

# STATE OF NEW HAMPSHIRE INTER-DEPARTMENT COMMUNICATION

**DATE:** January 20, 2022

**FROM:** Joshua Brown  
Wetlands Program Analyst

**AT (OFFICE):** Department of  
Transportation

**SUBJECT** Dredge & Fill Application  
Campton, 42097

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. The project is located along NH Route 3 in the Town of Campton, NH. The proposed work consists of bridge maintenance to bridge 108/058 which carries Route 3 over Bog Brook. Work will include installation of a concrete toewall along the north abutment and placement of riprap along northern abutment and southeast wing wall.

This project was reviewed at the Natural Resource Agency Coordination Meeting on June 20, 2018 and August 18, 2021. 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 #669495) in the amount of \$965.20

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.

JRB:jrb

cc:

BOE Original

Town of Campton (4 copies via certified mail)

Pemigewasset River LAC (1 copy via certified mail)

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

John Magee, NH Fish & Game (via electronic notification)

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

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 **TOWN NAME:** Campton

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

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

<b>SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; RSA 482-A:3, I(d)(2))</b>	
Please use the <u>Wetland Permit Planning Tool (WPPT)</u> , the Natural Heritage Bureau (NHB) <u>DataCheck Tool</u> , the <u>Aquatic Restoration Mapper</u> , or other sources to assist in identifying key features such as: <u>priority resource areas (PRAs)</u> , <u>protected species or habitats</u> , coastal areas, designated rivers, or designated prime wetlands.	
Has the required planning been completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does the property contain a PRA? If yes, provide the following information:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<ul style="list-style-type: none"> <li>• Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&amp;G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04.</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<ul style="list-style-type: none"> <li>• Protected species or habitat?                             <ul style="list-style-type: none"> <li>○ If yes, species or habitat name(s): <span style="background-color: #cccccc; padding: 0 20px;"> </span></li> <li>○ NHB Project ID #: NHB21-2670</li> </ul> </li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Bog?	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Designated prime wetland or duly-established 100-foot buffer?	<input type="checkbox"/> Yes <input type="checkbox"/> No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the property within a Designated River corridor? If yes, provide the following information:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<ul style="list-style-type: none"> <li>• Name of Local River Management Advisory Committee (LAC): Pemigewasset River</li> <li>• A copy of the application was sent to the LAC on Month: 1 Day: 20 Year: 2022</li> </ul>	

[irm@des.nh.gov](mailto: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](http://www.des.nh.gov)

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
For stream crossing projects, provide watershed size (see <u>WPPT</u> or Stream Stats): 10.07 Sq. mi.	
<b>SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))</b> Provide a <b>brief</b> description of the project and the purpose of the project, outlining the scope of work to be performed and whether impacts are temporary or permanent. DO NOT reply "See attached"; please use the space provided below.	
The proposed bridge maintenance to bridge 108/058 which carries US Route 3 over Bog Brook. Work will include installation of a concrete toewall along the north abutment and place rip rap along northern abutment and SE wingwall to address scour. Work will repair existing deficiencies, as well as protect the existing infrastructure. Permanent impacts for installation of rip rap and toe wall Temporary impacts will include areas needed for access and installation of erosion control measures	
<b>SECTION 3 - PROJECT LOCATION</b> Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.	
ADDRESS: US Route 3 over Bog Brook	
TOWN/CITY: Campton	
TAX MAP/BLOCK/LOT/UNIT: DOT ROW	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: Bog Brook <input type="checkbox"/> N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	
43'47'53.9° North -71'40'25.6° West	

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

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

Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters):  
Env-Wt400: A wetlands delineation was done by NHDOT Doug Locker on June 8, 2018 and verified by NHDOT Matt Urban on July 27, 2021. Impacts to a Riverine Lower Perennial Unconsolidated Bottom Cobble/Gravel/Sand (R2UB12).  
Env Wt500: Maintenance of public highway under Env-Wt 527  
Env-Wt600: The project is not located in a coastal or tidal area  
Env-Wt700: No Prime wetlands are within the project area  
Env-Wt900: Work is under 904.09 for repair/rehabilitation of existing Tier 3 structure, see PE certification within application.

**SECTION 8 - AVOIDANCE AND MINIMIZATION**

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

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

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

**SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)**

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

Mitigation Pre-Application Meeting Date: Month: 08 Day: 18 Year: 2021

N/A - Mitigation is not required

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

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

N/A – Compensatory mitigation is not required

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

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

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

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

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

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

JURISDICTIONAL AREA		PERMANENT			TEMPORARY		
		SF	LF	ATF	SF	LF	ATF
Wetlands	Forested Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Scrub-shrub Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Emergent Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Wet Meadow			<input type="checkbox"/>			<input type="checkbox"/>
	Vernal Pool			<input type="checkbox"/>			<input type="checkbox"/>
	Designated Prime Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Duly-established 100-foot Prime Wetland Buffer			<input type="checkbox"/>			<input type="checkbox"/>
Surface Water	Intermittent / Ephemeral Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Perennial Stream or River	151	40	<input type="checkbox"/>	807	104	<input type="checkbox"/>
	Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - River			<input type="checkbox"/>			<input type="checkbox"/>
Banks	Bank - Intermittent Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Bank - Perennial Stream / River	344	31	<input type="checkbox"/>	1111	111	<input type="checkbox"/>
	Bank / Shoreline - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
Tidal	Tidal Waters			<input type="checkbox"/>			<input type="checkbox"/>
	Tidal Marsh			<input type="checkbox"/>			<input type="checkbox"/>
	Sand Dune			<input type="checkbox"/>			<input type="checkbox"/>
	Undeveloped Tidal Buffer Zone (TBZ)			<input type="checkbox"/>			<input type="checkbox"/>
	Previously-developed TBZ			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
<b>TOTAL</b>		<b>495</b>	<b>71</b>		<b>1918</b>	<b>215</b>	

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

**MINIMUM IMPACT FEE:** Flat fee of \$400.

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

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

Permanent and temporary (non-docking): 2413 SF × \$0.40 = \$ 965.2

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

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

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

Total = \$ 965.2

**The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 965.2**

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**SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05)**  
 Indicate the project classification.

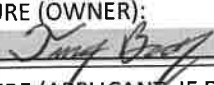
Minimum Impact Project     
  Minor Project     
  Major Project

**SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)**

**Initial each box below to certify:**

Initials: TMB _____ _____	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: TMB _____ _____	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: TMB _____ _____	The signer understands that: <ul style="list-style-type: none"> <li>• The submission of false, incomplete, or misleading information constitutes grounds for NHDES to:                         <ol style="list-style-type: none"> <li>1. Deny the application.</li> <li>2. Revoke any approval that is granted based on the information.</li> <li>3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1.</li> </ol> </li> <li>• The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641.</li> <li>• The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II.</li> </ul>
Initials: TMB _____ _____	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. N/A TMB

**SECTION 15 - REQUIRED SIGNATURES (Env-Wt 311.04(d); Env-Wt 311.11)**

SIGNATURE (OWNER): 	PRINT NAME LEGIBLY: Timothy Boodey	DATE: 1/14/2022
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER): _____	PRINT NAME LEGIBLY: _____	DATE: _____
SIGNATURE (AGENT, IF APPLICABLE): _____	PRINT NAME LEGIBLY: _____	DATE: _____

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

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

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

**DIRECTIONS FOR TOWN/CITY CLERK:**

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

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

**DIRECTIONS FOR APPLICANT:**

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

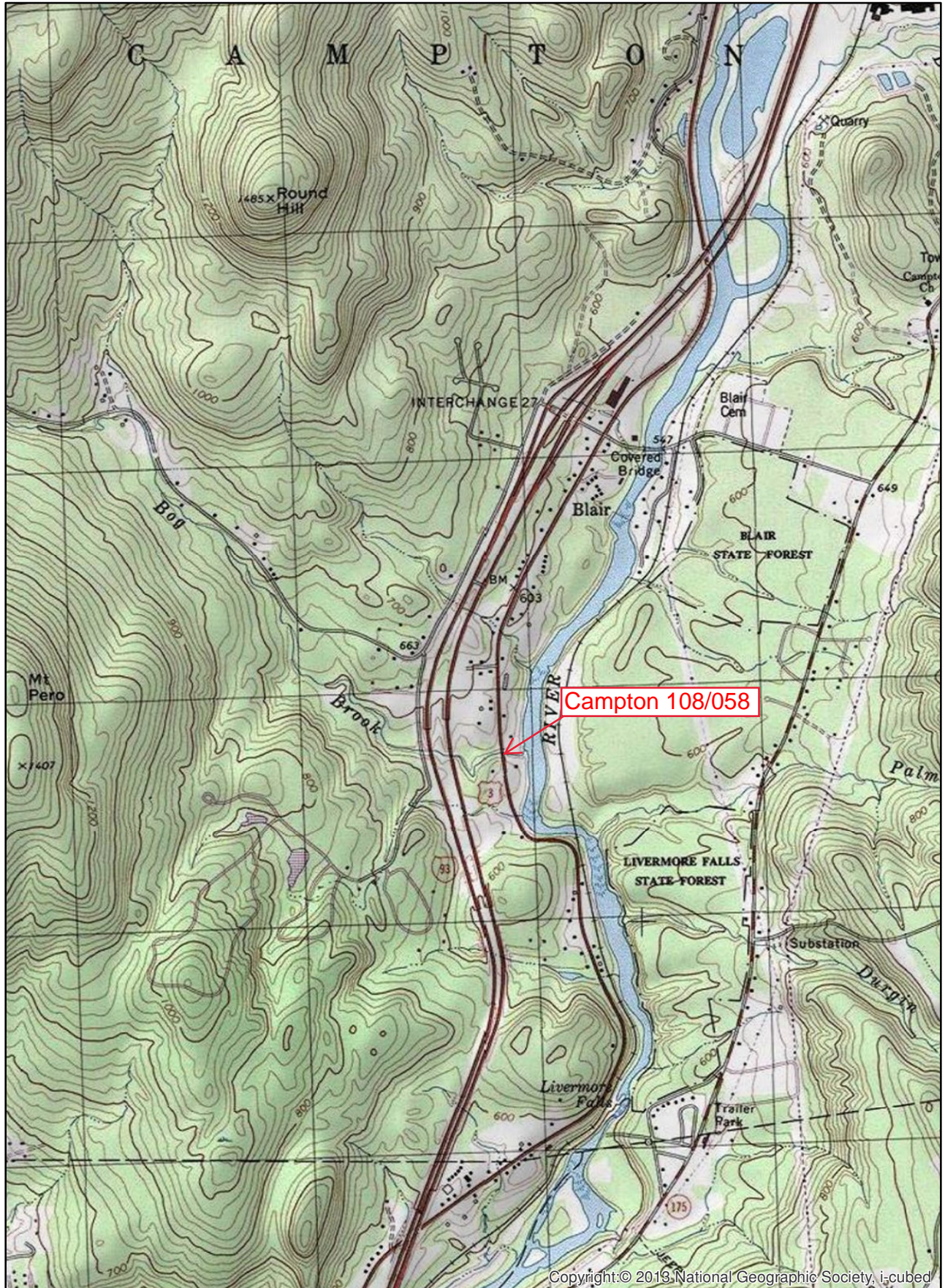
[irm@des.nh.gov](mailto:irm@des.nh.gov) or (603) 271-2147

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

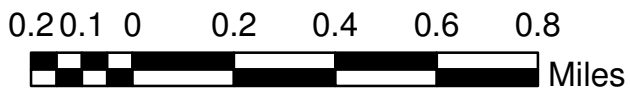
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# Campton 108/058, # 42097



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SCALE 1:24,000



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



Water Division/Land Resources Management  
Wetlands Bureau

[Check the Status of your Application](#)

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

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

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

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

**PART I: AVOIDANCE AND MINIMIZATION**

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

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

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

ALTERNATIVES CONSIDERED: BRIDGE REPLACEMENT, BRIDGE REPAIR AND NO ACTION. THE NO ACTION ALTERNATIVE WOULD NOT MEET THE PROJECT NEED TO ADDRESS EXISTING DAMAGE TO THE INFRASTRUCTURE. IF NO ACTION WAS TAKEN THE BRIDGE WOULD EVENTUALLY FALL INTO DISREPAIR AND RESULT IN UNSAFE USE FOR THE TRAVELING PUBLIC, AND EVENTUAL CLOSURE OF THE BRIDGE. THE BRIDGE REPLACEMENT ALTERNATIVE WOULD REQUIRE THE INSTALLATION OF A 48' SPAN, COSTING APPROXIMATELY \$1,300,000. REPLACEMENT WOULD ALSO REQUIRE SIGNIFICANT IMPACTS TO WETLAND RESOURCES FOR REMOVAL AND CONSTRUCTION.

THE PREFERRED ALTERNATIVE IS REPAIR TO THE EXISTING INFRASTRUCTURE AND INSTALLATION OF PROTECTION MEASURES TO PREVENT FUTURE DAMAGE. THE PROPOSED PROJECT IS ANTICIPATED TO COST \$40,000 AND WILL BE DONE WITH IN-HOUSE RESOURCES. THIS ALTERNATIVE AVOIDS AND MINIMIZES IMPACTS TO WETLAND RESOURCES TO THE MAXIMUM EXTENT PRACTICABLE, WHILE MAINTAINING THE INTEGRITY AND SAFETY OF THE BRIDGE.

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

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

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 ALIGNMENT 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.

THE PROPOSED WORK WILL ADD A TOEWALL TO THE NORTH ABUTMENT AND PLACE RIP RAP ALONG THE NORTHERN ABUTMENT AND SOUTHEAST WINGWALL TO REPAIR AND PROTECT THE EXISTING INFRASTRUCTURE. THE PROPOSED PROJECT IS LIMITED TO AREAS REQUIRED FOR REPAIR AND ACCESS FOR EQUIPMENT TO INSTALL THE REPAIR AND PROTECTION MEASURES. THERE ARE NO KNOWN EXEMPLARY NATURAL COMMUNITIES, VERNAL POOLS OR PROTECTED SPECIES AND HABITAT WITHIN THE PROJECT AREA. ACCORDING TO THE NH WILDLIFE ACTION PLAN BOG BROOK IS A PREDICTED COLDWATER FISHERY WITH EASTERN BROOK TROUT. THE PROPOSED CONSTRUCTION WILL MAINTAIN STREAM CONNECTIVITY AND PROTECTION FROM STREAM SEDIMENTATION THROUGHOUT CONSTRUCTION. USE OF A SANDBAG COFFERDAM TO DIVERT THE STREAM TO ONE SIDE AT A TIME AND WILL ALLOW FISH SPECIES TO CONTINUE TO PASS THROUGHOUT CONSTRUCTION. EROSION CONTROL MEASURES WILL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROTECT THE STREAM FROM SEDIMENTATION

**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. BOG 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 AND 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.

NO FLOODPLAIN WETLANDS WITHIN THE MAPPED FEMA FLOOD HAZARD AREAS WILL BE IMPACTED AS PART OF THE PROJECT. THE TOEWALL REPAIRS AND RIP RAP WILL NOT INCREASE THE POTENTIAL OF FLOODING. THE STRUCTURE 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.

**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 BOG 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 BOG 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 PERMANNENT IMPACTS WILL REPAIR THE STRUCTURE AND PREVENT CONTINUED SCOUR. NEGATIVE IMPACTS TO STORMWATER RUNOFF ARE NOT ANTICIPATED, AND THE PROPOSED PROJECT WILL CONTINUE TO HANDLE RUNOFF [REDACTED]

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

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

N/A, no shoreline structures proposed

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

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

N/A, no shoreline structures proposed.

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

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

N/A, no shoreline structures proposed.

