody the minor stream enters.

Block 13. Proposed Activity Coordinates. Please enter the latitude and longitude of where the proposed GP activity is located. Indicate whether the project location provided is the center of the project or whether the project location is provided as the latitude and longitude for each of the "corners" of the project area. If there are multiple sites, please list the latitude and longitude of each site (center or corners) on a separate sheet of paper and mark as Block 13.

Block 14. Proposed Activity Street Address. If the proposed activity is located at a site having a street address (not a box number), enter it in Block 14.

Block 15. General Permit Activity Type. Please select all GP activity types that apply to the proposed activity. A list of GP activity types can be found in Section III of the GP.

Block 16. Summary of Project Impacts. Please provide ALL proposed impacts, both temporary and permanent in duration, that are located in Waters of the United States. The area of impact shall be provided in square feet (SF). When applicable, impacts that result in conversion of stream bank or shoreline must also be identified in linear feet (LF). Dredging or the discharge of dredged or fill material shall also include the volume, cubic yards (CY), of material removed from or placed into Waters of the U.S. If more entries are required, please attach a table matching the desired format in Block 16.

Block 17. Project Plans. Please verify that items a-g are included in the project plans. Three types of illustrations are necessary to properly depict the proposed work. These illustrations or drawings are identified as a Vicinity Map, a Plan View (Aerial view) and a Cross Section Map. For linear projects (e.g. roads, subsurface utility lines, etc.) gradient drawings (longitudinal profile) should also be included. Plans must accurately depict the existing conditions and all aspects of the proposed activity located in waters of the U.S. Please submit one copy of all drawings formatted to print on 8½ x 11 inch or 11 x 17 inch plain white paper. Use the fewest number of sheets necessary for your drawings or illustrations. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view, or cross section). While illustrations need not be certified engineering sheets; they should be clear, accurate, contain all necessary information, and depict all proposed work. Each submission must also include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current wetland delineation manual and regional supplement published by USACE.

Block 18. Avoidance & Minimization. Please verify that items a-d have been implemented for the proposed activity.

Block 19. Due Diligence. Please complete all the fields and submit documentation to USACE to demonstrate compliance with the above requirements. This Documentation may include emails, letters, meeting notes, phone call log, project narrative, project plans, a species list from the NOAA Section 7 Mapper, a completed copy of the IPAC determination keys, etc. Documentation should be limited to what is necessary to demonstrate how the proposed activity meets each requirement. Refer to the MA GP, Appendix A, for specific guidance on the identification of previously identified historic properties and previously unidentified historic properties. Endangered Species: *The applicant must be designated as the non-federal representative for the purposes of Section 7 consultation to select the Rangewide D-Key options. Otherwise, the applicant shall select the following option when IPAC indicates the NLEB is present: "The activity IS located within the NLEB Species Range (PCN Required)."

Block 20. Aquaculture Activities. Please verify that items a-d have been obtained or completed prior to commencing work in waters of the U.S.

Block 21. Additional Information/Attachments. Please verify that items a-d have been completed prior to commencing work in waters of the U.S.

Block 22. Lead Federal Agency. Please identify if there is another lead federal agency involved with the proposed activity. Enter the lead federal agency name (e.g., the Federal Emergency Management Agency, FEMA) and the agency's designated person of contact for the activity.

Block 23. Statement of Authorization. The applicant shall sign this section for all activities. If an agent is to be employed, the agent shall sign this section.

Block 24. Signatures. The SVN must be signed by the person proposing to undertake the GP activity, and if applicable, the authorized party (agent) that prepared the SVN. The signature of the person proposing to undertake the GP activity shall be an affirmation that the party submitting the SVN possesses the requisite property rights to undertake the GP activity.

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A
MASSACHUSETTS HISTORICAL COMMISSION
220 MORRISSEY BOULEVARD
BOSTON, MASS. 02125
617-727-8470, FAX: 617-727-5128

PROJECT NOTIFICATION FORM

Project Name: Park Street over Martins Brook Superstructure Replacement

Location / Address: Park Street over Martins Brook

City / Town: North Reading, MA

Project Proponent

Name: Joseph Parisi, Town of North Reading DPW

Address: 235 North Street

City/Town/Zip/Telephone: North Reading, MA 01864

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name

Type of License or funding (specify)

TBD

TBD

Project Description (narrative):

The project proposes to replace the existing bridge superstructure with concrete deck beams, a concrete deck, concrete approach slabs, concrete abutment caps, new bridge rail, and new approach guardrail.

