



**STANDARD DREDGE AND FILL
WETLANDS PERMIT APPLICATION**
Water Division/Land Resources Management
Wetlands Bureau
[Check the Status of your Application](#)



RSA/Rule: RSA 482-A/Env-Wt 100-900

APPLICANT'S NAME: NH Department of Transportation **TOWN NAME:** Franconia

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.:
			Check No.:
			Amount:
			Initials:

A person may request a waiver of the requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interest of the public or the environment but is still in compliance with RSA 482-A. A person may also request a waiver of the standards for existing dwellings over water pursuant to RSA 482-A:26, III(b). For more information, please consult the [Waiver Request Form](#).

SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))	
Please use the Wetland Permit Planning Tool (WPPT) , the Natural Heritage Bureau (NHB) DataCheck Tool , the Aquatic Restoration Mapper , or other sources to assist in identifying key features such as: priority resource areas (PRAs) , protected species or habitats , coastal areas, designated rivers, or designated prime wetlands.	
Has the required planning been completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the property contain a PRA? If yes, provide the following information:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> • Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04. 	<input type="checkbox"/> Yes <input type="checkbox"/> No
<ul style="list-style-type: none"> • Protected species or habitat? <ul style="list-style-type: none"> ○ If yes, species or habitat name(s): <input style="width: 100px;" type="text"/> ○ NHB Project ID #: <input style="width: 100px;" type="text" value="NHB21-1077"/> 	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Bog?	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Designated prime wetland or duly-established 100-foot buffer?	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the property within a Designated River corridor? If yes, provide the following information:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> • Name of Local River Management Advisory Committee (LAC): <input style="width: 100px;" type="text"/> • A copy of the application was sent to the LAC on Month: <input style="width: 30px;" type="text"/> Day: <input style="width: 30px;" type="text"/> Year: <input style="width: 30px;" type="text"/> 	

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For dredging projects, is the subject property contaminated? • If yes, list contaminant: [REDACTED]	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
For stream crossing projects, provide watershed size (see WPPT or Stream Stats): 3.26 sq. mi.	
SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))	
Provide a brief description of the project and the purpose of the project, outlining the scope of work to be performed and whether impacts are temporary or permanent. DO NOT reply "See attached"; please use the space provided below.	
Proposed bridge repair to 085/104 which carries NH-18 over Beaver Brook. Repair work will include deck replacement, minor widening (no increase in footprint), rip rap restacking and replacement as well as repair to toe wall along southern abutment. All impacts will be temporary, and no permanent impacts are proposed.	
SECTION 3 - PROJECT LOCATION	
Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.	
ADDRESS: NH 18 over Beaver Brook	
TOWN/CITY: Franconia	
TAX MAP/BLOCK/LOT/UNIT: NHDOT ROW	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Beaver Brook <input type="checkbox"/> N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places): 44.208054° North -71.724140° West	

SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 311.04(a))		
If the applicant is a trust or a company, then complete with the trust or company information.		
NAME: NH Department of Transportation, Tim Boodey		
MAILING ADDRESS: 7 Hazen Drive; PO Box 483		
TOWN/CITY: Concord	STATE: NH	ZIP CODE: 03302
EMAIL ADDRESS: timothy.m.boodey@dot.nh.gov		
FAX: [REDACTED]	PHONE: 271-3667	
ELECTRONIC COMMUNICATION: By initialing here: TMB, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input checked="" type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.: [REDACTED]		
COMPANY NAME: [REDACTED]		
MAILING ADDRESS: [REDACTED]		
TOWN/CITY: [REDACTED]	STATE: [REDACTED]	ZIP CODE: [REDACTED]
EMAIL ADDRESS: [REDACTED]		
FAX: [REDACTED]	PHONE: [REDACTED]	
ELECTRONIC COMMUNICATION: By initialing here [REDACTED], I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 6 - PROPERTY OWNER INFORMATION (IF DIFFERENT THAN APPLICANT) (Env-Wt 311.04(b))		
If the owner is a trust or a company, then complete with the trust or company information.		
<input type="checkbox"/> Same as applicant		
NAME: NH Department of Transportation, Andrew O'Sullivan		
MAILING ADDRESS: 7 Hazen Drive; PO Box 483		
TOWN/CITY: Concord	STATE: NH	ZIP CODE: 03302
EMAIL ADDRESS: andrew.O'Sullivan@dot.nh.gov		
FAX: 271-7199	PHONE: 271-3226	
ELECTRONIC COMMUNICATION: By initialing here AMO, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3))

Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters):

Env-Wt400: A wetlands delineation was done by NHDOT Wetlands Program, Sarah Large, on 10/23/2019 and determined impacts to a Riverine Upper Perennial Unconsolidated Bottom Cobble/Gravel/Sand (R3UB12) and bank.

Env Wt500: Rip rap restacking and replacement is covered under the stream crossing rules (Env-Wt 904.09) and this material is a component of the existing structure. See Natural Resource Agency meeting minutes on 5/19/21.

Env-Wt600: The project is not located in a coastal or tidal area

Env-Wt700: No Prime wetlands are within the project area

Env-Wt900: Work is under Env-Wt 904.09 for repair/rehabilitation of of an existing Tier 3 structure.

SECTION 8 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)).* Any project with unavoidable jurisdictional impacts must then be minimized as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization](#) and the [Wetlands Permitting: Avoidance, Minimization and Mitigation Fact Sheet](#). For minor or major projects, a functional assessment of all wetlands on the project site is required (Env-Wt 311.03(b)(10)).*

Please refer to the application checklist to ensure you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). Use the [Avoidance and Minimization Checklist](#), the [Avoidance and Minimization Narrative](#), or your own avoidance and minimization narrative.

**See Env-Wt 311.03(b)(6) and Env-Wt 311.03(b)(10) for shoreline structure exemptions.*

SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)

If unavoidable jurisdictional impacts require mitigation, a mitigation [pre-application meeting](#) must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application.

Mitigation Pre-Application Meeting Date: Month: 5 Day: 19 Year: 2021

N/A - Mitigation is not required

SECTION 10 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c)

Confirm that you have submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent unavoidable impacts that will remain after avoidance and minimization techniques have been exercised to the maximum extent practicable: I confirm submittal.

N/A – Compensatory mitigation is not required

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without a permit).

For intermittent and ephemeral streams, the linear footage of impact is measured along the thread of the channel. *Please note, installation of a stream crossing in an ephemeral stream may be undertaken without a permit per Rule Env-Wt 309.02(d), however other dredge or fill impacts should be included below.*

For perennial streams/ivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.

Permanent impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERMANENT			TEMPORARY		
		SF	LF	ATF	SF	LF	ATF
Wetlands	Forested Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Scrub-shrub Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Emergent Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Wet Meadow			<input type="checkbox"/>			<input type="checkbox"/>
	Vernal Pool			<input type="checkbox"/>			<input type="checkbox"/>
	Designated Prime Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Duly-established 100-foot Prime Wetland Buffer			<input type="checkbox"/>			<input type="checkbox"/>
Surface Water	Intermittent / Ephemeral Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Perennial Stream or River			<input type="checkbox"/>	1142	88	<input type="checkbox"/>
	Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - River			<input type="checkbox"/>			<input type="checkbox"/>
Banks	Bank - Intermittent Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Bank - Perennial Stream / River			<input type="checkbox"/>	393	90	<input type="checkbox"/>
	Bank / Shoreline - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
Tidal	Tidal Waters			<input type="checkbox"/>			<input type="checkbox"/>
	Tidal Marsh			<input type="checkbox"/>			<input type="checkbox"/>
	Sand Dune			<input type="checkbox"/>			<input type="checkbox"/>
	Undeveloped Tidal Buffer Zone (TBZ)			<input type="checkbox"/>			<input type="checkbox"/>
	Previously-developed TBZ			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL					1535	178	

SECTION 12 - APPLICATION FEE (RSA 482-A:3, I)

MINIMUM IMPACT FEE: Flat fee of \$400.

NON-ENFORCEMENT RELATED, PUBLICLY-FUNDED AND SUPERVISED RESTORATION PROJECTS, REGARDLESS OF IMPACT CLASSIFICATION: Flat fee of \$400 (refer to RSA 482-A:3, 1(c) for restrictions).

MINOR OR MAJOR IMPACT FEE: Calculate using the table below:

Permanent and temporary (non-docking): 1535 SF × \$0.40 = \$ 614

Seasonal docking structure: SF × \$2.00 = \$

Permanent docking structure: SF × \$4.00 = \$

Projects proposing shoreline structures (including docks) add \$400 = \$

Total = \$

The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 614

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SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05)

Indicate the project classification.

Minimum Impact Project

Minor Project

Major Project

SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)

Initial each box below to certify:

Initials: [] [] []	To the best of the signer's knowledge and belief, all required notifications have been provided.
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Initials: [] [] []	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
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Initials: [] [] []	<p>The signer understands that:</p> <ul style="list-style-type: none"> • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: <ol style="list-style-type: none"> 1. Deny the application. 2. Revoke any approval that is granted based on the information. 3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. • The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. • The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.
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Initials: [] [] []	If the applicant is not the owner of the property, each property owner signature shall constitute certification by the signer that he or she is aware of the application being filed and does not object to the filing.
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SECTION 15 - REQUIRED SIGNATURES (Env-Wt 311.04(d); Env-Wt 311.11)

SIGNATURE (OWNER): []	PRINT NAME LEGIBLY: []	DATE: []
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER): []	PRINT NAME LEGIBLY: []	DATE: []
SIGNATURE (AGENT, IF APPLICABLE): []	PRINT NAME LEGIBLY: []	DATE: []

SECTION 16 - TOWN / CITY CLERK SIGNATURE (Env-Wt 311.04(f))

As required by RSA 482-A:3, I(a)(1), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

TOWN/CITY CLERK SIGNATURE: []	PRINT NAME LEGIBLY: Exempt, State Agency per RSA 482-A:31(a)(1)
TOWN/CITY: []	DATE: []

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3, I(a)(1)

1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
2. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
3. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board.
4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

Submit the original permit application form bearing the signature of the Town/City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery at the address at the bottom of this page. Make check or money order payable to "Treasurer – State of NH".

Keep this checklist for your reference; do not submit with your application.

APPLICATION CHECKLIST

Unless specified, all items below are required. Failure to provide the required items will delay a decision on your project and may result in denial of your application. Please reference statute RSA 482-A, Fill and Dredge in Wetlands, and the [Wetland Rules Env-Wt 100-900](#).

- The completed, dated, signed, and certified application (Env-Wt 311.03(b)(1)).
- Correct fee as determined in RSA 482-A:3, I(b) or (c), subject to any cap established by RSA 482-A:3, X (Env-Wt 311.03(b)(2)). Make check or money order payable to "Treasurer – State of NH".
- The Required Planning actions required by Env-Wt 311.01(a)-(c) and Env-Wt 311.03(b)(3).
- [US Army Corps of Engineers \(ACE\) "Appendix B, New Hampshire General Permits \(GPs\), Required Information and Corps Secondary Impacts Checklist"](#) and its required attachments (Env-Wt 307.02). This includes the [US Fish and Wildlife Service IPAC review](#) and [Section 106 Historic/Archaeological Resource review](#).
- Project plans described in Env-Wt 311.05 (Env-Wt 311.03(b)(4)).
- Maps, or electronic shape files and meta data, and other attachments specified in Env-Wt 311.06 (Env-Wt 311.03(b)(5)).
- Explanation of the methods, timing, and manner as to how the project will meet standard permit conditions required in Env-Wt 307 (Env-Wt 311.03(b)(7)).
- If applicable, the information regarding proposed compensatory mitigation specified in Env-Wt 311.08 and Chapter Env-Wt 800 - [Permittee Responsible Mitigation Project Worksheet](#), unless not required under Env-Wt 313.04 (Env-Wt 311.03(b)(8); Env-Wt 311.08; Env-Wt 313.04).
- Any additional information specific to the **type of resource** as specified in Env-Wt 311.09 (Env-Wt 311.03(b)(9); Env-Wt 311.04(j)).
- Project specific information required by Env-Wt 500, Env-Wt 600, and Env-Wt 900 (Env-Wt 311.03(b)(11)).
- A list containing the name, mailing address and tax map/lot number of each abutter to the subject property (Env-Wt 311.03(b)(12)).
- Copies of certified postal receipts or other proof of receipt of the notices that are required by RSA 482-A:3, I(d) (Env-Wt 311.03(b)(13)).
- Project design considerations required by Env-Wt 313 (Env-Wt 311.04(j)).
- Town tax map showing the subject property, the location of the project on the property, and the location of properties of abutters with each lot labeled with the name and mailing address of the abutter (Env-Wt 311.06(a)).
- Dated and labeled color photographs that:
 - (1) Clearly depict:
 - a. All jurisdictional areas, including but not limited to portions of wetland, shoreline, or surface water where impacts have or are proposed to occur.
 - b. All existing shoreline structures.
 - (2) Are mounted or printed no more than 2 per sheet on 8.5 x 11 inch sheets (Env-Wt 311.06(b)).
- A copy of the appropriate US Geological Survey map or updated data based on LiDAR at a scale of one inch equals 2,000 feet showing the location of the subject property and proposed project (Env-Wt 311.06(c)).
- A narrative that describes the work sequence, including pre-construction through post-construction, and the relative timing and progression of all work (Env-Wt 311.06(d)).

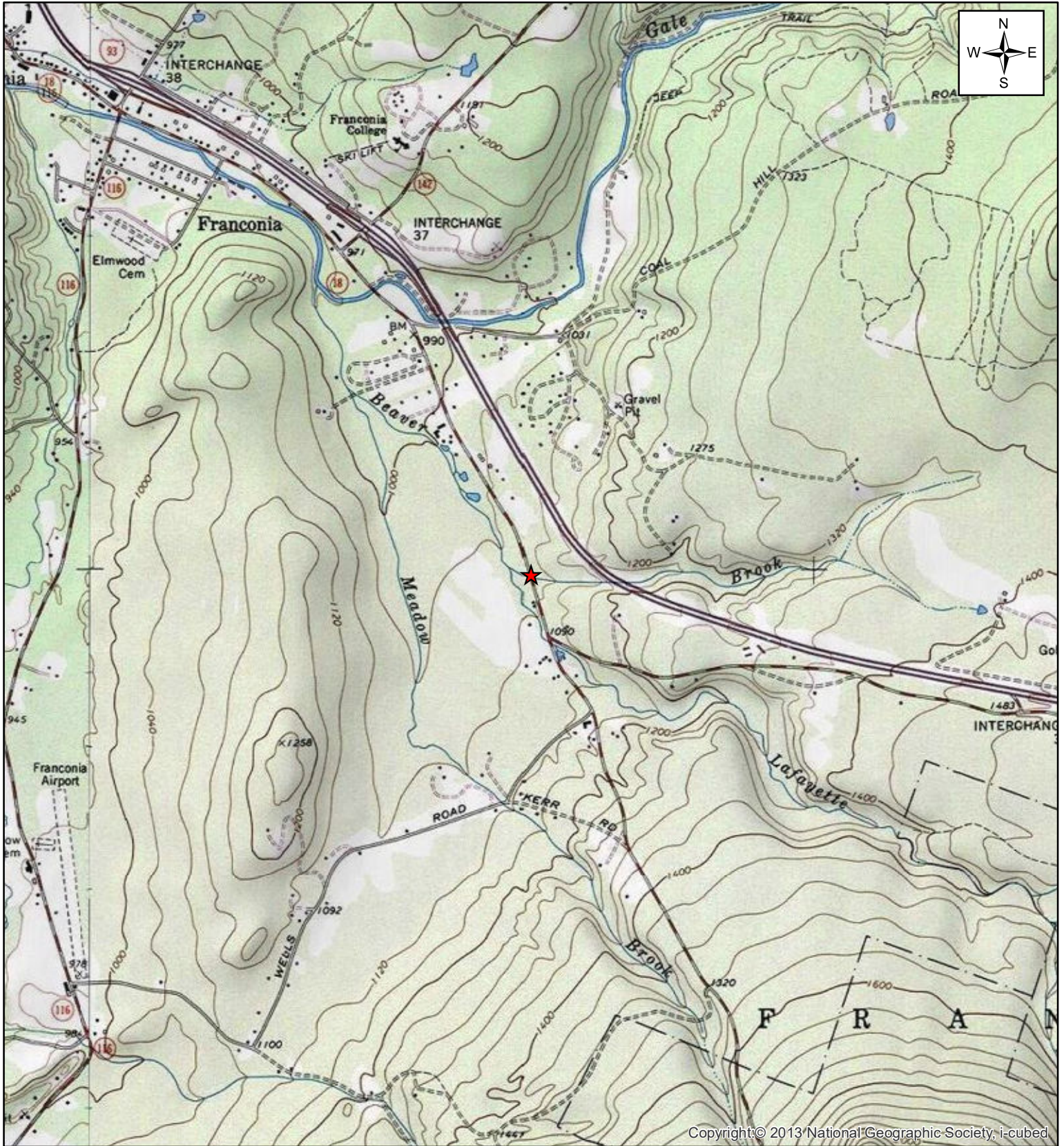
irm@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

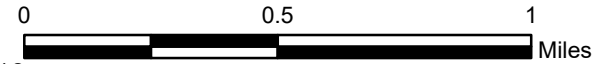
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- For all projects in the protected tidal zone, a copy of the recorded deed with book and page numbers for the property (Env-Wt 311.06(e)).
 - If the applicant is not the owner in fee of the subject property, documentation of the applicant's legal interest in the subject property, provided that for utility projects in a utility corridor, such documentation may comprise a list that:
 - (1) Identifies the county registry of deeds and book and page numbers of all of the easements or other recorded instruments that provide the necessary legal interest; and
 - (2) Has been certified as complete and accurate by a knowledgeable representative of the applicant (Env-Wt 311.06(f)).
 - The NHB memo containing the NHB identification number and results as well as any written follow-up communications such as additional memos or email communications with either NHB or NHF&G (Env-Wt 311.06(g)). See [Wetlands Permitting: Protected Species and Habitat Fact Sheet](#).
 - A statement of whether the applicant has received comments from the local conservation commission and, if so, how the applicant has addressed the comments (Env-Wt 311.06(h)).
 - For projects in LAC jurisdiction, a statement of whether the applicant has received comments from the LAC and, if so, how the applicant has addressed the comments (Env-Wt 311.06(i)).
 - If the applicant is also seeking to be covered by the state general permits, a statement of whether comments have been received from any federal agency and, if so, how the applicant has addressed the comments (Env-Wt 311.06(j)).
 - [Avoidance and Minimization Written Narrative](#) or the [Avoidance and Minimization Checklist](#), or your own avoidance and minimization narrative (Env-Wt 311.07).
 - For after-the-fact applications: information required by Env-Wt 311.12.
 - [Coastal Resource Worksheet](#) for coastal projects as required under Env-Wt 600.
 - Prime Wetlands information required under Env-Wt 700. See [WPPT](#) for prime wetland mapping.
- Required Attachments for Minor and Major Projects**
- [Attachment A: Minor and Major Projects](#) (Env-Wt 313.03).
 - [Functional Assessment Worksheet](#) or others means of documenting the results of actions required by Env-Wt 311.10 as part of an application preparation for a standard permit (Env-Wt 311.03(b)(3); Env-Wt 311.03(b)(10)). See [Functional Assessments for Wetlands and Other Aquatic Resources Fact Sheet](#). For shoreline structures, see shoreline structures exemption in Env-Wt 311.03(b)(10)).
- Optional Materials**
- [Stream Crossing Worksheet](#) which summarizes the requirements for stream crossings under Env-Wt 900.
 - Request for [concurrent processing of related shoreland / wetlands permit applications](#) (Env-Wt 313.05).