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

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

N/A, no shoreline structures proposed



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

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

N/A, no shoreline structures proposed

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

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

N/A, no shoreline structures proposed.

<b>PART II: FUNCTIONAL ASSESSMENT</b>	
<b>REQUIREMENTS</b>	Ensure that project meets the requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).
FUNCTIONAL ASSESSMENT METHOD USED: A stream crossing was performed using the NH Stream Crossing Guidelines	
NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: MATT URBAN	
DATE OF ASSESSMENT: 7/27/2021	
Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT: <input checked="" type="checkbox"/>	
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: <input type="checkbox"/>	
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'S NAME:** NH Department of Transportation

**TOWN NAME:** Campton

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

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

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

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

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

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

No, this is a bridge maintenance project that includes the installation of a concrete toewall and rip rap for scour protection

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

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

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

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

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

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

No, impacts cannot be avoided to jurisdictional areas as the project is to protect existing infrastructure that carries a stream. The footprint of the project is limited to areas with existing scour and damage to the structure. The proposed work will repair and rehabilitate existing damage, as well as protect infrastructure from future damage through use of rip rap.

Alternatives considered were replacement of the structure which would be estimated to cost \$1,300,000 and have substantially more impacts to jurisdictional areas.

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

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

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

A functional assessment was not completed for the project as the proposed work is repair to existing infrastructure impacting riverine jurisdiction only. A stream assessment was conducted on July 27, 2021 and is attached. The proposed project has a limited footprint that will address existing infrastructure damage, as well as protect the structure from future scour and damage. 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:** August 18, 2021

**LOCATION OF CONFERENCE:** Virtual meeting held via Zoom

## ATTENDED BY:

### NHDOT

Andrew O'Sullivan

Matt Urban

Mark Hemmerlein

Rebecca Martin

Arin Mills

Samantha Fifield

Maggie Baldwin

Marc Laurin

Jennifer Reczek

Tim Boodey

Joseph Jorgens

Jim MacMahon

Jeanie Brochi

### NHDES

Lori Sommer

### NHB

Jessica Bouchard

### Federal Highway

Jaimie Sikora

### NHFGD

Carol Henderson

### The Nature Conservancy

### LCHIP

### Consultants/ Public Participants

### EPA

### USACE

Mike Hicks

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

Finalize Meeting Minutes.....	2
Campton #42097 (Non-Federal) .....	2
Easton # 41249 (Non-Federal) .....	3
Dalton #2021-M111-1 (Non-Federal).....	4
Charlestown #43565, NH Route 12 Roadway Reopening.....	4

**NOTES ON CONFERENCE:****Finalize Meeting Minutes**

Finalized and approved the July 21, 2021 meeting minutes.

**Campton #42097 (Non-Federal)**

Arin presented the project location of bridge 108/058 which carries US 3 over Bog Brook in Campton. This is a state funded project which will be a repair to existing structure to address scour. The location of the project is along Bog Brook which flows approximately 6.3 miles from the headwaters in the WMNF in Rumney to the site and further flows from the site approx. 0.1 miles to the convergence to the Pemigewasset River. Based on StreamStats watershed delineation the stream is a Tier 3 crossing. Arin provided an overview of the history of the bridge to include construction in 1929, rehabilitation in 1976 & 1980 and additional rehabilitation in 2001 to include curb and rail replacement and widening. The site is located in a rural/residential area between Interstate 93 and the Pemigewasset River. Photos were shown of the bridge, to include upstream/downstream as well as the areas of proposed impacts.

Tim provided an overview of the project to include installation of a concrete toe wall along the north abutment back to the original NW wing. The existing structure is believed to be built on the original granite block foundation, and the depth of the foundation is unknown. The project will also place rip rap along the north abutment and southeast wing wall to address scour. Tim provided a preliminary wetlands impact plans to show both temporary and permanent impacts. Permanent impacts within the stream are anticipated from installation of the toe wall. The site has limited existing rip rap, and installation of rip rap along the NW and SE wings to address scour will generate permanent impacts for installation. Temporary impacts are required for access and staging throughout construction. Access to conduct the work will be via foot traffic, and materials/equipment will be lowered by a crane from the roadway.

Tim further provided an overview of the construction sequence, to include installation of perimeter controls, cofferdam and silt boom at NW corner. Installation of forms and placement of toe walls will be done in the dry through use of a sedimentation basin in the upland. Use of a silt boom at the SE corner will be used during placement of the rip rap. Access and staging area will be revegetated as needed. The proposed work will not change the ability of the crossing to pass a 100-year storm event and there is no history of flooding at the crossing. Tim said an anticipated deck replacement will be occurring to the bridge in the next 1-2 years, and all staging is anticipated to be conducted from the abutment walls. An erosion control plan will be provided with the application.

Arin provided an overview of the environmental resources to include Bog Brook being a 3<sup>rd</sup> order stream and a Tier 3 stream with a drainage area of 6,441 acres calculated via StreamStats. The site is within the Pemigewasset River, a NH Designated River, and no previous permits were identified. Bog Brook is a predicted coldwater stream per the Wildlife Action Plan with Eastern Brook trout (hatchery) identified. A Natural Heritage Bureau review (NHB20-2781/NHB21-2670) has no recorded species occurrence and no Priority Resource Areas are in or adjacent to the project area. Bog Brook is within the 100-year floodplain with no BFE identified. The US Fish & Wildlife Service iPaC determined potential for Northern long-eared bat and a 4(d) consistency letter was generated. Section 106 determined No Potential to Cause Effect. Bog Brook is Essential Fish Habitat and coordination with NOAA is pending. No comments from the group?

# BUREAU OF ENVIRONMENT CONFERENCE REPORT

**SUBJECT:** NHDOT Monthly Natural Resource Agency Coordination Meeting

**DATE OF CONFERENCE:** June 20, 2018

**LOCATION OF CONFERENCE:** John O. Morton Building

**ATTENDED BY:**

**NHDOT**

Matt Urban  
Sarah Large  
Mark Hemmerlein  
Samuel Lanternier  
Griffin Parodi  
Marc Laurin  
Keith Cota  
John Butler  
Wendy Johnson  
Bob Landry  
Maggie Baldwin

**ACOE**

Mike Hicks

**Federal Highway  
Administration**

Jamie Sikora

**NHDES**

Gino Infascelli  
Lori Sommer  
Tim White  
Andrew Madison

**NHF&G**

Carol Henderson

**Consultants/Public  
Participants**

Janusz Czyzowski  
Vicki Chase  
Chris Bean  
Vanessa Swasey  
Noah Elwood  
Christine Perron

*(When viewing these minutes online, click on an attendee to send an e-mail)*

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

May 16, 2018 Natural Resource Agency Meeting Minutes. ....	2
Campton, #42097 .....	2
Derry-Londonderry, #13065 (IM-0931(201)) .....	2
Portsmouth, #15731 (A000(909)) .....	5
Newington-Dover, #11238Q (NHS-027-1(037)) .....	7

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

**NOTES ON CONFERENCE:**

**May 16, 2018 Natural Resource Agency Meeting Minutes.**

**Campton, #42097**

Doug Locker provided an overview of the project including the location, the existing structure, the drainage basin, and the proposed work. The steel girder bridge located in Campton carrying US 3 over Bog Brook (108/058) was stated to have scour issues along the north abutment and the southeast wing. The purpose of the project is to rehabilitate the steel girder bridge by placing a concrete toe wall along the northern abutment as well as placing riprap along the northern abutment and the southeast wingwall area.

Mike Hicks asked if the project was federally funded. D. Locker responded no.

M. Hicks also mentioned that Bog Brook was essential fish habitat, and Gino Infascelli said that this was a coldwater fishery.

G. Infascelli asked that the designated river box and essential fish habitat box on the Natural Resource Agency Meeting Request Form is checked.

Matt Urban said there would be coordination for the essential fish habitat.

M. Hicks said there would likely be a time of year restriction for the project, and he mentioned there would need to be coordination with the NH Division of Historical Resources. M. Urban agreed on the coordination.

Carol Henderson asked what type of water diversion would be used. D. Locker stated that sandbag cofferdams would be used in this project.

Lori Sommer said she had no concerns for mitigation.

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

**Derry-Londonderry, #13065 (IM-0931(201))**

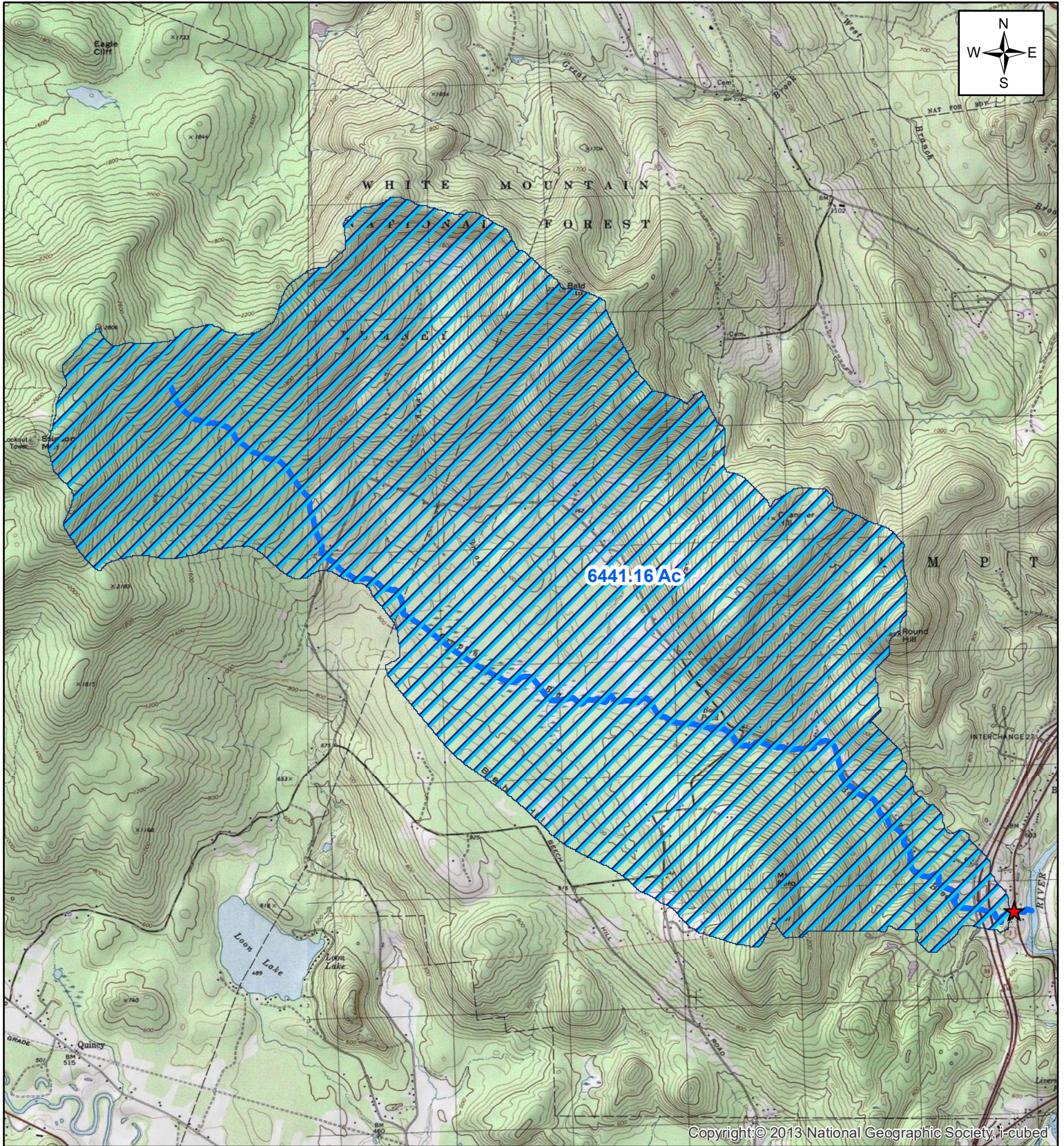
Chris Bean introduced the project. Since the previous Natural Resource Agency meeting on April 20, 2018, a Public Information Meeting was held on May 26, 2018 and another one is scheduled for July 25, 2018. The purpose of today's meeting is to discuss wetland impacts and proposed mitigation.

Chris Bean reviewed the purpose and need of the project. The purpose of the project is to "reduce congestion and improve safety along NH 102 from I-93 easterly through downtown Derry and promote economic vitality in the Derry/Londonderry area."

Vicki Chase reviewed previous mitigation "packages" that had been discussed for previous iterations of the project. Currently proposed mitigation consists primarily of an ARM fund payment using the NHDES ARM fund calculators and the USACE New England District Mitigation Guidance. Current wetland impacts are calculated at



# Campton, Project #42097



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Map depicting bridge 108/058 which carries US Route 3 over Bog Brook in Campton.



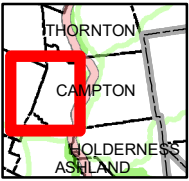
Map created by: Arin Mills on 8/10/2021

Source: S:\Global\B26-BridgeMaintenance\Wetlands\CY2018, CY2019, CY2020 Permits\Campton 108-058 42097

**Legend**

- ★ Project Location
- ▨ StreamStats Watershed
- ▬ Bog Brook

1:45,000

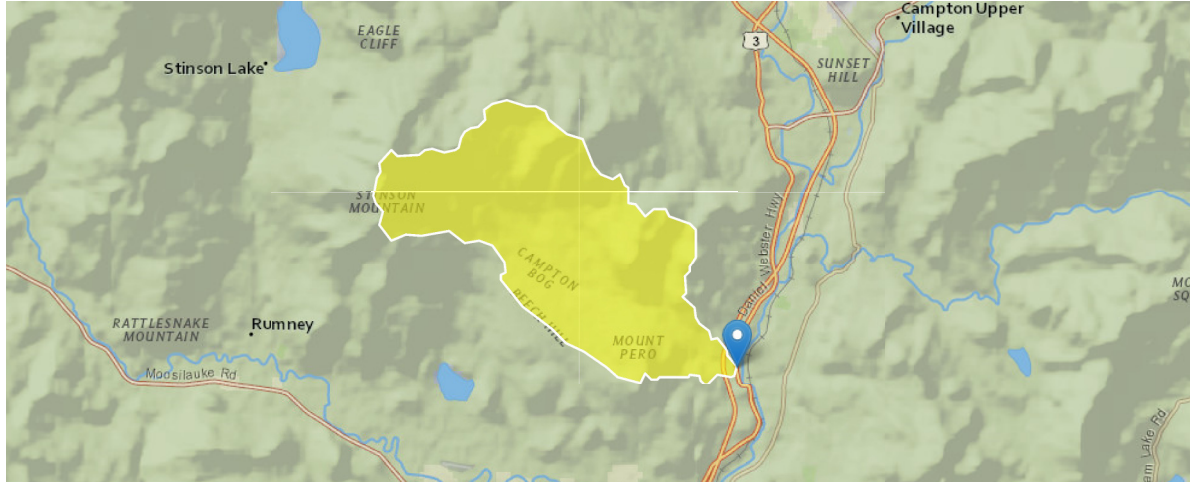


A study area is needed before viewing the report

# StreamStats Report

Region ID:  
 Workspace ID:  
 Clicked Point (Latitude, Longitude):  
 Time:

NH  
 NH20180529163114585000  
 43.79831, -71.67377  
 2018-05-29 12:31:29 -0400



Basin Characteristics				
Parameter Code	Parameter Description	Value	Unit	
DRNAREA	Area that drains to a point on a stream	10.07	square miles	
APRAVPRE	Mean April Precipitation	3.993	inches	
WETLAND	Percentage of Wetlands	5.4891	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	186	feet per mi	

General Disclaimers
Parameter values have been edited, computed flows may not apply.
Upstream regulation was checked for this watershed.
This watershed is percent regulated, computed flows may not apply.
This watershed has been edited, computed flows may not apply.