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

The existing bridge superstructure will be demolished.

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

N/A

Does the project include new construction? If so, describe (attach plans and elevations if necessary).

The project proposes to replace the existing bridge superstructure with a new superstructure. The proposed conditions will closely match the existing conditions.

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify.

What is the total acreage of the project area?

Woodland	<u>0</u>	acres	Productive Resources:		
Wetland	<u>0</u>	acres	Agriculture	<u>0</u>	acres
Floodplain	<u>0.05</u>	acres	Forestry	<u>0</u>	acres
Open space	<u>0</u>	acres	Mining/Extraction	<u>0</u>	acres
Developed	<u>0.1</u>	acres	Total Project Acreage	<u>0.1</u>	acres

What is the acreage of the proposed new construction? 0.1 acres

What is the present land use of the project area?

The present land use is for a bridge. The proposed conditions will closely match existing conditions.

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location.

This Project Notification Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form: Emily Clickner Date: 03/11/2024

Name: Emily Clickner, TEC, Inc.

Address: 282 Merrimack Street

City/Town/Zip: Lawrence, MA 01843

Telephone: (978) 794-1792

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.

Park Street - USGS Topo



Town of North Reading
Park Street Bridge over Martins Brook – Superstructure Replacement
(N-18-002) (7YC)

PROJECT PLANS WERE PROVIDED AS A PART OF THIS SUBMISSION.

PLEASE SEE APPENDIX B FOR PLANS.