Franconia, Project #42835



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Legend

★ Project Location, 42835

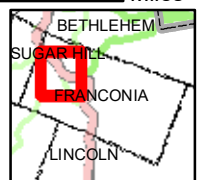
Map depicting bridge 085/104 which carries NH 18 over Black (aka Beaver) Brook in Franconia.

Map created by: Arin Mills on 10/25/2019

Source: S:\Environment\PROJECTS\FRANCONIA\42835

1:24,000

New Hampshire
DOT
Department of Transportation





STANDARD DREDGE AND FILL
WETLANDS PERMIT APPLICATION
ATTACHMENT A: MINOR AND MAJOR PROJECTS



Water Division/Land Resources Management
Wetlands Bureau

[Check the Status of your Application](#)

RSA/ Rule: RSA 482-A/ Env-Wt 311.10; Env-Wt 313.01(a)(1); Env-Wt 313.03

APPLICANT'S NAME: NH Department of Transportation **TOWN NAME:** Franconia

Attachment A is required for *all minor and major projects*, and must be completed *in addition* to the [Avoidance and Minimization Narrative](#) or [Checklist](#) that is required by Env-Wt 307.11.

For projects involving construction or modification of non-tidal shoreline structures over areas of surface waters having an absence of wetland vegetation, only Sections I.X through I.XV are required to be completed.

PART I: AVOIDANCE AND MINIMIZATION

In accordance with Env-Wt 313.03(a), the Department shall not approve any alteration of any jurisdictional area unless the applicant demonstrates that the potential impacts to jurisdictional areas have been avoided to the maximum extent practicable and that any unavoidable impacts have been minimized, as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization](#).

SECTION I.I - ALTERNATIVES (Env-Wt 313.03(b)(1))

Describe how there is no practicable alternative that would have a less adverse impact on the area and environments under the Department's jurisdiction.

NO WORK: NO WORK ALTERNATIVE WOULD LEAD TO CONTINUED DETERIORATION OVER TIME, AND POTENTIALLY MAKING THE BRIDGE UNSAFE FOR THE TRAVELING PUBLIC. THE PROPOSED WORK IS MAINTENANCE TO KEEP THE EXISTING STRUCTURE IN SERVICE.

REPLACEMENT OF CROSSING: IT WAS DETERMINED THE EXISTING STRUCTURE COULD BE REPAIRED TO EXTEND THE USE AND LIFE CYCLE OF THE EXISTING CROSSING, AND THAT REPLACEMENT WAS NOT NECESSARY. THIS ALTERNATIVE WOULD BE BOTH MORE COSTLY AND LIKELY IMPACT THE SURROUNDING RESOURCES TO A GREATER ENTENT.

REPAIR (PREFERRED): IT WAS DETERMINED THE EXISTING CROSSING COULD BE REPAIRED BY ADRESSING DEFICIENCIES. REPAIR TO THE EXISTING RIP RAP AND TOE WALL WILL KEEP THE BRIDGE IN SERVICE. ALL WORK WILL BE TEMPORARY TO THE STREAM AND BANK.

SECTION I.II - MARSHES (Env-Wt 313.03(b)(2))

Describe how the project avoids and minimizes impacts to tidal marshes and non-tidal marshes where documented to provide sources of nutrients for finfish, crustacean, shellfish, and wildlife of significant value.

NO MARSHES WERE IDENTIFIED DURING THE FIELD INVESTIGATION AND DELINEATION. THEREFORE, NO IMPACTS TO MARSHES ARE PROPOSED, AND IMPACTS TO THE SURROUNDING WETLAND RESOURCES HAVE BEEN AVOIDED AND MINIMIZED IN THE PROPOSED DESIGN

SECTION I.III - HYDROLOGIC CONNECTION (Env-Wt 313.03(b)(3))

Describe how the project maintains hydrologic connections between adjacent wetland or stream systems.

THE EXISTING BRIDGE PROVIDES HYDRAULIC CONNECTION BETWEEN THE UPSTREAM CHANNEL OF BEAVER BROOK TO TO THE DOWNSTREAM CHANNEL. THE PROPOSED RIP RAP REPAIR WILL NOT ALTER THE HYDRAULIC CONNECTION OF THE RIVERINE SYSTEM, AND BEAVER BROOK WILL CONTINUE TO FLOW AS IT DOES TODAY. NO PERMANENT IMPACTS PROPOSED.

SECTION I.IV - JURISDICTIONAL IMPACTS (Env-Wt 313.03(b)(4))

Describe how the project avoids and minimizes impacts to wetlands and other areas of jurisdiction under RSA 482-A, especially those in which there are exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and habitat and reproduction areas for species of concern, or any combination thereof.

THE PROJECT HAS BEEN DESIGNED IN ACCORDANCE WITH ENV-WT 400, 500 AND 900. IMPACTS TO WETLAND RESOURCES HAVE BEEN MINIMIZED TO THE EXTENT PRACTICABLE. IMPACTS TO THE UPPER PERENNIAL RIVERINE SYSTEM ARE LIMITED TO AREAS NEEDED FOR ACCESS TO MAKE THE REPAIR. THERE ARE NO KNOWN EXEMPLARY NATURAL COMMUNITIES, VERNAL POOLS OR PROTECTED SPECIES OR HABITAT KNOWN TO OCCUR IN THE PROJECT AREA. A REVIEW OF THE NATURAL HERITAGE BUREAU DATABASE SERACH (NHB21-1077) DETERMINED THERE ARE NO RECORDED SPECIES IN THE PROJECT AREA. REVIEW OF THE USFWS SPECIES LIST DETERMINED THE NORTHERN LONG-EARED BAT AND CANADA LYNX HAVE POTENTIAL TO OCCUR IN THE PROJECT AREA. FURTHER COODINATION DETERMINED ANY TAKE OF THE NORTHERN LONG-EARED BAT THAT MAY OCCUR IS NOT PROHIBITED UNDER THE 4(D) RULE OF THE ENDANGERED SPECIES ACT. HABITAT FOR THE CANADA LYNX DETERMINED NO SUITABLE HABITAT IN PROJECT AREA, AND THEREFORE 'NO SPECIES PRESENT'.

BEAVER BROOK IS A PREDICTED COLD WATER FISHERY WITH NO DOCUMENTED RARE OR LISTED SPECIES OR REPRODUCTION AREAS ARE KNOWN TO OCCUR IN THE PROJECT AREA. NHDOT IS NOT ANTICIPATING A TIME OF YEAR RESTRICTION AS NO SPECIES UNDER THIS PROTECTION WILL BE IMPACTED. THE USE OF A SANDBAG COFFERDAM LIMITED TO AREA OF TOE WALL REPAIR WILL ALLOW FISH TO CONTINUE TO PASS WHILE WORK IS CONDUCTED.

SECTION I.V - PUBLIC COMMERCE, NAVIGATION, OR RECREATION (Env-Wt 313.03(b)(5))

Describe how the project avoids and minimizes impacts that eliminate, depreciate or obstruct public commerce, navigation, or recreation.

TRAFFIC WILL CONTINUE TO FLOW AS USUAL ON NH 18 WHILE THE WORK IS COMPLETED, WITH ONLY MINOR TRAFFIC DELAYS DURING CONSTRUCTION DUE TO CONSTRUCTION EQUIPMENT ADJACENT TO THE ROADWAY. BEAVER BROOK IS NOT DETERMINED TO BE A NAVIGABLE WATER BY THE US COAST GUARD, AND NO BRIDGE PERMIT IS REQUIRED TO COMPLETE THE WORK. NO OTHER PUBLIC RECREATION FACILITIES ARE KNOWN TO OCCUR AT THE PROJECT LOCATION, AND THEREFORE WILL NOT NEGATIVELY IMPACT THE PUBLIC'S USE OF BEAVER BROOK

SECTION I.VI - FLOODPLAIN WETLANDS (Env-Wt 313.03(b)(6))

Describe how the project avoids and minimizes impacts to floodplain wetlands that provide flood storage.

NO PERMANENT IMPACTS TO FLOODPLAIN WETLANDS ARE ANTICIPATED FOR CONSTRUCTION OF THE PROJECT. WORK IS HOWEVER PROPOSED TO OCCUR WITHIN A MAPPED FEMA 100-YEAR FLOODPLAIN. BASED ON HYDRAULIC CALCULATIONS THE STRUCTURE WILL PASS A 100-YEAR STORM EVENT BOTH BEFORE AND AFTER CONSTRUCTION. THERE IS NO EVIDENCE OF PAST FLOODING AT THIS LOCATION.

SECTION I.VII - RIVERINE FORESTED WETLAND SYSTEMS AND SCRUB-SHRUB – MARSH COMPLEXES (Env-Wt 313.03(b)(7))

Describe how the project avoids and minimizes impacts to natural riverine forested wetland systems and scrub-shrub – marsh complexes of high ecological integrity.

THE PROPOSED ACTION AVOIDS PERMANENT IMPACTS TO SURROUNDING WETLAND RESOURCES ADJACENT TO THE PROJECT AREA. IMPACTS TO THE RIVERINE SYSTEM ARE LIMITED TO AREAS NEEDED TO MAINTAIN THE EXISTING INFRASTRUCTURE IN WORKING ORDER FOR THE TRAVELING PUBLIC. IMPACTS TO RESOURCES HAVE BEEN LIMITED TO THE GREATEST EXTENT PRACTICABLE, AND NO PERMANENT IMPACTS TO SCRUB SHRUB OR FORESTED WETLANDS OF HIGH ECOLOGICAL INTEGRITY ARE PROPOSED.

SECTION I.VIII - DRINKING WATER SUPPLY AND GROUNDWATER AQUIFER LEVELS (Env-Wt 313.03(b)(8))

Describe how the project avoids and minimizes impacts to wetlands that would be detrimental to adjacent drinking water supply and groundwater aquifer levels.

THE PROJECT WILL HAVE NO EFFECT ON WETLANDS THAT WOULD BE DETRIMENTAL TO ADJACENT DRINKING WATER SUPPLY OR GROUNDWATER AQUIFER LEVELS.

SECTION I.IX - STREAM CHANNELS (Env-Wt 313.03(b)(9))

Describe how the project avoids and minimizes adverse impacts to stream channels and the ability of such channels to handle runoff of waters.

THE PROJECT, AS PROPOSED, LIMITS IMPACTS TO THE STREAM CHANNEL TO THE GREATEST EXTENT PRACTICABLE TO MAINTAIN THE EXISTING USE OF THE STRUCTURE. ALL PROPOSED WORK IS TEMPORARY FOR ACCESS. THE STREAM CHANNEL WILL CONTINUE TO HANDLE RUNOFF AS IT DOES TODAY FROM THE SURROUNDING LANDSCAPE

SECTION I.X - SHORELINE STRUCTURES - CONSTRUCTION SURFACE AREA (Env-Wt 313.03(c)(1))

Describe how the project has been designed to use the minimum construction surface area over surface waters necessary to meet the stated purpose of the structures.

THE PROJECT HAS BEEN DESIGNED TO LIMIT IMPACTS TO THE STREAM CHANNEL NECESSARY TO PROTECT THE EXISTING INFRASTRUCTURE. ALL IMPACTS ARE TEMPORARY FOR ACCESS TO COMPLETE THE WORK. THE FOOTPRINT OF THE EXISING BRIDGE OVER SURFACE WATERS WILL NOT CHANGE FROM THE CURRENT FOOTPRINT.

SECTION I.XI - SHORELINE STRUCTURES - LEAST INTRUSIVE UPON PUBLIC TRUST (Env-Wt 313.03(c)(2))

Describe how the type of construction proposed is the least intrusive upon the public trust that will ensure safe docking on the frontage.

THIS PROJECT DOES NOT CONSIST OF CONSTRUCTION OF A SHORELINE STRUCTURE

SECTION I.XII - SHORELINE STRUCTURES – ABUTTING PROPERTIES (Env-Wt 313.03(c)(3))

Describe how the structures have been designed to avoid and minimize impacts on ability of abutting owners to use and enjoy their properties.

ALL WORK WILL BE WITHIN THE EXISTING STATE ROW AND WILL NOT IMPACT THE ABUTTING LANDOWNERS USE OF THEIR PROPERTY.

SECTION I.XIII - SHORELINE STRUCTURES – COMMERCE AND RECREATION (Env-Wt 313.03(c)(4))

Describe how the structures have been designed to avoid and minimize impacts to the public’s right to navigation, passage, and use of the resource for commerce and recreation.

BEAVER BROOK IS NOT A KNOWN NAVIGATABLE WATER PER COMMUNICATION WITH THE US COAST GUARD. NO IMPACT TO PUBLIC NAVIGATION, PASSAGE OR USE IS ANTICIPATED

SECTION I.XIV - SHORELINE STRUCTURES – WATER QUALITY, AQUATIC VEGETATION, WILDLIFE AND FINFISH HABITAT (Env-Wt 313.03(c)(5))

Describe how the structures have been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.

NO SHORELINE STRUCTURES ARE PROPOSED.

SECTION I.XV - SHORELINE STRUCTURES – VEGETATION REMOVAL, ACCESS POINTS, AND SHORELINE STABILITY (Env-Wt 313.03(c)(6))

Describe how the structures have been designed to avoid and minimize the removal of vegetation, the number of access points through wetlands or over the bank, and activities that may have an adverse effect on shoreline stability.

NO SHORELINE STRUCTURES ARE PROPOSED.

PART II: FUNCTIONAL ASSESSMENT
<p>REQUIREMENTS</p> <p>Ensure that project meets the requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).</p>
<p>FUNCTIONAL ASSESSMENT METHOD USED:</p> <p>A STREAM ASSESSMENT WAS CONDUCTED USING THE NH STREAM CROSSING GUIDELINES</p>
<p>NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: MATT URBAN</p>
<p>DATE OF ASSESSMENT: JULY 27, 2021</p>
<p>Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT:</p> <p><input checked="" type="checkbox"/></p>
<p>For minor or major projects requiring a standard permit without mitigation, the applicant shall submit a wetland evaluation report that includes completed checklists and information demonstrating the RELATIVE FUNCTIONS AND VALUES OF EACH WETLAND EVALUATED. Check this box to confirm that the application includes this information, if applicable:</p> <p><input type="checkbox"/></p> <p>Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.</p>



AVOIDANCE AND MINIMIZATION
WRITTEN NARRATIVE
Water Division/Land Resources Management
Wetlands Bureau
[Check the Status of your Application](#)



RSA/ Rule: RSA 482-A/ Env-Wt 311.04(j); Env-Wt 311.07; Env-Wt 313.01(a)(1)b; Env-Wt 313.01(c)

APPLICANT'S NAME: NH Department of Transportation **TOWN NAME:** Franconia

An applicant for a standard permit shall submit with the permit application a written narrative that explains how all impacts to functions and values of all jurisdictional areas have been avoided and minimized to the maximum extent practicable. This attachment can be used to guide the narrative (attach additional pages if needed). Alternatively, the applicant may attach a completed [Avoidance and Minimization Checklist \(NHDES-W-06-050\)](#) to the permit application.

SECTION 1 - WATER ACCESS STRUCTURES (Env-Wt 311.07(b)(1))

Is the primary purpose of the proposed project to construct a water access structure?

No, this is a bridge maintenance project to repair and protect existing infrastructure.

SECTION 2 - BUILDABLE LOT (Env-Wt 311.07(b)(1))

Does the proposed project require access through wetlands to reach a buildable lot or portion thereof?

No, this bridge maintenance project includes rip rap restacking and replacement and repair to existing toe wall.

SECTION 3 - AVAILABLE PROPERTY (Env-Wt 311.07(b)(2))*

For any project that proposes permanent impacts of more than one acre, or that proposes permanent impacts to a PRA, or both, are any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, that could be used to achieve the project's purpose without altering the functions and values of any jurisdictional area, in particular wetlands, streams, and PRAs?