Peak-Flow Statistics Parameters [Peak Flow Statewide SIR2008 5206]					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	10.07	square miles	0.7	1290
APRAVPRE	Mean April Precipitation	3.993	inches	2.79	6.23



# WETLANDS PERMIT APPLICATION STREAM CROSSING WORKSHEET

Water Division/Land Resources Management  
Wetlands Bureau



**RSA/Rule** RSA 482-A/ Env-Wt-900

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

<b>SECTION 1 - TIER CLASSIFICATIONS</b>	
Determine the contributing watershed size at <a href="#">USGS StreamStats</a> .	
Note: Plans for tier 2 and 3 crossings shall be designed and stamped by a professional engineer who is licensed under RSA 310-A to practice in New Hampshire.	
Size of contributing watershed at the crossing location: 6,441 acres	
<input type="checkbox"/> <b>Tier 1:</b> A tier 1 stream crossing is a crossing located on a watercourse where the contributing watershed size is less than or equal to 200 acres.	
<input type="checkbox"/> <b>Tier 2:</b> A tier 2 stream crossing is a crossing located on a watercourse where the contributing watershed size is greater than 200 acres and less than 640 acres.	
<input checked="" type="checkbox"/> <b>Tier 3:</b> A tier 3 stream crossing is a crossing that meets <b>any</b> of the following criteria: <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> On a watercourse where the contributing watershed is more than 640 acres.</li> <li><input checked="" type="checkbox"/> Within a <a href="#">designated river corridor</a> unless:                         <ul style="list-style-type: none"> <li>a. The crossing would be a tier 1 stream based on contributing watershed size, or</li> <li>b. The structure does not create a direct surface water connection to the designated river as depicted on the national hydrography dataset as found on GRANIT.</li> </ul> </li> <li><input checked="" type="checkbox"/> Within a <a href="#">100-year floodplain</a> (see Section 2 below).</li> <li><input type="checkbox"/> In a jurisdictional area having any protected species or habitat (<a href="#">NHB DataCheck</a>).</li> <li><input type="checkbox"/> In a prime wetland or within a duly-established 100-foot buffer, unless a waiver has been granted pursuant to RSA 482-A:11, IV(b) and Env-Wt 706. Review the <a href="#">Wetlands Permit Planning Tool (WPPT)</a> for town prime wetland and prime wetland buffer maps to determine if your project is within these areas.</li> </ul>	
<input type="checkbox"/> <b>Tier 4:</b> A tier 4 stream crossing is a crossing located on a tidal watercourse.	
<b>SECTION 2 - 100-YEAR FLOODPLAIN</b>	
Use the <a href="#">FEMA Map Service Center</a> to determine if the crossing is located within a 100-year floodplain. Please answer the questions below:	
<input type="checkbox"/> <b>No:</b> The proposed stream crossing <i>is not</i> within the FEMA 100-year floodplain.	
<input checked="" type="checkbox"/> <b>Yes:</b> The proposed project <i>is</i> within the FEMA 100-year floodplain. Zone = <b>A</b> Elevation of the 100-year floodplain at the inlet: 534 feet (FEMA El. or Modeled El.)	
<b>SECTION 3 - CALCULATING PEAK DISCHARGE</b>	
Existing 100-year peak discharge (Q) calculated in cubic feet per second (CFS): 1670 CFS	Calculation method: <a href="#">Streamstats.usgs.gov</a>
Estimated bankfull discharge at the crossing location: 2300 CFS	Calculation method: <b>HY-8</b>

[irm@des.nh.gov](mailto: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](http://www.des.nh.gov)

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

**SECTION 4 - PREDICTED CHANNEL GEOMETRY BASED ON REGIONAL HYDRAULIC CURVES**

*For tier 2, tier 3 and tier 4 crossings only.*

Bankfull Width: 38.6 feet      Mean Bankfull Depth: 2.4 feet

Bankfull Cross Sectional Area: 91.7 square feet (SF)

**SECTION 5 - CROSS SECTIONAL CHANNEL GEOMETRY: MEASUREMENTS OF THE EXISTING STREAM WITHIN A REFERENCE REACH**

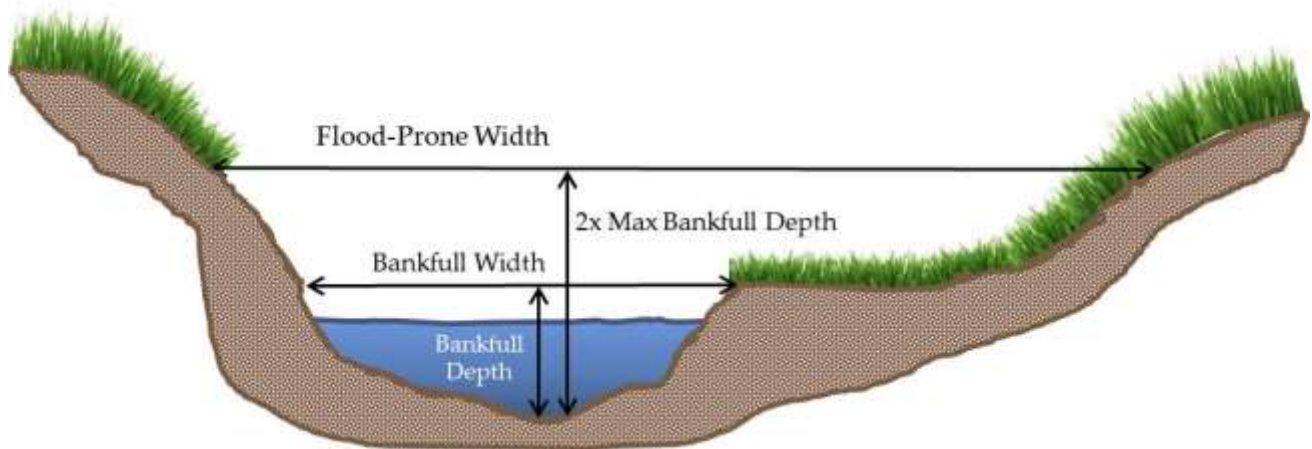
*For tier 2, tier 3 and tier 4 crossings only.*

Describe the reference reach location: upstream of crossing

Reference reach watershed size: 6,441 acres

Parameter	Cross Section 1 Describe bed form riffle <i>(e.g. pool, riffle, glide)</i>	Cross Section 2 Describe bed form riffle <i>(e.g. pool, riffle, glide)</i>	Cross Section 3 Describe bed form riffle <i>(e.g. pool, riffle, glide)</i>	Range
<a href="#">Bankfull Width</a>	49 feet	81 feet	82 feet	49-82 feet
<a href="#">Bankfull Cross Sectional Area</a>	114.6 SF	93.7 SF	124.8 SF	93.7-124.8 SF
Mean <a href="#">Bankfull Depth</a>	2.3 feet	1.2 feet	2.9 feet	1.2-2.9 feet
<a href="#">Width to Depth Ratio</a>	20.9	70	53.9	20.9-70
Max <a href="#">Bankfull Depth</a>	4.9 feet	3 feet	2.9 feet	2.9-4.9 feet
<a href="#">Flood Prone Width</a>	79 feet	110 feet	182 feet	79-182 feet
<a href="#">Entrenchment Ratio</a>	1.6	1.4	2.2	1.4-2.2

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



**Figure 1:** Determining the Reference Reach Attributes.

**SECTION 6 - LONGITUDINAL PARAMETERS OF THE REFERENCE REACH AND CROSSING LOCATION**

*For tier 2, tier 3 and tier 4 crossings only.*

Average Channel Slope of the Reference Reach: 2.3

Average Channel Slope at the Crossing Location: 3%

**SECTION 7 - PLAN VIEW GEOMETRY**

Note: Sinuosity is measured a distance of at least 20 times bankfull width, or 2 meander belt widths.

*For tier 2, tier 3 and tier 4 crossings only.*

Sinuosity of the Reference Reach: 1.2	
Sinuosity of the Crossing Location: 1.1	
<b>SECTION 8 - SUBSTRATE CLASSIFICATION BASED ON FIELD OBSERVATIONS</b>	
<i>For tier 2, tier 3 and tier 4 crossings only.</i>	
% of reach that is bedrock:	0 %
% of reach that is boulder:	4 %
% of reach that is cobble:	12 %
% of reach that is gravel:	35 %
% of reach that is sand:	48 %
% of reach that is silt:	0 %
<b>SECTION 9 - STREAM TYPE OF REFERENCE REACH</b>	
<i>For tier 2, tier 3 and tier 4 crossings only.</i>	
Stream Type of Reference Reach:	Type B

Refer to Rosgen Classification Chart (**Figure 2**) below:

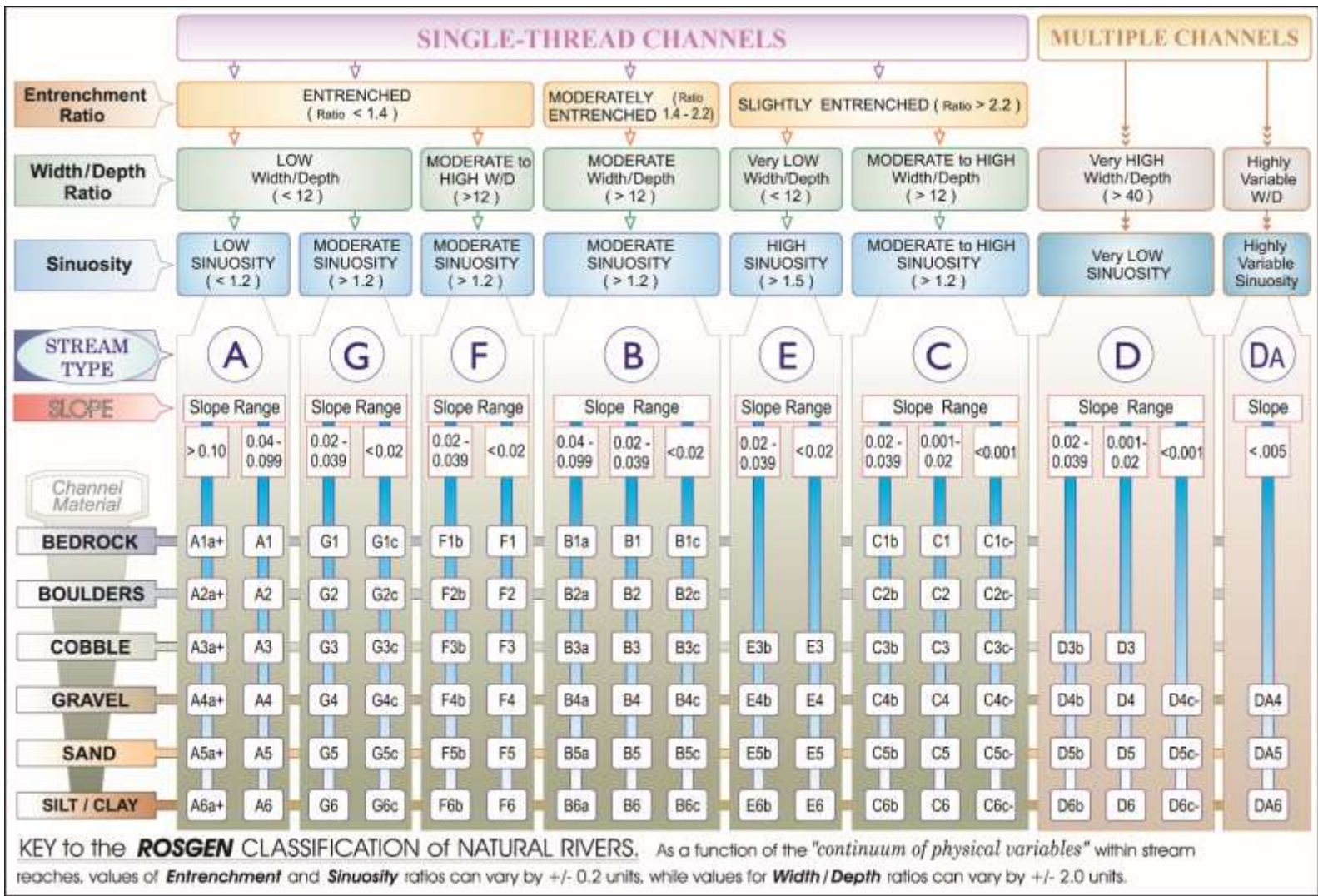


Figure 2: Reference from Applied River Morphology, Rosgen, 1996.

SECTION 10 - CROSSING STRUCTURE METRICS						
Existing Conditions	Existing Structure Type:	<input checked="" type="checkbox"/> Bridge span <input type="checkbox"/> Pipe arch <input type="checkbox"/> Open-bottom culvert <input type="checkbox"/> Closed-bottom culvert <input type="checkbox"/> Closed-bottom culvert with stream simulation <input type="checkbox"/> Other: <input type="checkbox"/>				
	Existing Crossing Span: <i>(perpendicular to flow)</i>	40 feet	Culvert Diameter:	<input type="text"/> feet	Inlet Elevation: El.	<input type="text"/> feet
	Existing Crossing Length: <i>(parallel to flow)</i>	28 feet	Outlet Elevation: El.	<input type="text"/> feet	Culvert Slope:	<input type="text"/>
Proposed Conditions	Proposed Structure Type:	Tier 1	Tier 2	Tier 3	Alternative Design	
	Bridge Span	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Pipe Arch	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
	Closed-bottom Culvert	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	
	Open-bottom Culvert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Closed-bottom Culvert with stream simulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Proposed Structure Span:	N/A feet	Culvert Diameter:	<input type="text"/> feet			

(perpendicular to flow)	Inlet Elevation: El. <input type="text"/> feet
Proposed Structure Length: <input type="text"/> N/A feet (parallel to flow)	Outlet Elevation: El. <input type="text"/> feet Culvert Slope: <input type="text"/>
<b>Proposed Entrenchment Ratio:* no change</b> <i>For Tier 2, Tier 3 and Tier 4 Crossings Only. To accommodate the entrenchment ratio, floodplain drainage structures may be utilized.</i>	

\* Note: Proposed Entrenchment Ratio must meet the minimum ratio for each stream type listed in **Figure 3**, otherwise the applicant must address the Alternative Design criteria listed in Env-Wt 904.10.

