


STATE OF NEW HAMPSHIRE
INTER-DEPARTMENT COMMUNICATION

DATE: January 14, 2021

FROM:  Andrew O'Sullivan
Wetlands Program Manager

AT (OFFICE): Department of
Transportation

SUBJECT Dredge & Fill Application
Goffstown, 42840

Bureau of
Environment

TO Karl Benedict, Public Works Permitting Officer
New Hampshire Wetlands Bureau
29 Hazen Drive, P.O. Box 95
Concord, NH 03302-0095

Forwarded herewith is the application package prepared by NH DOT Bureau of Bridge Maintenance for the subject major impact project. This project is classified as major Env-Wt 903.01(g)- repair and rehabilitation of an existing legal Tier 3 structure. The project is located along NH Route 114 in the Town of Goffstown, NH. The proposed work consists of the installation of a reinforced concrete invert in the bottom of the existing corrugated metal culvert, installation of 2' deep cut off/curtain wall at both inlet and outlet, clearing of brush from the wing walls and repair of existing mortar rubble masonry (MRM) wings.

This project was reviewed at the Natural Resource Agency Coordination Meeting on June 17, 2020. A copy of the minutes has been included with this application package. A copy of this application and plans can be accessed on the Departments website via the following link: <http://www.nh.gov/dot/org/projectdevelopment/environment/units/program-management/wetland-applications.htm>.

NHDOT anticipates and request that this project be reviewed and permitted by the Army Corp of Engineers through the State Programmatic General Permit process. A copy of the application has been sent to the Army Corp of Engineers.

Mitigation was determined to not be required as the proposed work was determined to be self-mitigating.

The lead people to contact for this project are Tim Boodey, Bureau of Bridge Maintenance (271-3668 or Timothy.Boodey@dot.nh.gov) or Andrew O'Sullivan, Wetlands Program Manager, Bureau of Environment (271-3226 or Andrew.O'Sullivan@dot.nh.gov).

A payment voucher has been processed for this application (Voucher #632471) in the amount of \$400.00.

If and when this application meets with the approval of the Bureau, please send the permit directly to Andrew O'Sullivan, Wetlands Program Manager, Bureau of Environment.

AMO:amo

cc:

BOE Original

Town of Goffstown (4 copies via certified mail)

Piscataquag River LAC (1 copy via certified mail)

David Trubey, NH Division of Historic Resources (Cultural Review Within)

Carol Henderson, NH Fish & Game (via electronic notification)

Maria Tur, US Fish & Wildlife (via electronic notification)

Beth Alafat & Jeanie Brochi, US Environmental Protection Agency (via electronic notification)

Michael Hicks & Rick Kristoff, US Army Corp of Engineers (via electronic notification)

Kevin Nyhan, BOE (via electronic notification)

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**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

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

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

SECTION 1 - CONCURRENT PROCESSING OF RELATED SHORELAND/WETLANDS PERMIT APPLICATIONS (Env-Wt 313.05)

If the applicant is not requesting concurrent processing, please proceed to Section 2.

Is the proposed project eligible for the optional concurrent processing of related shoreland/wetlands permit applications (Env-Wt 313.05(d))? If the project is not eligible, proceed to Section 2 (the files will not be processed concurrently). Yes No

By signing this form and initialing this section, the applicant is requesting concurrent processing of related shoreland/wetlands permit applications and understands that concurrently filing the applications with a request to process the applications together constitutes:

- A waiver by the applicant of the shorter time frame, if application processing timelines are different for each permit program under the 2 statutes and their implementing rules; and Initials:
- An agreement by the applicant that any request for additional information by the department under either or both statutes shall affect the review timeframe of both applications being processed together. Initials:

SECTION 2 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05)

Please use the Wetland Permit Planning Tool (WPPT) or any other database or source to assist in identifying key features such as: priority resource areas (PRA), protected species or habitat, coastal area, or designated river, or designated prime wetlands.

Step 1: A certified wetland scientist must delineate and classify all wetlands and identify the predominant resource functions of each wetland, unless the exceptions listed in Env-Wt 306.05(a)(1) are met (Env-Wt 306.05(a)(1)).

Step 2: Determine whether the subject property is or contains a PRA by answering the following questions (Env-Wt 306.05(a)(2)):

- 1. Does the property contain any documented occurrences of protected species or habitat for such species? Please use the Natural Heritage Bureau (NHB) DataCheck Tool to make this determination. Yes No
- 2. Is the property a bog? Please use the WPPT "Peatland" layer (under the PRA module) for general location of bogs or any other database or source. Yes No
- 3. Is the property a floodplain wetland contiguous to a tier 3 or higher watercourse? Please use the WPPT "Floodplain Wetlands Adjacent to Tier 3 Streams" layer (under PRA module) or any other database or source. Yes No
- 4. Is the property a designated prime wetland or a duly-established 100-foot buffer? Please use the WPPT "Prime Wetlands" layers (under PRA module) or any other database or source. Yes No
- 5. Is the property a sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? Please use the WPPT "Coastal" layers module and PRA module or any other database or source. Yes No

Step 3: For projects that are subject to Env-Wt 600, please attach the Coastal Functional Assessment (Env-Wt 603.04) and Vulnerability Assessment (Env-Wt 603.05) and conduct the data screening required by Env-Wt 603.03.

Step 4: Determine whether the following apply to the subject property (Env-Wt 306.05(a)(4); RSA 482-A:3, I(d)(2)):

- 1. Is the property within a Local River Management Advisory Committee (LAC) jurisdiction?
 - If yes, please provide the following information: Yes No
 - The project is within ¼ mile of: Piscataquog River
 - A copy of the application was sent to the LAC on Month: *01* Day: *14* Year: *2021*
 - N/A (Env-Wt 311.01(e))
- 2. Is the property within or contains any areas that are subject to time of year restrictions under Env-Wt 307? Yes No

Step 5: For stream crossing projects: what is the size of the watershed (Env-Wt 306.05(a)(5))? 4,174 ac

N/A

Step 6: For dredge projects: is the subject property contaminated (Env-Wt 306.05(a)(6))? Yes No

N/A

Step 7: Does the project have the potential to impact any of the following (Env-Wt 306.05(a)(7)):

N/A

- 1. Impaired waters? Yes No
- 2. Class A waters? Yes No
- 3. Outstanding resource waters? Yes No

SECTION 3 - 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" in the space provided below.

Work will include the installation of a reinforced concrete invert to the existing corrugated metal culvert, installation of a 2' cut off wall at both the inlet and outlet, clearing brush from the wing walls (no grubbing) and repair to the existing Mortar Ruble Masonry (MRM) wings. Temporary impacts are for access to the work area, both within the Brook and banks. Permanent impacts are for installation of cut off wall and wing wall repair. The purpose of the project is to repair deficiencies to the existing structure to maintain safety for the traveling public and extend the life of the existing structure.

SECTION 4 - PROJECT LOCATION			
Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.			
ADDRESS: NH 114 over Gorham Pond Brook		TOWN/CITY: Goffstown	
TAX MAP/BLOCK/LOT/UNIT: DOT ROW			
UNITED STATES GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Gorham Pond Brook <input type="checkbox"/> N/A			
LATITUDE (D.ddddd): 43.02462° North (Optional)		LONGITUDE (D.ddddd): -71.62909° West (Optional)	
SECTION 5 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 311.04(a))			
If the applicant is a trust or a company, then the name of the trust or company should be written as the applicant's name.			
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:	PHONE: 271-3667
ELECTRONIC COMMUNICATION: By initialing here: <u>TMB</u> , I hereby authorize NHDES to communicate all matters relative to this application electronically.			
SECTION 6 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))			
<input checked="" type="checkbox"/> N/A			
LAST NAME, FIRST NAME, M.I.:			
COMPANY NAME:		MAILING ADDRESS:	
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL ADDRESS:	FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically.			
SECTION 7 - PROPERTY OWNER INFORMATION (IF DIFFERENT THAN APPLICANT) (Env-Wt 311.04(b))			
If the owner is a trust or a company, then the name of the trust or company should be written as the owner's name.			
<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 <u>AMO</u> , I hereby authorize NHDES to communicate all matters relative to this application electronically.			

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

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

www.des.nh.gov

SECTION 8 - 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 (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters).

Env-Wt 400: A wetlands delineation was done by Sarah Large (NHDOT) on 10/25/2019. Impacts are to Riverine, Lower Perennial, Unconsolidated Bottom, Cobble Gravel and Sand (R2UP12) and bank. Impacts are < 3,000 sf and have a linear impact of 69 linear feet, no impact a PRA or other protected resource. The project is classified as a minor impact for linear impacts to a perennial stream.

Env-Wt 500: 527 (Public Highways). The project is a preservation effort to extend the life of the existing bridge and maintain safety for the traveling public

Env-Wt 600: N/A, project not in tidal waters

Env-Wt 700: N/A, project not within a designated prime wetland

Env-Wt 900: Tier 3 crossing Env-Wt 904.05. Installation of a concrete invert lining under 904.09 for repair to an existing structure in a Tier 3 stream.

SECTION 9 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)). If all impacts cannot be avoided, a functional assessment is required for minor and major projects (Env-Wt 311.03(b)(10)). Any project with unavoidable jurisdictional impacts must then be minimized as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization](#). Please refer to the application checklist to ensure that you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable).

SECTION 10 - 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: 07 Day: 15 Year: 2020

N/A - Mitigation is not required

SECTION 11 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c).

Have you submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent impacts that will remain after avoidance and minimization demonstration?

Yes No

N/A - Mitigation is not required

SECTION 12 - 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 required permitting).

For intermittent streams, the linear footage of impact is measured along the thread of the channel.

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 SF / LF		TEMPORARY SF / LF	
Forested Wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Scrub-shrub Wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Emergent Wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Wet Meadow		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Intermittent Stream	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Perennial Stream or River	16 / 1	<input type="checkbox"/> ATF	335 / 20	<input type="checkbox"/> ATF
Lake / Pond	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Bank - Intermittent Stream	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Bank - Perennial Stream / River	11 / 4	<input type="checkbox"/> ATF	468 / 45	<input type="checkbox"/> ATF
Bank/shoreline - Lake / Pond	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Tidal Waters	/	<input type="checkbox"/> ATF	/	<input type="checkbox"/> ATF
Tidal Marsh		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Sand Dune		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Designated Prime Wetland		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Duly-established 100-foot Prime Wetland Buffer		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Previously-developed TBZ		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - Lake / Pond		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - River		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Docking - Tidal Water		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
Vernal Pool		<input type="checkbox"/> ATF		<input type="checkbox"/> ATF
TOTAL	27 / 5		803 / 65	

SECTION 13 - 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):	830 SF	× \$0.40 =	\$ 332.00
Seasonal docking structure:	SF	× \$2.00 =	\$
Permanent docking structure:	SF	× \$4.00 =	\$
Projects proposing shoreline structures (including docks) add		\$400 =	\$
Total =			\$ 332.00

The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 400.00

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

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SECTION 14 - PROJECT CLASSIFICATION (Env-Wt 306.05)

Indicate the project classification.

- | | | |
|---|---|---|
| <input type="checkbox"/> Minimum Impact Project | <input checked="" type="checkbox"/> Minor Project | <input checked="" type="checkbox"/> Major Project |
|---|---|---|

SECTION 15 - ALL APPLICABLE CONDITIONS IN Env-Wt 307 HAVE BEEN MET (Env-Wt 311.04(j); Env-Wt 313.01(a)(2)).

Check all conditions applicable to your project below. Please ensure that your plan design and access, construction sequence, and timing appropriately meet applicable conditions below:

<input checked="" type="checkbox"/> Env-Wt 307.02 US Army Corps of Engineers (USACE) Conditions	<input checked="" type="checkbox"/> Env-Wt 307.11 Filling Activity Conditions
<input checked="" type="checkbox"/> Env-Wt 307.03 Protection of Water Quality Required	<input checked="" type="checkbox"/> Env-Wt 307.12 Restoring Temporary Impacts: Site Stabilization
<input checked="" type="checkbox"/> Env-Wt 307.04 Protection of Fisheries and Breeding Areas Required	<input type="checkbox"/> Env-Wt 307.13 Property Line Setbacks
<input checked="" type="checkbox"/> Env-Wt 307.05 Protection Against Invasive Species Required	<input type="checkbox"/> Env-Wt 307.14 Rock Removal
<input checked="" type="checkbox"/> Env-Wt 307.06 Protection of Rare, Threatened or Endangered Species and Critical Habitat	<input type="checkbox"/> Env-Wt 307.15 Use of Heavy Equipment in Wetlands
<input type="checkbox"/> Env-Wt 307.07 Consistency Required with Shoreland Water Quality Protection Act	<input checked="" type="checkbox"/> Env-Wt 307.16 Adherence to Approved Plans Required
<input type="checkbox"/> Env-Wt 307.08 Protection of Designated Prime Wetlands and Duly-Established 100-Foot Buffers	<input type="checkbox"/> Env-Wt 307.17 Unpermitted Activities
<input type="checkbox"/> Env-Wt 307.09 Shoreline Structures	<input type="checkbox"/> Env-Wt 307.18 Reports
<input checked="" type="checkbox"/> Env-Wt 307.10 Dredging Activity Conditions	

Provide an explanation as to methods, timing, and manner as to how your project will meet standard permit conditions required in Env-Wt 307 (Env-Wt 311.03(b)(7)):

Work is anticipated to take 5 months to complete, and proposed to be conducted in winter/spring. The concrete invert will be placed in two phases, with a clean water bypass to maintain flows during construction. A sandbag cofferdam will be installed to divert water into the bypass pipe, and will be maintained for a majority of the time while the work is completed. Work is proposed to be done during low flow, and therefore the bypass pipe will only pass low flows. The installation of the clean water bypass pipe will allow both aquatic organisms and fish to pass while construction is underway, and the pipe will be maintained only as long as needed to complete the work.

SECTION 16 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)		
Initial each box below to certify:		
Initials: <i>TMB</i>	To the best of the signer's knowledge and belief, all required notifications have been provided.	
Initials: <i>TMB</i>	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.	
Initials: <i>TMB</i>	The signer understands that: <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"> Deny the application. Revoke any approval that is granted based on the information. And 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 trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II. 	
Initials: <i>TMB</i>	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.	
SECTION 17 - REQUIRED SIGNATURE (Env-Wt 311.04(d); Env-Wt 311.11)		
SIGNATURE (OWNER): <i>Timothy Boodey</i>	PRINT NAME LEGIBLY: <i>Timothy Boodey</i>	DATE: <i>12/18/2020</i>
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER): _____	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE): _____	PRINT NAME LEGIBLY:	DATE:
SECTION 18 - 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: <i>NHDES Exempt</i>	PRINT NAME LEGIBLY:	
TOWN/CITY: <i>4 copies sent certified mail</i>	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. And
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 single, 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.

irm@des.nh.gov or (603) 271-2147
 NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
www.des.nh.gov

APPLICATION CHECKLIST

(Items identified with an asterisk (*) are required only for Minor and Major Projects)

- 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)).
- USACE "Appendix B, New Hampshire General Permits (GPs), Required Information and Corps Secondary Impacts Checklist" and its required attachments (Env-Wt 307.02).
- The results of actions required by Env-Wt 311.01 as part of an application preparation for a standard permit (Env-Wt 311.03(b)(3)).
- 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 as to 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 – Mitigation 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. And
 - b. All existing shoreline structures. And
 - (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 USGS map or updated data based on LiDAR at a scale of one inch equals 24,000 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)).
- For all coastal projects, include a copy of the recorded deed with book and page numbers for the property (Env-Wt 311.06(e)).

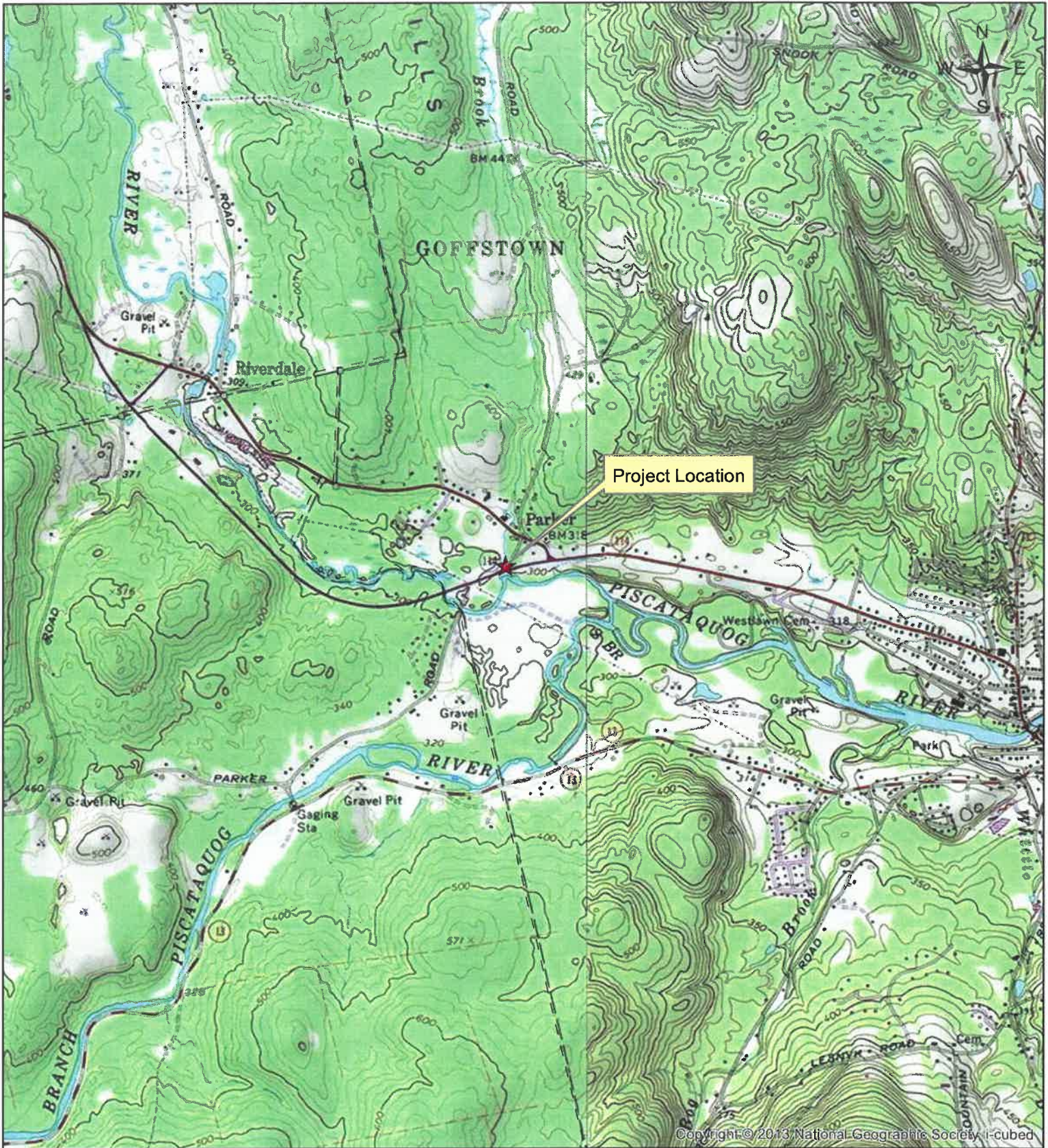
irm@des.nh.gov or (603) 271-2147

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

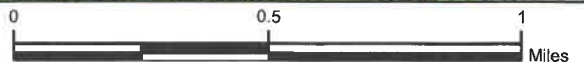
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- If the applicant is not the owner in fee of the subject property, documentation of the applicant's legal interest in the subject property, provided that for utility projects in a utility corridor, such documentation may comprise a list that:
 - (1) 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 and recommendations from NHB as well as any written follow-up communications such as additional memos or email communications with either NHB or New Hampshire Fish and Game Department (NHF&G) (Env-Wt 311.06(g)).
- 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)).
- For after-the-fact applications: information required by Env-Wt 311.12 (Env-Wt 311.12).
- [Coastal Resource Worksheet](#) for coastal projects as required under Env-Wt 600.
- Prime Wetlands information required under Env-Wt 700.
- [Stream Crossing Worksheet](#) required by Env-Wt 900.
- [Avoidance and Minimization Written Narrative](#), [Avoidance and Minimization Checklist](#), or your own avoidance and minimization narrative (Env-Wt 311.07).
- * [Attachment A: Minor and Major Projects](#) (Env-Wt 311.10).
- * [Functional Assessment](#) (Env-Wt 311.10).