**Except as provided in any project-specific criteria and except for NH Department of Transportation projects that qualify for a categorical exclusion under the National Environmental Policy Act.*

Not applicable. No permanent impacts and no impacts to a PRA.

SECTION 4 - ALTERNATIVES (Env-Wt 311.07(b)(3))

Could alternative designs or techniques, such as different layouts, different construction sequencing, or alternative technologies be used to avoid impacts to jurisdictional areas or their functions and values as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization?](#)

No, impacts cannot be avoided to jurisdictional areas as the project is to repair and protect existing infrastructure. All impacts are temporary to allow for access to conduct the repair.

SECTION 5 - CONFORMANCE WITH Env-Wt 311.10(c) (Env-Wt 311.07(b)(4))**

How does the project conform to Env-Wt 311.10(c)?

***Except for projects solely limited to construction or modification of non-tidal shoreline structures only need to complete relevant sections of Attachment A.*

A functional assessment was not completed for the project as the proposed work is repair to existing infrastructure. The proposed project has a limited footprint to conduct the necessary repair to existing infrastructure. The proposed project will have a limited impact on the wetlands functions, and will continue to provide ecological integrity, fish & aquatic life habitat, flood storage, and nutrient passage.

BUREAU OF ENVIRONMENT CONFERENCE REPORT

SUBJECT: NHDOT Monthly Natural Resource Agency Coordination Meeting

DATE OF CONFERENCE: May 19, 2021

LOCATION OF CONFERENCE: Virtual meeting held via Zoom

ATTENDED BY:

NHDOT

Sarah Large
Andrew O'Sullivan
Matt Urban
Ron Crickard
Mark Hemmerlein
Arin Mills
Tim Boodey
Rebecca Martin
Michael Dugas
Trent Zanes
Jonathan Watton

ACOE

Mike Hicks

EPA

Jeanie Brochi

NHDES

Lori Sommer
Karl Benedict

NH Fish & Game

Carol Henderson

Federal Highway

Jaimie Sikora

National Park Service

Emma Lord
Jim MacCartney

Consultants/ Public Participants

Stephen Haas
Kimberly Peace

PRESENTATIONS/ PROJECTS REVIEWED THIS MONTH: *(minutes on subsequent pages)*

Finalize Meeting Minutes.....	2
Franconia, #42835	2
Rumney, #40569.....	3
Conway, 42522 (X-A004(891))	5

(When viewing these minutes online, click on a project to zoom to the minutes for that project.)

NOTES ON CONFERENCE:**Finalize Meeting Minutes**

Finalized and approved the May 19, 2021 meeting minutes.

Franconia, #42835

Arin Mills, NHDOT Senior Environmental Manager, presented the location of the project as bridge 085/104 which carries NH 18 over Beaver Brook in Franconia. This is a state funded and executed project. Arin mentioned there was previous reference to 'Black Brook' in the bridge database, but the National Hydrography Dataset (NHD) and USGS maps name the stream Beaver Brook. She also mentioned the project was previously presented in March of 2015 under project #40270, and DOT thought it would be best to bring it forward again in light of the rule changes. Beaver Brook flows 1.4 miles from the headwaters to the crossing, after flowing under I-93 further upstream. The Brook further flows 1/10th miles from site to convergence with Lafayette Brook, further 3/4 mile and enters Meadow Brook and further flows ~1/3 miles to convergence with Gale River in Franconia. This is a Tier 3 crossing as delineated by StreamStats (3.25 square mile drainage area) and a 2nd order stream. Old plans show a previous wetland permit from 2001 (2001-01753) for construction of toe walls and installation of rip rap. A map was shown of surrounding rural/residential landscape near the project, and no conservation lands are adjacent. Photos were shown of the upstream/downstream as well and inlet/outlet existing conditions.

Tim Boodey, NHDOT Bridge Maintenance Senior Engineer, described the project to include deck replacement, minor widening over wings (no increase to existing footprint), rip rap restacking and replacement as well as repair to existing toe wall at the southern abutment. A draft wetland impact plan was shown to depict areas of temporary disturbance for access as well as areas where existing rip rap would be restacked. Tim explained the work would not result in an increase in footprint from rip rap work, and the toe wall would be replaced in-kind. Tim further described the anticipated work would begin in fall of 2021 and take 14 weeks to complete. He discussed the basic erosion control methods through use of sediment barriers and sandbag cofferdam to divert water and protect the stream during construction. Staging will be installed in the brook to facilitate the deck replacement. It will be in place through most of the project duration, however the coffer dam water diversion will only be in place during the phase of in water work associated with the toe wall replacement in kind. Erosion control measures will be removed once work area is stabilized. The proposed work window is this fall (2021) into early winter, with a work window of 14 weeks for the entire project.

Tim further stated the bridge was constructed after the 1927 floods, and widened in 1979. The toe walls were added in 2006, and erosion repair at wings in 2008 after storm event. A concrete invert (bottom) is within a majority of the structure and has an un-known install date. There is no history of overtopping and modeling shows the crossing will pass a 100-year storm event. There is no change to the existing footprint of the rip rap, or in the hydraulic opening resulting from the work.

Arin determined Beaver Brook is a 2nd order stream to convergence to Lafayette Brook, and outside Shoreland Water Quality Protection Act jurisdiction. Beaver Brook is not a Designated River. Beaver Brook is a predicted coldwater stream per the Wildlife Action Plan (WAP), with no species of concern identified within the project area. NHB21-1077 determined no rare species occurrences in or adjacent to project. No Priority Resource Area (PRA) identified within project limit. NH Fish & Game fish survey data identified Eastern Brook Trout upstream at the head of the stream reach, and there is a private dam also located at this location. The Aquatic Restoration Mapper identifies the crossing at has full aquatic organism passage and partial geomorphic compatibility. The location is within a 100-year FEMA floodplain. US Fish & Wildlife Service species list determined Northern long-eared bat and a 4(d) consistency letter was generated, although it is not anticipated any tree clearing from the project. Canada

lynx was also identified, although a field review determined no habitat present. Section 106 review determined no effect, and an Appendix B under the Programmatic Agreement (state project) was generated.

Karl Benedict, NHDES, stated the work best fits under the 904.09 repair, replacement, rehabilitation to an existing Tier 3 crossing and does not warrant an alternative design. He asked that the Professional Engineer (PE) certification associated with 904.09 within the application discuss the existing bank stabilization work and history to address concerns for stabilization of the site, rather than addressing the bank work within Env-Wt 514. Karl also asked the plans show the existing extent of the existing/“historical” rip rap, as well as the existing and proposed grades (contours). The photos and the historic plan showing the existing extent of riprap bank stabilization are great references as well. Karl asked how access would be obtained to work area and Tim said he would show staging area on the plans. Tim did clarify the work could be done by hand and machinery would be on top of bank; no cut into the slope or embankment are needed to access nor complete this work.

Sarah L asked if the 514 rules for bank stabilization would be required and Karl believed the rip rap work would be considered a component of the structure and discussions should be covered under the stream crossing rules and the PE certification. Karl said the stream crossing rules would apply, and a statement to the Env-Wt 514 rules could be made in the PE certification to address however Karl indicated that the Env-Wt 514 worksheet is not needed for this project. Andy O mentioned the difference between the existing and proposed grades will be difficult to show as the work to restack the existing stone will result in minor grade changes. Tim added that the grades on a plan will look nearly identical due to the 1-2 ft contour interval. Karl mentioned that seeing both existing and proposed contours on a plan that look nearly identical is a statement in itself and that he would like that type of plan. Karl asked that a statement noting and documenting this will help to ensure areas of temporary and permanent impacts are accurately reflected on plans. Karl’s preference is that the plans show the extent of the existing field conditions for the site, Lorie S so long as the plans show no additional new riprap no mitigation would be required as the impacts are within the same footprint of existing riprap and the riprap is for the intention of protecting the existing infrastructure (Env-Wt 313.04(a)(3)a).

Carol H asked why the 2015 repairs were not complete and Tim explained likely due to shifting priorities and resources to complete the work and obtain a permit. Carol further asked the sand bags be removed as soon as possible and after in water work is complete and Tim agreed that could be done. Mike H asked the USFWS be contacted to ensure no concerns for bats and the use of this bridge as part of the US Army Corp review. He further explained of primary concern for bats is tree removal, work to bridges and dam rip rap. Jeanie B had no additional comments. Natural Heritage Bureau was not in attendance, but provided email they had no further comments. Pete S also did not attend but provided a comment via email. He requested enhancements for wildlife passage could be improved by tying in the downstream abutment ledges into the streambank, such as adding a few stepping stones.

This project has been previously discussed at the March 15, 2015 Monthly Natural Resource Agency Coordination Meeting.

Rumney, #40569

Arin Mills, NHDOT Senior Environmental Manager, presented the location of the project as bridge 157/063 which carries Quincy Road (state) over an un-named tributary to the Baker River in Rumney. This is a state funded and executed project. The un-named stream flows ~ 2 miles from the south slope of Stinson Mountain, a primarily forested and undeveloped area. From the crossing it flows ~ 600’ downstream where it enters the Baker River. The bridge was originally constructed in 1928, after the floods of 1927, and widening work was done in 1977. The surrounding landscape is rural/residential along

BUREAU OF ENVIRONMENT CONFERENCE REPORT

SUBJECT: NHDOT Monthly Natural Resource Agency Coordination Meeting

DATE OF CONFERENCE: March 18th 2015

LOCATION OF CONFERENCE: John O. Morton Building

ATTENDED BY:

NHDOT

Matt Urban
Ron Crickard
Marc Laurin
Jim Kirouac
John Butler
Chris Carucci
Andrew Benton
Mark Hemmerlein
Randy Talon
Bill Saffian
Don Lyford
Stephen Liakos
Anthony Weatherbee

EPA

Mark Kern

NHDES

Gino Infascelli
Lori Sommer

NH Fish & Game

Carol Henderson

McFarland Johnson

Jed Merrow
Mitchell Pac
Christine Perron

HEB

Joshua McAllister

Town of Bedford

Jeff Foote

PRESENTATIONS/ PROJECTS REVIEWED THIS MONTH:

(minutes on subsequent pages)

Finalization of February 18 th 2015 Meeting Minutes.....	3
Roxbury-Sullivan, F-X-0121(034), 10439	4
Berlin, X-A001(088), 16019 (Hutchins Street)	17
Rumney, Non-Federal, 26504 (Buffalo Road Bridge)	29
Berlin, RT 16, Fully Funded by City, N/A	36
Bedford, Non-Federal, 24217	47
Franconia, Non-Federal, 40272	65
Franconia, Non-Federal, 40270	69
Alexandria, Non-Federal, 40244	71

(When viewing these minutes online, click on a project to zoom to the minutes for that project)

habitat would actually be created by the proposed design since the bridge would be longer. It was agreed that more information was necessary to clarify the extent of new permanent impact. L. Sommer noted that new impacts for a Tier 3 stream crossing require mitigation unless the crossing fully complies with the Stream Crossing Rules. The need for mitigation in the form of an in-lieu fee will be determined once additional information on proposed impacts is reviewed with Lori and Gino.

G. Infascelli suggested that changes to the proposed drainage be considered, including replacing the catch basins with drop inlets and reducing the length of riprap at the drainage outlets. He felt that these changes would provide some treatment of runoff, be easier to maintain, and address Fish & Game's concern regarding turtles getting trapped in catch basins. He further commented that catch basin sumps require maintenance and he wasn't sure that they provided much of a water quality benefit because they are rarely cleaned out. J. Foote noted that the catch basins are currently located in ditch lines, which do provide some treatment before runoff enters the basins. He agreed with G. Infascelli's suggestions and noted that it may be possible to create more of a plunge pool design.

L. Sommer asked about the project's schedule. C. Perron replied that the permit application would be submitted to the towns that day. However, J. Foote noted that obtaining the permit was not urgent, and coordination with DES would continue on the issues raised at this meeting.

This project has not been previously discussed at a Monthly Natural Resource Agency Coordination Meeting.

Franconia, Non-Federal, 40272

Tony Weatherbee provided an overview of the project. The scope of the project is to rehab the bridge that carries NH Rte. 116 over Coppermine Brook (069/049). The existing structure is a concrete slab bridge that has a 19'-0" span and 32'-0" deck width. Proposed work consists of replacing the concrete deck, placing concrete toewalls, and placing riprap.

Carol Henderson asked if using fabric would help. T. Weatherbee said that riprap is preferred and Gino Infascelli verified that sometimes fabric can be problematic.

G. Infascelli asked what time of the year this project would be done. T. Weatherbee said the project would be done in the late fall and early winter.

Lori Sommer said that no mitigation would be required.

This project has not been previously discussed at a Monthly Natural Resource Agency Coordination Meeting.

Franconia, Non-Federal, 40270

Tony Weatherbee provided an overview of the project. T. Weatherbee indicated the proposed work would rehab the existing bridge that carries NH Rte. 18 over Black Brook (085/104). The existing structure is a concrete slab bridge that has a 10'-0" span and 29'-0" deck width. The

proposed work consists of repairing the concrete deck, repairing the concrete toewalls, and placing riprap.

Lori Sommer said that no mitigation would be required.

This project has not been previously discussed at a Monthly Natural Resource Agency Coordination Meeting.

Alexandria, Non-Federal, 40244

Tony Weatherbee provided an overview of the project. T. Weatherbee indicated the proposed work would rehab the existing bridge that carries Fowler River Road over Bog Brook (174/146). The existing structure is a two span concrete slab bridge that has a two 13'-0" clear spans and 28'-0" deck width. Proposed work consists of replacing the concrete deck, removing the pier, widening the substructure, and placing riprap. The deck will be removed in two phases and the pier will be removed while the deck is off.

Carol Henderson asked if the pier will fully be removed and T. Weatherbee said yes the pier will be fully removed, including the footing. Using natural material removed from where the structure will be widened to fill in the location where the pier was located was discussed.

Lori Sommer said that mitigation for the substructure widening is required and that some credit will be given for the pier removal. Matt Urban and L. Sommer will coordinate the amount.

This project has not been previously discussed at a Monthly Natural Resource Agency Coordination Meeting.



**WETLANDS PERMIT APPLICATION
STREAM CROSSING WORKSHEET**
Land Resources Management
Wetlands Bureau



RSA 482-A/ Env-Wt-900

NOTE: This worksheet can be used to accompany Wetlands Permit Applications when proposing stream crossings.

1. Tier Classifications	
Determine the contributing watershed size at USGS StreamStats <i>Note: Plans for Tier 2 and 3 crossings shall be designed and stamped by a professional engineer who is licensed under RSA 310-A to practice in New Hampshire.</i>	
Size of contributing watershed at the crossing location:	___ 2,086 ___ acres
<input type="checkbox"/> Tier 1: A tier 1 stream crossing is a crossing located on a watercourse where the contributing watershed size is less than or equal to 200 acres	
<input type="checkbox"/> Tier 2: A tier 2 stream crossing is a crossing located on a watercourse where the contributing watershed size is greater than 200 acres and less than 640 acres	
<input checked="" type="checkbox"/> Tier 3: A tier 3 stream crossing is a crossing that meets <u>any</u> of the following criteria:	
<input checked="" type="checkbox"/> On a watercourse where the contributing watershed is more than 640 acres	
<input type="checkbox"/> Within a Designated River Corridor unless:	
a. The crossing would be a tier 1 stream based on contributing watershed size; or b. The structure does not create a direct surface water connection to the designated river as depicted on the national hydrography dataset as found on GRANIT	
<input type="checkbox"/> On a watercourse that is listed on the surface water assessment 305(b) report	
<input checked="" type="checkbox"/> Within a 100-year floodplain (see section 2 below)	
<input type="checkbox"/> In a jurisdictional area having any protected species or habitat (NHB DataCheck)	
<input type="checkbox"/> In a Prime Wetland or within a duly-established 100-foot buffer, unless a waiver has been granted pursuant to RSA 482-A:11,IV(b) and Env-Wt 706	
<input type="checkbox"/> Tier 4: A tier 4 stream crossing is a crossing located on a tidal watercourse	

2. 100-year Floodplain
Use the FEMA Map Service Center to determine if the crossing is located within a 100-year floodplain. Please answer the questions below:
<input type="checkbox"/> No: The proposed stream crossing <i>is not</i> within the FEMA 100-year floodplain.
<input checked="" type="checkbox"/> Yes: The proposed project <i>is</i> within the FEMA 100-year floodplain. Zone = ___ A ___
<input type="checkbox"/> Elevation of the 100-year floodplain at the inlet: _____ feet (FEMA El. or Modeled El.)