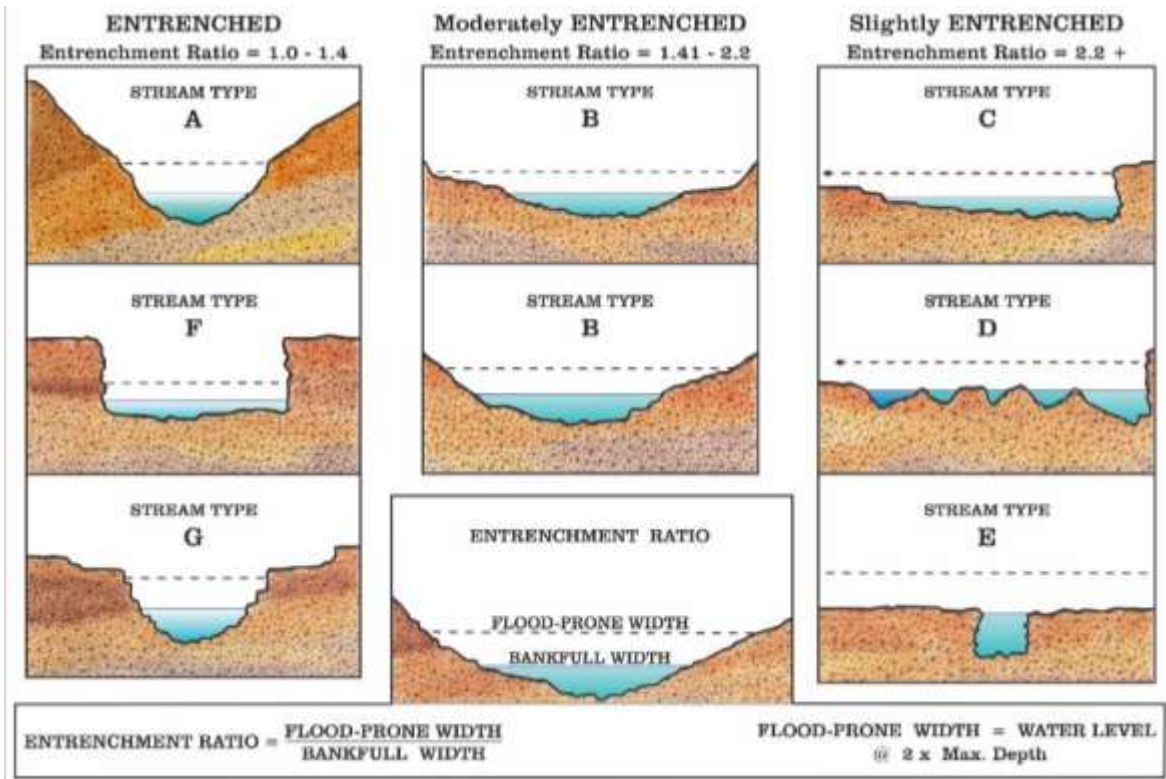


Figure 3: Reference from Applied River Morphology, Rosgen, 1996.

SECTION 11 - CROSSING STRUCTURE HYDRAULICS		
	Existing	Proposed
100 year flood stage elevation at inlet:	534	534
Flow velocity at outlet in feet per second (FPS):	13	13
Calculated 100 year peak discharge (Q) for the <i>proposed</i> structure in CFS:		1670
Calculated 50 year peak discharge (Q) for the <i>proposed</i> structure in CFS:		406
SECTION 12 - CROSSING STRUCTURE OPENNESS RATIO		
<i>For tier 2, tier 3 and tier 4 crossings only.</i>		
<b>Crossing Structure Openness Ratio* = 24.5</b>		
* Openness box culvert = (height x width)/length		
Openness round culvert = (3.14 x radius <sup>2</sup> )/length		

### SECTION 13 - GENERAL DESIGN CONSIDERATIONS

Env-Wt 904.01 requires all stream crossings to be designed and constructed according to the following requirements. Check each box if the project meets these general design considerations.

All stream crossings shall be designed and constructed so as to:

- Not be a barrier to sediment transport.
- Prevent the restriction of high flows and maintain existing low flows.
- Not obstruct or otherwise substantially disrupt the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.
- Not cause an increase in the frequency of flooding or overtopping of banks.
- 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.
- Preserve watercourse connectivity where it currently exists.
- 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.
- Not cause erosion, aggradation, or scouring upstream or downstream of the crossing.
- Not cause water quality degradation.

### SECTION 14 - TIER-SPECIFIC DESIGN CRITERIA

Stream crossings must be designed in accordance with the tier specific design criteria listed in Part Env-Wt 904.

- The proposed project meets the tier specific design criteria listed in Part Env-Wt 904 and each requirement has been addressed in the plans and as part of the wetland application.

### SECTION 15 - ALTERNATIVE DESIGN

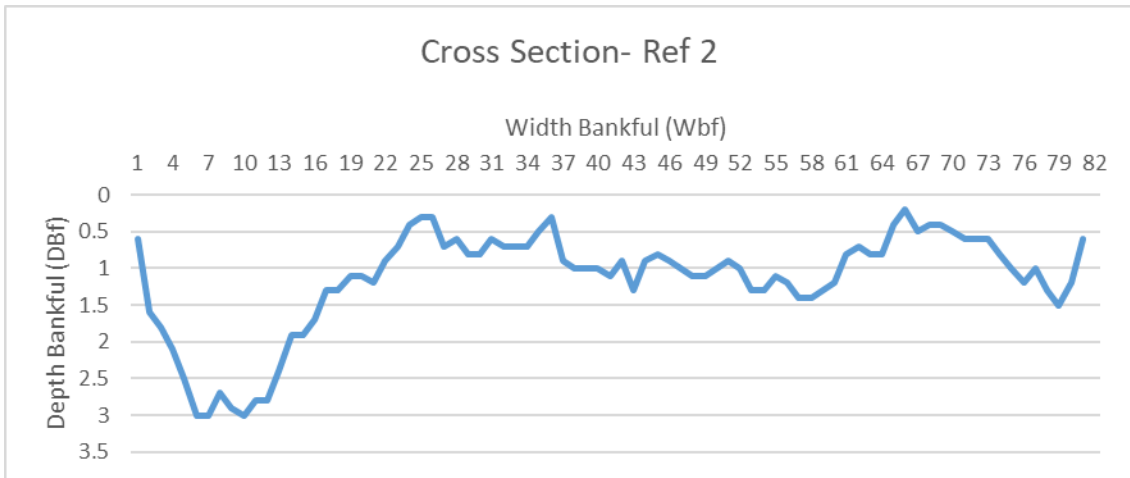
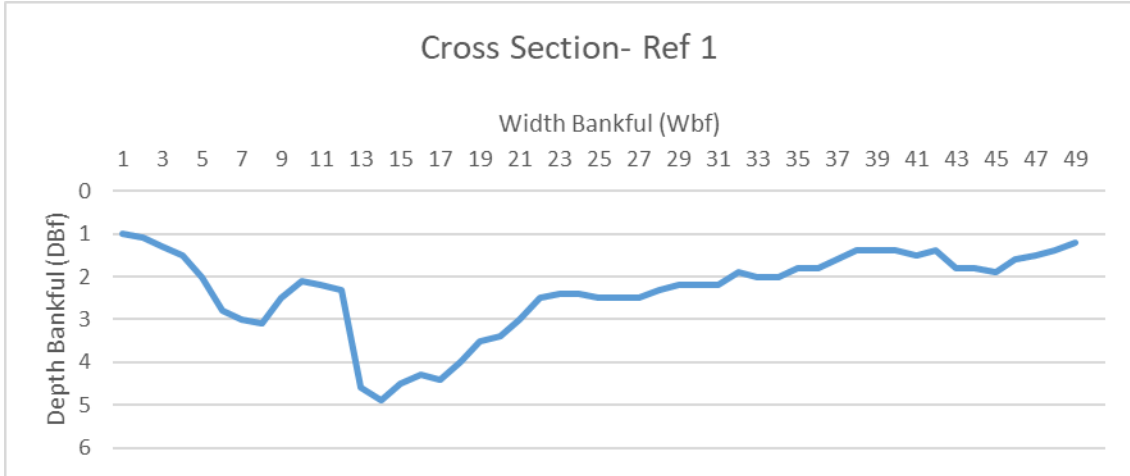
**NOTE:** If the proposed crossing does not meet all of the general design considerations, the tier specific design criteria, or the minimum entrenchment ratio for each given stream type listed in **Figure 3**, then an alternative design plan and associated requirements must be addressed pursuant to Env-Wt 904.10.

- I have submitted an alternative design and addressed each requirement listed in Env-Wt 904.10.

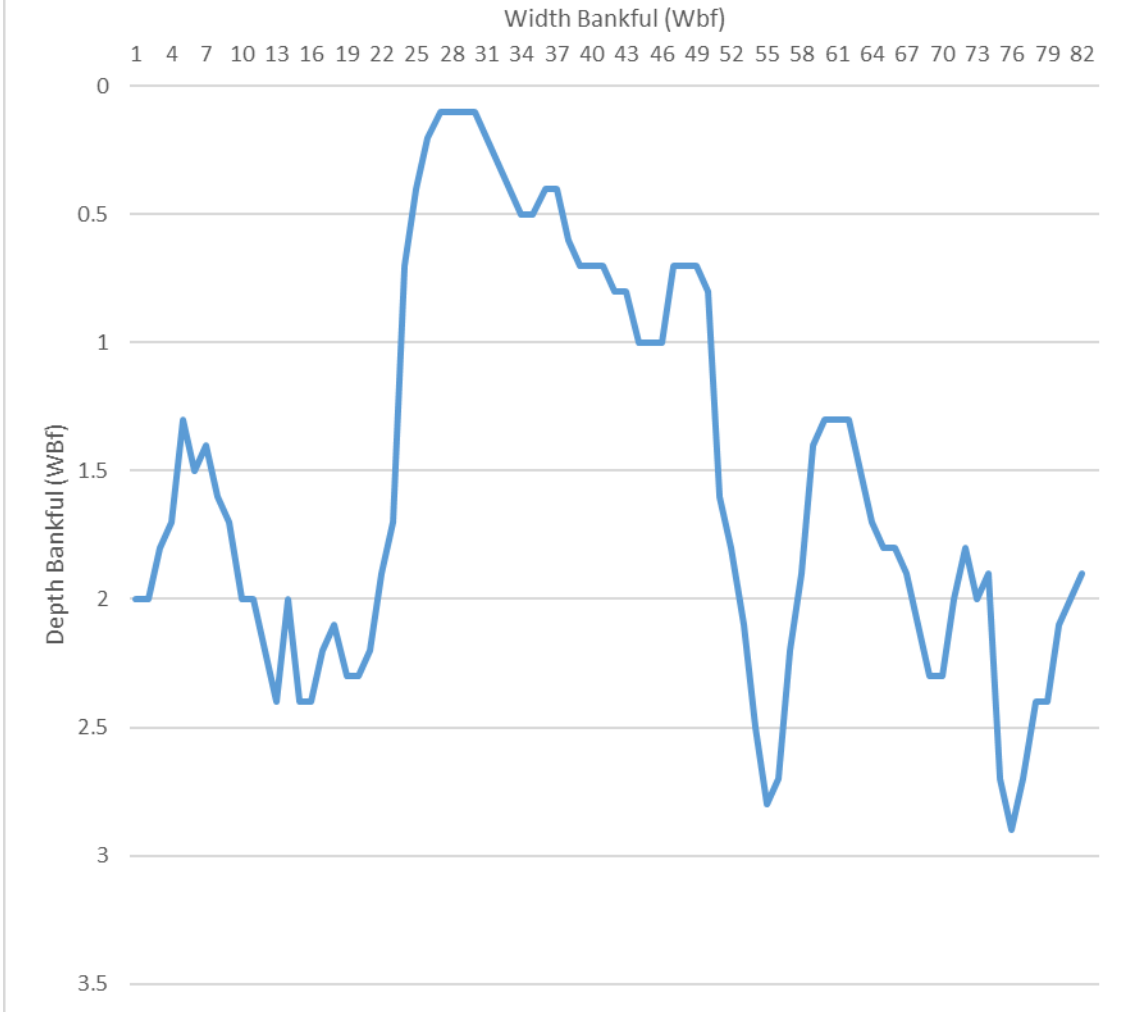


# Campton 108/058

## Reference Reach Cross Section

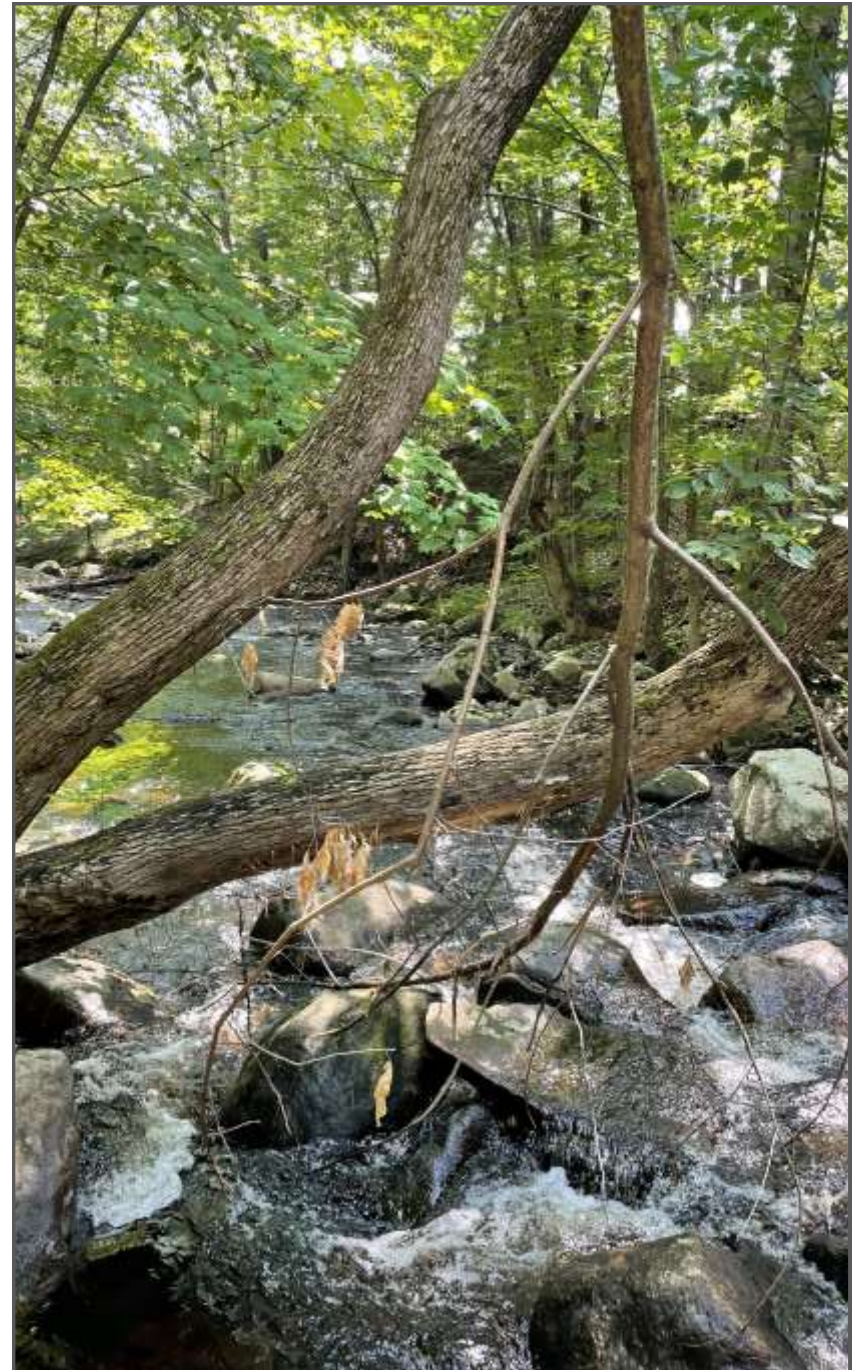


### Cross Section- Ref 3





**Photo 1:** Looking Upstream at Outlet



**Photo 2:** Looking Downstream from Outlet



**Photo 3:** Looking Downstream at Inlet



**Photo 4:** Looking Upstream from Inlet



**Photo 5:** Reference Reach 1 Looking Downstream



**Photo 6:** Reference Reach 2 Looking Downstream



**Photo 7:** Reference Reach 3 Looking Downstream, Primary Flow

**NH Department of Transportation**  
**Bureau of Bridge Maintenance**  
**Project: Campton 108/058, #43077**

**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: 10.07 square miles**

**Existing Conditions:** The crossing at this location is a 40' span bridge constructed in 1929. In 1929 existing stone abutments and wings were faced with concrete and new girders and concrete installed. The facing was repaired and extended in 1976. The curb and rail were replaced in 2001. Other routine maintenance work has occurred to the structure. The northwest wing wall and portions of the northern abutment are undermined. Rip rap is also missing from the southeast corner. The existing bridge deck is in Poor condition and on the Department's Red List. There is no history of flooding or overtopping at this crossing. The distance from the bottom of the deck to the stream bed is approximately 20 feet.