Goffstown, Project #42840



Map depicting location of bridge 054/116 which carries NH 114 over Gorham Brook.



Legend

★ Project Location

Map created by: Arin Mills on 4/23/2020

Source: S:\Environment\PROJECTS\GOFFSTOWN\42840

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 LAST NAME, FIRST NAME, M.I.: NH Department of Transportation

Attachment A can be used to satisfy some of the additional requirements for minor and major projects regarding avoidance and minimization, as well as functional assessment.

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.

ALTERNATIVES CONSIDERED: BRIDGE REPLACEMENT, BRIDGE REPAIR AND NO ACTION. THE NO ACTION ALTERNATIVE WOULD NOT MEET THE PROJECT NEED TO ADDRESS EXISTING DEFICIENCIES IN THE STRUCTURE. IF NO ACTION IS TAKEN THE BRIDGE WOULD EVENTUALLY FALL INTO DISREPAIR AND RESULT IN UNSAFE USE FOR THE TRAVELING PUBLIC, AND EVENTUAL CLOSURE. BRIDGE REPLACEMENT IS NOT A COST EFFECTIVE MEASURE TO KEEP THE CROSSING IN SERVICE. IT HAS BEEN DETERMINED THE EXISTING INFRASTRUCTURE CAN BE REPAIRED FOR LESS THEN THE COST OF FULL REPLACEMENT, MAKING PRUDENT USE OF PUBLIC FUNDS. REPLACEMENT WOULD ALSO HAVE SIGNIFICANTLY GREATER IMPACT TO THE SURROUDING WETLAND AND NATURAL RESOURCES.

THE REFERED ALTERNATIVE IS TO REPAIR THE EXISTING INFRASTRUCTURE. THE INSTALLATION OF THE CONCRETE INVERT LINING WILL REPAIR EXISTING CORROSION ALONG THE BOTTOM OF THE PIPE, WHILE ALLOWING THE REMAINDER OF THE PIPE TO REMAIN IN PLACE. REPAIR TO THE WING WALLS WILL PREVENT FURTHER DAMAGE TO THE STRUCTURE. PROPOSED REPAIRS ARE WHAT IS REQUIRED TO KEEP THE STRUCTURE SAFE FOR THE TRAVELING PUBLIC AND CONDUCTED IN A MANNER WHICH IS LEAST IMPACTFUL TO THE AREAS UNDER THE DEPARTMENT'S JURISDICTION.

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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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, crustacea, shellfish and wildlife of significant value.

THERE ARE NO TIDAL OR FRESHWATER MARSHES WITHIN THE PROJECT AREA AND NO IMPACTS TO THESE RESOURCES ARE PROPOSED.

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 PROPOSED PROJECT WILL NOT RESULT IN A CHANGE TO THE EXISTING STREAM CONNECTIVITY, FLOOD STORAGE AND AQUATIC ORGANISM PASSAGE. THE ALLIGNMENT OF THE CROSSING WILL NOT BE CHANGED FROM EXISTING. A SANDBAG COFFERDAM WILL BE INSTALLED TO TEMPORARILY DIVERT THE STREAM DURING CONSTRUCTION. THE STREAM WILL BE DIVERED TO ONE SIDE WHILE WORK IS COMPLETED, ALLOWING FOR STREAM CONNECTIVITY TO BE MAINTAINED THROUGHOUT CONSTRUCTION

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.

IMPACT AREAS ARE LIMITED TO AREAS NEEDED TO REPAIR EXISTING INFRASTRUCTURE AND ACCESS FOR THE REPAIR. THERE ARE NO KNOWN EXEMPLARY NATURAL COMMUNITIES, VERNAL POOLS, PROTECTED SPECIES HABITAT, DOCUMENTED FISHERIES OR HABITAT/REPRODUCTION AREAS FOR SPECIES OF CONCERN WITHIN THE PROJECT AREA. GORHAM POND BROOK IS A PREDICTED WARMWATER STREAM WITH NO SPECIES OF SPECIAL CONCERN KNOWN TO INHABIT THE STREAM (2015 WAP). USE OF A CLEAN WATER BYPASS PIPE WILL ALLOW FLOWS TO BE MAINTAINED THROUGHOUT CONSTRUCTION, WHILE SANDBAG COFFER DAMS WILL DIVERT WATER TO THE BYPASS. THIS WILL ALLOW STREAM CONNECTIVITY THROUGHOUT CONSTRUCTION AND ALLOW FISH AND AQUATIC ORGANISMS TO PASS. WORK TIMING WILL BE LIMITED TO TIME NEEDED TO COMPLETE WORK AND BE REMOVED ONCE COMPLETE.

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.

DURING CONSTRUCTION, ACCESS TO NEARBY RESIDENTS AND/OR COMMERCIAL BUSINESSES WILL BE MAINTAINED AT ALL TIMES. GORHAM POND BROOK IS A NON-NAVIGABLE WATER, AND IS NOT A CONCERN FOR BOATERS. THERE ARE NO RECREATIONAL AREAS THAT HAVE BEEN IDENTIFIED IN THE AREA. WHEN CONSTRUCTION IS COMPLETED, THE PROJECT AS PROPOSED WILL BE A BENEFIT TO THE PUBLIC BY PROVIDING A SAFE BRIDGE STRUCTURE.

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.

A MAPPED FEMA FLOODWAY IS WITHIN THE PROJECT AREA. BASED ON ANALYSIS THE WORK AS PROPOSED WILL NOT INCREASE THE POTENTIAL FOR FLOODING. THE STRUCTURE, ONCE COMPLETE, CAN PASS THE 100-YEAR STORM EVENT AND THE PROJECT WILL NOT SIGNIFICANTLY CHANGE THE CAPACITY. THE EXISTING STRUCTURE HAS NO HISTORY OF FLOODING OR OVERTOPPING THE EXISTING INFRASTRUCTURE.

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.

NO RIVERINE FORESTED WETLAND OR SCRUB-SHRUB MARSHES ARE WITHIN THE PROJECT AREA. NO IMPACTS TO THESE RESOURCES ARE ANTICIPATED.

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.

THERE ARE NO DRINKING WATER SUPPLY AREAS IN OR ADJACENT TO THE PROJECT AREA. GROUNDWATER WILL NOT BE EXTRACTED, NOR WILL ANY DISCHARGE VIA INJECTION ARE PROPOSED FOR THE PROJECT. ALL FUELING AND MAINTENANCE WILL BE CARRIED OUT IN UPLAND AREAS AWAY FROM gorham pond BROOK. NO IMPACTS TO DRINKING WATER SUPPLIES OR GROUNDWATER AQUIFERS ARE ANTICIPATED

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.

IMPACTS TO GORHAM POND BROOK HAVE BEEN MINIMIZED AND AVOIDED WHERE POSSIBLE. AS WORK WILL BE REPAIR AND PROTECTION OF THE EXISITNG STRUCTURE, PERMANENT AND TEMPORARY IMPACTS ARE ANTICIPATED. TEMPORARY IMPACTS ARE FOR ACCESS TO PROJECT AREA AND FOR THE INSTALLATION OF BMPs/EROSION CONTROL PROTECTION, WHILE PERMANENT IMPACTS WILL REPAIR IDENTIFIED DEFICIENCIES TO EXISTING INFRASTRUCTURE. NEGATIVE IMPACTS TO STORMWATER RUNOFF ARE NOT ANTICIPATED, AND THE PROPOSED PROJECT WILL CONTINUE TO HANDLE RUNOFF.

PART II: FUNCTIONAL ASSESSMENT

REQUIREMENTS

Ensure that project meets requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).

FUNCTIONAL ASSESSMENT METHOD USED:

NO FUNCTIONAL ASSESSMENT WAS DONE FOR THE PROPOSED PROJECT AS THIS IS REPAIR AND PROTECTION OF AN EXISTING STRUCTURE OVER A STREAM.

NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: SARAH LARGE, NHDOT

DATE OF ASSESSMENT: OCTOBER 25, 2019

Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT:

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:

Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.



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 LAST NAME, FIRST NAME, M.I.: NH Department of Transportation

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 this 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 is a bridge maintenance project that includes the installation of a concrete invert lining and repair to existing wing walls.

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?

No, not applicable. This project does not propose permanent impacts greater than 1 acre. There are no PRA's in the project area.

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

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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 on the subject property or on other property that is reasonably available to the applicant 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 protect existing infrastructure that carries Gorham Pond Brook. The footprint of the project is limited to areas with existing infrastructure deficiencies to the structure. The proposed work will repair and rehabilitate existing damage, as well as protect infrastructure from future damage through installation of a concrete invert lining.

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)? Please note that for a minimum impact project, the applicant may replace this explanation with a certification signed by a certified wetland scientist that the project is located and designed to minimize impacts to wetlands functions and values.

A functional assessment was not completed for the project as the proposed work is repair to existing infrastructure impacting riverine jurisdiction only. The proposed project has a limited footprint that will address existing infrastructure damage, as well as protect the structure from future scour deterioration. The proposed project will have a limited impact on the stream's 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: July 15, 2020

LOCATION OF CONFERENCE: John O. Morton Building

ATTENDED BY:

NHDOT

Sarah Large
Matt Urban
Ron Crickard
Mark Hemmerlein
Tim Boodey
Arin Mills
Heidi Stortz

ACOE

Mike Hicks

EPA

Beth Alafat

**Federal Highway
Administration**

Jaimie Sikora

NHDES

Lori Sommer
Karl Benedict

NHB

Amy Lamb

NH Fish & Game

Carol Henderson

The Nature Conservancy

Pete Steckler

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

Meeting Minutes.....	2
Goffstown, #42840	2
Jefferson, #43078	3
Northwood, #43077	5

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

NOTES ON CONFERENCE:**Meeting Minutes**

Finalized and approved the June 17, 2020 meeting minutes.

Goffstown, #42840

Arin Mills, NHDOT Environmental Manager, presented the location of the project as bridge 054/116 which carries NH 114 over Gorham Pond Brook in Goffstown. This is a state funded and state executed project. Gorham Pond Brook flows approximately 6.6 miles from the headwater in Dunbarton to the site, adjacent to the convergence with the Piscataquog River. The bridge was constructed about 1972 with the re-alignment of NH 114 to the now more southern alignment. The As-Built plan from 1972 was shown which depicts the original construction with a paved outlet channel. The surrounding landscape was described as rural/residential, with historic Parker Station just to the north. A map was shown with the surrounding conservation lands, to include Piscataquog Land Conservancy and Hopkinton-Everett Flood Control lands nearby the site. Photos were displayed of the both the existing conditions of the inlet/outlet and upstream/downstream.

Tim Boodey, NHDOT Bridge Maintenance, described the project to include installation of a reinforced concrete invert in the bottom of the existing corrugated metal culvert, installation of 2' deep cut off/curtain wall at both inlet and outlet, clearing of brush from the wing walls and repair of existing mortar rubble masonry (MRM) wings. Some brush will include removal of trees greater than 3" in diameter. Tim showed preliminary plans and described the anticipated wetlands impacts, to include permanent impacts for the cut off walls at the inlet and temporary impacts for brush clearing at inlet and outlet. All work in stream can be done by hand, with no equipment in the stream. No proposed rip rap, and use of existing rocks in the streambed. Tim described the existing rocks at the stream outlet (and inlet) are 10-14" above the existing invert and allow water to naturally pool and decrease velocity at the outlet of the bridge. The 6" invert, once installed, will not be above the highest rock at the outlet and will not generate a perched condition.

Arin further described some resources of Gorham Brook based on her review. Gorham Brook is a 3rd order stream, while the Piscataquog River is 4th order stream and under the jurisdiction of the Shoreland Water Quality Protection Act (SWQPA). The Piscataquog River is also a Designated River and comments were solicited from the Local Advisory Committee (LAC). The LAC asked about the creation of a perched condition and impacts to aquatic organism passage as well as decrease in hydraulic capacity, which the DOT said they would take the comments into consideration and would be sure this was addressed in the final wetland application package. The stream is a Tier 3 crossing, with a watershed of 4,174 acres. No previous permits were identified for the site by DES.

Arin further described that both the Piscataquog and Gorham Brook are both predicted warm water streams. A NHB review (NHB20-1159) determined no anticipated impacts to species. US Fish & Wildlife Coordination determined potential for Northern long-eared bat and small whorled pogonia. A 4(d) consistency has been generated and a field review did not locate any species or appropriate habitat for the pogonia within the project area. A Section 106 review for cultural resources determined 'No Potential to Cause Effect'. A FEMA map was shown, depicting the site within a 100-year flood zone with Floodway.

BUREAU OF ENVIRONMENT CONFERENCE REPORT

SUBJECT: NHDOT Monthly Natural Resource Agency Coordination Meeting

DATE OF CONFERENCE: July 15, 2020

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ATTENDED BY:

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

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

Sarah asked Tim for clarification that no permanent impacts are anticipated at the outlet with the installation of the curtain wall as the end of the pipe would be removed, and no length would be added. Tim concurred. Sarah also clarified that no work in the stream is necessary, Tim also concurred.

Karl Benedict requested a longitudinal profile be provided with the application to help show the impacts to flow conditions once install, specifically at low flow conditions. Tim responded that he can include that, and can extend it outside the pipe at the outlet to help show how the existing rocks are influencing the flow at the outlet. Karl also asked a narrative be included with the application, as he is most concerned with the outlet conditions during low flow once installed. Karl also would like the hydraulic analysis to provide details of the ability of the crossing to pass a 100-year flood event. Karl lastly asked DOT to coordinate with NH Fish & Game regarding impacts to trout passage in the area, as it is known trout inhabit this area. Sarah requested concurrence a 904.09 (rehab/repair of an existing Tier 3 stream) is the appropriate stream crossing rules to address with the proposed work which will include hydraulic analysis, Karl concurred.

Lori Sommer asked that the SADES data be reviewed and provided with the permit application. She does not anticipate mitigation required, although likely will request a follow-up report to describe impacts to fish passage post construction. She further requested data regarding fish species in the area be gathered for potential monitoring post construction. She asked if a dam is in the area and the info was not readily known at the time. Arin said she could look into that data and provide in application.

Carol Henderson asked for clarification on the water diversion, specifically the clean water bypass. Tim clarified the work would be done in two phases, with one side being worked at a time. Carol asked the river be closed off early to prevent impacts to trout spawning, which generally begins around October 1st. She asked the cofferdam be installed ahead of spawning, which is generally late September to December. Tim explained the work is proposed in the winter months and can include timing in the application package.

Mike Hicks said no Essential Fish Habitat (EFH) review needed as Gorham Brook is not on EFH list. He also said he would coordinate internal for a Section 408 review for impacts for a project adjacent to Army Corp lands, he would reach out if more was needed for this review.

Beth Alafat concurred with Mike H and Lori S review. Amy Lamb had no comment. Pete Steckler noted the site is identified as a Herring stock location/migratory path according to the Aquatic Restoration Mapper. Jaimie Sikora asked about US Coast Guard navigation review. Arin noted the review was complete with no concerns.