3. Calculating Peak Discharge	
Existing 100-year peak discharge (Q) calculated in cubic feet per second (CFS): ___ 542 ___ CFS	Calculation method: ___ StreamStats ___
Estimated Bankfull discharge at the crossing location: ___ 134 ___ CFS	Calculation method: ___ HY-8 ___

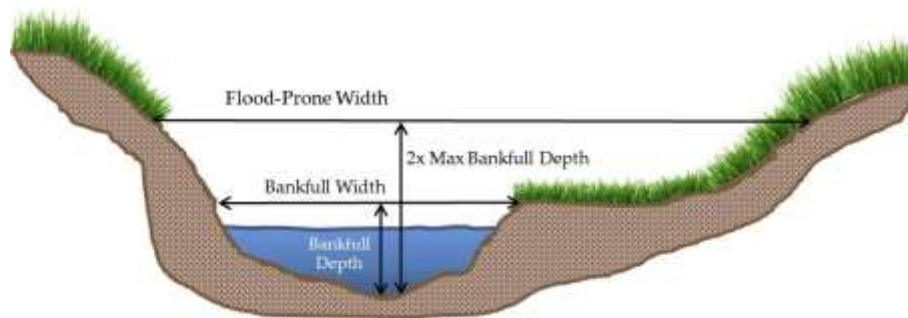
➡ **Note: If Tier 1 then skip to Section 10** ⬅

4. Predicted Channel Geometry based on Regional Hydraulic Curves <i>For Tier 2, Tier 3 and Tier 4 Crossings Only</i>	
Bankfull Width: <u>22.2</u> feet	Mean Bankfull Depth: <u>1.8</u> feet
Bankfull Cross Sectional Area: <u>39.1</u> square feet	

5. Cross Sectional Channel Geometry: Measurements of the Existing Stream within a Reference Reach <i>For Tier 2, Tier 3 and Tier 4 Crossings Only</i>				
Describe the reference reach location: forest _____				
Reference reach watershed size: <u>2,086</u> acres				
Parameter	Cross Section 1 Describe bed form <u>glide</u> <i>(e.g. pool, riffle, glide)</i>	Cross Section 2 Describe bed form <u>riffle</u> <i>(e.g. pool, riffle, glide)</i>	Cross Section 3 Describe bed form <u>riffle</u> <i>(e.g. pool, riffle, glide)</i>	Range
Bankfull Width	<u>19</u> feet	<u>16</u> feet	<u>27</u> feet	<u>19-27</u> feet
Bankfull Cross Sectional Area	<u>24.8</u> SF	<u>21.5</u> SF	<u>34.8</u> SF	<u>21.5-34.8</u> SF
Mean Bankfull Depth	<u>1.8</u> feet	<u>1.3</u> feet	<u>1.3</u> feet	<u>1.3-1.8</u> feet
Width to Depth Ratio	<u>14.6</u>	<u>11.9</u>	<u>20.9</u>	<u>11.9-20.9</u>
Max Bankfull Depth	<u>1.8</u> feet	<u>2.2</u> feet	<u>2.2</u> feet	<u>1.8-2.2</u> feet
Flood Prone Width	<u>40</u> feet	<u>37</u> feet	<u>42</u> feet	<u>37-42</u> feet
Entrenchment Ratio	<u>2.1</u>	<u>2.3</u>	<u>1.6</u>	<u>1.6-2.3</u>

Use **Figure 1** below to determine the measurements of the Reference Reach Attributes

Figure 1: Determining the Reference Reach Attributes



6. Longitudinal Parameters of the Reference Reach and Crossing Location <i>For Tier 2, Tier 3 and Tier 4 Crossings Only</i>
Average Channel Slope of the Reference Reach: <u>3%</u>
Average Channel Slope at the Crossing Location: <u>13.75%</u>

7. Plan View Geometry <i>For Tier 2, Tier 3 and Tier 4 Crossings Only</i>
Sinuosity of the Reference Reach: <u>1.05</u>
Sinuosity of the Crossing Location: <u>2.1</u>
<i>Note: Sinuosity is measured a distance of at least 20 times bankfull width, or 2 meander belt widths</i>

8. Substrate Classification based on Field Observations

For Tier 2, Tier 3 and Tier 4 Crossings Only

% of reach that is <i>bedrock</i>	_____ 0 _____ %
% of reach that is <i>boulder</i>	_____ 7 _____ %
% of reach that is <i>cobble</i>	_____ 15 _____ %
% of reach that is <i>gravel</i>	_____ 30 _____ %
% of reach that is <i>sand</i>	_____ 48 _____ %
% of reach that is <i>silt</i>	_____ 0 _____ %

9. Stream Type of Reference Reach

For Tier 2, Tier 3 and Tier 4 Crossings Only

Stream Type of Reference Reach:	___ B _____
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Refer to Rosgen Classification Chart (Figure 2) below

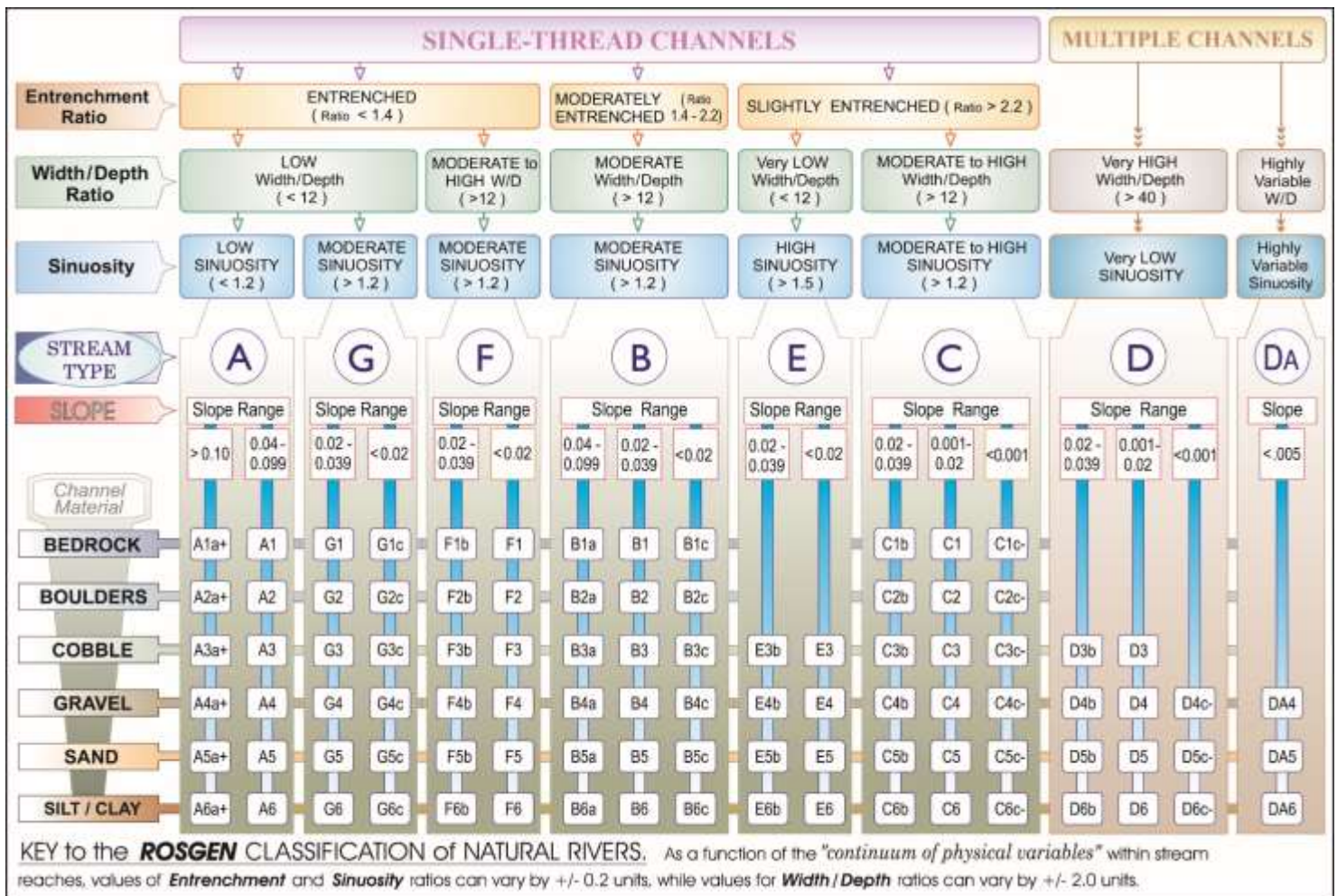


Figure 2. Reference from Applied River Morphology, Rosgen, 1996

10. Crossing Structure Metrics

Existing Conditions

Existing Structure Type:	<input checked="" type="checkbox"/> Bridge Span <input type="checkbox"/> Pipe Arch <input type="checkbox"/> Open-bottom Culvert <input type="checkbox"/> Closed-bottom Culvert <input type="checkbox"/> Closed-bottom Culvert with stream simulation <input type="checkbox"/> Other: _____		
Existing Crossing Span <i>(perpendicular to flow)</i>	_____ 29 _____ feet	Culvert Diameter _____ feet	Inlet Elevation _____
Existing Crossing Length <i>(parallel to flow)</i>	_____ 12 _____ feet	Outlet Elevation _____	Culvert Slope _____

Proposed Conditions

Proposed Structure Type:	Tier 1	Tier 2	Tier 3	Alternative Design
Bridge Span	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pipe Arch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Closed-bottom Culvert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Open-bottom Culvert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Closed-bottom Culvert with stream simulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Proposed structure Span <i>(perpendicular to flow)</i>	_____ 29 _____ feet	Culvert Diameter _____ feet	Inlet Elevation _____
Proposed Structure Length <i>(parallel to flow)</i>	_____ 12 _____ feet	Outlet Elevation _____	Culvert Slope _____
Proposed Entrenchment Ratio* <i>For Tier 2, Tier 3 and Tier 4 Crossings Only</i>	_____ 2 _____	<i>Note: To accommodate the entrenchment ratio, floodplain drainage structures may be utilized</i>	

* Note: Proposed Entrenchment Ratio must meet the minimum ratio for each stream type listed in **Figure 3**, otherwise the applicant must address the Alternative Design criteria listed in Env-Wt 904.09

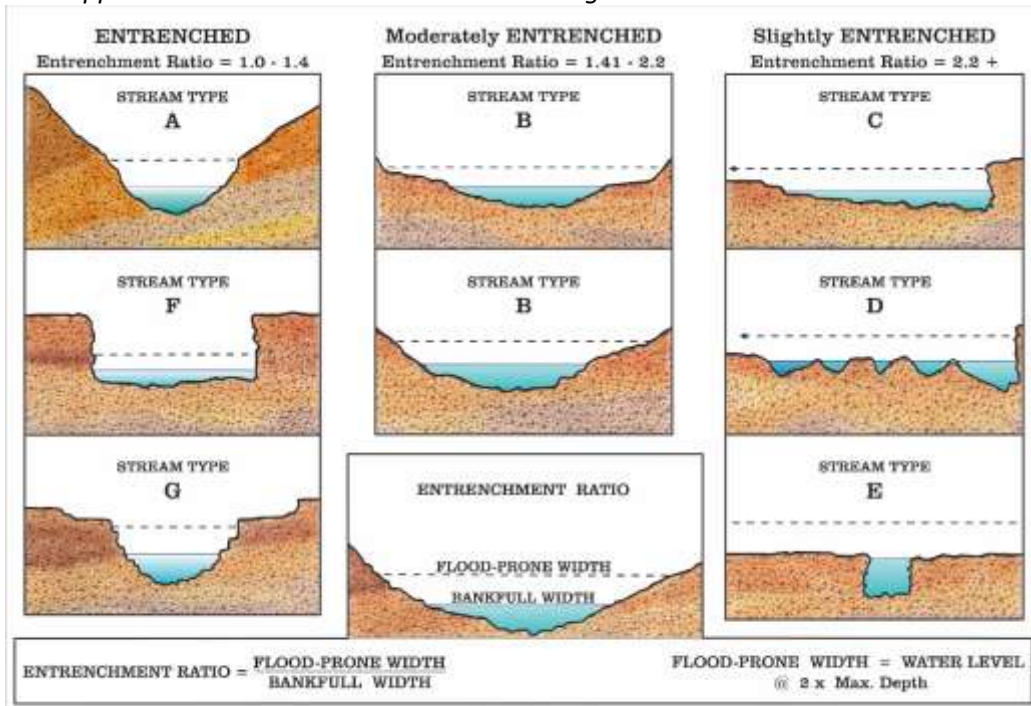


Figure 3. Reference from Applied River Morphology, Rosgen, 1996

11. Crossing Structure Hydraulics		
	Existing	Proposed
100 year flood stage elevation at inlet	___1059.08___	___1059.08___
Flow velocity at outlet in feet per second (FPS)	___18.8___	___18.8___
Calculated 100 year peak discharge (Q) for the <u>proposed</u> structure in CFS		___542___
Calculated 50 year peak discharge (Q) for the <u>proposed</u> structure in CFS		___452___

12. Crossing Structure Openness Ratio <i>For Tier 2, Tier 3 and Tier 4 Crossings Only</i>
<p>Crossing Structure Openness Ratio = ___1.92___</p> <p><i>Openness box culvert = (height x width)/length</i></p> <p><i>Openness round culvert = (3.14 x radius²)/length</i></p>

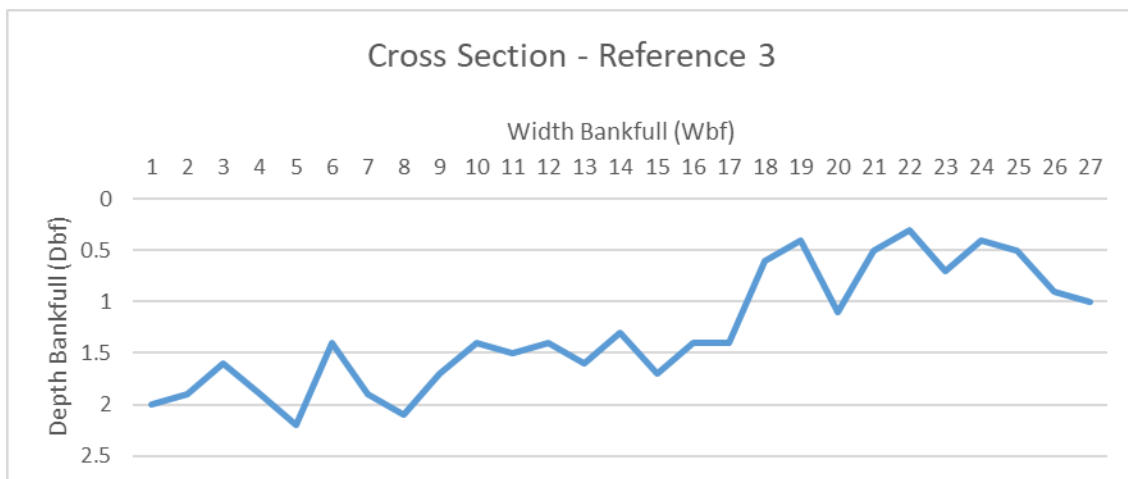
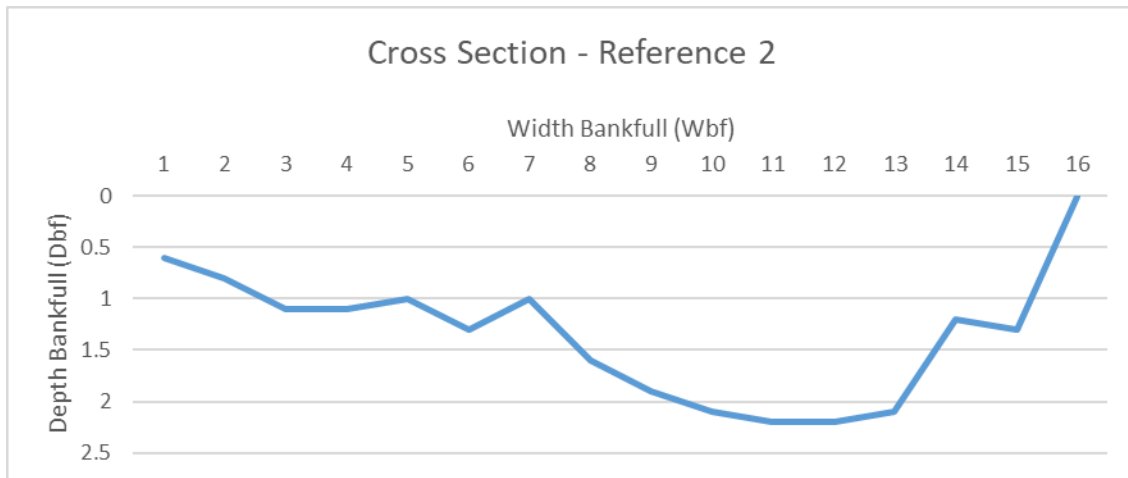
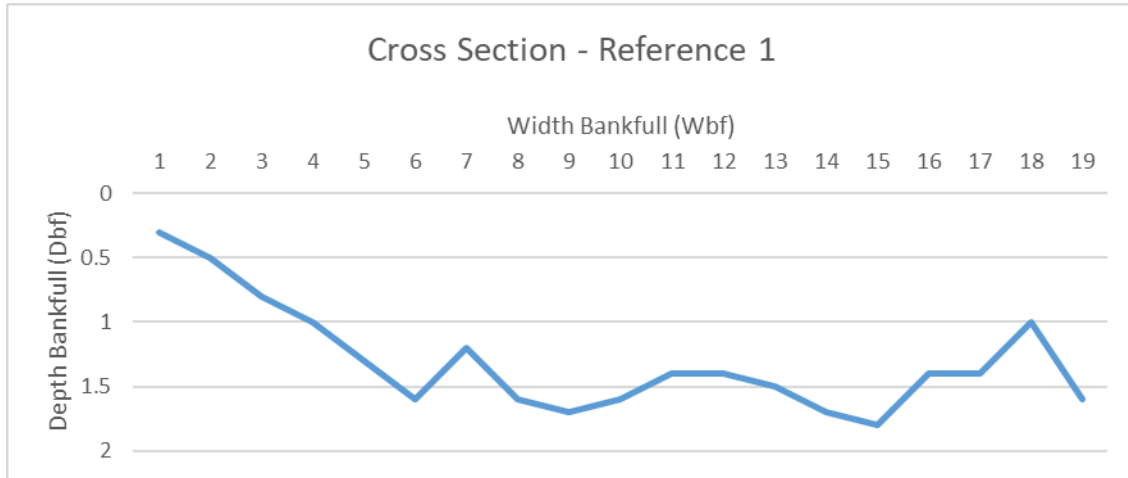
13. General Design Considerations
Env-Wt 904.01 requires all stream crossings to be designed and constructed according to the following requirements. Check each box if the project meets these general design considerations.
<i>All stream crossings shall be designed and constructed so as to:</i>
<input checked="" type="checkbox"/> Not be a barrier to sediment transport
<input checked="" type="checkbox"/> Prevent the restriction of high flows and maintain existing low flows
<input checked="" type="checkbox"/> Not obstruct or otherwise substantially disrupt the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction
<input checked="" type="checkbox"/> Not cause an increase in the frequency of flooding or overtopping of banks
<input checked="" type="checkbox"/> Maintain or enhance geomorphic compatibility by: <ul style="list-style-type: none"> a. Minimizing the potential for inlet obstruction by sediment, wood, or debris; and b. Preserving the natural alignment of the stream channel
<input checked="" type="checkbox"/> Preserve watercourse connectivity where it currently exists
<input checked="" type="checkbox"/> Restore watercourse connectivity where: <ul style="list-style-type: none"> a. Connectivity previously was disrupted as a result of human activity(ies); and b. Restoration of connectivity will benefit aquatic life upstream or downstream of the crossing, or both
<input checked="" type="checkbox"/> Not cause erosion, aggradation, or scouring upstream or downstream of the crossing
<input checked="" type="checkbox"/> Not cause water quality degradation

14. Tier-Specific Design Criteria
Stream crossings must be designed in accordance with the Tier specific design criteria listed in Part Env-Wt 904.
<input checked="" type="checkbox"/> The proposed project meets the Tier specific design criteria listed in Part Env-Wt 904 and each requirement has been addressed in the plans and as part of the wetland application.