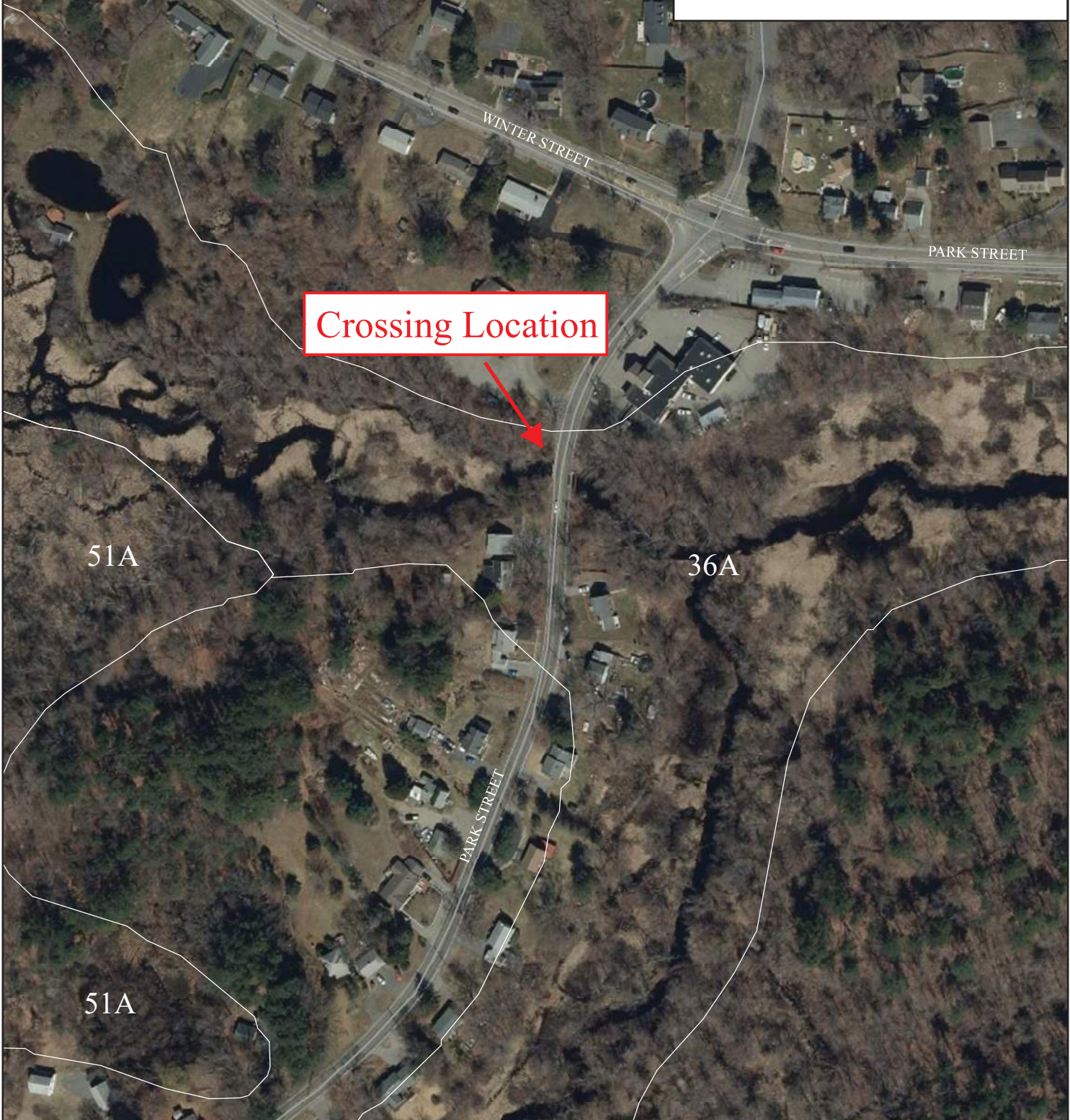
Legend

Soil Type

36A *Saco mucky silt loam, 0 to 1 percent slopes*

51A *Swansea muck, 0 to 1 percent slopes*

— Roads



Date: 2/15/2023

GC Job Number:
246

Wetland Border Report Orthophoto & Soils Map

Park Road Crossing of Martin Brook
North Reading, MA

0 100 200
Feet

1 in = 200 ft

Figure 2

GODDARD CONSULTING
Strategic Wetland Permitting LLC



Massachusetts Board of Underwater Archaeological Resources
100 Cambridge Street
Suite 900
Boston, MA 02114

March 11, 2024

Attn: Massachusetts BUAR

Ref. T1313

Re. Park Street over Martins Brook

To whom it may concern:

The Town of North Reading is proposing a Superstructure Replacement Project at Park Street over Martins Brook. I am reaching out on behalf of the Town to determine if the project is located on or adjacent to previously identified historic properties.

The project proposes to replace the existing superstructure with 9 precast deck beams and a concrete deck. The existing abutment caps will be demolished, and a new reinforced concrete abutment cap will be poured to support the proposed superstructure. The existing abutments and wingwalls will remain in place, maintaining the existing bridge span. New CT-TL2 bridge rail will be installed, along with new approach guardrail. The project also includes a resurfaced roadway and new pavement markings. Generally, the proposed roadway features and dimensions will closely match existing conditions.

Please see attached Project Notification Form, locus map, plans, and soil maps for further project information.

Please do not hesitate to contact me directly if you have any questions concerning our XXXX at 978-794-1792. Thank you for your consideration.

Sincerely,

Emily Clickner, EIT
Structural Engineer

TEC, Inc.
"The Engineering Corporation"

Attachment Project Notification Form
 Locus Map
 Construction Plans
 Soil Maps

Emily Clickner

From: Mail Delivery System <MAILER-DAEMON@dispatch1-us1.ppe-hosted.com>
To: david.s.robinson@mass.gov
Sent: Tuesday, March 19, 2024 10:34 AM
Subject: Relayed: Park Street Superstructure Replacement

This is the mail system at host dispatch1-us1.ppe-hosted.com.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<david.s.robinson@mass.gov>: delivery via
mxh-0018e801.gslb.pphosted.com[205.220.180.9]:25: 250 2.0.0 3www4567u8-1



[Message Headers](#)

Message accepted for delivery



David Weeden
Tribal Historic Preservation Officer (THPO)
Mashpee Wampanoag Tribe
483 Great Neck Road
South Mashpee, MA 02649

March 11, 2024

Attn: Mr. Weeden

Ref. T1313

Re. Park Street over Martins Brook

Dear Mr. Weeden:

The Town of North Reading is proposing a Superstructure Replacement Project at Park Street over Martins Brook. I am reaching out on behalf of the Town to determine if the project is located on or adjacent to any cultural resources.

The project proposes to replace the existing superstructure with 9 precast deck beams and a concrete deck. The existing abutment caps will be demolished, and a new reinforced concrete abutment cap will be poured to support the proposed superstructure. The existing abutments and wingwalls will remain in place, maintaining the existing bridge span. New CT-TL2 bridge rail will be installed, along with new approach guardrail. The project also includes a resurfaced roadway and new pavement markings. Generally, the proposed roadway features and dimensions will closely match existing conditions.

Please see attached Project Notification Form, locus map, plans, and soil maps for further project information.

Please do not hesitate to contact me directly if you have any questions concerning our project at 978-794-1792. Thank you for your consideration.