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

Jefferson, #43078

Arin Mills, NHDOT Environmental Manager, presented the location of the project as bridge 109/061 which carries NH 115 over Red Brook in Jefferson. This is a state funded and state

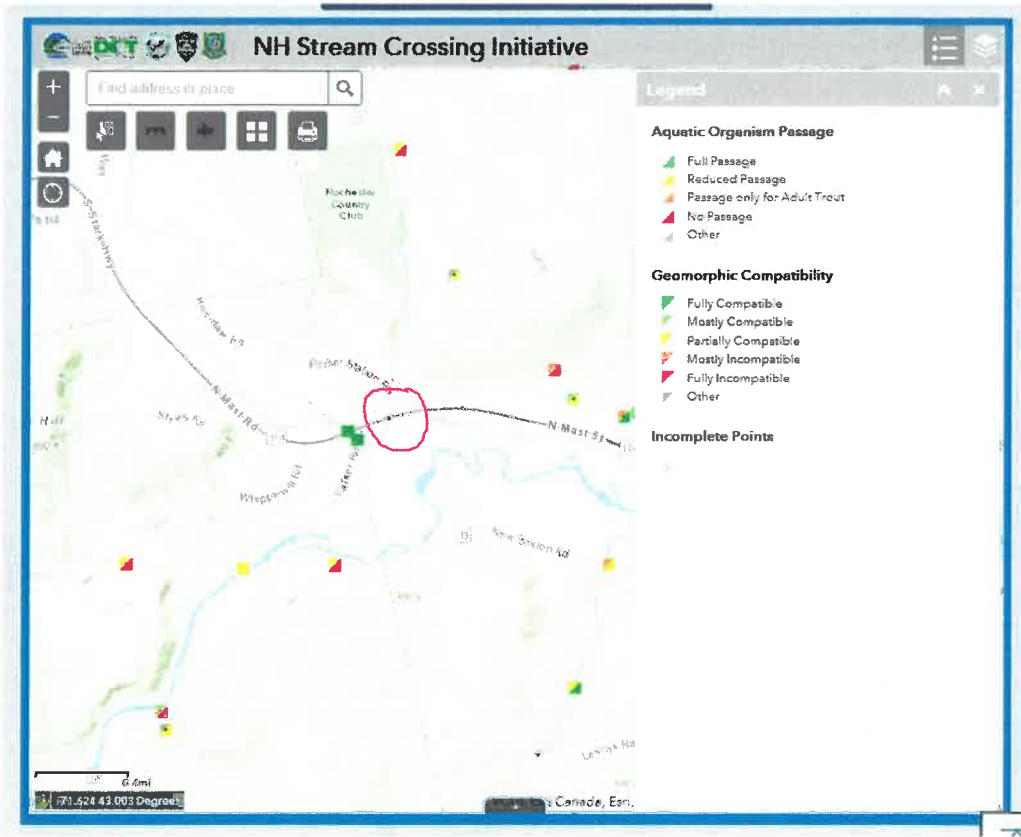


Figure 1: Screenshot from NH Stream Crossing Initiative website. No SADES review for site complete. (<http://nhsades.maps.arcgis.com/apps/webappviewer/index.html>, Accessed November 11, 2020)

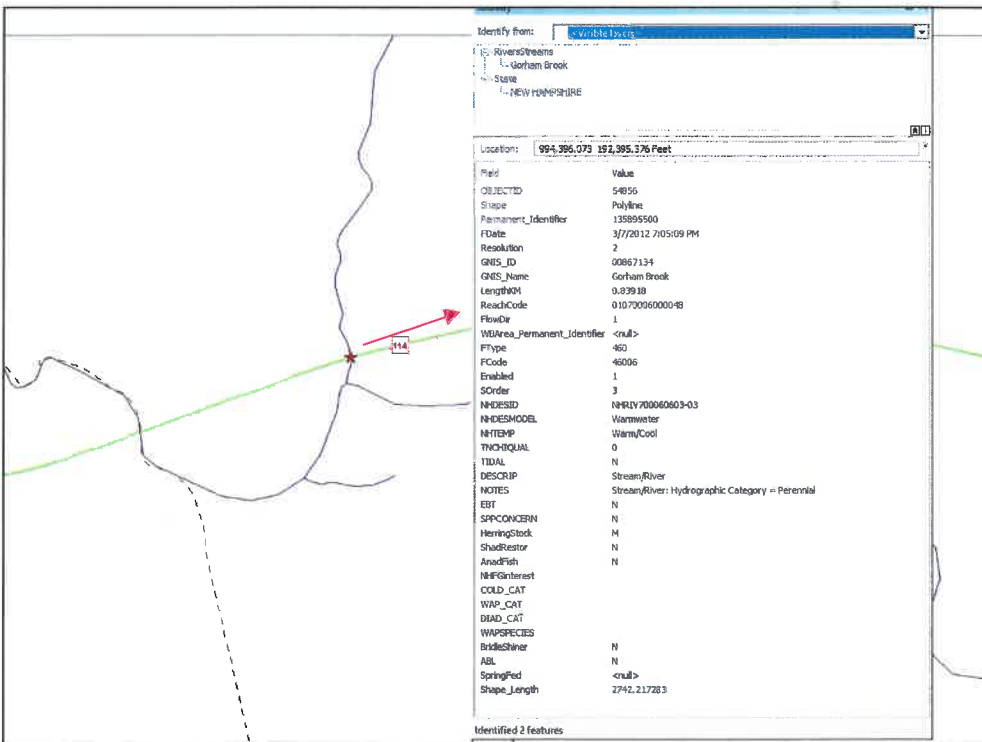


Figure 2: WAP 2020_Aquatic GIS data for Gorham Brook.

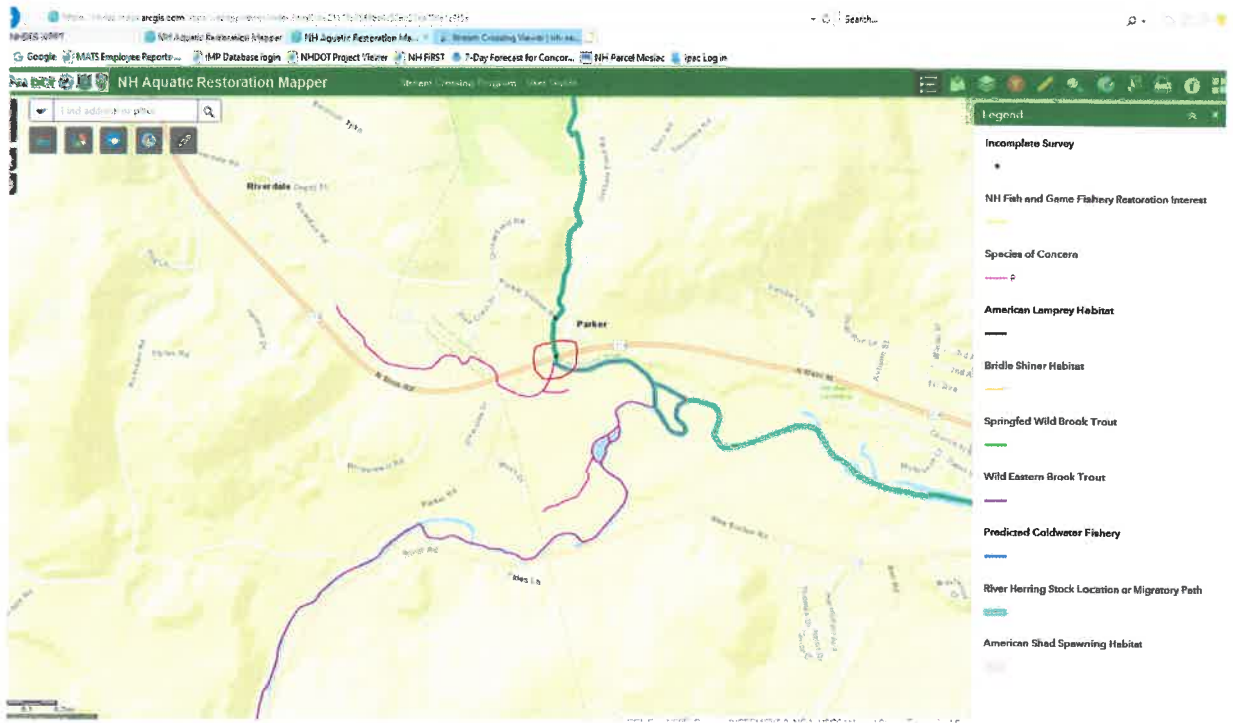


Figure 3: NH Aquatic Restoration Mapper website
 (<https://www.arcgis.com/apps/webappviewer/index.html?id=21173c9556be4c52bc20ea706e1c9f5a>,
 Accessed November 11, 2020)

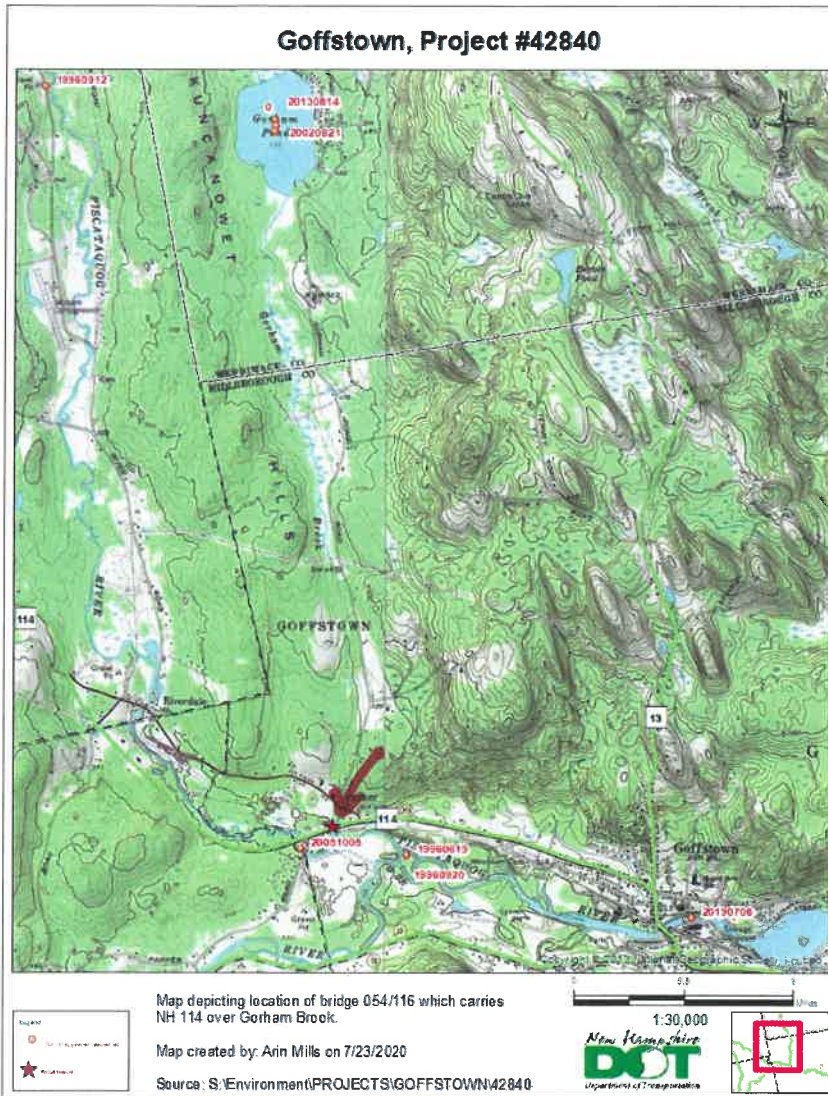


Figure 4: NH Fish & Game Fish Survey Data. No coldwater indicator species documented (Brook trout, slimy sculpin) in NHF&G fish data .

1996 Fish Survey, 19960920: Piscataquog River ~ 0.3 miles downstream of site. American Eel*, Brown Bullhead, Blacknose Dace, Common Shiner, Common Sunfish, Common Sunfish, Fallfish, Largemouth bass, Longnose Dace, Longnose Sucker, Redbreast sunfish, Rainbow trout, Smallmouth bass, Yellow Bullhead

1996 Fish Survey, 19960619: Piscataquog River ~ 0.3 miles downstream of site. American Eel*, Blacknose dace, common shiner, longnose dace Redbreasted sunfish, Rainbow trout, Smallmouth bass, Spotted shiner, Yellow Bullhead.

2005 Fish Survey, 20051005: Piscataquog River ~0.2 miles upstream. Bluegill, Common sunfish, Chain pickerel, Largemouth Bass

2013 Fish Survey, 20130814: Gorham Pond ~3.5 miles upstream. American Eel*, Bluegill, Common Sunfish, Common White Sucker, Eastern chain pickerel, Largemouth bass, White Perch, Yellow Bullhead and Yellow Perch.



2002 Fish Survey, 20020821: Gorham Pond ~3.5 miles upstream. Bluegill, Common Sunfish, Eastern chain pickerel, Golden Shiner, Largemouth Bass, White Perch, Yellow Bullhead and Yellow Perch.

* = NHFG Species of Concern

X = Introduced coldwater Species

(<https://services8.arcgis.com/hg1B9Egwk115p300/arcgis/rest/>, Accessed July 21, 2020)



Figure 5: Dams downstream in Piscataquog River to Merrimack River. GRANIT GIS Data (<https://nhgeodata.unh.edu/nhgeodata/rest/services/>). No dams identified in Gorham Brook.

- Hadley Falls Dam in Goffstown, 20' Height, DES owner
- Gregg Falls Dam in Goffstown: 60' Height, DES Owner
- Kelley Falls Dam in Manchester: 31' Height, DES Owner
- Piscataquog River II Dam in Manchester: 15' Height Eversource Owner
- No dams were located along the entire length of Gorham Brook.



Mills, Arin

From: Large, Sarah
Sent: Wednesday, July 15, 2020 10:45 AM
To: Mills, Arin; Stortz, Heidi
Subject: FW: July 2020 NHDOT Natural Resource Agency Coordination Meeting **AGENDA**

Hey ladies,

I wanted to forward Carol's written comment about the herring stock data. Glad that the timing of the herrings spawning is not within the time of year that Bridge will complete the work!

Sarah

From: Henderson, Carol
Sent: Wednesday, July 15, 2020 10:38 AM
To: Large, Sarah
Subject: Re: July 2020 NHDOT Natural Resource Agency Coordination Meeting **AGENDA**

Hi Sarah:

Just to reiterate. I believe that the herring information that Pete Steckler mentioned today was most likely from the Merrimack River Anadromous Fish Restoration program. Both the Northwood and Goffstown tributaries would have been included in the restoration plan as nursery habitat for **anadromous fish** (herring, salmon, eels). However, the **timing of these projects would not be a concern** based on fish already would have spawned in the Spring. Thanks, Carol

From: Large, Sarah
Sent: Tuesday, July 14, 2020 9:25 AM
To: 'Sikora, Jamie (FHWA)'; 'Hicks, Michael C CIV USARMY CENAE (USA)'; Kristoff, Richard; Alafat, Beth; Brochi, Jean; 'Maria Tur'; Benedict, Karl; Sommer, Lori; Henderson, Carol; Gilbert, Jennifer; Lamb, Amy; 'Peter Steckler'; Boodey, Timothy; Mills, Arin; Stortz, Heidi
Cc: Urban, Matt; Large, Sarah; Crickard, Ronald; OSullivan, Andrew; Hemmerlein, Mark; Martin, Rebecca; Nyhan, Kevin
Subject: RE: July 2020 NHDOT Natural Resource Agency Coordination Meeting **AGENDA**

Good morning,

Below is the Zoom meeting information for tomorrow's Natural Resource Agency Meeting.

Natural Resource Agency members if you could please log on a few minutes prior to 9am that would be greatly appreciated. I have scheduled some time at the start of the meeting for hellos and settling in however Andy and I will be diligent to keep the meeting on time.

Project presenters and other attendees, please log on a few minutes prior to your meeting's time as well. You will be held in the zoom virtual waiting room until the prior project has concluded, and then will be welcomed to the meeting. I added in 5 minutes for transition, but whomever will be the primary presenter sharing their screen please be prepared

Mills, Arin

From: Henderson, Carol
Sent: Friday, September 18, 2020 9:23 AM
To: Mills, Arin
Subject: Re: July 2020 NHDOT Natural Resource Agency Coordination Meeting **AGENDA**
Attachments: NHFGD Response letter 7-2020.pdf

Hi Arin:

Sorry for the delay. This response is for both projects that you referenced by email, located in Goffstown and Jefferson. I have attached a letter that the previous NHFGD Director submitted to NHDES prior to his leaving the Department in August. This letter relates to the Department's standing on **TOY** restrictions for coldwater fish, which may or may not be revisited by the Department's new Director in the future. The Department's recommendation is to adhere to the TOY restrictions imposed by NHDES Wetlands rules. If you have any questions or comments, please do not hesitate to discuss with me. Thank you, Carol

From: Mills, Arin
Sent: Monday, September 14, 2020 7:07 AM
To: Henderson, Carol
Cc: Tuttle, Kim; Doperalski, Melissa; Magee, John
Subject: RE: July 2020 NHDOT Natural Resource Agency Coordination Meeting **AGENDA**

Good morning Carol,

I am just trying to close the loop on the Goffstown (#42840) bridge maintenance as it relates to the discussion at the July 15, 2020 Natural Resource meeting for trout spawning. Is there a specific date range you could provide that would protect spawning trout in the area? I have attached both the NR meeting minutes that summarized the discussion. Let me know if there are any additional concerns you may have for the project as we work to finalize this permit application.

Thanks.

Arin

From: Mills, Arin
Sent: Monday, July 20, 2020 12:01 PM
To: Doperalski, Melissa
Cc: Henderson, Carol ; Tuttle, Kim
Subject: RE: July 2020 NHDOT Natural Resource Agency Coordination Meeting **AGENDA**

Melissa,

During the NR meeting Tim Boodey, Bridge Maintenance Engineer, described rocks currently existing at the outlet of the pipe are 10-12" above the existing invert which allow the water to naturally pool. He further described the 6" invert, once installed, will not be above the highest rock at the outlet and will not generate a perched condition. DES requested a longitudinal profile be included with the permit application to depict conditions during low flow to ensure perched conditions are not created with the installation of the invert. A weir is not proposed at this time and perched conditions are not anticipated.

Does that information help?

Arin

From: Doperalski, Melissa
Sent: Monday, July 20, 2020 11:41 AM
To: Mills, Arin
Cc: Henderson, Carol ; Tuttle, Kim
Subject: RE: July 2020 NHDOT Natural Resource Agency Coordination Meeting ****AGENDA****

That sound good. Can you assure that the invert work will not result in the culvert becoming perched and if perched now, it will be remedied by the construction of a weir?

From: Mills, Arin <Arin.Mills@dot.nh.gov>
Sent: Monday, July 20, 2020 11:27 AM
To: Doperalski, Melissa <Melissa.Doperalski@wildlife.nh.gov>
Cc: Henderson, Carol <Carol.Henderson@wildlife.nh.gov>; Tuttle, Kim <Kim.Tuttle@wildlife.nh.gov>
Subject: RE: July 2020 NHDOT Natural Resource Agency Coordination Meeting ****AGENDA****

Hello Melissa,

Thanks for reaching out regarding Wood turtle concerns for the project. We can certainly include Environmental commitments for the species to make the bridge maintenance crew working on the project aware of the potential for the species to occur in or around the project area. At this time we anticipate the work being conducted primarily in the fall and winter months, at a time when the species would likely be hibernating in the river. In my experience with Wood turtles the area where the work will take place along Gorham Pond Brook is not appropriate hibernation habitat given the shallow and fast moving water conditions at the crossing. That said, I will include the following Environmental commitments for protection and awareness of the species:

- Turtle species of concern are known to occur in the vicinity of the project. During the turtle nesting season from May 15th through July 1st, the Contractor shall review any areas with exposed soils that will experience truck traffic or equipment staging for turtle nesting activity. If turtles are found laying eggs in an area that will be disturbed, the Contractor shall cease work immediately to avoid disturbing the turtle, and contact the Bureau of Environment (Arin Mills, 271-3226) for further instructions and coordination with NH Fish & Game.