15. Alternative Design
<p>NOTE: If the proposed crossing does not meet all of the general design considerations, the Tier specific design criteria, or the minimum entrenchment ratio for each given stream type listed in Figure 3, then an alternative design plan and associated requirements must be addressed pursuant to Env-Wt 904.09.</p> <p><input type="checkbox"/> I have submitted an alternative design and addressed each requirement listed in Env-Wt 904.09</p>

Franconia Bridge Maintenance, 085/104

Stream Assessment conducted July 27, 2021 by Matt Urban & Arin Mills- NHDOT





Outlet Looking Upstream



Inlet Looking Downstream



Reference Reach 1 Looking Downstream



Reference Reach 2 Looking Downstream



Reference Reach 3 Looking Downstream

NH Department of Transportation
Bureau of Bridge Maintenance
Project: Franconia 085/104; #42835
Prepared by: Timothy Boodey, P.E.

Stream Crossing Rules for Standard Application Tier 3,
repair/preservation/rehabilitation project Hydraulic Report/
Summary

Crossing's Drainage Area: 3.26 square mile

Existing Conditions: This existing concrete slab bridge was constructed in 1927 and widened in 1979. There has been scour damage to the bridge in the past. A concrete invert was added under the structure sometime between 1979 and 2006. Toe walls were added to both abutments in 2006 and some of the existing rip rap was added to repair damage around the wings in 2008. There is no history of flooding over the bridge or roadway at this crossing. The crossing was modeled using information from NH StreamStats in HY-8 based on existing conditions. Based on this model, the crossing will pass a 100-year storm event without overtopping. The rip rap at the four corners appears relatively stable although there are large voids present where rip rap is missing and it needs maintenance.

Project Description: This project involves the replacement of the existing, reinforced concrete bridge deck. The deck will be widened slightly due to widths required to maintain traffic during phase construction. The footprint of the existing abutments and wing walls will not change due to the deck replacement. The existing southern toe wall will be repaired in kind. The existing toe walls and concrete invert will not change in footprint. The existing rip at the four corners will be repaired, filling in voids and restacking.

Proposed Conditions:

The existing footprint of the bridge substructure will not change after the project is complete. The footprint of the existing rip rap will not change due to the project. The capacity of the crossing, that currently allows for the passage of the 100-year storm flows, will not change due to the project. I have looked at the proposed flows we would expect to see during construction and based on our proposed forming and construction sequence I do not expect any problems completing the project.

****Included with this form is supporting analysis by way of photos and plans***

Env-Wt 904.01 General Design Considerations Applicable
to All Stream Crossings

- (a) All stream crossings, whether over tidal or non-tidal waters, shall be designed and constructed so as to:
- 1) Not be a barrier to sediment transport;
 - 2) Not restrict high flows and maintain existing low flows;
 - 3) Not obstruct or otherwise substantially disrupt the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction;
 - 4) Not cause an increase in the frequency of flooding or overtopping of banks;
 - 5) Maintain or enhance geomorphic compatibility by:

- a. Minimizing the potential for inlet obstruction by sediment, wood, or debris; and
- b. Preserving the natural alignment of the stream channel;
- 6) Preserve watercourse connectivity where it currently exists;
- 7) Restore watercourse connectivity where:
 - a. Connectivity previously was disrupted as a result of human activity(ies); and
 - b. Restoration of connectivity will benefit aquatic life upstream or downstream of the crossing, or both;
- 8) Not cause erosion, aggradation, or scouring upstream or downstream of the crossing; and
- 9) Not cause water quality degradation.

(b) For stream crossing over tidal waters, the stream crossing shall be designed to:

- 1) Match the velocity, depth, cross-sectional area, and substrate of the natural stream: and
- 2) Be of sufficient size to not restrict bi-directional tidal flow over the natural tide range above, below, and through the crossing.

Env-Wt 904.09(a)- The repair, rehabilitation, or replacement of tier 3 stream crossings shall be limited to existing legal crossings where the tier classification is based only on the size of the contributing watershed.

Env-Wt 904.09(b)- Rehabilitation of a culvert or other closed-bottom stream crossing structure pursuant to this section may be accomplished by concrete repair, slip lining, cured-in place lining, or concrete invert lining, or any combination thereof, except that slip lining shall not occur more than once.
(Not applicable to repair)

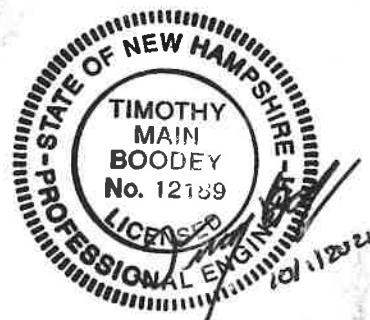
Env-Wt 904.09(c) A project shall qualify under this section only if a professional engineer certifies, and provides supporting analyses to show, that:

- (1) The existing crossing does not have a history of causing or contributing to flooding that damages the crossing or other human infrastructure or protected species habitat;
- (2) The proposed stream crossing will:
 - a. Meet the general criteria specified in Env-Wt 904.01;
(see page 2 of this form for Env-Wt 904.01)
 - b. Maintain or enhance the hydraulic capacity of the stream crossing;
 - c. Maintain or enhance the capacity of the crossing to accommodate aquatic organism passage;
 - d. Maintain or enhance the connectivity of the stream reaches upstream or downstream of the crossing; and
 - e. Not cause or contribute to the increase in the frequency of flooding or overtopping of the banks upstream or downstream of the crossing.

Env-Wt 904.09(d) Repair, rehabilitation, or replacement of a tier 4 stream crossing shall comply with Env-Wt 904.07(d). (if non-tidal, N/A)

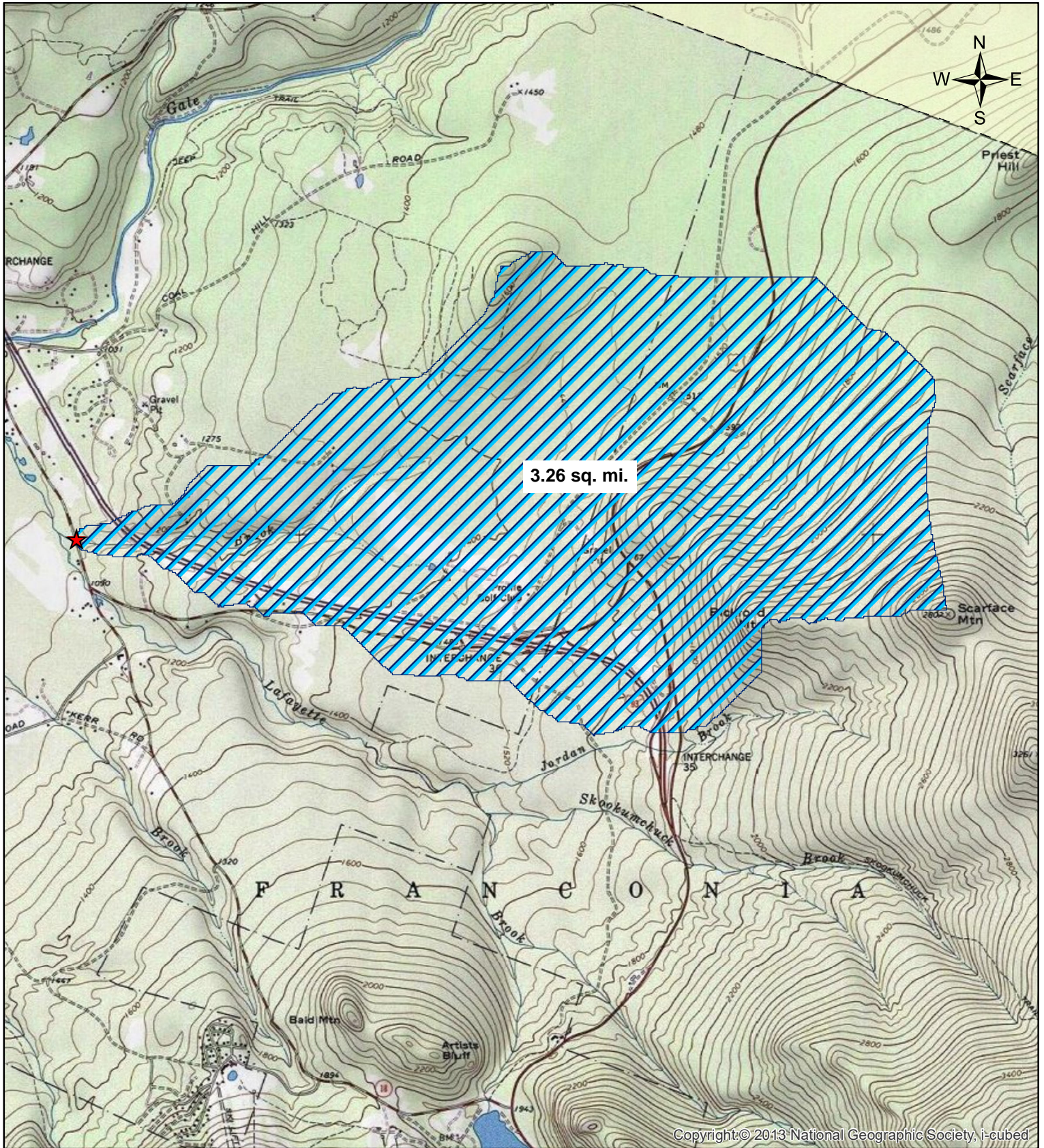
I hereby certify that the above referenced project meets the criteria of Env-Wt 904.09(c).

Name: Timothy Boodey
Date: 10/01/2021



2 of 2
2 of 3 TMB

Franconia, Project #42835



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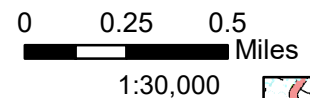
Legend

- ★ Project Location
- ▨ globalwatershed

Map depicting bridge 085/104 which carries NH 18 over Beaver Brook in Franconia.

Map created by: Arin Mills on 1/16/2020

Source: S:\Environment\PROJECTS\42835



New Hampshire
DOT
Department of Transportation



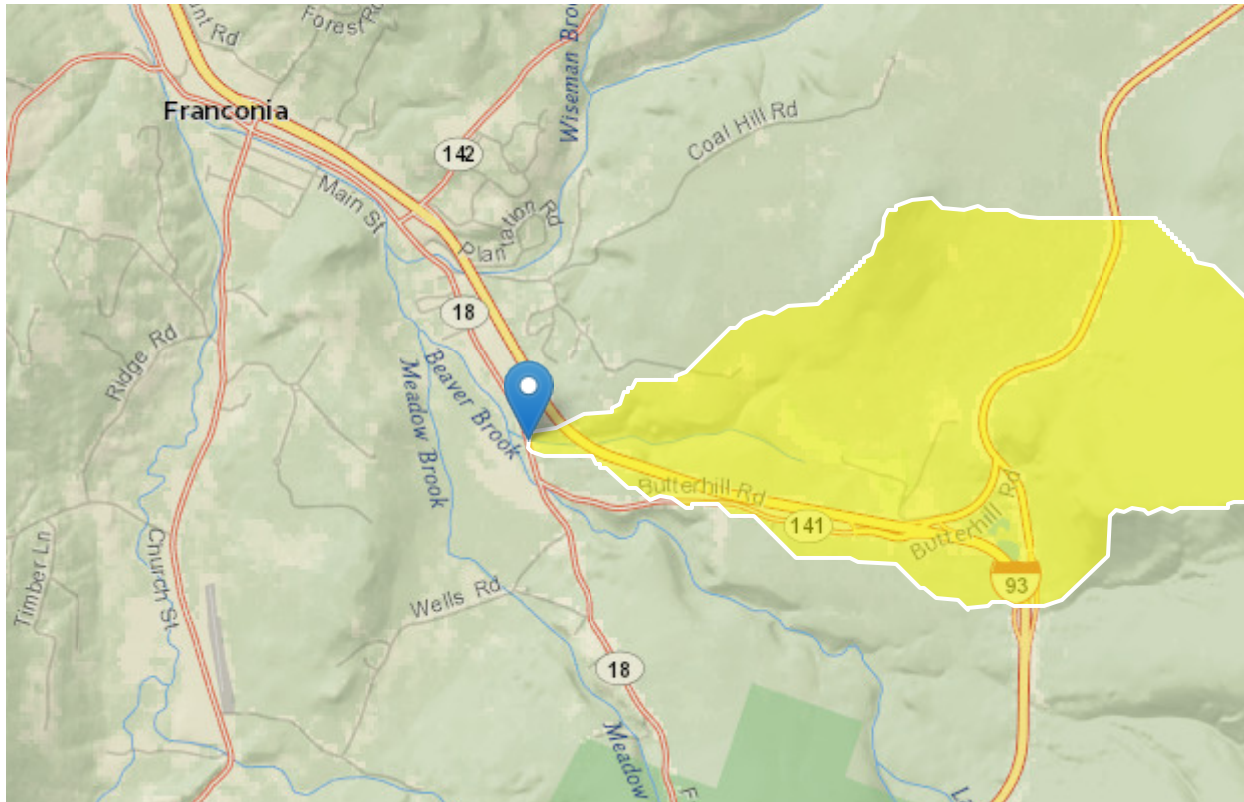
StreamStats Report- Franconia 42835

Region ID: NH

Workspace ID: NH20200116160956511000

Clicked Point (Latitude, Longitude): 44.20810, -71.72409

Time: 2020-01-16 11:10:11 -0500



Bridge 085/104 which carries NH 18 over Black Brook.

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	3.26	square miles
APRAVPRE	Mean April Precipitation	3.056	inches
WETLAND	Percentage of Wetlands	0.1872	percent

Parameter Code	Parameter Description	Value	Unit
CSL10_85	Change in elevation divided by length between points 10 and 85 percent of distance along main channel to basin divide - main channel method not known	266	feet per mi

Peak-Flow Statistics Parameters [Peak Flow Statewide SIR2008 5206]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	3.26	square miles	0.7	1290
APRAVPRE	Mean April Precipitation	3.056	inches	2.79	6.23
WETLAND	Percent Wetlands	0.1872	percent	0	21.8
CSL10_85	Stream Slope 10 and 85 Method	266	feet per mi	5.43	543

Peak-Flow Statistics Flow Report [Peak Flow Statewide SIR2008 5206]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	Plu	SEp	Equiv. Yrs.
2 Year Peak Flood	134	ft ³ /s	81.6	220	30.1	3.2
5 Year Peak Flood	215	ft ³ /s	129	358	31.1	4.7
10 Year Peak Flood	283	ft ³ /s	166	481	32.3	6.2
25 Year Peak Flood	376	ft ³ /s	213	663	34.3	8
50 Year Peak Flood	452	ft ³ /s	248	822	36.4	9
100 Year Peak Flood	542	ft ³ /s	288	1020	38.6	9.8
500 Year Peak Flood	760	ft ³ /s	370	1560	44.1	11

Peak-Flow Statistics Citations

Olson, S.A., 2009, Estimation of flood discharges at selected recurrence intervals for streams in New Hampshire: U.S. Geological Survey Scientific Investigations Report 2008-5206, 57 p. (<http://pubs.usgs.gov/sir/2008/5206/>)

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Application Version: 4.3.11

New Hampshire Natural Heritage Bureau NHB DataCheck Results Letter

To: Arin Mills
John O. Morton Building
7 Hazen Drive
Concord, NH 03302-0483

From: NH Natural Heritage Bureau

Date: 4/1/2021 (This letter is valid through 4/1/2022)

Re: Review by NH Natural Heritage Bureau of request dated 4/1/2021

Permit Types: Wetland Standard Dredge & Fill - Major
General Permit

NHB ID: NHB21-1077

Applicant: Arin Mills

Location: Franconia
Tax Map: DOT ROW, Tax Lot: DOT ROW
Address: NH 18 over Beaver Brook

Proj. Description: Conduct bridge maintenance activities on bridge #085/104 which carries NH Route 18 over Beaver Brook. Activities will include deck replacement with minor widening for traffic control, toewall installation and reset of stone to address erosion and scour.