Sincerely,

Emily Clickner, EIT
Structural Engineer

TEC, Inc.
"The Engineering Corporation"

Attachment Project Notification Form
 Locus Map
 Construction Plans
 Soil Maps

Emily Clickner

From: Mail Delivery System <MAILER-DAEMON@dispatch1-us1.ppe-hosted.com>
To: 106review@mwtribe-nsn.gov; David.weeden@mwtribe-nsn.gov
Sent: Monday, March 11, 2024 5:44 PM
Subject: Relayed: Park Street Superstructure Replacement

This is the mail system at host dispatch1-us1.ppe-hosted.com.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<106review@mwtribe-nsn.gov>: delivery via
d158558a.ess.barracudanetworks.com[209.222.82.252]:25: 250 OK
(106review@mwtribe-nsn.gov:250 Ok: queued as
02C54B8002A,david.weeden@mwtribe-nsn.gov:250 Ok: queued as 02C54B8002A)

<David.weeden@mwtribe-nsn.gov>: delivery via
d158558a.ess.barracudanetworks.com[209.222.82.252]:25: 250 OK
(106review@mwtribe-nsn.gov:250 Ok: queued as



Message Headers

02C54B8002A,david.weeden@mwtribe-nsn.gov:250 Ok: queued as 02C54B8002A)



John Brown
Tribal Historic Preservation Officer
Narragansett Indian Longhouse
4425 South County Trail
Charlestown, RI 02813

March 11, 2024

Attn: John Brown

Ref. T1313

Re. Park Street over Martins Brook

Dear Mr. Brown:

The Town of North Reading is proposing a Superstructure Replacement Project at Park Street over Martins Brook. I am reaching out on behalf of the Town to determine if the project is located on or adjacent to any cultural resources.

The project proposes to replace the existing superstructure with 9 precast deck beams and a concrete deck. The existing abutment caps will be demolished, and a new reinforced concrete abutment cap will be poured to support the proposed superstructure. The existing abutments and wingwalls will remain in place, maintaining the existing bridge span. New CT-TL2 bridge rail will be installed, along with new approach guardrail. The project also includes a resurfaced roadway and new pavement markings. Generally, the proposed roadway features and dimensions will closely match existing conditions.

Please see attached Project Notification Form, locus map, plans, and soil maps for further project information.

Please do not hesitate to contact me directly if you have any questions concerning our project at 978-794-1792. Thank you for your consideration.

Sincerely,

Emily Clickner, EIT
Structural Engineer

TEC, Inc.
"The *Engineering Corporation*"

Attachment Project Notification Form
 Locus Map
 Construction Plans
 Soil Maps

Emily Clickner

From: Mail Delivery System <MAILER-DAEMON@dispatch1-us1.ppe-hosted.com>
To: tashtesook@aol.com
Sent: Monday, March 11, 2024 5:47 PM
Subject: Relayed: Park Street Superstructure Replacement

This is the mail system at host dispatch1-us1.ppe-hosted.com.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<tashtesook@aol.com>: delivery via



Message Headers

mx-aol.mail.gm0.yahoodns.net[67.195.204.80]:25: 250 ok dirdel



Bettina Washington
Wampanoag Tribe of Gay Head
Tribal Historic Preservation Officer
20 Black Brook Road
Aquinnah, MA 02535

March 11, 2024

Attn: Bettina Washington

Ref. T1313

Re. Park Street over Martins Brook

Dear Ms. Washington:

The Town of North Reading is proposing a Superstructure Replacement Project at Park Street over Martins Brook. I am reaching out on behalf of the Town to determine if the project is located on or adjacent to any cultural resources.

The project proposes to replace the existing superstructure with 9 precast deck beams and a concrete deck. The existing abutment caps will be demolished, and a new reinforced concrete abutment cap will be poured to support the proposed superstructure. The existing abutments and wingwalls will remain in place, maintaining the existing bridge span. New CT-TL2 bridge rail will be installed, along with new approach guardrail. The project also includes a resurfaced roadway and new pavement markings. Generally, the proposed roadway features and dimensions will closely match existing conditions.

Please see attached Project Notification Form, locus map, plans, and soil maps for further project information.

Please do not hesitate to contact me directly if you have any questions concerning our project at 978-794-1792. Thank you for your consideration.