- The NHFG Turtle Flyer shall be shared with all operators, employees and contractors working on the project. All observations of wood turtles, spotted turtles, box turtles or Blanding's turtles shall be immediately reported to NHFG (Melissa Doperalski 603-271-1738 or Josh Megysey 603-271-0463). (I will include the turtle flyer)

Let me know if you feel there are additional commitments you feel may be appropriate for protection of the species. Feel free to reach out if you have any additional comments or questions.

Arin Mills
Environmental Manager, Operations Management
NH Department of Transportation
Bureau of Environment
7 Hazen Drive, Concord, NH 03302
Ph: (603)271-0187
Arin.mills@dot.nh.gov

**This is included in Env. review document for the project.
AJM*

From: Doperalski, Melissa <Melissa.Doperalski@wildlife.nh.gov>
Sent: Monday, July 20, 2020 10:58 AM
To: Mills, Arin <Arin.Mills@dot.nh.gov>
Cc: Henderson, Carol <Carol.Henderson@wildlife.nh.gov>; Tuttle, Kim <Kim.Tuttle@wildlife.nh.gov>
Subject: FW: July 2020 NHDOT Natural Resource Agency Coordination Meeting ****AGENDA****
Importance: High

Morning Arin,

I hope this email finds you well. As we have a history working on wood turtles, I figured I would reach out to you directly. The agenda includes proposed project **Goffstown, #42840**. I would anticipate that we would have wood turtles at this site so please consider their needs when designing this project. If you wish to discuss further, please let us know.

Thanks,
Melissa

From: Large, Sarah <Sarah.Large@dot.nh.gov>
Sent: Monday, July 6, 2020 1:12 PM
To: AdamsJr, Joseph <Joseph.AdamsJr@dot.nh.gov>; Baldwin, Margarete <Margarete.Baldwin@dot.nh.gov>; Beaulieu, Philip <Philip.Beaulieu@dot.nh.gov>; Belanger, Kevin <Kevin.Belanger@dot.nh.gov>; Boodey, Timothy <Timothy.Boodey@dot.nh.gov>; Butler, John (DOT) <John.Butler@dot.nh.gov>; Carucci, Christopher <Christopher.Carucci@dot.nh.gov>; Cass, William <William.Cass@dot.nh.gov>; Chase, Victoria <Victoria.Chase@dot.nh.gov>; Clifford, Gary <Gary.Clifford@dot.nh.gov>; Corrigan, John <John.Corrigan@dot.nh.gov>; Cota, Keith <Keith.Cota@dot.nh.gov>; Crickard, Ronald <Ronald.Crickard@dot.nh.gov>; Desfosses, Brian <Brian.Desfosses@dot.nh.gov>; Dobbins, Caleb <Caleb.Dobbins@dot.nh.gov>; Dube, Melilotus <Melilotus.Dube@dot.nh.gov>; Dugas, Michael <Michael.Dugas@dot.nh.gov>; Dunn, Timothy <Timothy.Dunn@dot.nh.gov>; Elliott, Darrel <Darrel.Elliott@dot.nh.gov>; Evans, Jonathan <Jonathan.Evans@dot.nh.gov>; Evans, Lane <Lane.Evans@dot.nh.gov>; Grandmaison, Ronald <Ronald.Grandmaison@dot.nh.gov>; Gunn, Sally <Sally.Gunn@dot.nh.gov>; Hanscom, Alan <Alan.Hanscom@dot.nh.gov>; Hebert, Jonathan <Jonathan.Hebert@dot.nh.gov>; Hemmerlein, Mark <Mark.Hemmerlein@dot.nh.gov>; Herlihy, Patrick <Patrick.Herlihy@dot.nh.gov>; Hunt, Rita <Rita.Hunt@dot.nh.gov>; Jameson, Thomas <Thomas.Jameson@dot.nh.gov>; Johnson, Steve <Steve.Johnson@dot.nh.gov>; Johnson, Wendy <Wendy.Johnson@dot.nh.gov>; Kallfelz, John <John.Kallfelz@dot.nh.gov>; Kammer, David <David.Kammer@dot.nh.gov>; King, Douglas <Douglas.King@dot.nh.gov>; Kitsis, Theodore <Theodore.Kitsis@dot.nh.gov>; KleinerJr, Ronald <Ronald.KleinerJr@dot.nh.gov>; Lambert, Tricia <Tricia.Lambert@dot.nh.gov>; Landry, Robert <Robert.Landry@dot.nh.gov>; Large, Sarah <Sarah.Large@dot.nh.gov>; Laurin, Marc <Marc.Laurin@dot.nh.gov>; Locker, Douglas <Douglas.Locker@dot.nh.gov>; Lombard, Brian <Brian.Lombard@dot.nh.gov>; Lyford, Donald <Donald.Lyford@dot.nh.gov>; Lynch, Bryan <Bryan.Lynch@dot.nh.gov>; Mallette, Timothy <Timothy.Mallette@dot.nh.gov>; Marshall, Jim <Jim.Marshall@dot.nh.gov>; Martin, Rebecca <Rebecca.Martin@dot.nh.gov>; Mayville, Nancy <Nancy.Mayville@dot.nh.gov>; McMahon III, James <James.McMahonIII@dot.nh.gov>; Micucci, Stephanie <Stephanie.Micucci@dot.nh.gov>; Mills, Arin <Arin.Mills@dot.nh.gov>; Monette, Stephanie <Stephanie.Monette@dot.nh.gov>; Mudgett, Kirk <Kirk.Mudgett@dot.nh.gov>; Newsom, Sam <Sam.Newsom@dot.nh.gov>; Niewola, Carol <Carol.Niewola@dot.nh.gov>; Nyhan, Kevin <Kevin.Nyhan@dot.nh.gov>; Oldenburg, William <William.Oldenburg@dot.nh.gov>; OSullivan, Andrew <Andrew.Osullivan@dot.nh.gov>; Prehemo, Dan <Dan.Prehemo@dot.nh.gov>; Radwanski, Richard <Richard.Radwanski@dot.nh.gov>; Reczek, Jennifer <Jennifer.Reczek@dot.nh.gov>; Reynolds, Tobey <Tobey.Reynolds@dot.nh.gov>; Rodrigue, David <David.Rodrigue@dot.nh.gov>; Rollins, William <William.Rollins@dot.nh.gov>; Rook, Amy <Amy.Rook@dot.nh.gov>; Rose, William <William.Rose@dot.nh.gov>; Russell, Kevin <Kevin.Russell@dot.nh.gov>; Ryan, Kerry <Kerry.Ryan@dot.nh.gov>; Saffian, William <William.Saffian@dot.nh.gov>; Sanders, Ralph <Ralph.Sanders@dot.nh.gov>; Schutt, Brian <Brian.Schutt@dot.nh.gov>; Scott, David <David.Scott@dot.nh.gov>; Smith, David <David.Smith@dot.nh.gov>; Spaulding, Nancy <Nancy.Spaulding@dot.nh.gov>; Stamnas, Peter <Peter.Stamnas@dot.nh.gov>; StPierre, Russell <Russell.StPierre@dot.nh.gov>; Tremblay, Jason <Jason.Tremblay@dot.nh.gov>; Turgeon, Christopher

<Christopher.Turgeon@dot.nh.gov>; Urban, Matt <Matt.Urban@dot.nh.gov>; Waszczuk, Christopher <Christopher.Waszczuk@dot.nh.gov>; WatsonJr, Bill <William.WatsonJr@dot.nh.gov>; Weatherbee, Anthony <Anthony.Weatherbee@dot.nh.gov>; Willeke, Charles <Charles.Willeke@dot.nh.gov>; Winters, Shelley <Shelley.Winters@dot.nh.gov>; Yari, Nasser <Nasser.Yari@dot.nh.gov>; Zanes, Trent <Trent.Zanes@dot.nh.gov>; Alafat, Beth <alafat.beth@epa.gov>; Hollenbeck, Amanda <Amanda.Hollenbeck@osi.nh.gov>; Lamb, Amy <Amy.Lamb@dncr.nh.gov>; Ohler, Becky <Rebecca.Ohler@des.nh.gov>; Benedict, Karl <Karl.Benedict@des.nh.gov>; Thomas, William <William.Thomas@des.nh.gov>; Bouchard, Jessica <Jessica.Bouchard@des.nh.gov>; Brochi, Jean <Brochi.Jean@epa.gov>; Henderson, Carol <Carol.Henderson@wildlife.nh.gov>; Williams, Chris <Christian.Williams@des.nh.gov>; Christine Perron <CPerron@mjinc.com>; Day, Craig <Craig.Day@des.nh.gov>; Forst, Darlene <Darlene.Forst@des.nh.gov>; Price, David <David.Price@des.nh.gov>; Detzel, Seta <Seta.Detzel@des.nh.gov>; Dijit Taylor <dtaylor@lchip.org>; Doperalski, Melissa <Melissa.Doperalski@wildlife.nh.gov>; Duclos, Kristin <Kristin.Duclos@des.nh.gov>; Ebinger, Samara <Samara.Ebinger@osi.nh.gov>; Feldbaum, Eric <Eric.Feldbaum@dncr.nh.gov>; Frank Delgiudice (E-mail) <frank.j.delgiudice@usace.army.mil>; Wolek, Gail <Gail.Wolek@dncr.nh.gov>; Gamache, Christopher <Christopher.Gamache@dncr.nh.gov>; Gegas, Vasilios (Bill) <Bill.Gegas@dncr.nh.gov>; Giallongo, Stefanie <Stefanie.Giallongo@des.nh.gov>; Comstock, Gregg <Gregg.Comstock@des.nh.gov>; Comstock, Gregg <Gregg.Comstock@des.nh.gov>; James Rousseau <James.L.Rousseau2@uscg.mil>; Jamie Sikora (E-mail) <jamie.sikora@fhwa.dot.gov>; Aube, Jason <Jason.Aube@des.nh.gov>; Jason Ross (jross@hebengineers.com) <jross@hebengineers.com>; Jed Merrow <jmerrow@mjinc.com>; Jeffrey Stieb <Jeffrey.D.Stieb@uscg.mil>; Gilbert, Jennifer <Jennifer.Gilbert@osi.nh.gov>; Magee, John <john.magee@wildlife.nh.gov>; Josh McAllister (jmcallister@hebengineers.com) <jmcallister@hebengineers.com>; Keirstead, Dale <Dale.Keirstead@des.nh.gov>; Tuttle, Kim <Kim.Tuttle@wildlife.nh.gov>; Kristoff, Richard <Richard.C.Kristoff@usace.army.mil>; Black, Laura <Laura.Black@dncr.nh.gov>; Leigh Levine (E-mail) <Leigh.Levine@fhwa.dot.gov>; Lewis, Eben <Eben.Lewis@des.nh.gov>; Sommer, Lori <Lori.Sommer@des.nh.gov>; Maria Tur <Maria_Tur@fws.gov>; Michael Hicks (michael.c.hicks@usace.army.mil) <michael.c.hicks@usace.army.mil>; Michele L. Tremblay <MLT@naturesource.net>; Mike R. Johnson <Mike.R.Johnson@noaa.gov>; Nichols, Emily <Emily.Nichols@des.nh.gov>; Paula Bellemore <pbellemore@lchip.org>; Pete Steckler <psteckler@TNC.org>; Rennie, Craig <Craig.Rennie@des.nh.gov>; Mauck, Ridgely <Addison.Mauck@des.nh.gov>; Rigrod, Pierce <Pierce.Laskey-Rigrod@des.nh.gov>; rob durfee <rdurfee@dubois-king.com>; Rodrigo Marion <rmarion@cnhrpc.org>; Spoerl, Robert <Robert.Spoerl@dncr.nh.gov>; Landry, Steve <Stephen.Landry@des.nh.gov>; Diers, Ted <Ted.Diers@des.nh.gov>; Tilton, Mary Ann <Mary.Tilton@des.nh.gov>; Drew, Tim <Timothy.Drew@des.nh.gov>; Boisvert, Tracey <Tracey.Boisvert@dncr.nh.gov>; Trubey, David <David.Trubey@dncr.nh.gov>; Vicki Chase <VChase@normandeau.com>; White, Timothy <Timothy.White@des.nh.gov>

Subject: July 2020 NHDOT Natural Resource Agency Coordination Meeting ****AGENDA****

Importance: High

Good afternoon,

I hope this email finds you well. If you plan to participate in this month's Natural Resource Agency meeting, please read through my email below. I know that this email is long, but I hope that the information I provided will be helpful to run a smooth and beneficial meeting.

The July 2020 NHDOT Natural Resource Agency Coordination Meeting is scheduled for next **Wednesday July 15, 2020** starting at **9am** via **Zoom!**

Following virtual meeting guidelines to keep our connection secure I only distribute the zoom meeting link information to those that plan to attend and do not widely distribute the meeting information out to everyone on the Natural Resource Agency Meeting contact lists. Please review the attached word document of anticipated attendees and email me if you are not listed and would like to attend. Zoom meeting access information will be distributed next week on Tuesday July 14th along with the presentations for each project presenting at this meeting. You will be able to access the meeting via the weblink, which depending on your computer set up will allow you to access visuals and audio,

or by calling in via one of the phone numbers that will be provided. If the computer you are using has troubles accessing the audio of that device, feel free to call into the meeting as well to access audio that way.

The agenda is attached and is also available on the Department's website at:

<https://www.nh.gov/dot/org/projectdevelopment/environment/units/project-management/nracrmeetings.htm>

9:00 Approve July 17, 2020 meeting minutes

9:10 Goffstown, #42840

9:40 Jefferson, #43078

10:00 Northwood, #43077

Approximate End: 10:20 am

Another safety precaution is the double layer of "authentication" meaning our meeting will have a meeting ID and a password. Accessing both on the computer via the web link or via a phone through one of the provided phone numbers you will first be prompted to enter the meeting ID and then the second number zoom asks for is the password.

When each of you join the meeting, zoom will notify you that you are in the waiting room. As the host, I will then invite you to join the meeting when it is appropriate. This virtual waiting room will "hold" presenters/ attendees in the "waiting room" until it is your project's turn to present to cut back on distractions and hopefully provide some helpful structure to the meeting. [Again, meeting information will be forth coming next week]. I have added 5 minutes to the end of each project for transition time between projects, but as always the times listed on the agenda are approximate. Please log onto the meeting at least 5 minutes prior to your project time in the event that the meeting is running ahead of schedule. This is unlikely, but we appreciate you being prepared and flexible. We ran behind last month, so if you are not admitted to the meeting right at your scheduled time on the agenda please be patient, and don't fret. I will do my best to email people if we are running behind, but I ask mostly for your patience.

If you are not a regular attendee or a presenter, please consider this email as an invitation to the meeting, which is at the request of a project sponsor as one or more of the projects listed below relate directly to your organization or program. If you are interested in attend, please respond to this email to let me know so that I can provide you with the meeting log in information and look for you in the zoom waiting room. Please feel free to join for the projects that apply to you.

If you are presenting a project, please review the presentation tips found NHDOT's Natural Resource Agency website as well as some specific meeting over view comments and zoom helpful hints listed below. **All participants will be muted upon entry to the meeting** in hopes to cut back on interruptions and background noises interrupting the meeting. As indicated above we are also implementing the waiting room feature to hopefully help with this as well. Overall if you anticipate having some noises around you while you are on the call, we completely understand, but ask that you please use the mute feature to mute yourself when not speaking to reduce the added sound to the meeting that might be distracting. *****Helpful mute/unmute tip:** To unmute/mute yourself you can either dial *6 on your phone if you are accessing audio to the meeting via a phone. If you are accessing the meeting via a computer and using the computer microphone for audio, when you are muted you can hold the space bar on your computer's keyboard to speak and then release the space bar to remain muted! (Thank you Joanne for the space bar helpful trick).

Presenters and NHDOT project team attendees:

1. Please prepare a power point presentation (saved as a pdf) or have plans, photos, or some visual to have for your project and provide them to me by close of business **Monday July 13th**. This is very important as we have a few Resource Agency members who can only join us over the phone and will not be able to see the presentations via zoom screen sharing. I have also received feedback from Resource Agency Representatives that the advanced information allows them to provide more informed and beneficial feedback.
2. When you join the meeting at the time listed for your project (provided in the attached agenda) you will be held in the zoom waiting room until the project prior to yours has concluded presenting and discussions are complete. Please be patient. I will then welcome you to the meeting. Initially you will be muted, as the host I

fortunately will have the ability to assist with unmuting those that need assistance. Please discuss amongst your team who will be the primary presenter and therefore who will be sharing their computer screen to present the powerpoint or visuals. Please wait for the project to be introduced by Andy O’Sullivan and at that time whomever is the primary presenter please select the share screen button (looks like a green square with an arrow pointing up within in). At the conclusion of your presentation and after comments from the resource agency members I ask that the primary presenter please un-share their screen to prepare for the next project.

Resource Agency Members:

I am planning to put you all on mute during the project team’s presentation to help with reducing background noises/ feedback from each of our respective locations during the presentation. Please feel free to unmute yourself (see helpful tip above) to chime in with questions during the presentation. I suggest that if you don’t have a web cam enabled, that you indicate who is speaking and then to speak. At the conclusion of the presentation, I will invite you all to provide your comments. In order to cut back on people accidentally talking over one another I will do a “roll call” type of request for comments. For example, I will say Karl Benedict, NHDES, do you have any comments? Then Karl would ask his questions and provide his feedback. And then I would ask the next person and then the next. And at the end of roll call I will ask for any other comments

Thank you all in advance for your patience, understanding, and flexibility while we navigate this new way of hosting and meeting for the monthly Natural Resource Agency Meetings.

Please let me know if you have any questions, comments, or concerns.