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

MAP OF PROJECT BOUNDARIES FOR: NHB21-1077





United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
<http://www.fws.gov/newengland>

In Reply Refer To:

April 01, 2021

Consultation Code: 05E1NE00-2021-SLI-2135

Event Code: 05E1NE00-2021-E-06729

Project Name: Franconia 42835

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>;

<http://www.towerkill.com>; and

[http://](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html)

www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office

70 Commercial Street, Suite 300

Concord, NH 03301-5094

(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2021-SLI-2135

Event Code: 05E1NE00-2021-E-06729

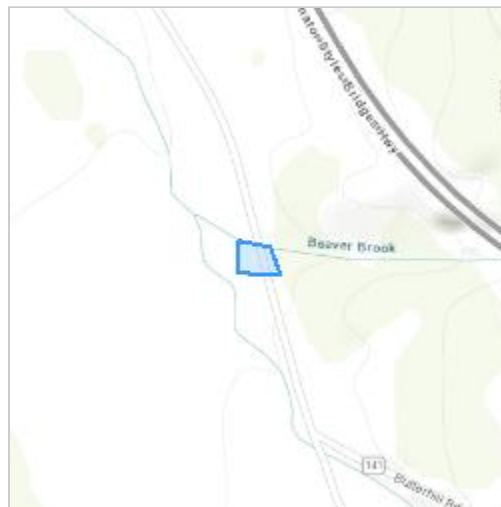
Project Name: Franconia 42835

Project Type: TRANSPORTATION

Project Description: Conduct bridge maintenance activities on bridge #085/104 which carries NH Route 18 over Beaver Brook. Activities will include deck replacement with minor widening for traffic control, toewall installation and reset of stone to address erosion and scour.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@44.2079148,-71.72416779648896,14z>



Counties: Grafton County, New Hampshire

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Canada Lynx <i>Lynx canadensis</i> Population: Wherever Found in Contiguous U.S. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/3652	Threatened
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
<http://www.fws.gov/newengland>

IPaC Record Locator: 002-100773249

April 01, 2021

Subject: Consistency letter for the 'Franconia 42835' project indicating that any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Dear Arin Mills:

The U.S. Fish and Wildlife Service (Service) received on April 01, 2021 your effects determination for the 'Franconia 42835' (the Action) using the northern long-eared bat (*Myotis septentrionalis*) key within the Information for Planning and Consultation (IPaC) system. You indicated that no Federal agencies are involved in funding or authorizing this Action. This IPaC key assists users in determining whether a non-Federal action may cause “take”^[1] of the northern long-eared bat that is prohibited under the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o). Unless the Service advises you within 30 days of the date of this letter that your IPaC-assisted determination was incorrect, this letter verifies that the Action is not likely to result in unauthorized take of the northern long-eared bat.

Please report to our office any changes to the information about the Action that you entered into IPaC, the results of any bat surveys conducted in the Action area, and any dead, injured, or sick northern long-eared bats that are found during Action implementation.

If your Action proceeds as described and no additional information about the Action’s effects on species protected under the ESA becomes available, no further coordination with the Service is required with respect to the northern long-eared bat.

The IPaC-assisted determination for the northern long-eared bat **does not** apply to the following ESA-protected species that also may occur in your Action area:

- Canada Lynx *Lynx canadensis* Threatened

You may coordinate with our Office to determine whether the Action may cause prohibited take of the animal species listed above.

[1]Take means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct [ESA Section 3(19)].

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

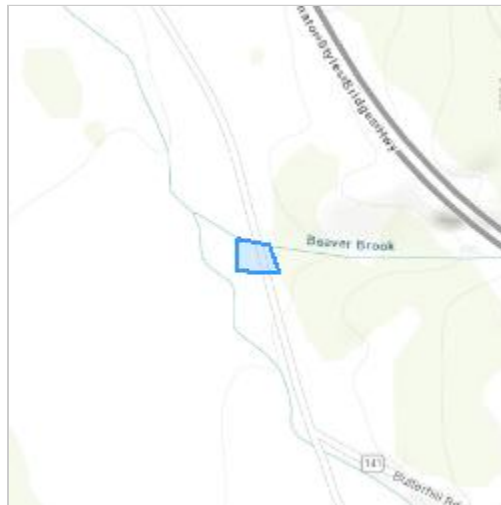
Franconia 42835

2. Description

The following description was provided for the project 'Franconia 42835':

Conduct bridge maintenance activities on bridge #085/104 which carries NH Route 18 over Beaver Brook. Activities will include deck replacement with minor widening for traffic control, toewall installation and reset of stone to address erosion and scour.

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@44.2079148,-71.72416779648896,14z>



Determination Key Result

This non-Federal Action may affect the northern long-eared bat; however, any take of this species that may occur incidental to this Action is not prohibited under the final 4(d) rule at 50 CFR §17.40(o).

Determination Key Description: Northern Long-eared Bat 4(d) Rule

This key was last updated in IPaC on **May 15, 2017**. Keys are subject to periodic revision.

This key is intended for actions that may affect the threatened northern long-eared bat.

The purpose of the key for non-Federal actions is to assist determinations as to whether proposed actions are excepted from take prohibitions under the northern long-eared bat 4(d) rule.

If a non-Federal action may cause prohibited take of northern long-eared bats or other ESA-listed animal species, we recommend that you coordinate with the Service.

Determination Key Result

Based upon your IPaC submission, any take of the northern long-eared bat that may occur as a result of the Action is not prohibited under the ESA Section 4(d) rule adopted for this species at 50 CFR §17.40(o).

Qualification Interview

1. Is the action authorized, funded, or being carried out by a Federal agency?

No

2. Will your activity purposefully **Take** northern long-eared bats?

No

3. [Semantic] Is the project action area located wholly outside the White-nose Syndrome Zone?

Automatically answered

No

4. Have you contacted the appropriate agency to determine if your project is near a known hibernaculum or maternity roost tree?

Location information for northern long-eared bat hibernacula is generally kept in state Natural Heritage Inventory databases – the availability of this data varies state-by-state. Many states provide online access to their data, either directly by providing maps or by providing the opportunity to make a data request. In some cases, to protect those resources, access to the information may be limited. A web page with links to state Natural Heritage Inventory databases and other sources of information on the locations of northern long-eared bat roost trees and hibernacula is available at www.fws.gov/midwest/endangered/mammals/nleb/nhisites.html.

Yes

5. Will the action affect a cave or mine where northern long-eared bats are known to hibernate (i.e., hibernaculum) or could it alter the entrance or the environment (physical or other alteration) of a hibernaculum?

No

6. Will the action involve Tree Removal?

Yes

7. Will the action only remove hazardous trees for the protection of human life or property?

No

8. Will the action remove trees within 0.25 miles of a known northern long-eared bat hibernaculum at any time of year?

No

9. Will the action remove a known occupied northern long-eared bat maternity roost tree or any trees within 150 feet of a known occupied maternity roost tree from June 1 through July 31?

No

Project Questionnaire

If the project includes forest conversion, report the appropriate acreages below. Otherwise, type '0' in questions 1-3.

1. Estimated total acres of forest conversion:

0.1

2. If known, estimated acres of forest conversion from April 1 to October 31

0.1

3. If known, estimated acres of forest conversion from June 1 to July 31

0.1

If the project includes timber harvest, report the appropriate acreages below. Otherwise, type '0' in questions 4-6.

4. Estimated total acres of timber harvest

0

5. If known, estimated acres of timber harvest from April 1 to October 31

0

6. If known, estimated acres of timber harvest from June 1 to July 31

0

If the project includes prescribed fire, report the appropriate acreages below. Otherwise, type '0' in questions 7-9.

7. Estimated total acres of prescribed fire

0

8. If known, estimated acres of prescribed fire from April 1 to October 31

0

9. If known, estimated acres of prescribed fire from June 1 to July 31

0

If the project includes new wind turbines, report the megawatts of wind capacity below. Otherwise, type '0' in question 10.

10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?

0

**STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENVIRONMENT**

NOTE TO FILE

Date: May 5, 2021

From: Arin Mills
Environmental Manager
Bureau of Environment

Project: Franconia
42835

RE: Canada Lynx Project Evaluation

The subject project is located at bridge 085/104 which carries NH 18 over Beaver Brook within the town of Franconia. Bridge maintenance activities will include deck replacement with minor widening for traffic control, toe wall installation and reset of stone to address erosion and scour.

A species list was obtained from the US Fish & Wildlife Service (Consultation Code 05E1NE00-2021-SLI-2135) on April 1, 2021 using the online Information for Planning and Consultation (IPaC) project review website. Based on the project location both the Northern Long-eared bat and Canada lynx were listed as having potential to be in the project area. The IPaC site was further used to determine the project is not prohibited under the Endangered Species Act (ESA) Section 4(d) rule for impacts to the Northern Long-eared bat (IPaC Record Locator 002-100773249). To date no additional communication from the USFWS has been received.

A review of species information for the Canada lynx on the USFWS website, including the species Fact Sheet, found habitat for the species includes landscapes with high snowshoe hare densities, associated with boreal spruce-fir forest. Based on a field review no suitable habitat occurs within the project area for the species or its primary food source. The project area is cleared and managed right-of-way associated with NH 18. It is determined the project will have no effect on the Canada lynx. A 'No Species Present' letter is attached and no further coordination with the USFWS is required.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
<http://www.fws.gov/newengland>

January 4, 2021

To Whom It May Concern:

This project was reviewed for the presence of federally listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

<https://www.fws.gov/newengland/endangeredspecies/index.html> (accessed January 2021)

Based on information currently available to us, no federally listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under section 7 of the Endangered Species Act is not required. No further Endangered Species Act coordination is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact us at 603-223-2541 or www.fws.gov/newengland if we can be of further assistance.

Sincerely,

David Simmons
Acting Field Supervisor
New England Field Office

Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding

Appendix B Certification – Activities with Minimal Potential to Cause Effects

Date Reviewed:
(Desktop or Field Review Date)

3/5/2021

This Project uses only State funding; however project activities listed below comply with the PA.

Project Name: Franconia Bridge Maintenance

State Number: 42835

FHWA Number: N/A

Environmental Contact: Arin Mills

DOT

Email Address: Arin.j.mills@dot.nh.gov

Project Manager: Tim Boodey

Project Description: Conduct bridge maintenance activities on bridge #085/104 which carries NH Route 18 over Beaver Brook. Activities will include deck replacement with minor widening for traffic control, toewall installation and reset of stone to address erosion and scour.

Please select the applicable activity/activities:

Highway and Roadway Improvements	
<input type="checkbox"/>	1. Modernization and general highway maintenance <u>that may require additional highway right-of-way or easement</u> , including: Choose an item. Choose an item.
<input type="checkbox"/>	2. Installation of rumble strips or rumble stripes
<input type="checkbox"/>	3. Installation or replacement of pole-mounted signs
<input type="checkbox"/>	4. Guardrail replacement, provided any extension does not connect to a bridge older than 50 years old (unless it does already), and there is no change in access associated with the extension
Bridge and Culvert Improvements	
<input type="checkbox"/>	5. Culvert replacement (excluding stone box culverts), when the culvert is less than 60" in diameter and excavation for replacement is limited to previously disturbed areas
<input type="checkbox"/>	6. Bridge deck preservation and replacement, as long as no character defining features are impacted
<input checked="" type="checkbox"/>	7. Non-historic bridge and culvert maintenance, renovation, or total replacement, <u>that may require minor additional right-of-way or easement</u> , including: a. replacement or maintenance of non-historic bridges Choose an item.
<input type="checkbox"/>	8. Historic bridge maintenance activities within the limits of existing right-of-way, including: Choose an item. Choose an item.
<input checked="" type="checkbox"/>	9. Stream and/or slope stabilization and restoration activities (including removal of debris or sediment obstructing the natural waterway, or any non-invasive action to restore natural conditions)
Bicycle and Pedestrian Improvements	
<input type="checkbox"/>	10. Construction of pedestrian walkways, sidewalks, sidewalk tip-downs, small passenger shelters, and alterations to facilities or vehicles in order to make them accessible for elderly and handicapped persons
<input type="checkbox"/>	11. Installation of bicycle racks
<input type="checkbox"/>	12. Recreational trail construction
<input type="checkbox"/>	13. Recreational trail maintenance when done on existing alignment
<input type="checkbox"/>	14. Construction of bicycle lanes and shared use paths and facilities within the existing right-of-way
Railroad Improvements	
<input type="checkbox"/>	15. Modernization, maintenance, and safety improvements of railroad facilities within the existing railroad or highway right-of-way, <u>provided no historic railroad features are impacted</u> , including, but not limited to: Choose an item. Choose an item.

Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding

Appendix B Certification – Activities with Minimal Potential to Cause Effects

<input type="checkbox"/>	16. In-kind replacement of modern railroad features (i.e. those features that are less than 50 years old)
<input type="checkbox"/>	17. Modernization/modification of railroad/roadway crossings provided that all work is undertaken within the limits of the roadway structure (edge of roadway fill to edge of roadway fill) and no associated character defining features are impacted
Other Improvements	
<input type="checkbox"/>	18. Installation of Intelligent Transportation Systems
<input type="checkbox"/>	19. Acquisition or renewal of scenic, conservation, habitat, or other land preservation easements where no construction will occur
<input type="checkbox"/>	20. Rehabilitation or replacement of existing storm drains.
<input type="checkbox"/>	21. Maintenance of stormwater treatment features and related infrastructure

Please describe how this project is applicable under Appendix B of the Programmatic Agreement.


EMMIT review (3/20/2020) did not disclose any documented historic districts, areas, or individual properties in or in the immediate vicinity of the project area. NHDHR concurred on 1/4/2021 with the HBI determination of a Not Eligible for the NR status for Bridge 085/104 which carries NH RT 18 over Beaver Brook (FRC0015) EMMIT review (3/20/2020) did not disclose any documented archaeological sites in or in the immediate vicinity of the project area. The project area has a low potential archaeological sensitivity as the proposed actions include: bridge deck replacement with minor widening for traffic control, toewall installation and reset of stone to address erosion and scour. These are likely to be limited to already disturbed locations.

Please submit this Certification Form along with the Transportation RPR, including photographs, USGS maps, design plans and as-built plans, if available, for review. Note: The RPR can be waived for in-house projects, please consult Cultural Resources Program Staff.

Coordination Efforts:

Has an RPR been submitted to NHDOT for this project?	Not Applicable	NHDHR R&C # assigned?	Click here to enter text.
Please identify public outreach effort contacts; method of outreach and date:	Click here to enter text.		

Finding: (To be filled out by NHDOT Cultural Resources Staff)

<input checked="" type="checkbox"/>	No Potential to Cause Effects	<input type="checkbox"/>	No Historic Properties Affected
This finding serves as the Section 106 Memorandum of Effect. No further coordination is necessary.			
<input type="checkbox"/>	This project does <i>not</i> comply with Appendix B. Review will continue under Stipulation VII of the Programmatic Agreement. Please contact NHDOT Cultural Resources Staff to determine next steps.		
NHDOT comments:			
		3/5/2021	
_____ NHDOT Cultural Resources Staff		_____ Date	

Coordination of the Section 106 process should begin as early as possible in the planning phase of the project (undertaking) so as not to cause a delay.

Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding

Appendix B Certification – Activities with Minimal Potential to Cause Effects

Project sponsors should not predetermine a Section 106 finding under the assumption a project is limited to the activities listed in Appendix B until this form is signed by the NHDOT Bureau of Environment Cultural Resources Program staff.

Every project shall be coordinated with, and reviewed by the NHDOT-BOE Cultural Resources Program in accordance with the *Programmatic Agreement Among the Federal Highway Administration, the New Hampshire State Historic Preservation Office, the Army Corps of Engineers, New England District, the Advisory Council on Historic Preservation, and the New Hampshire Department of Transportation Regarding the Federal Aid Highway Program in New Hampshire*. In accordance with the Advisory Council's regulations, we will continue to consult, as appropriate, as this project proceeds.

NHDOT and the State Historic Preservation Office may use provisions of the Programmatic Agreement to address the applicable requirements of NH RSA 227-C:9 in the location, identification, evaluation and management of historic resources, for projects funded by State funds.

If any portion of the project is not entirely limited to any one or a combination of the activities specified in Appendix B (with, or without the inclusion of any activities listed in Appendix A), please continue discussions with NHDOT Cultural Resources staff.

This No Potential to Cause Effect or No Historic Properties Affected project determination is your Section 106 finding, as defined in the Programmatic Agreement.

Should project plans change, please inform the NHDOT Cultural Resources staff in accordance with Stipulation VII of the Programmatic Agreement.

Determination of Eligibility (DOE)

Inventory #: FRC0015

DOE Review Date: 1/4/2021

Date Received: 1/4/2021

Final DOE Approved:

Property Name: Franconia Bridge 085/104

Area:

Address: RT 18 over Beaver Brook

Town: Franconia

County: Grafton

Reviewed For: R&C

DOE Program(s):

DOT Department of Transportation

Determination of Eligibility:

Not eligible for NR			Integrity: No	Level:	
Criteria:	A: No	B: No	C: No	D:	E:

Areas of Significance(s):

Does Not Apply

Period of Significance:

Boundary:

super and substructure of bridge

Statement of Significance:

Franconia 085/104 was built in 1927 by the New Hampshire State Highway Department. The project was funded through a special state fund for repairing and replacing bridges damaged during the Flood of November 1927. This was the department's first statewide response to a natural disaster and although relatively limited in scope, compared to later responses to the floods of 1936 and 1938 (and later), set a precedent for emergency relief efforts. This crossing appears on the 1860 Walling atlas map and on the 1892 Hurd atlas map, indicating the bridge replaced prior structure(s). The road was incorporated into a state trunk line in 1915, a segment from Franconia Notch to Littleton that eventually became known as NH Route 18, and important in the development of automobile tourism to the White Mountain region. The bridge was significantly altered circa 1980, resulting in a loss of integrity of design. The bridge now has the character of a late-20th-century bridge. The bridge is an altered example of a short-span slab bridge with no technological details or features to distinguish it from the population of bridges of similar age and type. The loss of integrity has impaired its ability to convey significance under Criterion A for transportation or Criterion C for engineering. Similarly, more complete bridges and bridge types better represent the historic association with the effort following the Flood of 1927 and early automobile tourism in the region (HBI 2019) DHR concurs

Comments:

See 2020 Historic Bridge Inventory for additional information.