**Project Description:** The proposed project will rehabilitate address the scour that has occurred at the northwest wing wall and northern abutment. The stream has scoured at this location below the level of the concrete facing, exposing the rock wall and fill. The penetration of scour is as much as 32" and 16" deep. The rip rap missing at the south east corner will also be replaced, toeing in the other material above it.

**Proposed Conditions:** Based on the proposed repair of a Tier 3 structure shown in the project description, there will an addition of a toe wall to the structure. The existing structure was modeled using anticipated flows from NH Stream Stats and HY-8. The model was changed to reflect the change in opening due to a concrete toe wall. The model used for the post-construction condition is conservative as I reduced the span for the entire elevation of the predicted 100-year event (~7 feet) and not just the 3' of toe wall height assumed for the work. After reducing the opening size there were minor changes to the flow characteristics. The crossing is inlet controlled in both conditions, the 100-year flow event elevation increased 0.14' (or 1.68") and the outlet velocity increased 0.12 fps. Given the outlet velocities under the existing condition are over 14 fps and there were no changes to the tail water velocities, this change will not have a net effect on AOP. During low flows there is some not-submerged bank available for terrestrial passage.

The majority of the proposed rip rap would be installed in the northeast corner before the structure to reduce the change of the structure undermining again.

***\*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)

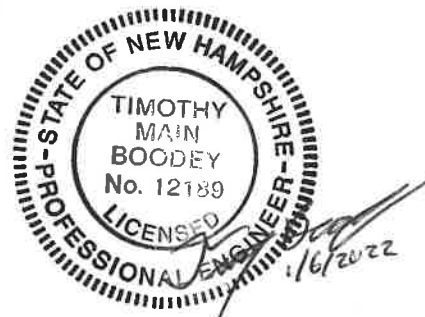
Env-Wt 904.09(c) A project shall qualify under this section only if a professional engineer certifies, and provides supporting analyses to show, that:

- (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 M. Boodey Date: 1/6/2022





## New Hampshire Natural Heritage Bureau NHB DataCheck Results Letter

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

**From:** NH Natural Heritage Bureau

**Date:** 8/16/2021 (This letter is valid through 8/16/2022)

**Re:** Review by NH Natural Heritage Bureau of request dated 8/16/2021

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

**NHB ID:** NHB21-2670

**Applicant:** Arin Mills

**Location:** Campton  
Tax Map: DOT ROW, Tax Lot: DOT ROW  
Address: US Route 3 over Bog Brook

**Proj. Description:** The project will rehabilitate bridge 109/061 which carries US Route 3 over Bog Brook. The proposed work will include placing rip rap on the corners of the wing walls and installation of a tow wall along the northern abutment. This is an updated review to NHB20-2781.

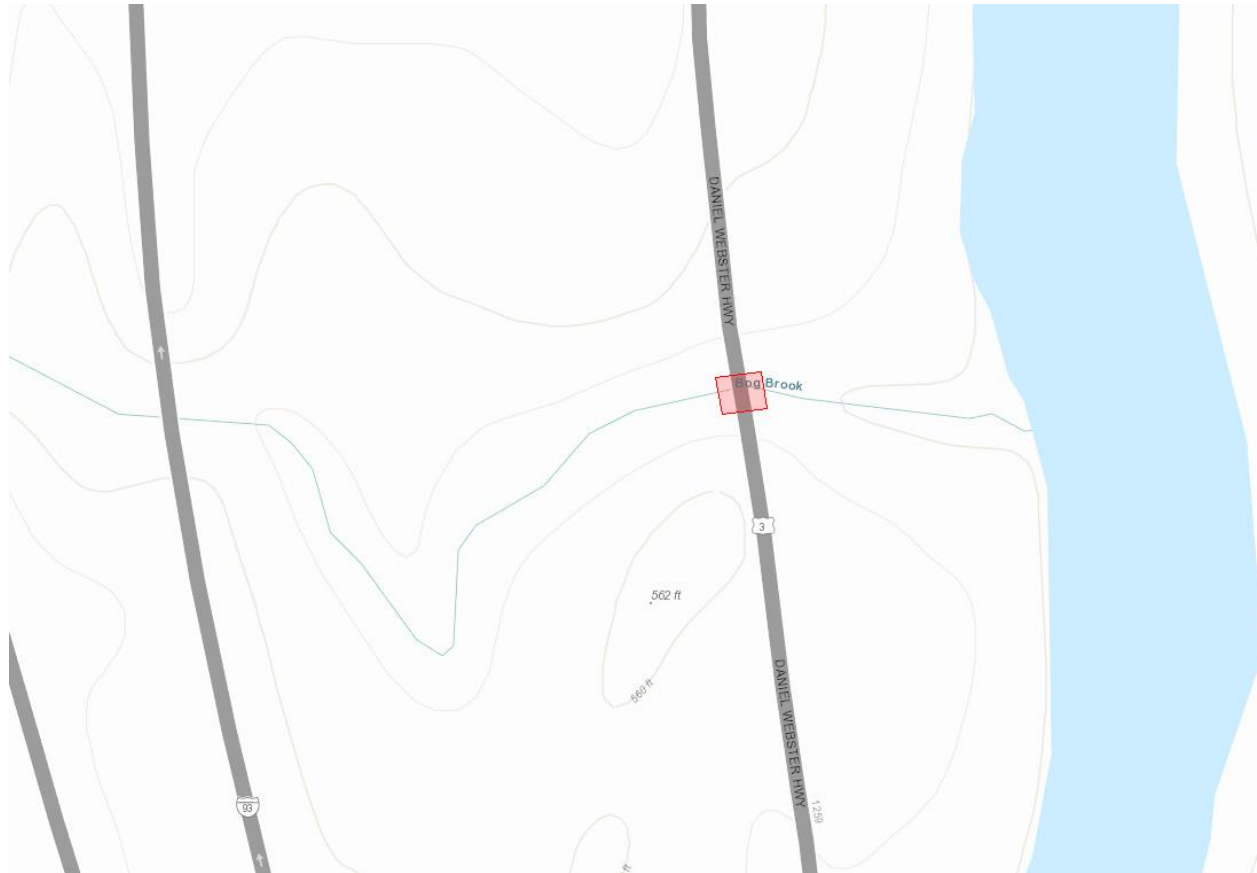
The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded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

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

New Hampshire Natural Heritage Bureau  
NHB DataCheck Results Letter

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MAP OF PROJECT BOUNDARIES FOR: NHB21-2670





## 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:  
Consultation Code: 05E1NE00-2020-SLI-3952  
Event Code: 05E1NE00-2022-E-03786  
Project Name: Campton 42097 Bridge Maintenance

January 07, 2022

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

### To Whom It May Concern:

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

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

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

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

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

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

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](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](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

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## Project Summary

Consultation Code: 05E1NE00-2020-SLI-3952

Event Code: Some(05E1NE00-2022-E-03786)

Project Name: Campton 42097 Bridge Maintenance

Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: Rehabilitate bridge carrying US 3 over Bog Brook. Work will include placing a concrete toewall as well as placing rip rap at the corners of the wingwalls of the structure.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.798277111486115,-71.67383384419071,14z>



Counties: Grafton County, New Hampshire

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## 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 Fisheries<sup>1</sup>, 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: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Threatened

### Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

### Critical habitats

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

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# United States Department of the Interior



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

IPaC Record Locator: 709-23451500

September 14, 2020

Subject: Consistency letter for the 'Campton 42097 Bridge Maintenance' 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 September 14, 2020 your effects determination for the 'Campton 42097 Bridge Maintenance' (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”<sup>[1]</sup> 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.

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[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)].

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## Action Description

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

### 1. Name

Campton 42097 Bridge Maintenance

### 2. Description

The following description was provided for the project 'Campton 42097 Bridge Maintenance':

Rehabilitate bridge carrying US 3 over Bog Brook. Work will include placing a concrete toewall as well as placing rip rap at the corners of the wingwalls of the structure.

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/43.798277111486115N71.67383384419071W>



## 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.

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

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

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## Determination Key Result

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

## Qualification Interview

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

*No*

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

*No*

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

**Automatically answered**

*No*

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

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

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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*

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## 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.**

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10. What is the estimated wind capacity (in megawatts) of the new turbine(s)?  
0

**Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding**

**Appendix B Certification – Activities with Minimal Potential to Cause Effects**

**Date Reviewed:** 8/13/2021  
(Desktop or Field Review Date)

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

**Project Name:** Campton Bridge Maintenance

**State Number:** 42097

**FHWA Number:** N/A

**Environmental Contact:** Arin Mills

**DOT**

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

**Project Manager:** Steve Johnson

**Project Description:** The project entails bridge maintenance activities to bridge 108/058 which carries US Route 3 (DWH) over Bog Brook. According to the Bridge Database the bridge was constructed in 1929 and is an I-beam with concrete deck. Design plans date between 1928, 1980 and 2001 and the Historic Bridge Inventory noted the Bridge is not eligible for the National Register due to 2011 rehab that widened the bridge with new cantilevered deck section, railings and stiffening steel diaphragms. The work will include installation of a concrete toewall as well as placement of rip rap at the corners of the structure. (S:\Global\B26-BridgeMaintenance\Wetlands\CY2018, CY2019, CY2020 Permits\Campton 108-058 42097). There are no intentions for new grading, no building of an access road, no large tree clearing, and the footprint of the bridge will not change and stock piling of materials will occur by the roadway in previously disturbed areas.

Please select the applicable activity/activities:

<b>Highway and Roadway Improvements</b>	
<input type="checkbox"/>	1. Modernization and general highway maintenance <b>that may require additional highway right-of-way or easement</b> , 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
<b>Bridge and Culvert Improvements</b>	
<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, <b>that may require minor additional right-of-way or easement</b> , 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: c. placement of riprap and channel work 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)
<b>Bicycle and Pedestrian Improvements</b>	
<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



**Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding**

**Appendix B Certification – Activities with Minimal Potential to Cause Effects**

<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
<b>Railroad Improvements</b>	
<input type="checkbox"/>	15. Modernization, maintenance, and safety improvements of railroad facilities within the existing railroad or highway right-of-way, <b><u>provided no historic railroad features are impacted</u></b> , including, but not limited to: 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
<b>Other Improvements</b>	
<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 repair work is to an existing non-historic bridge to extend the life of the structure. Work will be within the ROW and no impacts to adjacent properties are impacted.

*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?	<a href="#">Click here to enter text.</a>
Please identify public outreach effort contacts; method of outreach and date:	<u>None to date, work is confined within the ROW.</u>		

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

<input checked="" type="checkbox"/>	<b>No Potential to Cause Effects</b>	<input type="checkbox"/>	<b>No Historic Properties Affected</b>
This finding serves as the Section 106 Memorandum of Effect. No further coordination is necessary.			
<input type="checkbox"/>	<b>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.</b>		
NHDOT comments:			

Section 106 Programmatic Agreement – Cultural Resources Review Effect Finding

**Appendix B Certification – Activities with Minimal Potential to Cause Effects**



8/13/2021

\_\_\_\_\_  
NHDOT Cultural Resources Staff

\_\_\_\_\_  
Date

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

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 <a href="http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm">http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm</a> to determine if there is an impaired water in the vicinity of your work area.*	<b>X</b>	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	<b>X</b>	
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 <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> . The book <a href="#">Natural Community Systems of New Hampshire also contains specific information about the natural communities found in NH.</a>		<b>X</b>
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	<b>X</b>	
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.)	<b>X</b>	
2.5 The overall project site is more than 40 acres?		<b>X</b>
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: <a href="https://www2.des.state.nh.us/nhb_datacheck/">https://www2.des.state.nh.us/nhb_datacheck/</a> USFWS IPAC website: <a href="https://ecos.fws.gov/ipac/location/index">https://ecos.fws.gov/ipac/location/index</a>		<b>X</b>

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"> <li>• PDF: <a href="http://www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm">www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm</a>.</li> <li>• Data Mapper: <a href="http://www.granit.unh.edu">www.granit.unh.edu</a>.</li> <li>• GIS: <a href="http://www.granit.unh.edu/data/downloadfreedata/category/databycategory.html">www.granit.unh.edu/data/downloadfreedata/category/databycategory.html</a>.</li> </ul>		<b>X</b>
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)?		<b>X</b>
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		<b>X</b>
3.5 Are stream crossings designed in accordance with the GC 21?	<b>X</b>	
<b>4. Flooding/Floodplain Values</b>	<b>Yes</b>	<b>No</b>
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?	<b>X</b>	
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		<b>X</b>
<b>5. Historic/Archaeological Resources</b>		
For a minimum, minor or major impact project - a copy of the Request for Project Review (RPR) Form ( <a href="http://www.nh.gov/nhdhr/review">www.nh.gov/nhdhr/review</a> ) 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**	<b>X</b>	