Warm wishes,

Sarah Large
Wetlands Program Analyst
NH Department of Transportation
Bureau of Environment



New Hampshire Fish and Game Department

11 Hazen Drive, Concord, NH 03301-6500
 Headquarters: (603) 271-3421
 Web site: www.WildNH.com

TDD Access: Relay NH 1-800-735-2964
 FAX (603) 271-1438
 E-mail: info@wildlife.nh.gov

Glenn Normandeau
 Executive Director

July 23, 2020

Department of Environmental Services
 c/o Mary Anne Tilton
 29 Hazen Drive
 Concord, NH 03301

RE: Comments on Revised Wetlands Rules dated 4-30-2020

Dear Mary Anne:

The NH Fish and Game Department (NHFGD) has reviewed the latest updates to the NH Wetlands Rules dated 4-30-2020 and we offer the following comments:

Env-Wt. 307.04 Protection of Fisheries and Breeding Areas Required. ... (b) Not discharge sediment to **documented** amphibian and migratory bird breeding areas during spawning or breeding seasons, as applicable, which could necessitate suspending the activities; and

How or what database is being utilized to identify the **documented** amphibian or migratory bird breeding areas in order to meet this requirement? Also, is the intent to rely on NHFGD staff to provide this information?

Env-Wt. 307.10 Dredging Activity Conditions. ... (g)... (1) Between October 1 and March 31 for any **documented occurrence of a cold water fishery or threatened or endangered fishery**; or

- 1) Primarily for municipal or state projects, the Department believes that the use of appropriate construction BMP's (silt fencing, coffer dams, etc.) and shortened length of construction time within a waterbody is more important than the proposed time of year (TOY) restriction for a cold water fishery, especially if the NHFGD's database is utilized to identify the documented occurrence. The Department's fishery surveys and database are for a "detect only" status within the waterbody and not necessarily evidence of spawning activity in any particular location. Also, many of the State and municipal projects address severely deficient infrastructure (culverts, bridges, roadways) and repair or replacement of the deficient infrastructure ultimately improves the conditions within the watershed. For the above mentioned reasons NHFGD did not propose or support TOY restrictions during the initial Wetlands Rules re-write.

Mary Anne Tilton, NHDES
July 23, 2020
Page 2

2) Referring to the **threatened and endangered fishery**

- a) The word 'fishery' generally implies a human use associated with the fish resource which isn't the focus (or legal) when referring to threatened or endangered fish species. The NHFGD suggest using consistent terminology as referenced in other portions of rules such as 'threatened or endangered species'.
- b) The identified no dredge dates of 'October 1 to March 31' may be recommended for some species but do not apply to fish species currently listed as threatened or endangered in NH. Avoiding impacts to threatened or endangered species during the spawning season is important, but impacts to the habitats which these species depend on could occur at any time of the year and impacts are determined by the type and scale of the project. The distribution of these threatened or endangered fish species is limited enough that we should be able to avoid and minimize impacts to these species throughout the year, as long as NHFGD is given adequate notification and involved early in the existing review process that currently exists.
- c) Because of #1 and 2 above, NHFGD recommends eliminating the reference to '**threatened or endangered fishery**' under 307:10g or alternatively applying a more general approach similar to Env-Wt. 310.03(c) such as 'Any work shall be timed and carried out to protect documented [cold water (in current rule referenced here)], threatened or endangered species.'

Env-Wt. 309.02 Projects Conditionally Authorized By Rule.

(1) Projects solely for the **physical/mechanical** removal of exotic aquatic weeds (EAW), subject to the following:

This suggestion is for clarification purposes and distinguishes alternative control methods other than control by herbicides.

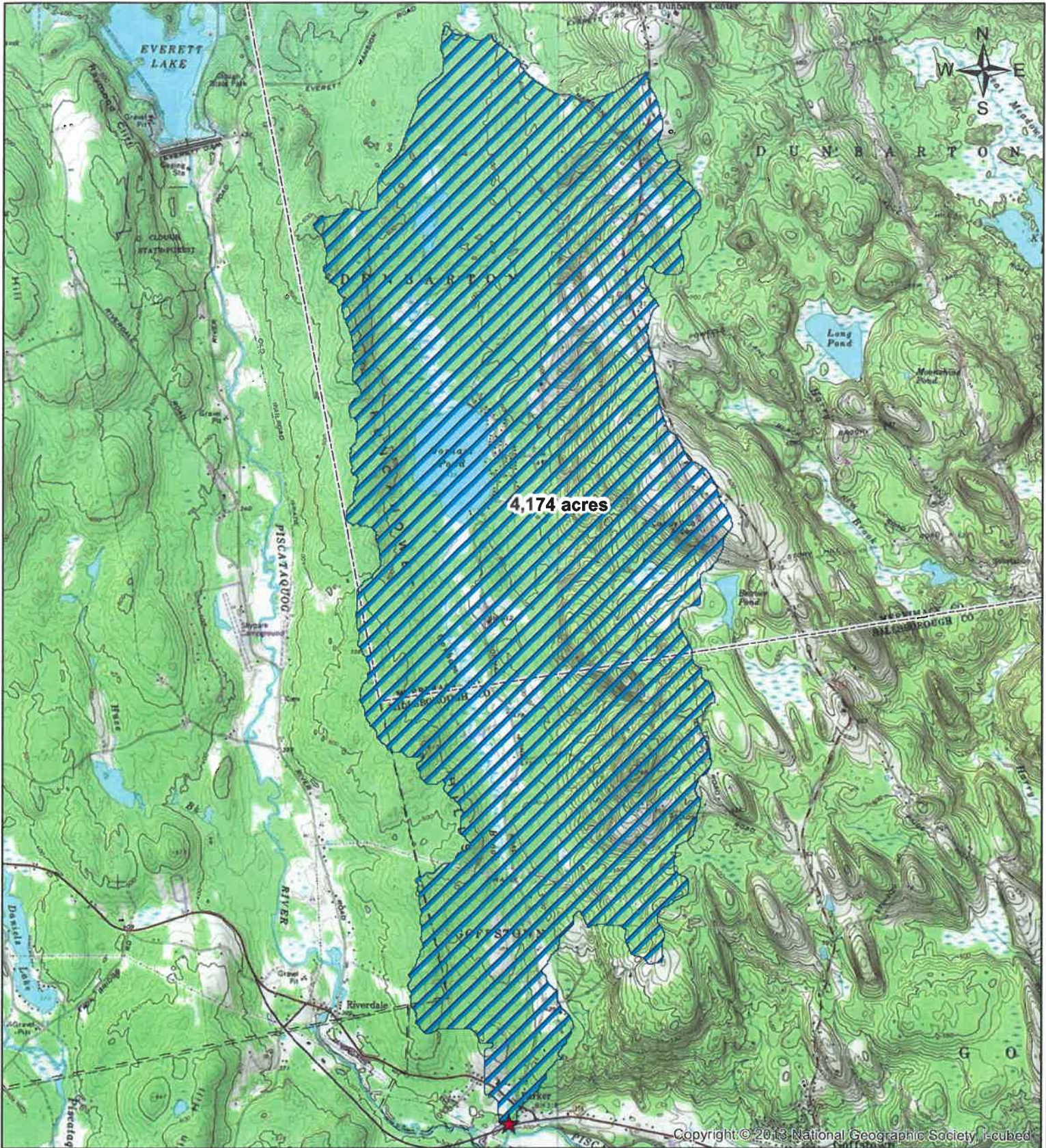
Thank you for this opportunity to comment. If you have any comments or questions, please do not hesitate to contact Carol Henderson, Environmental Review Coordinator at carol.henderson@wildlife.nh.gov. Thank you.

Sincerely,



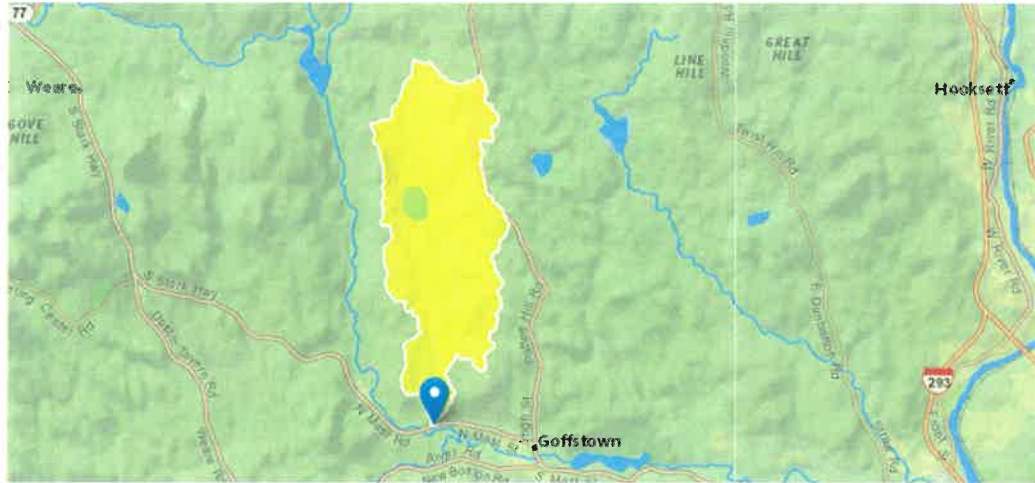
Glenn Normandeau
Executive Director

Goffstown, Project #42840



StreamStats Report, 42840

Region ID: NH
Workspace ID: NH20200427132232963000
Clicked Point (Latitude, Longitude): 43.02459, -71.62905
Time: 2020-04-27 09:22:49 -0400



Bridge 054/116 which carries NH 114 over Gorham Brook

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	6.52	square miles
APRAVPRE	Mean April Precipitation	3.707	inches
WETLAND	Percentage of Wetlands	10.8931	percent
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	21.7	feet per mi

General Disclaimers

The delineation point is in an exclusion area. WARNING! U.S. Army Corp of Engineers flood control reservoir upstream of this location. The regression equations are not applicable.

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

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	6.52	square miles	0.7	1290
APRAVPRE	Mean April Precipitation	3.707	inches	2.79	6.23
WETLAND	Percent Wetlands	10.8931	percent	0	21.8
CSL10_85	Stream Slope 10 and 85 Method	21.7	feet per mi	5.43	543

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

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

Statistic	Value	Unit	PII	PIu	SEp	Equiv. Yrs.
2 Year Peak Flood	114	ft ³ /s	69.8	185	30.1	3.2

Statistic	Value	Unit	Pll	Plu	SEp	Equiv. Yrs.
5 Year Peak Flood	184	ft ³ /s	112	304	31.1	4.7
10 Year Peak Flood	243	ft ³ /s	144	409	32.3	6.2
25 Year Peak Flood	323	ft ³ /s	186	563	34.3	8
50 Year Peak Flood	391	ft ³ /s	218	701	36.4	9
100 Year Peak Flood	472	ft ³ /s	254	876	38.6	9.8
500 Year Peak Flood	672	ft ³ /s	334	1350	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

NH Department of Transportation
Bureau of Bridge Maintenance
Project: Galbstown 054/116, #42840

P.E. Certification in Accordance with Env-Wt 904.

*Stream Crossing Rules for Standard Application Tier 3,
repair/preservation/rehabilitation project*

Crossing's Drainage Area: 6.52 square miles

Existing Conditions: The existing 16'3" wide by 10'10" multi-plate culvert was installed in 1972 during the relocation of NH 114. The culvert is 78' long. The outlet of the crossing is approximately 50' from the convergence of Gorham Pond Brook and the Piscataquog River. The existing crossing was designed to convey the 100-year flood event. There is no history of flooding or overtopping at this crossing. As shown on the longitudinal profile included in this application packet, the inlet channel has a slope of -3.2% entering the invert, the existing pipe slope is -0.13% and at the outlet the slope averages 6.4% over rocky steps. The existing culvert is in Poor condition and on the Department's Red List.

Project Description: The project proposes to install a six-inch reinforced concrete invert and removing it from the Department's Red List. The existing MRM headwalls will be repaired, brush and small trees cut from around the structure. Temporary impacts are proposed for employee access to the culvert and temporary diversion structures (cofferdams) to facilitate phased construction of the invert. Permeant impacts are proposed at the inlet of the structure to construct a cut off wall. No permeant impacts are proposed at the outlet.

Proposed Conditions: Due to flood control structures (dams) in the vicinity of the project and close relationship of Gorham Pond Brook to the Piscataquog River, we asked Tim Mallette from the NHDOT Bureau of Highway Design to look at the system. He used available LIDAR information, reports from the USACOE and various software programs to model the crossing before and after the proposed work. Based on his analysis the current and proposed conditions will convey the design storm event (100-year event) without overtopping.

I am proposing to leave the existing rip rap at the outlet of the pipe. This is 10 to 11" higher than the proposed outlet elevation and existing ground over the six feet of stream bed immediately downstream of the outlet. Past the location where the shots on the rip rap was taken the stream descends at a 7.7% slope to the Piscataquog River over large boulders. This rip rap will tend, with the relatively flat slope of the culvert, to back up water during low flow times. During higher flows, this rip rap disperses some of the energy and velocity of the water exiting the structure. The tail outlet velocities will increase due to the change in change in culvert bottom material but the tail water velocities are only minor impacted due to the existing stream geometry and composition.

**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)

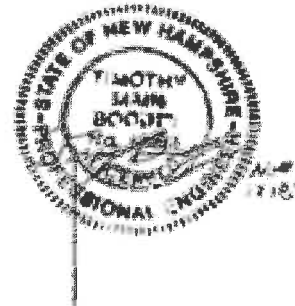
Env-Wt 904.09(c) A project shall qualify under this section only if a professional engineer certifies, and provides supporting analyses to show, that:

- (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 Blain Date: 1/21/2021





NEW HAMPSHIRE NATURAL HERITAGE BUREAU
NHB DATACHECK RESULTS LETTER

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

From: NH Natural Heritage Bureau

Date: 5/4/2020 (valid for one year from this date)

Re: Review by NH Natural Heritage Bureau of request submitted 4/27/2020

NHB File ID: NHB20-1159

Applicant: Arin Mills

Location: Goffstown
Bridge 054/116 which carries NH 114 over Gorham Brook

**Project
Description:** Work will include installation of reinforced concrete invert in
corrugated metal pipe.

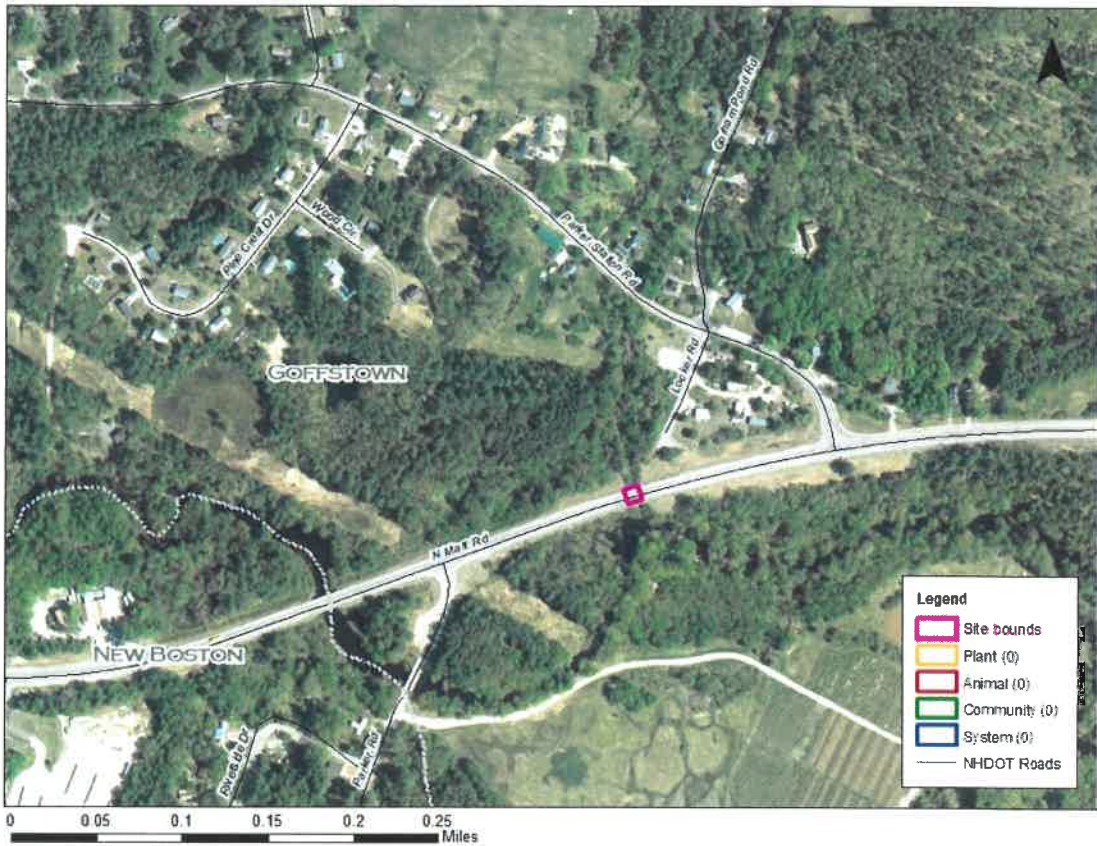
The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 4/27/2020, and cannot be used for any other project.



MAP OF PROJECT BOUNDARIES FOR: **NHB20-1159**

NHB20-1159





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 30, 2020

Consultation Code: 05E1NE00-2020-SLI-2381

Event Code: 05E1NE00-2020-E-07036

Project Name: Goffstown Bridge Maintenance, 42840

Subject: List of threatened and endangered species that may occur in your proposed project location, and/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://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: 05E1NE00-2020-SLI-2381

Event Code: 05E1NE00-2020-E-07036

Project Name: Goffstown Bridge Maintenance, 42840

Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: Work will include installation of reinforced concrete invert in corrugated metal pipe.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/43.024648433529286N71.62912350917603W>



Counties: Hillsborough, NH

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
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

Flowering Plants

NAME	STATUS
Small Whorled Pogonia <i>Isotria medeoloides</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1890	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
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<http://www.fws.gov/newengland>

IPaC Record Locator: 046-21519970

April 30, 2020

Subject: Consistency letter for the 'Goffstown Bridge Maintenance, 42840' 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 30, 2020 your effects determination for the 'Goffstown Bridge Maintenance, 42840' (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:

- Small Whorled Pogonia, *Isotria medeoloides* (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

Goffstown Bridge Maintenance, 42840

2. Description

The following description was provided for the project 'Goffstown Bridge Maintenance, 42840':

Work will include installation of reinforced concrete invert in corrugated metal pipe.