Follow Up:

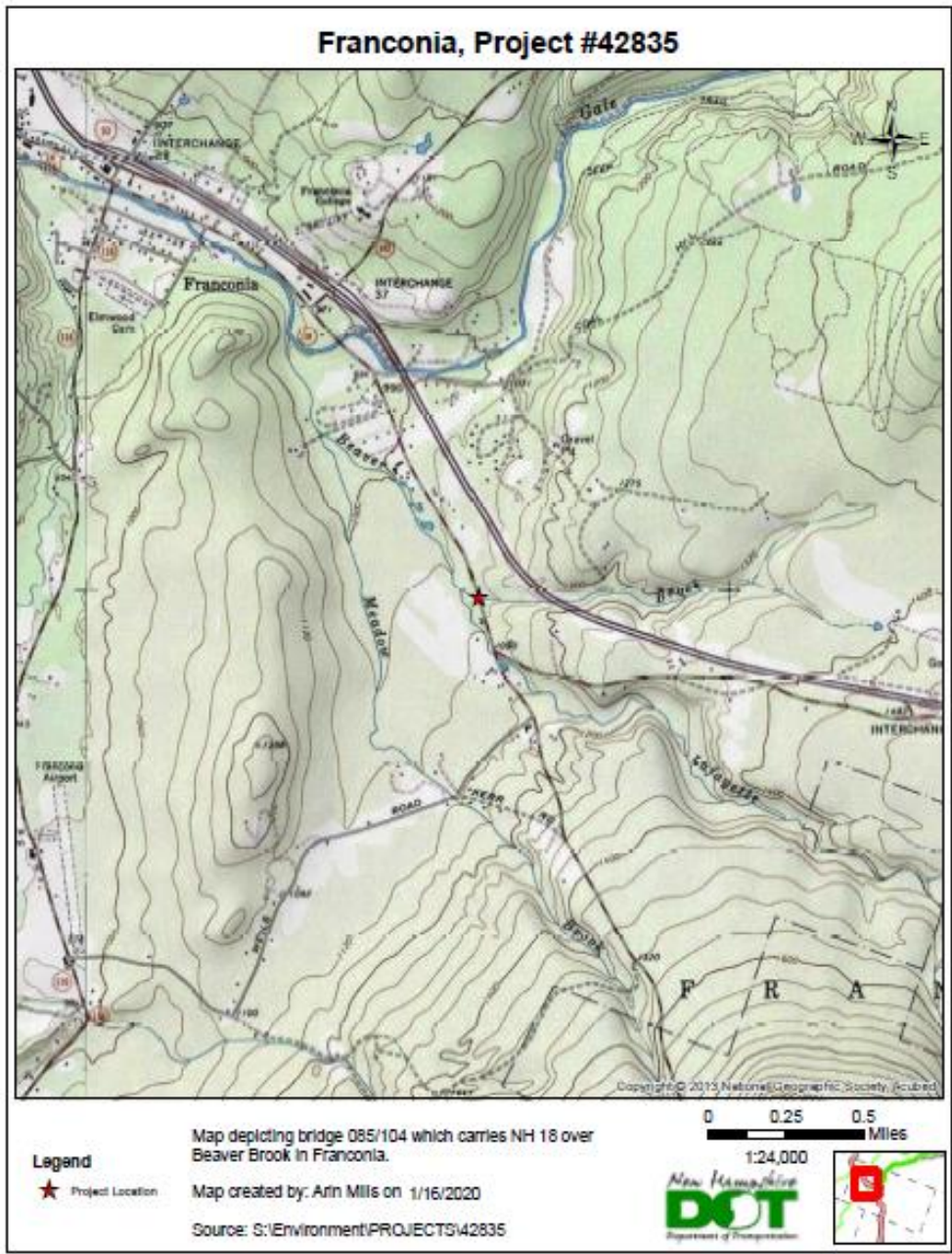
Notify appropriate parties

NHDOT Cultural Resources Review

For the purpose of compliance with regulations of the National Historic Preservation Act, the Advisory Council on Historic Preservation's *Procedures for the Protection of Historic Properties* (36 CFR 800), the US Army Corps of Engineers' *Appendix C*, and/or state regulation RSA 227-C:9, *Directive for Cooperation in the Protection of Historic Resources*, the NHDOT Cultural Resources Program has reviewed the proposed project for potential impacts to historic properties.

Proposed Project:

Bridge maintenance activities on bridge #085/104 which carries NH Route 18 over Beaver Brook. Activities will include deck replacement with minor widening for traffic control, toewall installation and reset of stone to address erosion and scour.





Above Ground Review

Known/approximate age of structure:
 Bridge #085/104 which carries NH Route 18 over Beaver Brook (FRC0015)

NHDHR concurred on 1/4/2021 with the HBI determination of Not Eligible for the NR


No Potential to Cause Effect/No Concerns

EMMIT review (3/20/2020) did not disclose any documented historic districts, areas, or individual properties in or in the immediate vicinity of the project area.

Concerns:

Below Ground Review
Recorded Archaeological site: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Nearest Recorded Archaeological Site Name & Number: 27-GR-0293 (no name assigned) <input type="checkbox"/> Pre-Contact <input checked="" type="checkbox"/> Post-Contact
Distance from Project Area: 9853.40 ft northwest of project area
<input checked="" type="checkbox"/> No Potential to Cause Effect/No Concerns EMMIT review (3/20/2020) did not disclose any documented archaeological sites in or in the immediate vicinity of the project area. The project area has a low potential archaeological sensitivity as the proposed actions include: bridge deck replacement with minor widening for traffic control, toewall installation and reset of stone to address erosion and scour. These are likely to be limited to already disturbed locations.
<input type="checkbox"/> Concerns:

Reviewed by:



3/5/2021

NHDOT Cultural Resources Staff_____
Date:



**US Army Corps
of Engineers**®
New England District

**New Hampshire General Permits (GPs)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)**

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to “work” include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See GC 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*	X	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X	
2.2 Are there proposed impacts to SAS, special wetlands. Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at https://www2.des.state.nh.us/nhb_datacheck/ . The book Natural Community Systems of New Hampshire also contains specific information about the natural communities found in NH.		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	X	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		X
2.5 The overall project site is more than 40 acres?		X
2.6 What is the area of the previously filled wetlands?		
2.7 What is the area of the proposed fill in wetlands?		
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?		
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: https://www2.des.state.nh.us/nhb_datacheck/ USFWS IPAC website: https://ecos.fws.gov/ipac/location/index		X

3.2 Would work occur in any area identified as either “Highest Ranked Habitat in N.H.” or “Highest Ranked Habitat in Ecological Region”? (These areas are colored magenta and green, respectively, on NH Fish and Game’s map, “2010 Highest Ranked Wildlife Habitat by Ecological Condition.”) Map information can be found at: <ul style="list-style-type: none"> • PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html. 		X
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the GC 21?		
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?	X	
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		X
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 11 GC 8(d) of the GP document**	X	

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.



Photo 1: Looking north along NH18



Photo 2: Looking south along NH18



Photo 3: Looking west (upstream) from NH 18



Photo 4: Looking east (downstream) at inlet



Photo 5: Looking east (downstream) from NH 18



Photo 6: Looking west (upstream) at outlet



Photo 7: Looking west (upstream)



Photo 8: Looking east (downstream)

CONSTRUCTION SEQUENCE

Work is anticipated to take approximately 3.5 months to complete and is currently proposed to be done during the late fall, starting this year. Work will be phased, one half of the deck at a time.

1. Erosion control barrier will be installed prior at access and staging points to earth disturbing activities and sedimentation basin installed for water pumped out of the work area during construction activities.
2. Sandbag cofferdams will be installed along the south abutment to repair the existing concrete toe wall in kind. Water within the work areas behind cofferdams will be pumped to a dewatering basin to allow for sediment to settle out prior to the water being introduced back into the system. Cofferdam will be removed when this work is complete.
3. Traffic control will be implemented allowing one of traffic at a time over the bridge controlled by stop and yield signs.
4. Pipe staging will be installed to facilitate the deck work during a majority of the project schedule. Work is proposed to be done during the winter; therefore, it is anticipated that the work area will only pass low flows. The pipe staging will be set on the existing concrete invert and concrete toe walls.
5. The deck will be replaced in two phases and the tops of the wings adjusted to meet the new deck. Bridge rail and guardrail will be installed at all four corners.
6. Existing rip rap at the inlet northeast and south east corners will be reset and restacked using a gradation of stone. The footprint of the will not increase due to this work. Repair work will be done to the existing rip rap areas at the outlet northwest and southwest corners. Areas where rip rap is to be worked on will be done behind temporary perimeter barriers installed prior to the work. Temporary barriers used to separate these work areas will be removed after the water in these areas have had a chance to settle out.

Notes:

- A. Is the included Erosion Control Plans for additional details and the location of temporary erosion control measures.
- B. The Project will utilize BMP's from the Best Management Practices manual during all phases of construction.
- C. Dewatering System Details per Env-WT 903.03

The following information about the dewatering system proposed to be used:

- (1) Estimated maximum flow anticipated during construction;

During the proposed time of construction, we anticipate a maximum flow of 197 CFS based on the inlet conditions.

- (2) The location, height, and width of the diversion dam;

Sandbag cofferdams will be located as show on the plans during the toe wall repair and rip rap repair work. We anticipate a maximum height of 3' and maximum width of 4'.

- (3) The location and capacity of each sump; and

Dewatering will occur during the toe wall repair at the south abutment. Potential sumps will be located just inside the work area between the abutment and the sandbag cofferdams. They will be large enough to accommodate up to a 3" pump per sump discharging to the detention basins.

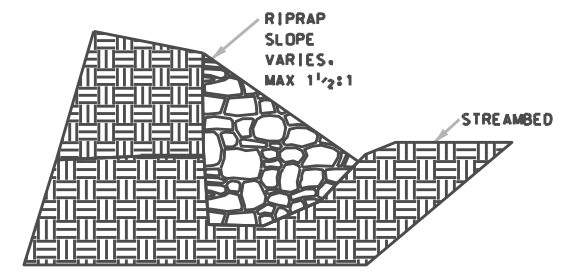
- (4) Backwater prevention method;

Sandbag cofferdams will be completely surround the work area, parallel with the abutment to prevent backwater from entering the work area.

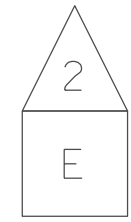
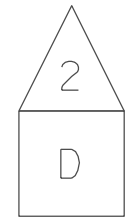
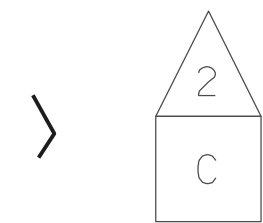
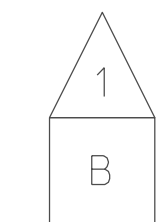
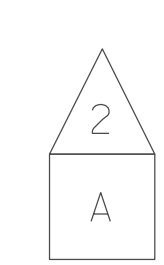
LEGEND

TYPE OF WETLAND IMPACT	SHADING/HATCHING
NEW HAMPSHIRE WETLANDS BUREAU (PERMANENT NON-WETLAND)	
NEW HAMPSHIRE WETLANDS BUREAU & ARMY CORP OF ENGINEERS (PERMANENT WETLAND)	
TEMPORARY IMPACTS	

- WETLAND DESIGNATION NUMBER
- WETLAND IMPACT LOCATION



SECTION A-A
NOT TO SCALE



PRIMARY ACCESS POINT

NH RTE. 18
TOWARDS RTE. 142

EXISTING RIPRAP

B
O
H
T
O
B

EXISTING
CONCRETE INVERT

RESTACK
EXISTING RIPRAP

EXISTING RIPRAP

REPAIR IN KIND
EXISTING RIPRAP

M
H
O
B
T
O
B

EXISTING RIPRAP

REPAIR EXISTING
CONCRETE TOEWALL
ALONG SOUTH ABUTMENT

NH RTE. 18
TOWARDS RTE. 141

RESTACK
EXISTING RIPRAP

BEAVER
BROOK
FLOW

B
O
H
T
O
B

EXISTING RIPRAP

- NOTES:
- 1) NHDOT ROW EXTENDS 33' EACH SIDE OF THE CENTERLINE OF NH RTE.18. ALL WORK MUST BE PERFORMED WITHIN THIS ROW
 - 2) WETLANDS DELINEATED BY SARAH LARGE ON 10/23/2019



SCALE IN FEET

WETLAND IMPACTS
SCALE: 1" = 5'-0"

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE									
TOWN	FRANCONIA	BRIDGE NO.	085/104	STATE PROJECT	42835				
LOCATION	RTE. 18 OVER BLACK BROOK								
WETLAND IMPACTS									
DESIGNED	TMB	8/2021	CHECKED	ADH	8/2021	BRIDGE SHEET	1 OF 3		
DRAWN	TMB	9/2021	CHECKED	ADH	9/2021	FILE NUMBER	FRANCONIA 085/104		
ISSUE DATE		FISCAL YEAR	2022	CREW	02	SHEET NO.	1		
REV. DATE						TOTAL SHEETS	3		

SHEET SCALE
AS NOTED

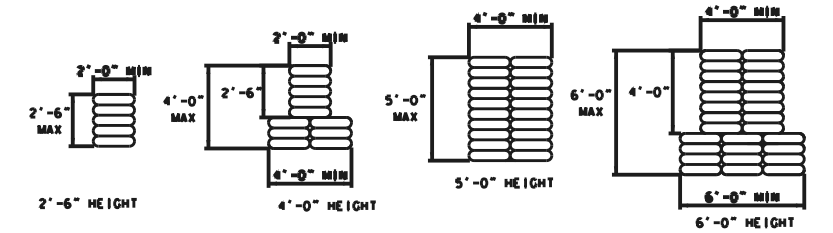
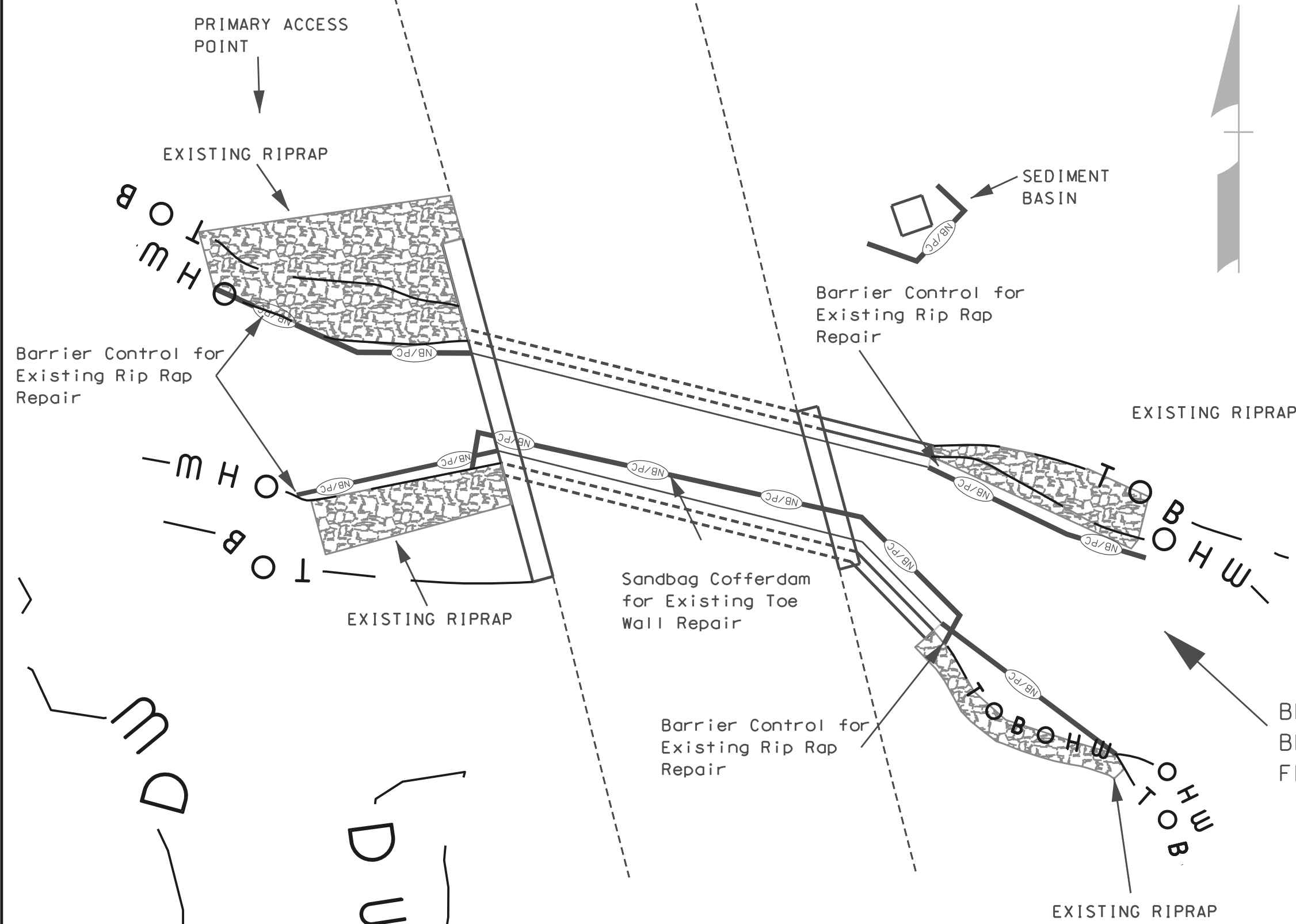
WETLAND IMPACT SUMMARY