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

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



**Photo 1:** Looking South down US Route 3

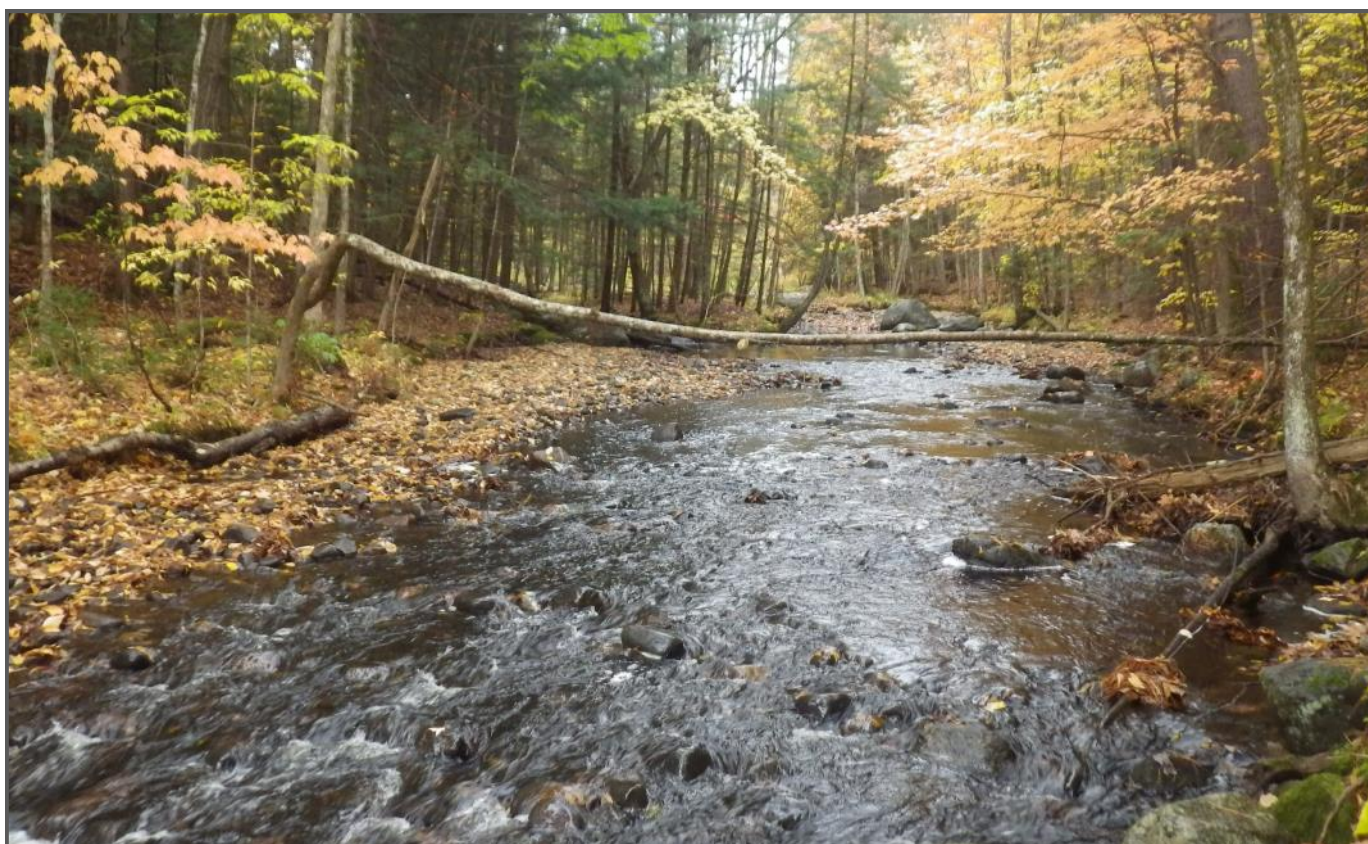


**Photo 2:** Looking North down US Route 3

CAMPTON, Project #42097



**Photo 3:** Looking East (downstream) at inlet



**Photo 4:** Looking west (upstream) from inlet



**Photo 5:** Looking West (upstream) at outlet



**Photo 6:** Looking East (downstream) from outlet

CAMPTON, Project #42097



**Photo 7:** North abutment looking Northeast

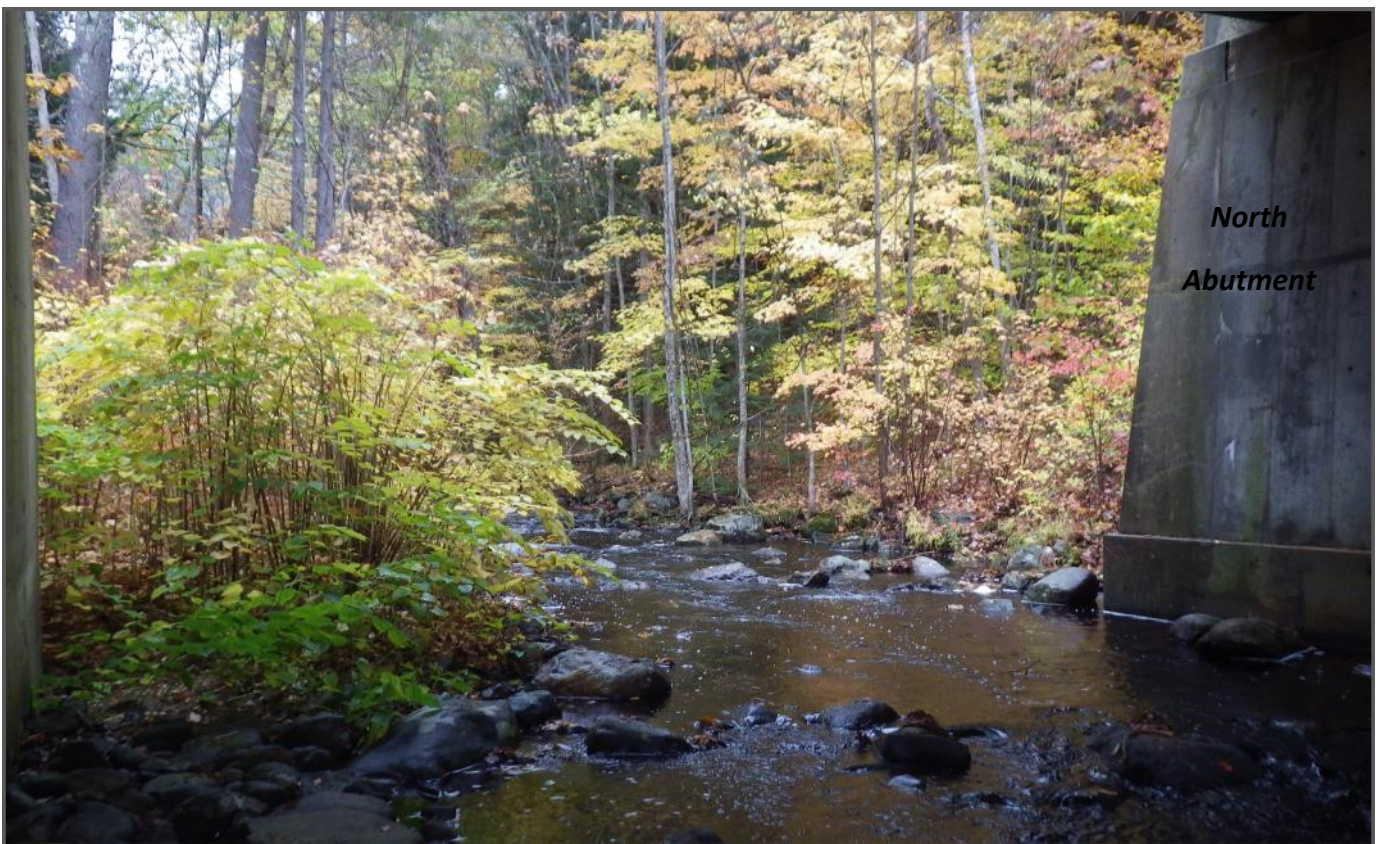


**Photo 8:** North abutment looking Northwest





**Photo 9:** South abutment looking West (upstream)



**Photo 10:** Looking West (upstream) from within structure

## **CONSTRUCTION SEQUENCE**

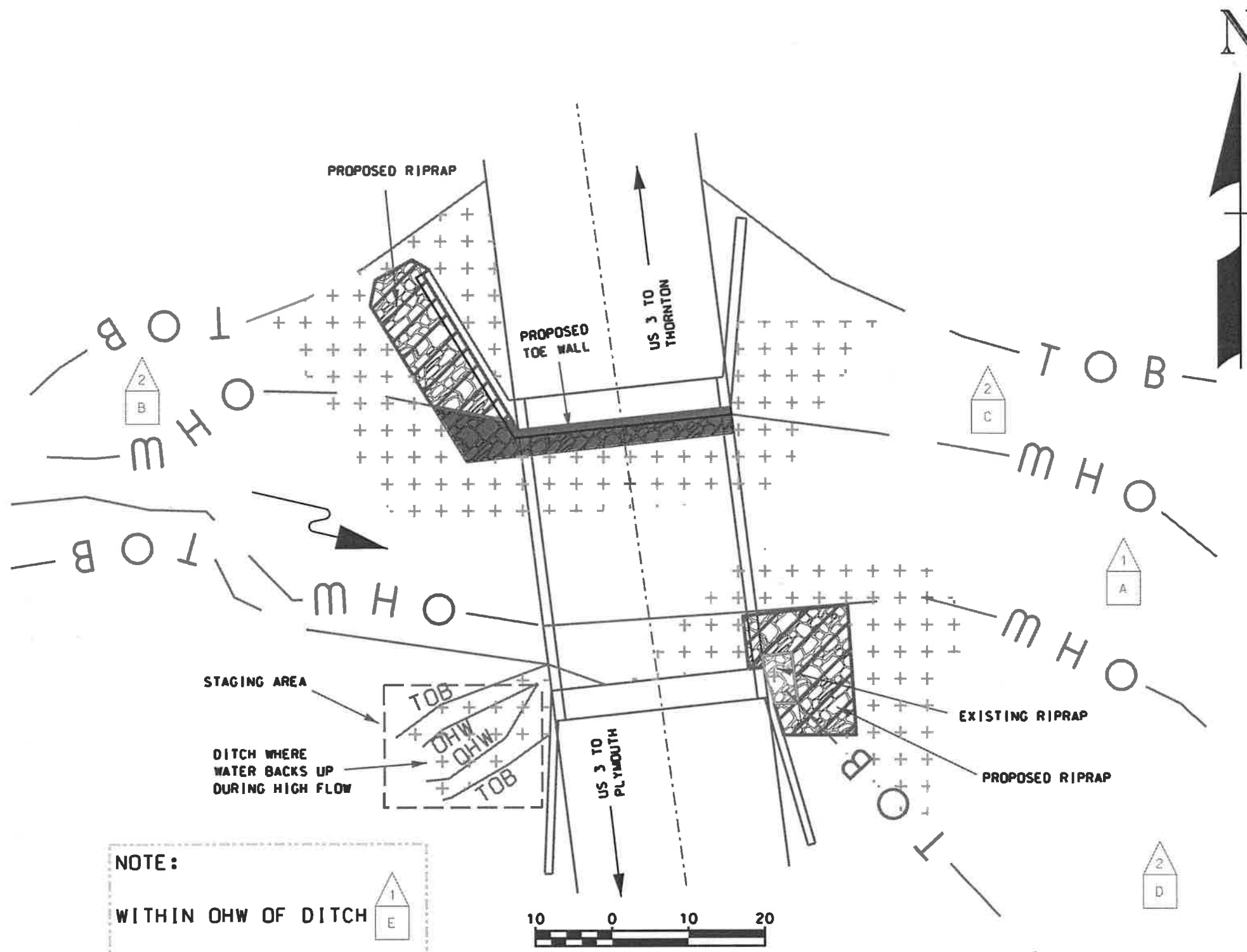
Work is anticipated to take approximately six weeks to complete and is currently proposed to be done during summer. Work will be phased where one abutment is worked on at a time.

1. Install erosion control barrier prior to earth disturbance and jurisdictional impacts.
2. A staging area will be set up adjacent to the SW wing. Equipment will be lowered in to this area from the bridge.
3. At normal to low flow, a sandbag cofferdam will be installed extending from the NW wing to the NE wing along the North abutment.
4. Water within the work zone will be pumped into a dewatering basin placed at an appropriate location on the downstream side of the bridge.
5. A concrete toe wall will be placed along the NW wing and North abutment.
6. A silt boom will be placed along the NE wing and North abutment and the sandbag cofferdam removed.
7. Riprap will be placed in front of the NW wing and North abutment.
8. A silt boom will be placed at the SE corner and rip rap will be installed in front of the SE wing and South abutment corner.

Once in stream work is completed the silt booms will be removed. 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



RIPRAP GRADATION  
 D15 < 18.5"  
 D50 < 24"  
 D100 < 42"  
 NOMINAL DIAMETER 21"

LEGEND

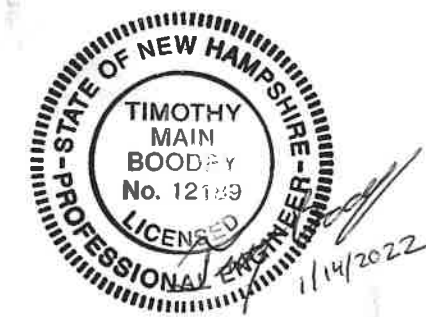
TYPE OF WETLAND IMPACT	SHADING/HATCHING	WETLAND DESIGNATION NUMBER
RIPRAP	[Hatched pattern]	# WETLAND IMPACT LOCATION
NEW HAMPSHIRE WETLANDS BUREAU (PERMANENT NON-WETLAND)	[Diagonal hatching]	[Symbol]
NEW HAMPSHIRE WETLANDS BUREAU & ARMY CORP OF ENGINEERS (PERMANENT WETLAND)	[Solid black]	[Symbol]
TEMPORARY IMPACTS	[Cross-hatch pattern]	[Symbol]

WETLAND CLASSIFICATION CODES	
R2UB12	RIVERINE, LOWER PERENNIAL, UNCONSOLIDATED BOTTOM, COBBLE-GRAVEL, SAND
BANK	BANK

NOTE:  
 WITHIN OHW OF DITCH [Symbol 1]  
 BETWEEN OHW AND TOB [Symbol 2]

- NOTE:
- 1) WETLANDS DELINEATED BY DOUG LOCKER ON 6/8/2018  
 DELINEATION REVIEWED BY MATT URBAN ON 7/27/2021  
 WETLANDS WERE DELINEATED IN ACCORDANCE WITH ENV-WT 406
  - 2) ALL WORK WILL BE CONDUCTED WITHIN EXISTING NHDOT ROW
  - 3) THE FEMA FLOOD PLANE LIMITS ARE BEYOND THE VIEW OF THIS DRAWING BASED ON IT'S SCALE.

WETLAND IMPACTS  
 SCALE: 1/16" = 1'

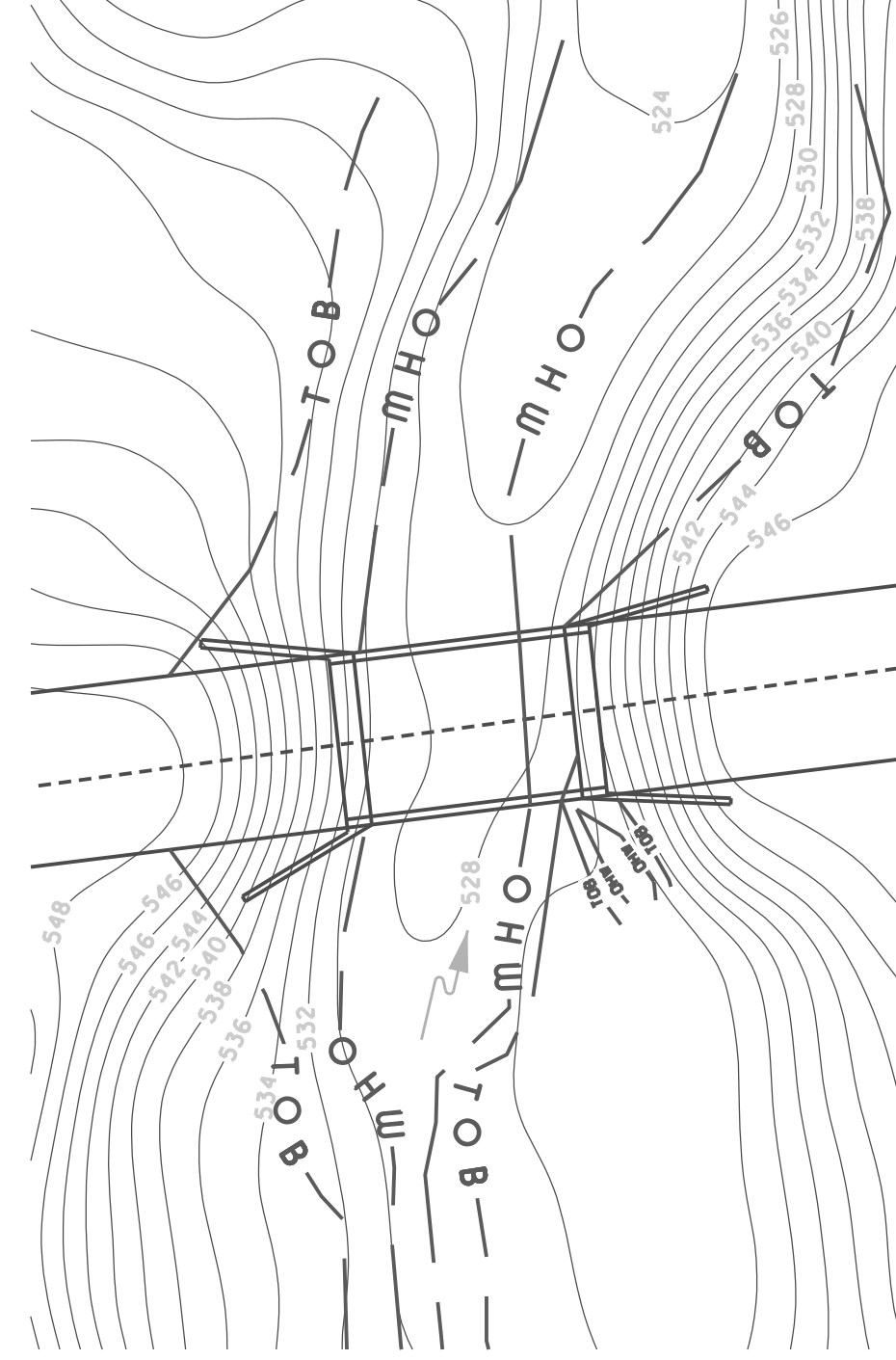


STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE											
TOWN	CAMPTON	BRIDGE NO.	108/658	STATE PROJECT	40297						
LOCATION US 3 OVER BOG BROOK						WETLAND IMPACTS					
REVISIONS AFTER PROPOSAL						DESIGNED	BY	DATE	CHECKED	BY	DATE
						DRAWN	JPJ	8/21	CHECKED	TMR	1/22
						QUANTITIES	JPJ	8/21	CHECKED	TMR	1/22
SHEET SCALE AS NOTED						ISSUE DATE	FISCAL YEAR	CREW	SHEET NO.	TOTAL SHEETS	
						REV. DATE	2023	3	1	4	