Sincerely,

Emily Clickner, EIT
Structural Engineer

TEC, Inc.
"The *Engineering Corporation*"

Attachment Project Notification Form
 Locus Map
 Construction Plans
 Soil Maps

Emily Clickner

From: Mail Delivery System <MAILER-DAEMON@dispatch1-us1.ppe-hosted.com>
To: thpo@wampanoagtribe-nsn.gov
Sent: Tuesday, March 19, 2024 10:35 AM
Subject: Relayed: Park Street Superstructure Replacement

This is the mail system at host dispatch1-us1.ppe-hosted.com.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<thpo@wampanoagtribe-nsn.gov>: delivery via
mail.wampanoagtribe-nsn.gov[50.199.251.177]:25: 250 Requested mail action



Message Headers

okay, completed



Massachusetts Historical Commission
The Massachusetts Archives Building
220 Morrissey Boulevard
Boston, MA 02125

March 11, 2024

Attn: Massachusetts Historical Commission

Ref. T1313

Re. Park Street over Martins Brook

To whom it may concern:

The Town of North Reading is proposing a Superstructure Replacement Project at Park Street over Martins Brook. I am reaching out on behalf of the Town to determine if the project is located on or adjacent to previously identified historic properties.

The project proposes to replace the existing superstructure with 9 precast deck beams and a concrete deck. The existing abutment caps will be demolished, and a new reinforced concrete abutment cap will be poured to support the proposed superstructure. The existing abutments and wingwalls will remain in place, maintaining the existing bridge span. New CT-TL2 bridge rail will be installed, along with new approach guardrail. The project also includes a resurfaced roadway and new pavement markings. Generally, the proposed roadway features and dimensions will closely match existing conditions.

Please see attached Project Notification Form, locus map, plans, and soil maps for further project information.

Please do not hesitate to contact me directly if you have any questions concerning our project at 978-794-1792. Thank you for your consideration.

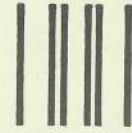
Sincerely,

Emily Clickner, EIT
Structural Engineer

TEC, Inc.
"The *Engineering Corporation*"

Attachment Project Notification Form
 Locus Map
 Construction Plans
 Soil Maps

USPS TRACKING#



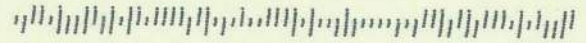
First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

9590 9402 5285 9154 8448 52

**United States
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

TEC, Inc.
282 Merrimack Street
2nd Floor
Lawrence, MA 01843



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Massachusetts Historical Commission
Massachusetts Archives Building
220 Morrissey Boulevard
Boston, MA 02125



9590 9402 5285 9154 8448 52

2. Article Number (Transfer from service label)

7018 1830 0001 8658 4439

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

[Handwritten Signature]

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

RECEIVED

MAR 14 2024

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH MASS. HIST. COMM

RC.43777

APPENDIX A
MASSACHUSETTS HISTORICAL COMMISSION
220 MORRISSEY BOULEVARD
BOSTON, MASS. 02125
617-727-8470, FAX: 617-727-5128

PROJECT NOTIFICATION FORM

Project Name: Park Street over Martins Brook Superstructure Replacement

Location / Address: Park Street over Martins Brook

City / Town: North Reading, MA

Project Proponent

Name: Joseph Parisi, Town of North Reading DPW

Address: 235 North Street

City/Town/Zip/Telephone: North Reading, MA 01864

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

After review of MHC files and the materials you submitted, it has been determined that this project is unlikely to affect significant historic or archaeological resources.

Brona Simon 4/9/24

Brona Simon Date
Executive Director
State Historic Preservation Officer
Massachusetts Historical Commission

Agency Name

TBD

Type of License or funding (specify)

TBD

Project Description (narrative):

The project proposes to replace the existing bridge superstructure with concrete deck beams, a concrete deck, concrete approach slabs, concrete abutment caps, new bridge rail, and new approach guardrail.

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

The existing bridge superstructure will be demolished.

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

N/A

Does the project include new construction? If so, describe (attach plans and elevations if necessary).

The project proposes to replace the existing bridge superstructure with a new superstructure. The proposed conditions will closely match the existing conditions.

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify.

What is the total acreage of the project area?

Woodland 0 acres
Wetland 0 acres
Floodplain 0.05 acres
Open space 0 acres
Developed 0.1 acres

Productive Resources:
Agriculture 0 acres
Forestry 0 acres
Mining/Extraction 0 acres
Total Project Acreage 0.1 acres

What is the acreage of the proposed new construction? 0.1 acres

What is the present land use of the project area?

The present land use is for a bridge. The proposed conditions will closely match existing conditions.

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location.

This Project Notification Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form: Emily Clickner Date: 03/11/2024

Name: Emily Clickner, TEC, Inc.

Address: 282 Merrimack Street

City/Town/Zip: Lawrence, MA 01843

Telephone: (978) 794-1792

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.