WETLAND NUMBER	WETLAND CLASSIFICATION	LOCATION	AREA IMPACTS						LINEAR STREAM IMPACTS FOR MITIGATION				
			PERMANENT						PERMANENT				
			N.H.W.B. (NON WETLAND)		N.H.W.B. & A.C.O.E. (WETLAND)		TEMPORARY		BANK LEFT	BANK RIGHT	CHANNEL		
			SF	LF	SF	LF	SF	LF	LF	LF	LF		
2	BANK	A						101	26				
1	R3UB12	B						1142	88				
2	BANK	C						162	22				
2	BANK	D						34	14				
2	BANK	E						96	28				
TOTAL			0	0	0	0		1535	178	0	0	0	
PERMANENT IMPACTS:									0 SF				
TEMPORARY IMPACTS:									1535 SF				
TOTAL IMPACTS:									1535 SF				

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE											
TOWN	FRANCONIA	BRIDGE NO.	085/104	STATE PROJECT	42835						
LOCATION	RTE. 18 OVER BLACK BROOK										
WETLAND IMPACT TABLE											
DESIGNED	TMB	8/2021	CHECKED	ADH	8/2021	BY	DATE	BY	DATE	BRIDGE SHEET	
DRAWN	TMB	9/2021	CHECKED	ADH	9/2021					2 OF 3	
QUANTITIES			CHECKED							FILE NUMBER	
ISSUE DATE			REV. DATE			FISCAL YEAR	2022	CREW	02	SHEET NO.	2
AS NOTED											TOTAL SHEETS
										3	



EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL



COFFERDAM DETAILS
NOT TO SCALE

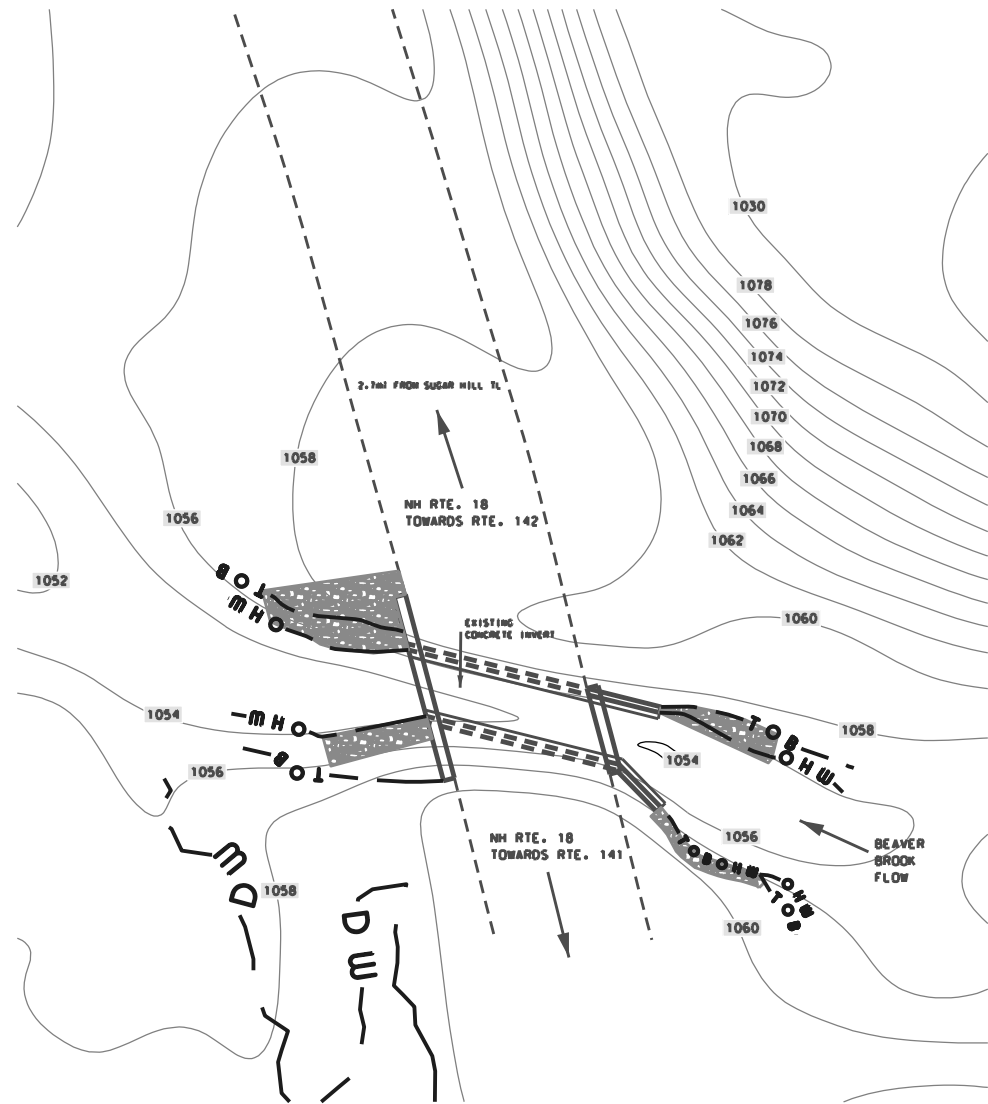
- NOTES: (SEE CONSTRUCTION SEQUENCE FOR ADDITIONAL DETAILS)
- 1) WORK WILL BE COMPLETED DURING LOW-FLOW CONDITIONS
 - 2) DOUBLE BMPS WILL BE USED FOR PERIMETER CONTROLS
 - 3) SANDBAG COFFERDAMS WILL BE BUILT PER TYPICAL DETAILS
 - 4) EXISTING AND PROPOSED 2 FOOT CONTOURS REMAIN THE SAME AND HAVE BEEN OMITTED FROM PLANS FOR CLARITY



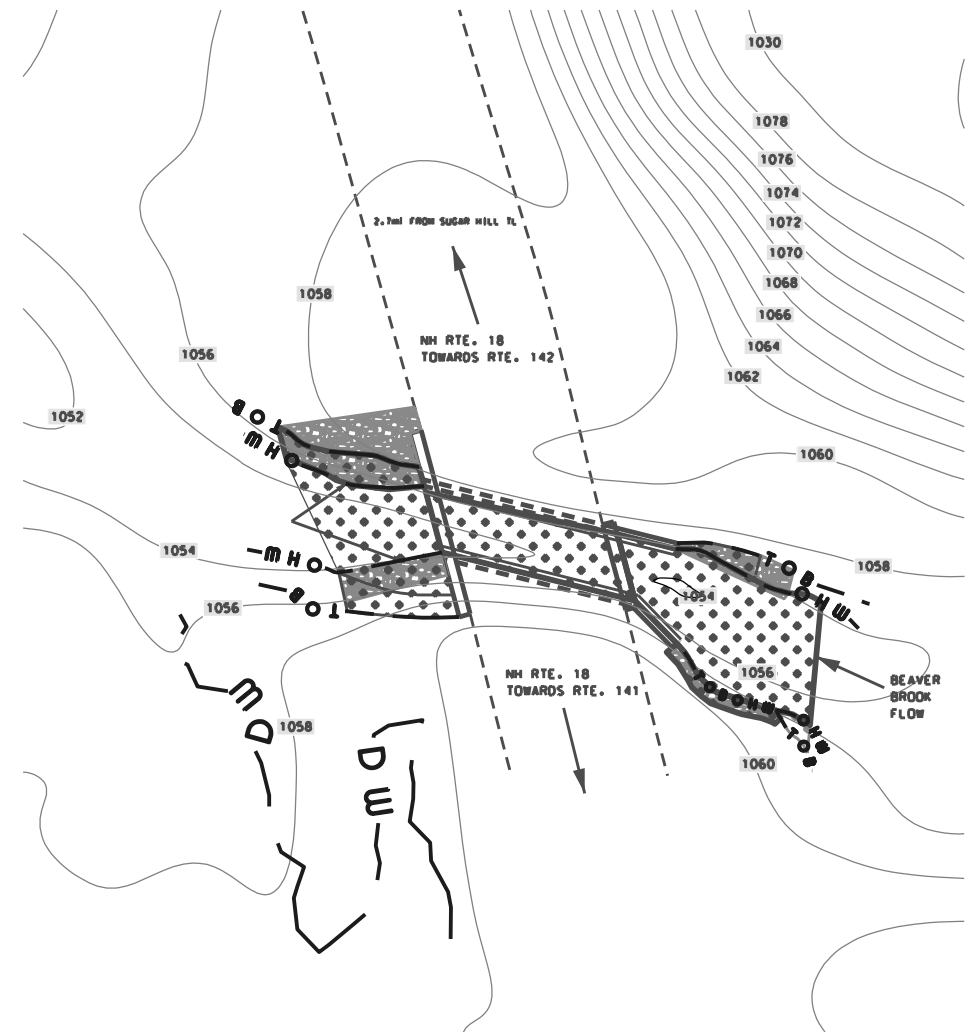
EROSION CONTROL PLAN

SCALE: 1" = 5'-0"

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE					
TOWN	FRANCONIA	BRIDGE NO.	085/104	STATE PROJECT	42835
LOCATION RTE. 18 OVER BLACK BROOK					
EROSION CONTROL PLAN					BRIDGE SHEET
					3 OF 3
DESIGNED	TMB	8/2021	CHECKED	ADH	8/2021
DRAWN	TMB	9/2021	CHECKED	ADH	9/2021
QUANTITIES					FILE NUMBER
ISSUE DATE					FRANCONIA
REV. DATE					085/104
SHEET SCALE	AS NOTED	ISSUE DATE	FISCAL YEAR	CREW	SHEET NO.
			2022	02	3
					TOTAL SHEETS
					3



BEFORE CONSTRUCTION



AFTER CONSTRUCTION

2 FOOT CONTOUR MAP

SCALE: 1/16" = 1'

STATE OF NEW HAMPSHIRE							
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE							
TOWN FRANCONIA		BRIDGE NO. 085/104		STATE PROJECT 42835			
LOCATION RTE. 18 OVER BLACK BROOK							
2 FOOT CONTOUR MAP							
REVISIONS AFTER PROPOSAL				BY		DATE	
		DESIGNED		JPJ		9/21	
		DRAWN		JPJ		9/21	
QUANTITIES				CHECKED			
SHEET SCALE		ISSUE DATE		FISCAL YEAR		CREW	
AS NOTED		REV. DATE		2022		02	
				SHEET NO.		TOTAL SHEETS	
				2		4	

U.S. Department of
Homeland Security

United States
Coast Guard



Commander
First Coast Guard District

One South Street
Battery Park Building
New York, NY 10004-1466
Staff Symbol: dpb
Phone: (212) 514-4330
Email: Dale.K.Lewis2@uscg.mil

April 1, 2021

NH Department of Transportation
Bureau of Environment
Attn: Ms. Arin Mills
Environmental Manager
7 Hazen Drive
Concord, NH 03302
Arin.j.mills@dot.nh.gov

via e-mail

Re: NV-1085: NH Route 18 over Beaver Brook

Dear Ms. Mills,

This is in response to your letter dated April 1, 2021 and corresponding information requesting whether the Coast Guard will require a permit for the referenced bridge project. We have examined the proposed project area with regard to its status as a navigable water of the United States for purposes of Coast Guard bridge jurisdiction.

Our examination indicates that there is no sufficient factual support for concluding that the Beaver Brook, Franconia, NH, at the project location, has current or historic navigation occurring on this water of the United States. Since this is the case, a Coast Guard bridge permit or exemption will not be required for the referenced bridge project.

If you have any questions feel free to contact this office at the number above.

Sincerely,

D. A. Fisher
Bridge Program Manager
U.S. Coast Guard
By direction

E-Copy: 1) USCG Sector Northern New England, Waterways
2) USACE, New England Division, Navigation Section

Franconia, Project #42835



Legend

Stream Centerlines

FCode

- Perennial Stream
- - - Intermittent Stream
- Parcels - polygons

Map depicting bridge 085/104 which carries NH 18 over Beaver Brook in Franconia.

Map created by: Arin Mills on 1/16/2020

Source: S:\Environment\PROJECTS\42835

0 250 500 Feet

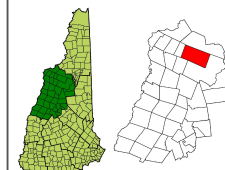
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New Hampshire
DOT
Department of Transportation

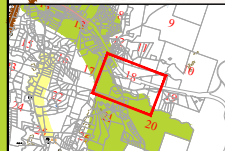


**Town of
 FRANCONIA**
 Grafton County
 New Hampshire

LEGEND	
Map	12
Lot-Sub	20 AcS
Acres	200'
S-Survey C-Calculated	
Dimensions (Feet)	
Trail	---
ROW	---
Utility Line	---
Wetlands	---
Water Features	---
Conservation Easements	---
Exempt Properties	---
Town Owned Land	---
Structures	---



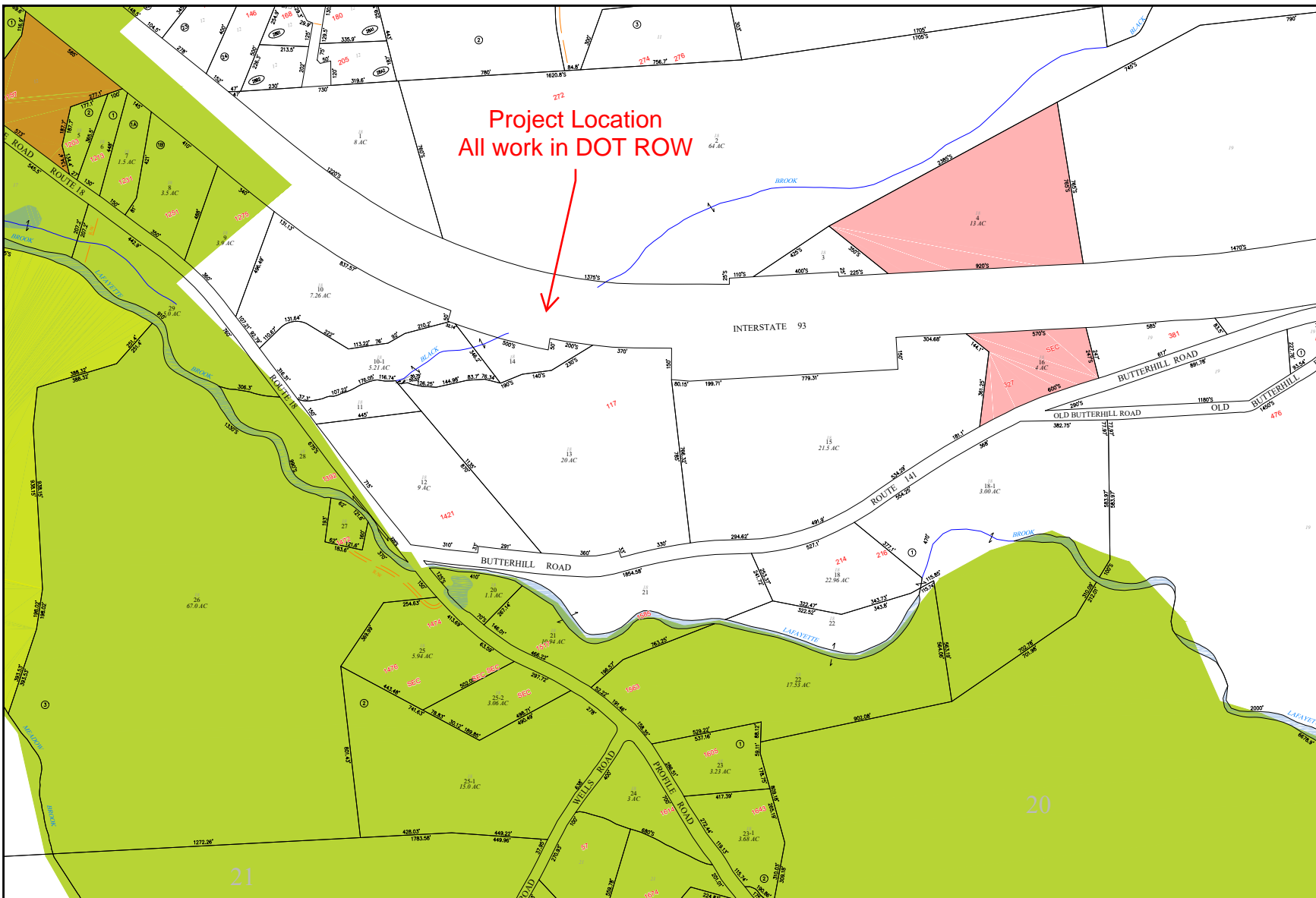
MAP INDEX



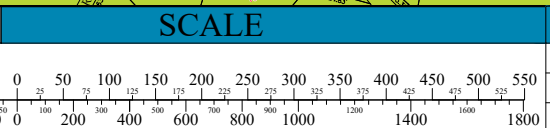
MAP NUMBER

18

Project Location
All work in DOT ROW



THE HORIZONTAL DATUM IS THE NEW HAMPSHIRE STATE
 PLANE COORDINATE SYSTEM, NAD 83.
 FOR ASSESSMENT PURPOSES
 NOT TO BE USED FOR CONVEYANCES
 REVISED APRIL 1, 2020



MAP NOTES

Franconia 085/104, DOT Project #42835

September 17, 2021

A letter from the NH Department of Transportation was sent to the Town of Franconia, to include the Conservation Commission, on April 22, 2021. To date, no correspondence relating to wetlands impacts has been received from the Conservation Commission.

Arin Mills
Bureau of Environment
NHDOT