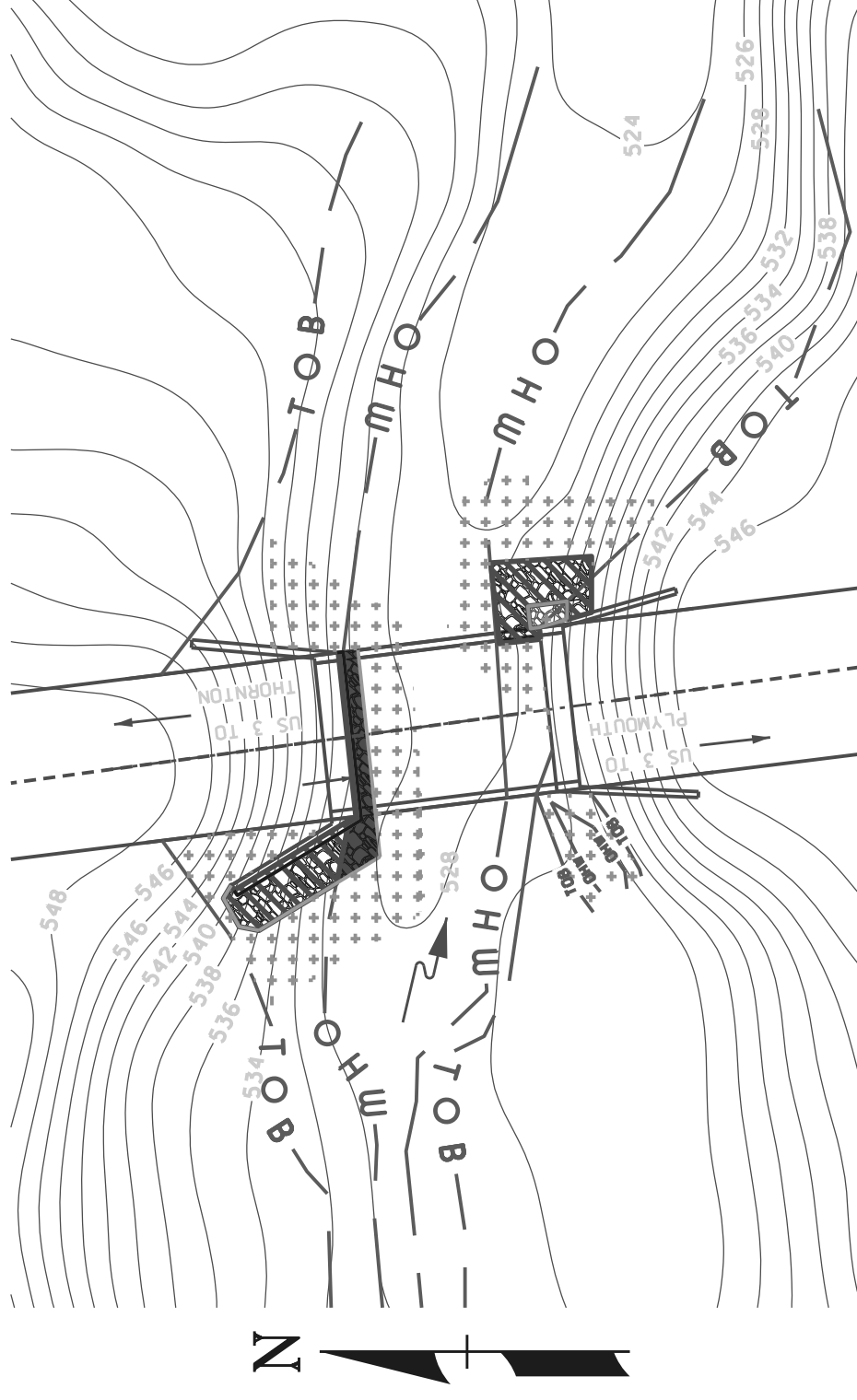


# 2 FOOT CONTOUR MAP

SCALE: 1" = 15' -0"



PRE CONSTRUCTION



POST CONSTRUCTION

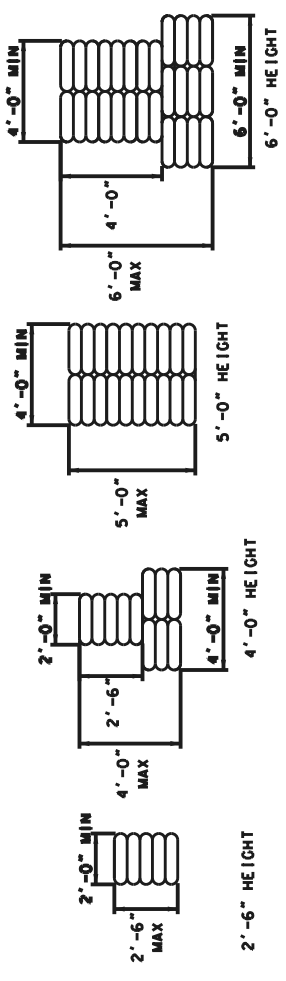
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE									
TOWN	CAMPTON	BRIDGE NO.	108/058	STATE PROJECT	40297				
LOCATION US 3 OVER BOG BROOK									
2 FT CONTOUR MAPS									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE	BRIDGE SHEET		
							4	OF 4	
DESIGNED		JPI	8/21	CHECKED	TMB	8/21	FILE NUMBER		
DRAWN		JPI	8/21	CHECKED	TMB	8/21	CAMPTON		
QUANTITIES		JPI	8/21	CHECKED	TMB	8/21	108/058		
ISSUE DATE		FISCAL YEAR		CREW		SHEET NO.		TOTAL SHEETS	
		2023		3		4		4	
SHEET SCALE AS NOTED									



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

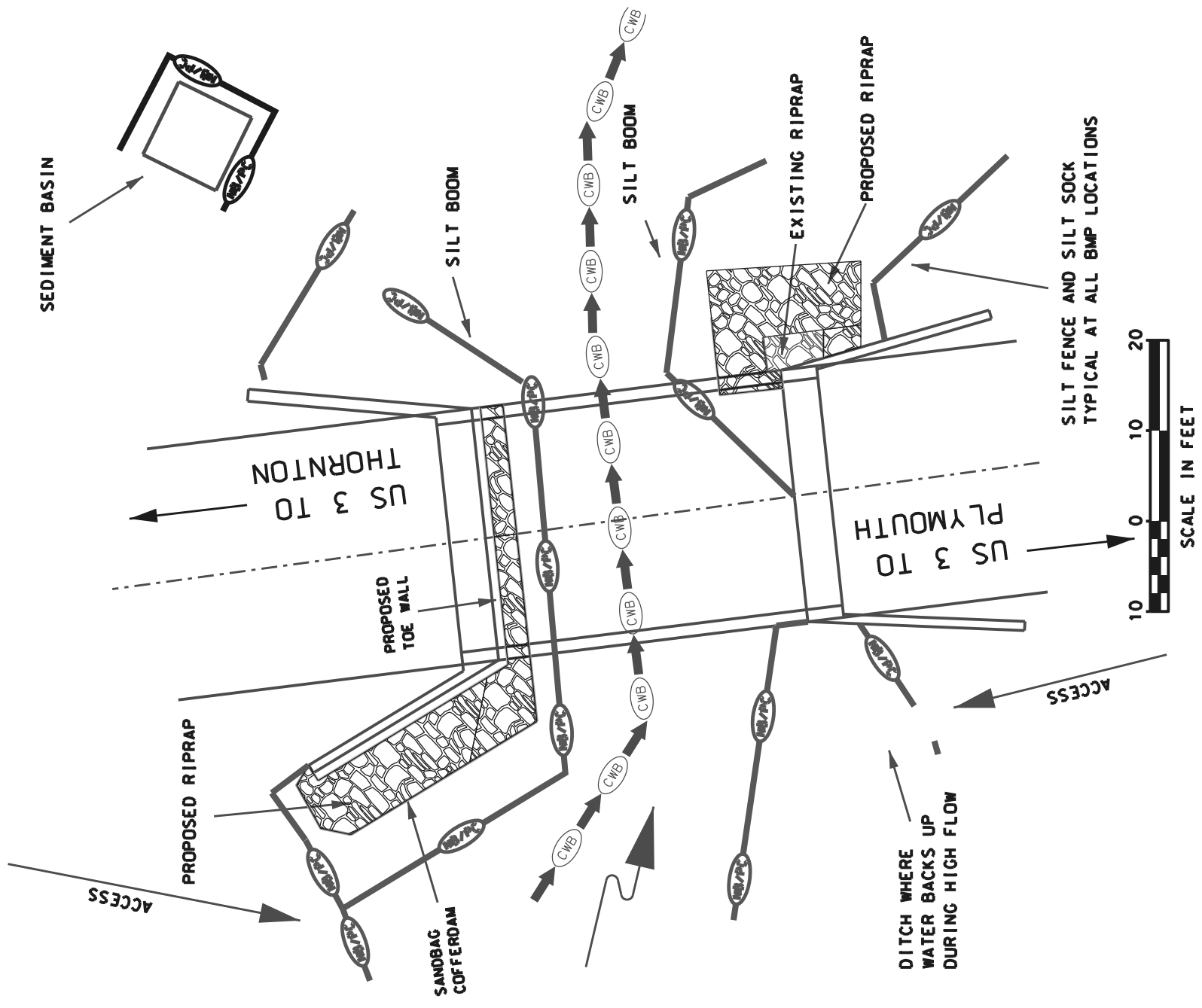
**COFFERDAM DETAILS**

NOT TO SCALE



**NOTES:**

- 1) WORK WILL TAKE PLACE DURING LOW FLOW CONDITIONS. ANTICIPATED MAXIMUM FLOW DURING CONSTRUCTION IS 75 CFS
- 2) SANDBAG COFFERDAMS WILL BE CONSTRUCTED ACCORDING TO TYPICAL DETAIL. WE ANTICIPATE A MAXIMUM HEIGHT OF 3 FEET AND A WIDTH OF 4'
- 3) SUMPS WILL BE LOCATED JUST INSIDE THE WORK AREA AND BE LARGE ENOUGH TO ACCOMMODATE A 3 INCH PUMP DISCHARGING INTO A DEWATERING BASIN
- 4) DOUBLE BMPs WILL BE USED FOR PERIMETER CONTROLS
- 5) INVASIVE PLANTS (JAPANESE KNOTWEED) LOCATED AROUND THE STAGING AREA (SE CORNER) WILL BE MANAGED IN ACCORDANCE WITH THE NHDOT BMP MANUAL
- 6) No other staging areas beyond what is shown at SE will be used



**EROSION CONTROL PLAN**

SCALE: 1/16" = 1'-0"

STATE OF NEW HAMPSHIRE		BRIDGE SHEET	
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE		BRIDGE SHEET	
TOWN	BRIDGE NO.	STATE PROJECT	DATE
CAMPTON	108/058	40297	
LOCATION US 3 OVER BOG BROOK			
EROSION CONTROL PLAN			
REVISIONS AFTER PROPOSAL	BY	DATE	3 OF 4
DESIGNED	CHECKED		
DRAWN	JPI	8/21	
QUANTITIES	JPI	8/21	
ISSUE DATE	CREW	SHEET NO.	TOTAL SHEETS
		3	4
REV. DATE			
SHEET SCALE			
AS NOTED			

## Mills, Arin

---

**From:** Rousseau, James L CIV <James.L.Rousseau2@uscg.mil>  
**Sent:** Tuesday, September 15, 2020 12:21 PM  
**To:** Mills, Arin  
**Cc:** Lewis, Dale K CIV  
**Subject:** RE: NHDOT Bridge Maintenance Campton USCG Review  
**Attachments:** [Non-DoD Source] RE: NHDOT Project 42364

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

---

Arin,

Our examination indicates that there is no sufficient factual support for concluding that the waterway (Bog Brook tributary to Pemigewasset River) in Campton, NH, at the project repair location, has current or historic navigation occurring on this water of the United States for Coast Guard Bridge purposes. Since this is the case, a Coast Guard bridge permit, construction/repair non objection, or exemption will not be required for the referenced bridge project. If you have further questions please let me know. We made a similar determination for the I 93 bridges next to US3.

The fact that a Coast Guard approval is not required does not relieve you of the responsibility for compliance with the requirements of any other Federal, State, or local agency who may have jurisdiction over any aspect of the project.

Regards,

Jim

Jim Rousseau  
Senior 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:** Tuesday, September 15, 2020 11:16 AM  
**To:** Rousseau, James L CIV <James.L.Rousseau2@uscg.mil>  
**Subject:** [Non-DoD Source] NHDOT Bridge Maintenance Campton USCG Review

Jim,

The NHDOT has proposed bridge maintenance activities to bridge 108/058 which carries US Route 3 Bog Brook in Campton. The proposed work includes riprap to the NW and SE wing to provide scour protection and installation of a toewall on the north abutment and portion of the south abutment.

Please provide any concerns the Coast Guard may have as it relates to the project. Feel free to reach out with any questions. I have provided a location map and GIS shapefile to assist with your review.