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/43.024648433529286N71.62912350917603W>



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 exempted 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. 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/angered/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 18, 2020**

From: **Arin Mills**

 Environmental Manager

 Bureau of Environment

Project: **Goffstown Bridge Maintenance, 42840**

RE: Small Whorled Pogonia Field Review

The above referenced project is proposed to conduct bridge preservation activities on bridge 054/116 which carries NH 114 over Gorham Brook in Goffstown. Bridge maintenance activities will include the installation of a reinforced concrete invert within the existing corrugated metal pipe, installation of cut off walls at the inlet/outlet and brush clearing near the wing walls.

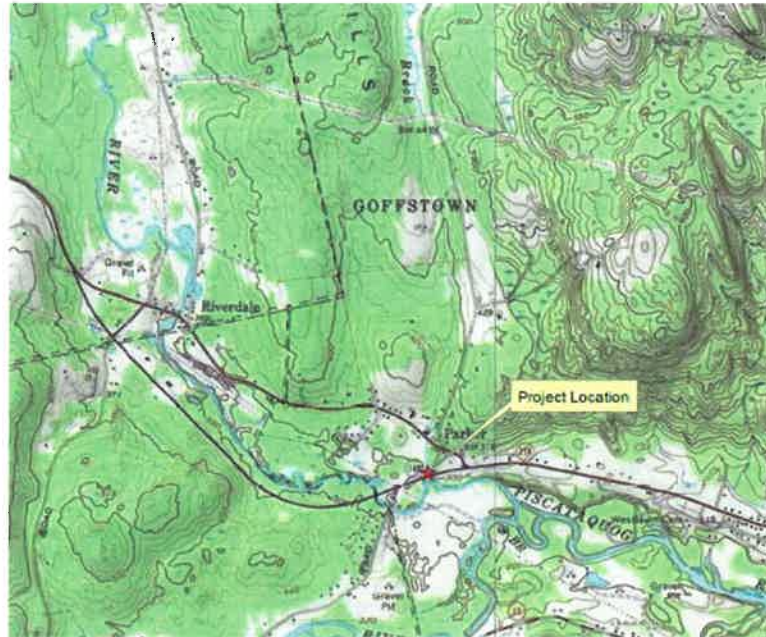
On May 6, 2020 I visited the project location and conducted a field review for Small Whorled Pogonia. The project area surrounding the existing bridge is a mixture of managed lawn with shrub immediately adjacent to the Gorham brook. According the US Fish and Wildlife Service Fact Sheet, the species grows in older hardwood stands with and an open understory. A review of the habitat within the action area for the project has determined suitable habitat is absent for the species. No individual plants were observed while onsite. No impacts to the species are anticipated.

Arin Mills
Environmental Manager
NH Department of Transportation

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.

PROJECT PROPOSAL: Proposed repair of bridge #054/116 which carries NH 114 over Gorham Brook, including installation of reinforced concrete invert in corrugated metal pipe. The bridge database lists the construction date of 1972.

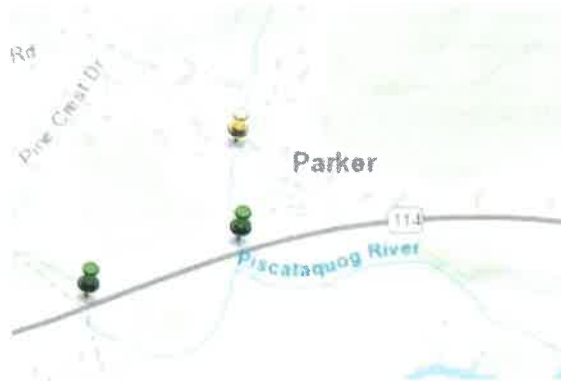


Goffstown, Project #42840



Above Ground Review

Known/approximate age of structures:



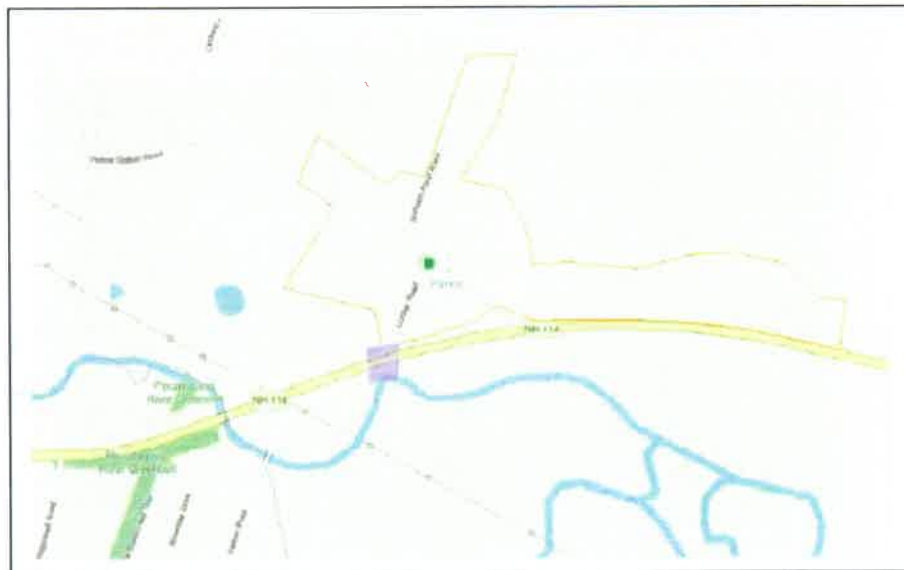
054/116 is a 1972 Metal Pipe, located approximately 70 ft south of the Parker Station Historic District

No Potential to Cause Effect/No Concerns

The bridge applies to the Program Comment for Post 1945 common bridge types and is therefore exempt from any Section 106 review.

Directly north of this project area is the Parker Station Historic District Area. As long as we keep our impacts within the ROW on the north there should be no issues running into it.

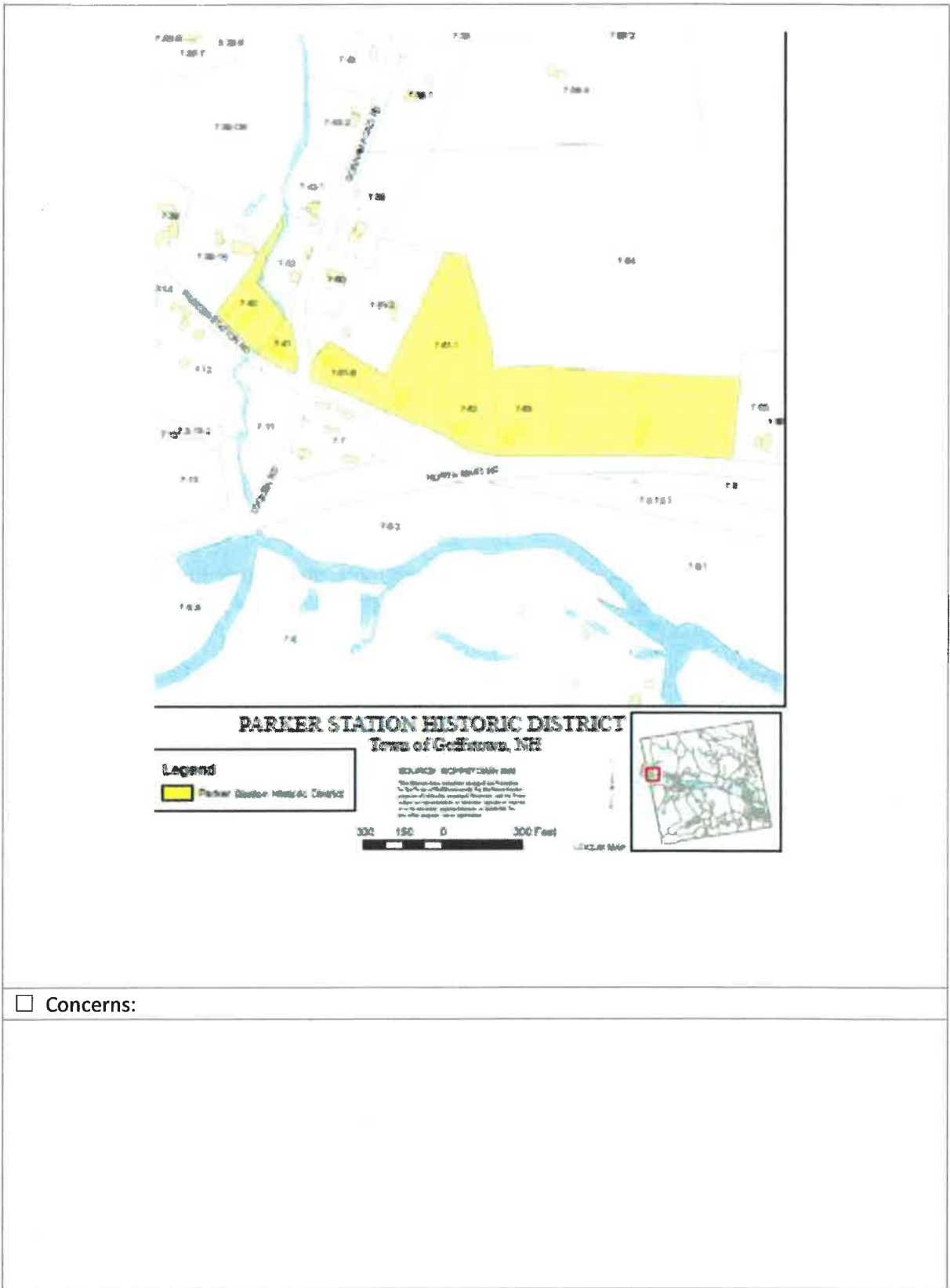
42840 Goffstown APE



April 26, 2020

- Individual Properties < 10 acres
- Historic Districts
- Counties

1:9,028
0 0.05 0.1 0.2
0 0.1 0.2 0.4 km



Below Ground Review

Recorded Archaeological site: Yes No

Nearest Recorded Archaeological Site Name & Number: 27-HB-0383 The Blueberry Site

Pre-Contact Post-Contact

Distance from Project Area: 555 ft west of the project area

The Archaeological Phase IA/IB (JMA 2007) that was undertaken revealed that the site contained both Pre- and Post- Contact elements. Pre-Contact elements dated to the Woodland Period and included ceramics, a quartz edge tool, quartz flakes, firecracked rock and charcoal. The Post-Contact component included artifacts (e.g., ceramics) dating to the early to mid 19th century. Archaeological Phase II was recommended.

No Potential to Cause Effect/No Concerns

Concerns:

EMMIT (NHDHR Enhanced Mapping & Management Information Tool) review on May 5, 2020 revealed no historic or archaeological resources within the project area but the APE is within relatively close proximity to known archaeological sites, both east and west of the project area.

As long as activities remain within the disturbed soils and footprint for installing the concrete invert, staging, access, etc, there are no concerns. If excavation is warranted, further review will be necessary.

Compiled and Reviewed by:

Sheila Charles

5/5/2020

NHDOT Cultural Resources Staff

Date:

New Hampshire Recordation of Bridges that Apply to the Program Comment for Common Post-1945 Concrete & Steel Bridges

Project Name: Goffstown
State Number: 42840 **FHWA Number:** State funded
Form Completed by: Sheila Charles **Date:** 11/30/2020
Email if not NHDOT staff: Click here to enter text.



Town	Goffstown	NHDOT Bridge No.	054/116
Year Built (rebuilt)	1972	Owner	NHDOT
Road carrying	NH 114	Over feature	Gorham Pond Brook
Reviewed by:		Date Reviewed:	11/30/2020

NHDOT Cultural Resources Staff

Approved

Not Approved

Justification: The 1972 Metal Pipe bridge applies to the Program Comment for Post 1945 Common Bridge Types and is therefore exempt from Section 106 review.

RPR Number: _____

Reviewed under PA: XXX

Created March 27, 2014

Updated September 15, 2014

Bridge/culvert Type	Metal Pipe	Number of Spans	1
Length	16'	Width	28'
Abutment style	masonry	Pier style	
Rail Type	W-Beam	Rail installation date:	
Designer/Engineer (if known)		Bridge Plaques or Engravings?	

Please refer to the *NHDOT Guidance on Using the Program Comment for Common Post-1945 Concrete and Steel Bridges*, located on the NHDOT Bureau of Environment Website, for information on using this form:

<http://www.nh.gov/dot/org/projectdevelopment/environment/units/program-management/cultural.htm>

Information on specific bridges can be found on the NHDOT Bureau of Bridge Design **Bridge Summary Spreadsheet**:

<http://www.nh.gov/dot/org/projectdevelopment/bridgedesign/documents.htm>.

(Additional photographs may be attached here if needed).

Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding

Appendix B Certification – Activities with Minimal Potential to Cause Effects

Date Reviewed: 11/17/2020

(Desktop or Field Review Date)

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

Project Name: Goffstown Bridge Maintenance

State Number: 42840

FHWA Number: N/A

Environmental Contact: Arin Mills
Email Address: Arin.mills@gsinet.net

DOT Project Manager: Tim Boodey

Project Description: Repair to bridge 054/116 which carries NH 114 over Gorham Brook. Work will include installation of 6" reinforced concrete invert in existing corrugated metal pipe, installation of 2' deep cut off/curtain walls at both inlet and outlet, clear brush from existing wing walls (no grubbing) and repair in-kind existing mortar rubble masonry wings

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: I. Installation of culvert inverts or slip-lining Choose an item.
<input 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:

Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding

Appendix B Certification – Activities with Minimal Potential to Cause Effects

	Choose an item. Choose an item.
<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.


The 1972 Metal Pipe bridge applies to the Program Comment for Post 1945 Common Bridge Types and is therefore exempt from Section 106 review. Work will include installation of a concrete invert lining and cut off walls at both in inlet and outlet of the inverts. Existing mortar rubble masonry wings will be repaired in kind. Bridge Maintenance indicates the work will remain in the DOT ROW, and no impacts to the nearby Parker Station Historic District. As for below ground concerns, all work will be conducted in the existing DOT ROW and within the existing disturbed footprint. Trees will be cut and brush removed surrounding the bridge, but no grubbing will occur.

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?	No	NHDHR R&C # assigned?	Click here to enter text.
Please identify public outreach effort contacts; method of outreach and date:	<u>An initial contact letter was sent to the town of Goffstown on May 18, 2020, to include the Heritage Commission. To date no comments relating to cultural resources have been received.</u>		

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:		11/30/2020	
			
_____ NHDOT Cultural Resources Staff		_____ Date	

Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding

Appendix B Certification – Activities with Minimal Potential to Cause Effects

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.

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.



**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?	X		
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.

1.1: Piscataquog River Impairment for Escherichia coli based on 2016 impairment list from DES

3.1: Additional communication with NH F&G (e-mail dated July 20, 2020) it was requested considerations for Wood turtles be included in the design. Awareness material will be provided to bridge maintenance crews while onsite, and the installation of the invert will not result in a perched condition which would inhibit movement of the species in the area once complete.

3.2: The project falls immediately adjacent to Highest Ranked habitat (2020 data), although is not within the project area.

4.1: As determined by FEMA, the project falls within a Floodway designation.



Photo 1: Looking East along NH 114



Photo 2: Looking West along NH 114

GOFFSTOWN, Project #42840.



Photo 3: Looking North (upstream) from NH 114



Photo 4: Looking South (downstream) at bridge inlet

GOFFSTOWN, Project #42840.



Photo 5: Looking South (downstream) from NH 114 at convergence with Piscataquog



Photo 6: Looking North (upstream) at bridge outlet

CONSTRUCTION SEQUENCE

Work is anticipated to take approximately 5 months to complete and is currently proposed to be done during the winter and spring. The concrete invert will be placed in two phases and then the existing headers rehabilitated within the same footprint.

1. Erosion control barrier will be added prior to earth disturbing activities
2. Limited tree clearing (no grubbing or removing stumps)
3. A clean water bypass pipe will be installed to maintain flows during construction as well as sandbag cofferdams to divert water into the bypass. Water within the work areas behind the cofferdam will be pumped to dewatering basins to allow for sediment to settle out prior to the water being introduced back into the system. Cofferdams and the clean water bypass pipe will be in place for the majority of the time it takes to complete the work. Work is proposed to be done during low flow; therefore, it is anticipated that the bypass pipe will only pass low flows.
4. Reinforced concrete invert will be installed in the culvert, cut off walls will be added to the inlet and outlet of the inverts.
5. Existing headwalls and wings will be rehabilitated.
6. Erosion control barrier will remain in place until slopes are stabilized by vegetation.

Note:

- A. The Project will utilize BMP's from the Best Management Practices manual during all phases of construction.
- B. Dewatering System Details per Env-WT 903.03

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

- (1) Estimated maximum flow anticipated during construction;

During the proposed time of construction during which the bypass will be in place as the clean water bypass, we anticipate a maximum flow of 115 CFS based on the inlet conditions. Given the time of year (late fall and winter) we would not expect to see that flow but will use it to size our clean water bypass

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

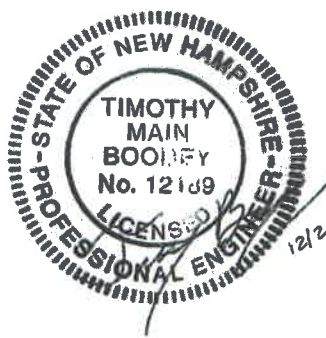
Sandbag cofferdams will be located as show on the plans. We anticipate a maximum height of 5.5' and maximum width of 5'.

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

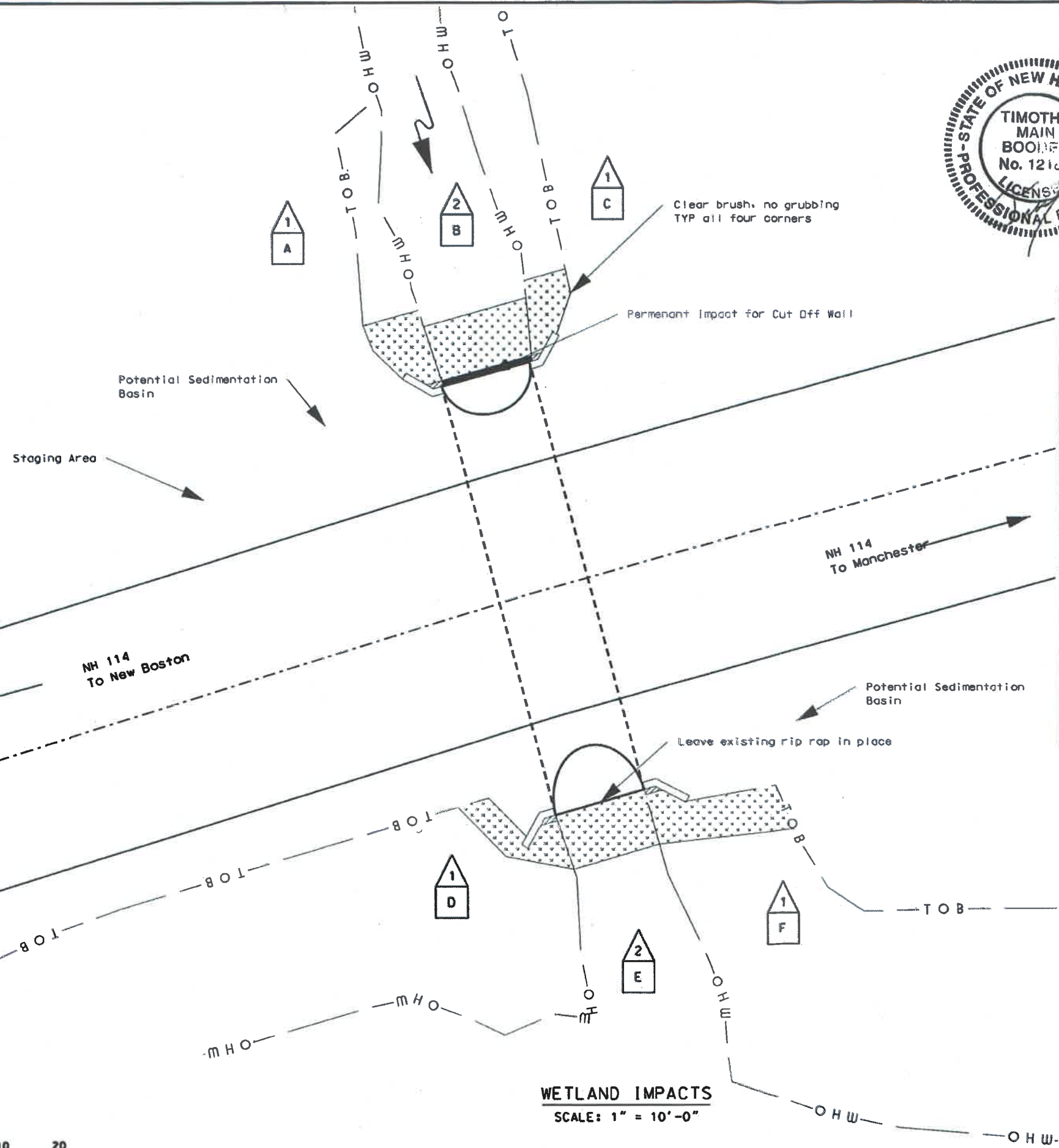
Potential sumps will be located just inside the work area between the headwalls and the sandbag cofferdams. They will large enough to accommodate up to a 3" pump per sump discharging to the detention basins.

- (4) Backwater prevention method;

Sandbag cofferdams will be located both upstream and downstream of the proposed work to prevent backwater from entering the work area.



RRIPRAP		Pattern Area - Library "archpa" cell "Rarrbi"
NEW HAMPSHIRE WETLANDS BUREAU (PERMANENT NON-WETLAND)		Pattern - Hatch 45 degrees
NEW HAMPSHIRE WETLANDS BUREAU & ARMY CORP OF ENGINEERS (PERMANENT WETLAND)		Solid - Color 12
TEMPORARY IMPACTS		Pattern Area - Library "archpa" cell "Cross", angle 45 degrees



WETLAND NUMBER	WETLAND CLASSIFICATION	LOCATION	AREA IMPACTS						LINEAR STREAM IMPACTS FOR MITIGATION		
			PERMANENT			TEMPORARY			PERMANENT		
			N.H.W.B. (NON WETLAND)	N.H.W.B. & A.C.O.E. (WETLAND)		TEMPORARY		BANK LEFT	BANK RIGHT	CHANNEL	
1	BANK	A	3	3			104	13			
2	RZUB12	B			16	1	175	10			
1	BANK	C	2	1			80	14			
1	BANK	D	3	1			104	9			
2	RZUB12	E					160	10			
1	BANK	F	3	1			180	9			
TOTAL			11	4	16	1	803	65	0	0	0

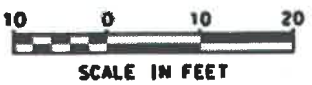
PERMANENT IMPACTS: 27 SF
 TEMPORARY IMPACTS: 803 SF
 TOTAL IMPACTS: 830 SF

SUBTOTALS	CLASS	DESCRIPTION	PERMANENT				TEMPORARY	
			N.H.W.B. (NON WETLAND)	N.H.W.B. & A.C.O.E. (WETLAND)		SF	LF	
	RZUB12	RIVERINE		16	1	335	20	
	BANK	BANK	11	4		468	45	

WETLAND CLASSIFICATION CODES	
RZUB12	RIVERINE, LOWER PERENNIAL, UNCONSOLIDATED BOTTOM, COBBLE GRAVEL AND SAND
BANK	

NOTE:
 1) NHDOT ROW extends 100' each side of the centerline of NH 114. All work will be performed within this ROW.

WETLANDS DELINEATED BY SARAH LARGE ON 10/25/2019
 WETLANDS WERE DELINEATED IN ACCORDANCE WITH ENV-WT 406



WETLAND IMPACTS
 SCALE: 1" = 10'-0"

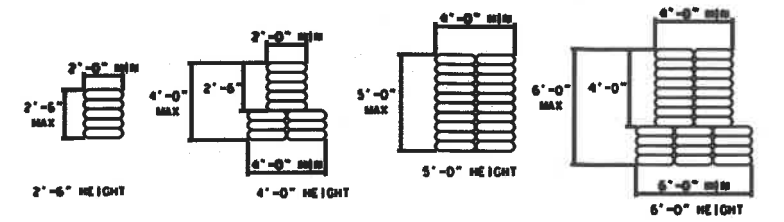
STATE OF NEW HAMPSHIRE							
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE							
TOWN	COFFSTOWN	BRIDGE NO.	054/16	STATE PROJECT	43840		
LOCATION NH 114 OVER GOREHAM POND BROOK							
WETLAND IMPACTS							
DESIGNED	TMB	9/2020	CHECKED			BRIDGE SHEET	1 OF 3
DRAWN	TMB	10/2020	CHECKED			FILE NUMBER	COFFSTOWN 054/16
QUANTITIES			CHECKED			TOTAL SHEETS	1
ISSUE DATE		FISCAL YEAR	2021	REV	14	SHEET NO	1
REV DATE							

SHEET SCALE AS NOTED



Potential Sedimentation Basin

Potential Sedimentation Basin



COFFERDAM DETAILS
NOT TO SCALE

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

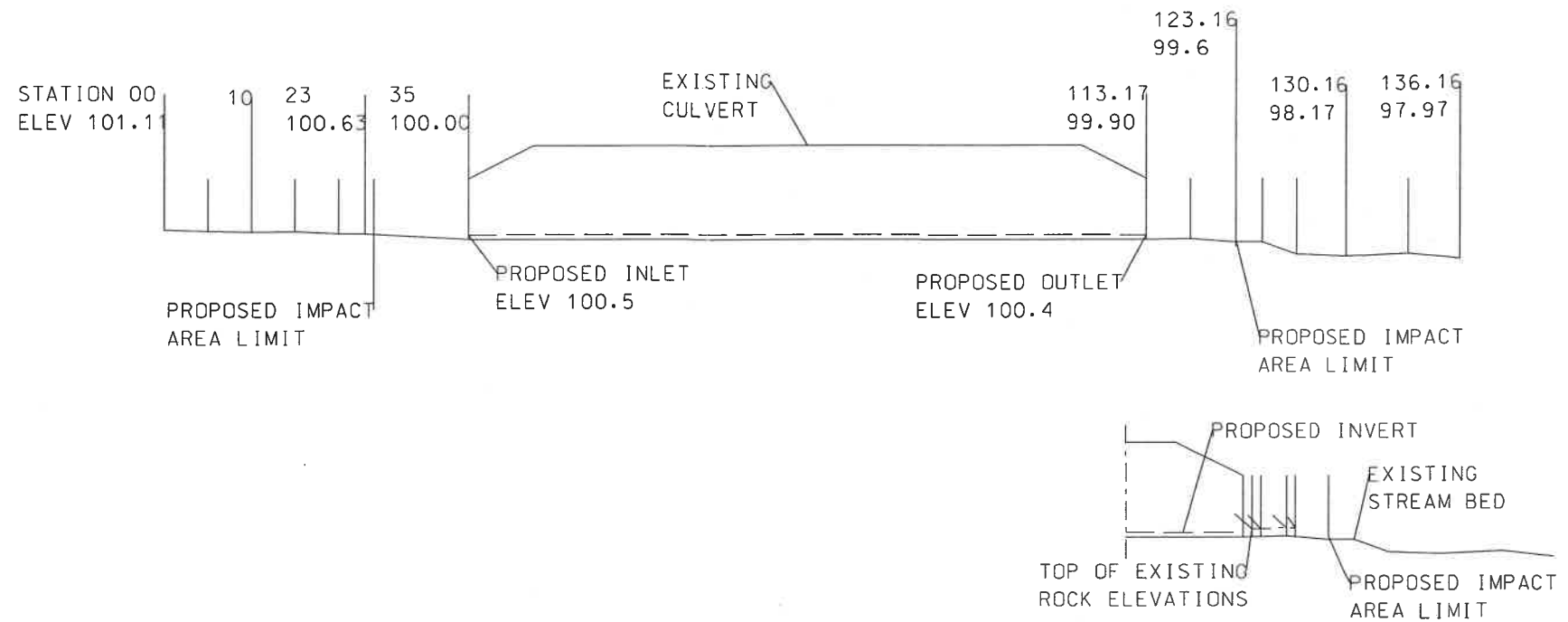
EROSION CONTROL PLANS

SCALE: 1" = 10'-0"

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE			
TOWN	GOFFSTOWN	BRIDGE NO.	054/116
STATE PROJECT	42840	LOCATION NII 114 OVER GORIAM POND BROOK	
EROSION CONTROL PLAN			
DESIGNED	TMB	9/2020	CHECKED
DRAWN	TMB	10/2020	CHECKED
QUANTITIES			CHECKED
ISSUE DATE		FISCAL YEAR	2021
REV. DATE		CREW	14
		SHEET NO.	2
		TOTAL SHEETS	3

SHEET SCALE
AS NOTED

BRIDGE SHEET
2 OF 3
FILE NUMBER
GOFFSTOWN
054/116



						Impact Limit	Culvert Inlet	Culvert Outlet		Impact Limit					
Station, FT	0	5	10	15	20	23	35	113.17	118.17	123.17	126.17	130.17	136.17	143.17	149.17
Exist. Elevation	101.11	100.94	100.84	100.91	100.68	100.63	100	99.90	100.02	99.6	98.59	98.17	97.97	98.3	97.63
Proposed Elevation	101.11	100.94	100.84	100.91	100.68	100.63	100.5	100.4	100.02	99.6	98.59	98.17	97.97	98.3	97.63
Proposed Change, FT	0	0	0	0	0	0	0.5	0.5	0	0	0	0	0	0	0
								Culvert Outlet							
						Elevation top of existing rocks	Station, FT	113.17	114	115	118	119			
							Exist. Elevation	99.9	100.86	100.81	100.92	100.96			

EROSION CONTROL PLANS
SCALE: 1" = 10'-0"

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE									
TOWN	GOFFSTOWN			BRIDGE NO.	054/116		STATE PROJECT	42840	
LOCATION NH 114 OVER GORHAM POND BROOK									
STREAM PROFILE									
REVISIONS AT THE PROPOSAL									
DESIGNED	TMB	9/2020	CHECKED						
DRAWN	TMB	10/2020	CHECKED						
QUANTITIES			CHECKED						
ISSUE DATE		FISCAL YEAR	CREW	SHEET NO.	TOTAL SHEETS				
REV. DATE		2021	14	3	3				

11-17-20

Goffstown, Project #42840

*all work within existing DOT Row



NH Department of Revenue Administration

Map depicting location of bridge 054/116 which carries NH 114 over Gorham Brook.



Map created by: Arin Mills on 4/23/2020

Source: S:\Environment\PROJECTS\GOFFSTOWN\42840



1911-12-15
1911-12-15

NORTH MAST ST

Location NORTH MAST ST

Mblu 7/ 8/ 2/ 1

Acct# 12124

Owner PISCATAQUOG WATERSHED
ASSN INC

Assessment \$100

PID 2114

Building Count 1

Current Value

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$0	\$100	\$100

Owner of Record

Owner PISCATAQUOG WATERSHED ASSN INC

Sale Price \$0

Co-Owner

Certificate

Address 5A MILL ST
NEW BOSTON, NH 03070

Book & Page 3013/0395

Sale Date 04/26/1983

Ownership History

Ownership History				
Owner	Sale Price	Certificate	Book & Page	Sale Date
PISCATAQUOG WATERSHED ASSN INC	\$0		3013/0395	04/26/1983
PISCATAQUOG WATERSHED ASSN INC	\$0		8425/2277	05/10/1012
PISCATAQUOG WATERSHED	\$0		3643/0155	09/11/0986

Building Information

Building 1 : Section 1

Year Built:

Living Area: 0

Replacement Cost: \$0

Building Percent Good:

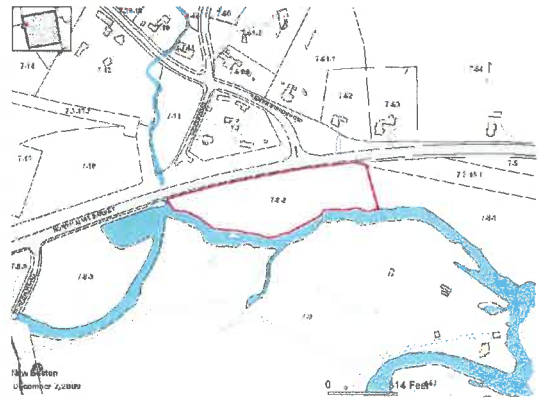
Replacement Cost

Less Depreciation: \$0

Building Photo

Building Attributes	
Field	Description
Style	Vacant Land
Model	

Grade:	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	
Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Fir 1	
Interior Fir 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Num Kitchens	
Cndtn	
Usrflid 103	
Usrflid 104	
Usrflid 105	
Usrflid 106	
Usrflid 107	
Num Park	
Fireplaces	
Usrflid 108	
Usrflid 101	
Usrflid 102	
Usrflid 100	
Usrflid 300	
Usrflid 301	



(<http://images.vgsi.com/photos/GoffstownNHPhotos/A00/00/59/41.jpg>)

Building Layout

(ParcelSketch.ashx?pid=2114&bid=2168)

Building Sub-Areas (sq ft)	Legend
No Data for Building Sub-Areas	

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 7136
Description OTHER FOREST-6
Zone R1
Neighborhood NW3
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 3.36
Frontage 850
Depth 1
Assessed Value \$100

Outbuildings

Outbuildings	<u>Legend</u>
No Data for Outbuildings	

Valuation History

Assessment			
Valuation Year	Improvements	Land	Total
2019	\$0	\$100	\$100
2018	\$0	\$100	\$100
2017	\$0	\$100	\$100

21 PARKER STATION RD

Location 21 PARKER STATION RD

Mblu 7/ 11/ / /

Acct#

Owner SIRRON DEVELOPMENT LLC

Assessment \$121,300

PID 2118

Building Count 1

Current Value

Assessment			
Valuation Year	Improvements	Land	Total
2018	\$10,200	\$111,100	\$121,300

Owner of Record

Owner SIRRON DEVELOPMENT LLC

Sale Price \$80,000

Co-Owner

Certificate

Address 1361 ELM STREET, #106
MANCHESTER, NH 03101

Book & Page 9263/0034

Sale Date 02/18/2020

Instrument 13

Ownership History

Ownership History					
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
SIRRON DEVELOPMENT LLC	\$80,000		9263/0034	13	02/18/2020
GOFFSTOWN HISTORICAL SOCIETY	\$10,000		9260/2485	56	02/10/2020
GOFFSTOWN HISTORICAL SOCIETY	\$23,000		6398/0852	1P	04/19/2001
CARPENTER, FL REV TRST OF 1996	\$0		5697/1088		03/05/1996
CARPENTER, FELIX L	\$0		5645/0847		08/01/1995

Building Information

Building 1 : Section 1

Year Built: 2020
Living Area: 1,664
Replacement Cost: \$204,821
Building Percent Good: 5
Replacement Cost
Less Depreciation: \$10,200

Building Photo

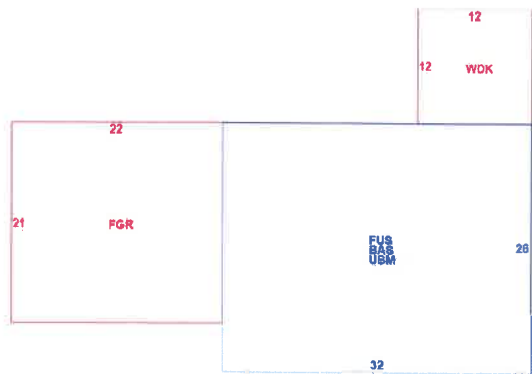
Building Attributes	
Field	Description

Style	Colonial
Model	Residential
Grade:	Average-3
Stories:	2
Occupancy	1
Exterior Wall 1	Vinyl Siding
Exterior Wall 2	
Roof Structure:	Gable/Hip
Roof Cover	Asph/F GlS/Cmp
Interior Wall 1	Drywall/Sheet
Interior Wall 2	
Interior Flr 1	Hardwood
Interior Flr 2	Carpet
Heat Fuel	Propane
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2
Total Half Baths:	1
Total Xtra Fixtrs:	0
Total Rooms:	5
Bath Style:	Average
Kitchen Style:	Average
Num Kitchens	
Cndtn	
Usrflid 103	
Usrflid 104	
Usrflid 105	
Usrflid 106	
Usrflid 107	
Num Park	
Fireplaces	
Usrflid 108	
Usrflid 101	
Usrflid 102	
Usrflid 100	
Usrflid 300	
Usrflid 301	



(http://images.vgsi.com/photos/GoffstownNHPhotos/A0014\DSC00004_14420.JPG)

Building Layout



(ParcelSketch.aspx?pid=2118&bid=2172)

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	832	832
FUS	Upper Story, Finished	832	832
FGR	Garage	462	0
UBM	Basement, Unfinished	832	0
WDK	Deck, Wood	144	0
		3,102	1,664

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 1010
Description Single Family
Zone R1
Neighborhood V3
Alt Land Appr No
Category

Land Line Valuation

Size (Acres) 1.5
Frontage 0
Depth 0
Assessed Value \$111,100

Outbuildings

Outbuildings		Legend
No Data for Outbuildings		

Valuation History

Assessment			
Valuation Year	Improvements	Land	Total
2019	\$0	\$112,400	\$112,400
2018	\$0	\$112,400	\$112,400
2017	\$0	\$92,800	\$92,800

Mills, Arin

From: Dick Ludders <rludds45@gmail.com>
Sent: Tuesday, May 19, 2020 10:06 AM
To: Mills, Arin
Subject: Re: DOT Bridge Maintenance Proposed- Goffstown Gorham Brook

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Thanks.
Dick Ludders
PRLAC

On Tue, May 19, 2020 at 7:33 AM Mills, Arin <Arin.Mills@dot.nh.gov> wrote:

Thank you for your questions Dick. As part of the permit application a hydraulic analysis will be developed as well as ensure ecological integrity is maintained in the design. The Department is still in development of the design plans and permit application package, once those are developed I can send those along as they relate to your questions.

Thanks again,

Arin Mills

Environmental Manager, Operations Management

NH Department of Transportation

Bureau of Environment

7 Hazen Drive, Concord, NH 03302

Ph: (603)271-0187

Arin.mills@dot.nh.gov

From: Dick Ludders <rludds45@gmail.com>
Sent: Monday, May 18, 2020 3:45 PM
To: Mills, Arin <Arin.Mills@dot.nh.gov>
Subject: Re: DOT Bridge Maintenance Proposed- Goffstown Gorham Brook

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Will the new invert reduce the cross section area of the culvert? Will either end of the culvert end up perched, blocking passage by aquatic organisms?

Dick Ludders

PRLAC

On Mon, May 18, 2020 at 10:55 AM Mills, Arin <Arin.Mills@dot.nh.gov> wrote:

Hello Dick,

The NHDOT is proposing to conduct bridge maintenance activities on bridge 054/116 which carries NH 114 over Gorham Brook (Project #42840) , near the convergence with the Piscataquog River. The proposed activity includes installation of a concrete invert (floor) to the existing corrugated metal pipe to repair rusting and pitting and extend the life of the structure. The proposed work is anticipated in winter of 2020 and will require a wetlands permit from NHDES. I have attached a map to show the project location.

Can you please review the project from your committee's perspective and let me know if you have any additional questions or concerns for the project at this time.

Thanks for your time!

Arin Mills

Environmental Manager, Operations Management

NH Department of Transportation

Bureau of Environment

7 Hazen Drive, Concord, NH 03302

Ph: (603)271-0187

Arin.mills@dot.nh.gov

Mills, Arin

From: Rousseau, James L CIV <James.L.Rousseau2@uscg.mil>
Sent: Monday, April 27, 2020 3:26 PM
To: Mills, Arin
Subject: RE: NHDOT Bridge Maintenance Repair USCG Review

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Arin,

This is in response to your e-mail dated April 27, 2020 and corresponding information. We have examined the areas with regard to their status as a navigable waters of the United States for purposes of Coast Guard bridge jurisdiction.

Our examination indicates that there is no sufficient factual support for concluding that (NH31 Goffstown NH, Stony Brook), (NH114 Wilton NH, Gorham Brook), (NH10, Trout Brook, Lyme NH) at the project locations, have current or historic navigation occurring on these waters 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.

Regards,

Jim

Jim Rousseau
Supervisory Bridge Management Specialist
United States Coast Guard District 1
408 Atlantic Ave
Boston, Ma. 02110-3350
617-223-8619

From: Mills, Arin <Arin.Mills@dot.nh.gov>
Sent: Monday, April 27, 2020 1:42 PM
To: Rousseau, James L CIV <James.L.Rousseau2@uscg.mil>
Subject: [Non-DoD Source] NHDOT Bridge Maintenance Repair USCG Review

Hello Jim,

I have been assigned review of 3 bridges where NHDOT will conduct bridge maintenance activities anticipated to begin in 2020. To streamline review I have included a basic project description, USGS top map as well as a GIS shapefile for each project location.

Goffstown (054/116).

Project # 42840. Carries NH 114 over Gorham Brook. Work will include installation of reinforced concrete invert in corrugated metal pipe.

Lyme (089/144).

Project # 43079. Carries NH 10 over Trout Brook. Work will include removal of sediment build-up at both the inlet and outlet in one of the two metal pipes.

Wilton (094/162).

Project #43076. Carries NH 31 over Stony Brook. Work will include replacement of the deck and superstructure, allowing the bridge to be removed from the states 'Redlist'.

Please provide any concerns the Coast Guard may have as it relates to any of these projects/locations. Feel free to reach out with and additional questions or information as it relates to the project

Arin Mills
Environmental Manager, Operations Management
NH Department of Transportation
Bureau of Environment
7 Hazen Drive, Concord, NH 03302
Ph: (603)271-0187
Arin.mills@dot.nh.gov

Mills, Arin

From: Dermody, Stephen P CIV USARMY CENAE (USA) <Stephen.P.Dermody@usace.army.mil>
Sent: Friday, October 16, 2020 10:04 AM
To: Mills, Arin
Cc: Boodey, Timothy
Subject: RE: Goffstown #42840 Real Estate Outgrant Eval for NHDOT
Attachments: 72-2.pdf

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Hi Arin,

I wanted to follow up on this. Sorry this had slipped through the cracks. There is already an existing consent to Easement for this area so no further real estate outgrant is required for the Corps.

Please let me know if you have any questions.

Thanks,
Steve Dermody

From: Mills, Arin <Arin.Mills@dot.nh.gov>
Sent: Monday, July 20, 2020 3:24 PM
To: Dermody, Stephen P CIV USARMY CENAE (USA) <Stephen.P.Dermody@usace.army.mil>
Cc: Boodey, Timothy <Timothy.Boodey@dot.nh.gov>
Subject: [Non-DoD Source] Goffstown #42840 Real Estate Outgrant Eval for NHDOT

Hello Steve,

I am the Environmental Manager for the above referenced project which proposes to repair bridge 054/162 which carries NH 114 over Gorham Pond Brook in Goffstown. Work will include installation of 6" reinforced concrete invert in existing corrugated metal pipe, installation of 2' deep cut off/curtain walls at both inlet and outlet, clear brush from existing wing walls and repair in-kind existing mortar rubble masonry wings. I have attached a map for reference which shows the adjacent conservation lands to the site.

As you are aware, Mike Hicks has let us know a Real Estate Outgrant (Consent to easement) evaluation may be needed for the project due to the proximity to USACE lands. Tim Boodey, DOT Bridge Maintenance Engineer (Cc'd above), is the project manager for the project. Please let us know what information you may need to complete the evaluation.

Thanks, and I look forward to hearing from you.

Arin Mills
Environmental Manager, Operations Management
NH Department of Transportation
Bureau of Environment
7 Hazen Drive, Concord, NH 03302
Ph: (603)271-0187
Arin.mills@dot.nh.gov

DEPARTMENT OF THE ARMY
New England Division, Corps of Engineers
424 Trapelo Road

Real Estate File

Hopkinton-Everett Lakes
New Hampshire

Tracts Nos. 2707E-2, 2710E
2711E-1, 2711E-2
and 2800E

CONSENT TO EASEMENT STRUCTURES

WHEREAS, by virtue of the following deeds:

Deed dated 27 October 1965 from Boston and Maine Corporation for Tract 2707E-2

Deed dated 2 March 1963 from Arthur D. Bailey for Tract 2710E

Deed dated 21 March 1967 from Walter Tirrel and Carol Tirrel for Tracts 2711E-1 and 2711E-2

Deed dated 12 September 1963 from Florence C. Dow for Tract 2800E

the Government has acquired flowage easements over the above-numbered tracts of land, which flowage easements, by their terms, reserve to the Government the right of prior approval of any structures that may be constructed and maintained on the land; and

WHEREAS, the State of New Hampshire, Department of Public Works and Highways, has, or is in the process of acquiring from the landowner, an easement for the construction, operation and maintenance of a public highway and bridge structure, Route 114, over and across the said land at the point lined in red on the attached drawings entitled:

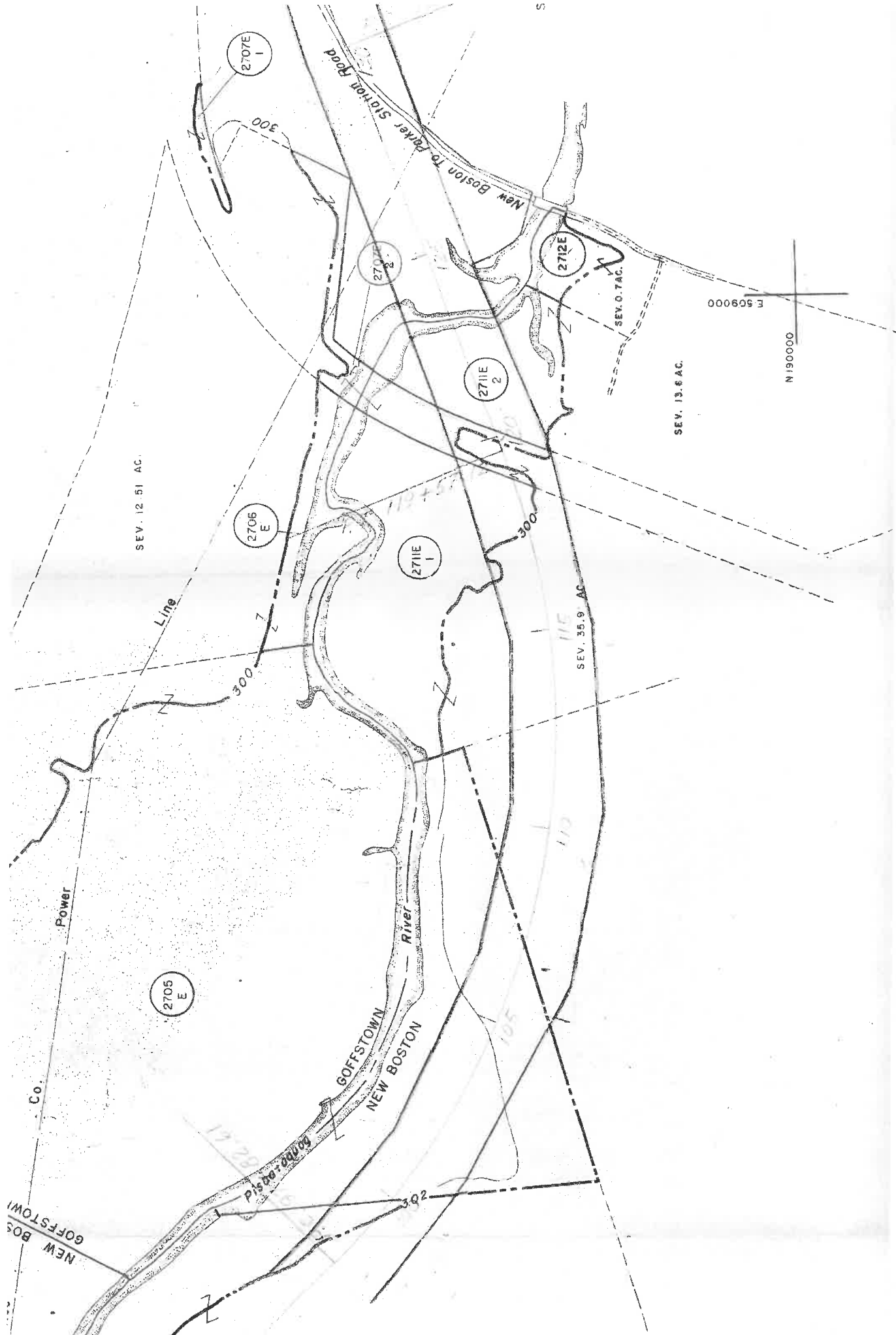
Segments 27 and 28, Real Estate, Hopkinton-Everett Lakes,
Sheets 27 and 28 of 31, Drawing Nos. 1633 and 1634

WHEREAS, the said highway will require construction on the land which must be approved by the Government, in writing.

NOW THEREFORE, by virtue of the authority vested in the Government under the terms of the flowage easement, consent is hereby given to the construction of said highway, which shall be in accordance with the drawings attached hereto, such consent to be effective only insofar as the rights of the United States in the property involved are concerned.

Waltham, Massachusetts, 31 March 1972

M. S. Phillips
M. S. PHILLIPS
Chief, Real Estate Division



SEV. 12.51 AC.

SEV. 13.6 AC.

SEV. 35.9 AC.

E 509000

N 190000

Line

Power

GOFFSTOWN RIVER
NEW BOSTON

New Boston to Porter Station Road

2706 E

2707E

2711E

2712E

2712E

300

300

105

110

115

302

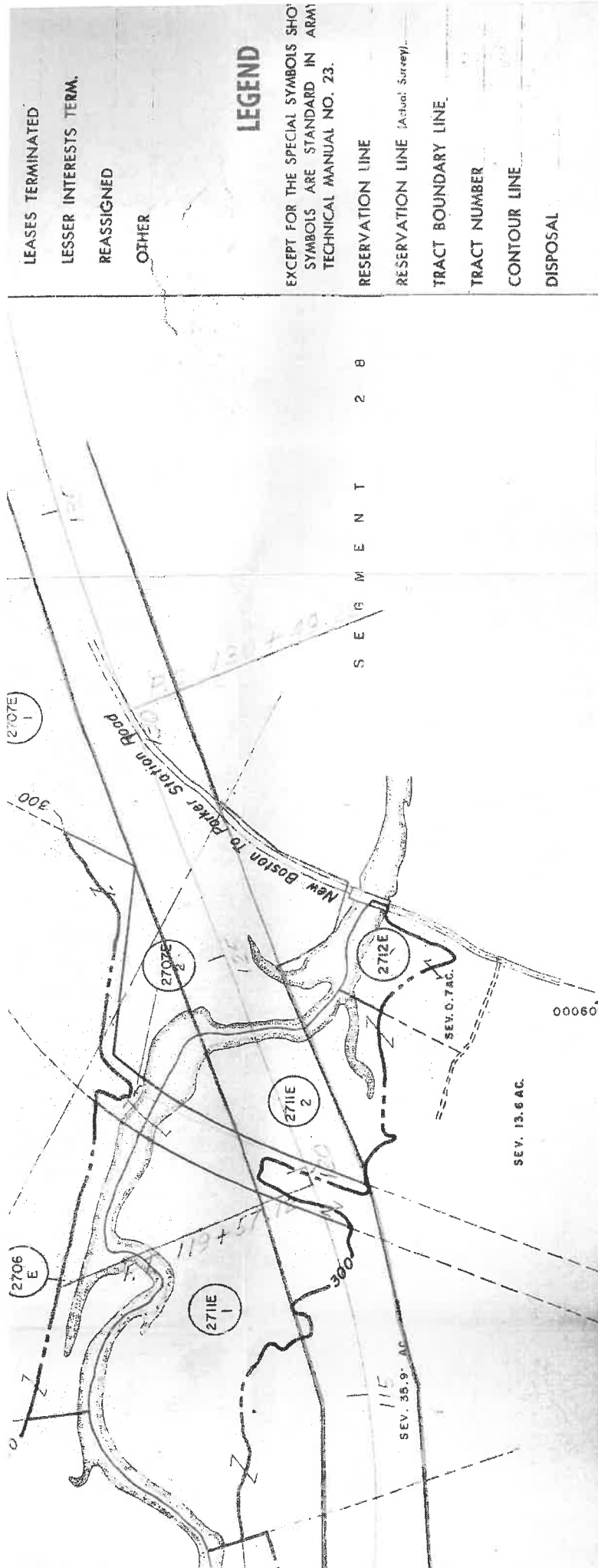
12-28

P1506-00009

NEW BOS
GOFFSTOWN

Co.

S



S E G M E N T 2 8

LEASES TERMINATED
 LESSER INTERESTS TERM.
 REASSIGNED
 OTHER

LEGEND

EXCEPT FOR THE SPECIAL SYMBOLS SHOWN
 SYMBOLS ARE STANDARD IN ARMY
 TECHNICAL MANUAL NO. 23.

RESERVATION LINE
 RESERVATION LINE (Actual Survey)
 TRACT BOUNDARY LINE
 TRACT NUMBER
 CONTOUR LINE
 DISPOSAL

SEGMENT 27

NEW ENGLAND SURVEY SERVICE INC.
 BOSTON, MASS.
 ARCHITECT - ENGINEER

U. S. ARMY ENGINEER DIVISION,
 CORPS OF ENGINEER
 WALTHAM, MASS.

DRAWN BY: H. F.
 TRACED BY: A. M. O.
 CHECKED BY: T. O. R.
 SUBMITTED BY:
 12-22-61

REAL ESTATE
HOPKINTON - EVERETT L

APPROVED BY: *[Signature]*
 COLONEL, C. E. DIVISION ENGINEER
 OFFICE, CHIEF OF ENGINEERS, WASHINGTON 25, D. C.

DATE	REVISIONS	BY
6-1-71	Title changed - ER 1120-2-111, dated 2-17-71	
10/20/68	Owners name changed - Tract 2 709E	JOS
10/14/66	Tract 2711E-2 revised and Tract 2712E added	JOS
7/22/62	Tract 2708E revised	JOS
5/18/62	Tract 2704E dropped from tract register	JOS
4-5-62	Tracts 2700E & 2701E revised	JOS

INSTALLATION OR PROJECT NO. SHEET 27 OF 31 DRAWING

00° 01' 41"