Arin Mills

**Campton 108/058, DOT Project #42097**

September 20, 2021

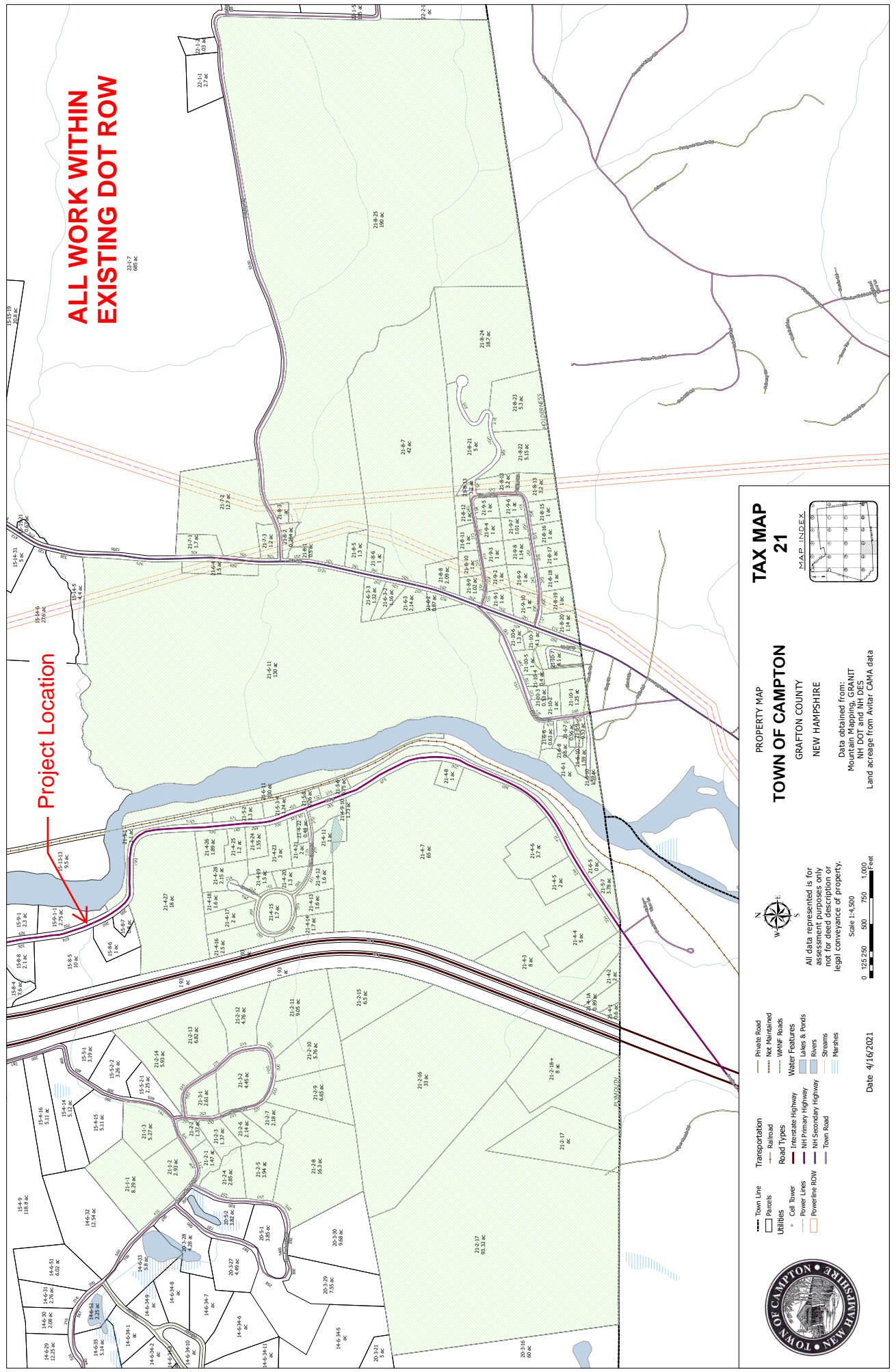
To date, no correspondence relating to wetlands impacts has been received from the Conservation Commission or the Pemigewasset River Local Advisory Committee.

Arin Mills  
Bureau of Environment  
NHDOT



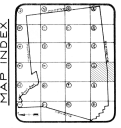
**ALL WORK WITHIN  
EXISTING DOT ROW**

**Project Location**



**TAX MAP  
21**

**PROPERTY MAP  
TOWN OF CAMPTON  
GRAFTON COUNTY  
NEW HAMPSHIRE**



All data represented is for assessment purposes only not for deed description or legal conveyance of property.

Scale 1:4,900  
0 325 650 975 1,950 Feet

Date 4/16/2021

- Town Line
- ▭ Parcels
- Utilities
- Cell Tower
- Power Lines
- Powerline ROW
- Private Road
- Not Maintained
- W/WHF Roads
- Water Features
- Lakes & Ponds
- Rivers
- Streams
- Marshes
- Railroad
- Road Types
- Interstate Highway
- NH Primary Highway
- NH Secondary Highway
- Town Road



Data obtained from:  
Mountain Mapping, GRANIT  
NH DOT and NH DES  
Land acreage from Avitar CAMVA data

## Mills, Arin

---

**From:** Hicks, Michael C CIV USARMY CENAE (USA) <Michael.C.Hicks@usace.army.mil>  
**Sent:** Thursday, December 16, 2021 9:28 AM  
**To:** Mills, Arin  
**Subject:** RE: Campton NHDOT Bridge Maintenance EFH Review

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---

Arin,

Sorry for this slip up on my behalf, NMFS did get back to me and I missed it. They responded " The area is considered status quo EFH for Atlantic salmon. However, the BMP's proposed and outlined in the materials adequately avoid, minimize and mitigate the potential adverse effects to EFH and we do not have additional CR's to provide.", so we are all set with this.

Thanks,  
Mike

-----Original Message-----

From: Mills, Arin <Arin.J.Mills@dot.nh.gov>  
Sent: Wednesday, December 15, 2021 10:30 AM  
To: Hicks, Michael C CIV USARMY CENAE (USA) <Michael.C.Hicks@usace.army.mil>  
Subject: [Non-DoD Source] RE: Campton NHDOT Bridge Maintenance EFH Review

Hello Mike. Just checking in again on the status of this project review for EFH. Let me know if there is anything you may need from me.

~ Arin

-----Original Message-----

From: Hicks, Michael C CIV USARMY CENAE (USA) <Michael.C.Hicks@usace.army.mil>  
Sent: Thursday, November 4, 2021 12:29 PM  
To: Mills, Arin <Arin.J.Mills@dot.nh.gov>  
Subject: RE: Campton NHDOT Bridge Maintenance EFH Review

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---

Arin,

I have not received a response, yet. I will talk to them tomorrow to see where they are at.

Thanks,  
Mike

-----Original Message-----

From: Mills, Arin <Arin.J.Mills@dot.nh.gov>  
Sent: Wednesday, November 3, 2021 2:27 PM

To: Hicks, Michael C CIV USARMY CENAE (USA) <Michael.C.Hicks@usace.army.mil>  
Subject: [Non-DoD Source] RE: Campton NHDOT Bridge Maintenance EFH Review

Hey Mike. Just wondering if you have received any correspondence from NMFS on this review?

~ Arin

-----Original Message-----

From: Mills, Arin  
Sent: Tuesday, September 14, 2021 2:44 PM  
To: 'Hicks, Michael C CIV USARMY CENAE (USA)' <Michael.C.Hicks@usace.army.mil>  
Subject: RE: Campton NHDOT Bridge Maintenance EFH Review

Mike. Thanks! Attached are the plans I originally sent. Let me know if there is anything else you need.

~ Arin

-----Original Message-----

From: Hicks, Michael C CIV USARMY CENAE (USA) <Michael.C.Hicks@usace.army.mil>  
Sent: Tuesday, September 14, 2021 2:39 PM  
To: Mills, Arin <Arin.J.Mills@dot.nh.gov>  
Subject: RE: Campton NHDOT Bridge Maintenance EFH Review

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

---

Arin,

It looks good. Can you send me the other attachments you sent me earlier so I can send the whole submittal to NMFS. With our new email system, when you respond to someone, you lose the attachments.

Thanks\Mike

Michael Hicks, PM  
USACE, REG DIV., BR. C  
978-318-8157

-----Original Message-----

From: Mills, Arin <Arin.J.Mills@dot.nh.gov>  
Sent: Tuesday, September 14, 2021 11:07 AM  
To: Hicks, Michael C CIV USARMY CENAE (USA) <Michael.C.Hicks@usace.army.mil>  
Subject: [Non-DoD Source] RE: Campton NHDOT Bridge Maintenance EFH Review

Mike, I got your message and have (hopefully) made the corrections you mentioned. Thank you for your comments and review time. If there is anything I may have missed or misinterpreted just let me know.

~ Arin

-----Original Message-----

From: Mills, Arin  
Sent: Wednesday, September 1, 2021 1:49 PM  
To: 'Hicks, Michael C CIV USARMY CENAE (USA)' <Michael.C.Hicks@usace.army.mil>

## **NOAA Fisheries Greater Atlantic Regional Fisheries Office Essential Fish Habitat (EFH) Assessment & Fish and Wildlife Coordination Act (FWCA) Worksheet**

This worksheet is your essential fish habitat (EFH) assessment. It provides us with the information necessary to assess the effects of your action on EFH under the Magnuson Stevens Fishery Conservation and Management Act and on NOAA trust resources under the Fish and Wildlife Coordination Act (FWCA). Consultation is not required if:

1. there is no adverse effect on EFH or NOAA trust resources (see page 10 for more info).
2. no EFH is designated and no trust resources may be present at the project site.

### **Instructions**

Federal agencies or their non-federal designated lead agency should email the completed worksheet and necessary attachments to [nmfs.gar.efh.consultation@noaa.gov](mailto:nmfs.gar.efh.consultation@noaa.gov). Include the public notice (if applicable) or project application and project plans showing:

- location map of the project site with area of impact.
- existing and proposed conditions.
- all waters of the U.S. on the project site with mean low water (MLW), mean high water (MHW), high tide line (HTL), and water depths clearly marked.
- sensitive habitats mapped, including special aquatic sites (submerged aquatic vegetation, saltmarsh, mudflats, riffles and pools, coral reefs, and sanctuaries and refuges), hard bottom or natural rocky habitat areas, and shellfish beds.
- site photographs, if available.

We will provide our EFH conservation recommendations and recommendations under the FWCA, as appropriate, within 30 days of receipt of a complete EFH assessment (60 days if an expanded consultation is necessary). Please submit complete information to minimize delays in completing the consultation.

This worksheet provides us with the information required<sup>1</sup> in an EFH assessment:

1. A description of the proposed action.
2. An analysis of the potential adverse effects on EFH and the federally managed species.
3. The federal agency's conclusions regarding the effects of the action on EFH.
4. Proposed mitigation, if applicable.

Your analysis **should focus on impacts that reduce the quality and/or quantity of the habitat or result in conversion to a different habitat type** for all life stages of species with designated EFH within the action area.

Use the information on the [HCD website](#) and [NOAA's EFH Mapper](#) to complete this worksheet. If you have questions, please contact the appropriate [HCD staff member](#) to assist you.

---

<sup>1</sup> The EFH consultation process is guided by the requirements of our EFH regulation at 50 CFR 600.905.

## EFH ASSESSMENT WORKSHEET

### General Project Information

Date Submitted:

Project/Application Number:

Project Name:

Project Sponsor/Applicant:

Federal Action Agency (if state agency acting as delegated):

Fast-41 or One Federal Decision Project:                      Yes                      No

Action Agency Contact Name:

Contact Phone:    Contact Email:

Latitude:    Longitude:

Address, City/Town, State:

Body of Water:

Project Purpose:

Project Description:

Anticipated Duration of In-Water Work or Start/End Dates:



	<b>Habitat Type</b>	<b>Total impact (sq ft/acres)</b>	<b>Impacts are temporary</b>	<b>Restored to pre-existing conditions</b>	<b>Permanent conversion of all or part of habitat</b>
	Rocky/hard bottom <sup>4</sup> :				
	Sand				
	Shellfish beds or oyster reefs				
	Mudflats				
	Submerged aquatic vegetation (SAV) <sup>5</sup> , macroalgae, epifauna				
	Diadromous fish (migratory or spawning habitat)				

Indicate type(s) of rocky/hard bottom habitat (pebble, cobble, boulder, bedrock outcrop/ledge) and species of SAV:

**Outlet:** 60% boulder/25% cobble/10% gravel/5% sand. **Inlet:** 5% boulder/45%cobble/30% gravel/20% sand

### Project Effects

<b>Select all that apply</b>	<b>Project Type/Category</b>
	Hatchery or Aquaculture
	Agriculture
	Forestry
	Military (e.g., acoustic testing, training exercises)
	Mining (e.g., sand, gravel)
	Restoration or fish/wildlife enhancement (e.g., fish passage, wetlands, beach renourishment, mitigation bank/ILF creation)

<sup>4</sup> Indicate type(s). The type(s) of rocky habitat will help you determine if the area is cod HAPC.

<sup>5</sup> Indicate species. Provide a copy of the SAV report and survey conducted at the site, if applicable.

Select all that apply	Project Type/Category
	Infrastructure/transportation (e.g., culvert construction, bridge repair, highway, port)
	Energy development/use
	Water quality (e.g., TMDL, wastewater, sediment remediation)
	Dredging/excavation and disposal
	Piers, ramps, floats, and other structures
	Bank/shoreline stabilization (e.g., living shoreline, groin, breakwater, bulkhead)
	Survey (e.g., geotechnical, geophysical, habitat, fisheries)
	Other

Select all that apply	Potential Stressors Caused by the Activity	Select all that apply and if temporary or permanent		Habitat alterations caused by the activity
		Temp	Perm	
	Underwater noise			
	Water quality/turbidity/contaminant release			Water depth change
	Vessel traffic/barge grounding			Tidal flow change
	Impingement/entrainment <sup>6</sup>			Fill
	Prevent fish passage/spawning			Habitat type conversion
	Benthic community disturbance			Other:
	Impacts to prey species			Other:

<sup>6</sup> Entrainment is the voluntary or involuntary movement of aquatic organisms from a water body into a surface diversion or through, under, or around screens and results in the loss of the organisms from the population. Impingement is the involuntary contact and entrapment of aquatic organisms on the surface of intake screens caused when the approach velocity exceeds the swimming capability of the organism.



*Details: project impacts and mitigation*

The level of detail that you provide should be commensurate with the magnitude of impacts associated with the proposed project. Attach supplemental information if necessary.

Describe how the project would impact each of the habitat types selected above. Include temporary and permanent impact descriptions and direct and indirect impacts.

What specific measures will be used to avoid impacts, including project design, turbidity controls, acoustic controls, and time of year restrictions? If impacts cannot be avoided, why not?

Erosion control measures will be installed and maintained throughout construction to include use of perimeter controls around work area. Turbidity controls implemented will include cofferdam installation and silt boom. Toe walls will be constructed in the dry through use of a sediment basin in the upland to pump water as additional turbidity control measure. No time of year or acoustic controls are proposed.

What specific measures will be used to minimize impacts?

Impacts will be minimized as to install a toe wall to address scour along the north abutment. Use of a sandbag cofferdam, silt boom, sediment basin and perimeter controls will prevent siltation of the river, and allow work to be done in the dry. Access will be via foot and through use of crane to lower materials, minimizing impacts to the adjacent banks for access. Design measures have been utilized to minimize impacts to the greatest extent practicable to maintain existing infrastructure.

Is compensatory mitigation proposed?

Yes

No

If no, why not? If yes, describe plans for mitigation and how this will offset impacts to EFH. Include a conceptual compensatory mitigation and monitoring plan, if applicable.

Mitigation for permanent impacts to the stream for installation of toe wall will be provided through payment into the NH Aquatic Resource Mitigation fund.

<b>Federal Action Agency's EFH determination (select one)</b>	
	There is no adverse effect <sup>7</sup> on EFH or EFH is not designated at the project site.  EFH Consultation is not required. This is a FWCA-only request.
	The adverse effect <sup>7</sup> on EFH is not substantial. This means that the adverse effects are no more than minimal, temporary, or can be alleviated with minor project modifications or conservation recommendations.  This is a request for an abbreviated EFH consultation.
	The adverse effect <sup>7</sup> on EFH is substantial.  This is a request for an expanded EFH consultation. We will provide more detailed information, including an alternatives analysis and NEPA document, if applicable.

### EFH and HAPC designations<sup>8</sup>

Use the [EFH mapper](#) to determine if EFH may be present in the project area and enter all species and lifestages that have designated EFH. Optionally, you may review the EFH text descriptions linked to each species in the EFH mapper and use them to determine if the described habitat is present. We recommend this for larger projects to help you determine what your impacts are.

Species	EFH is designated/mapped for:				Habitat present based on text description (optional)
	EFH: eggs	EFH: larvae	EFH: juvenile	EFH: adults/spawning adults	

<sup>7</sup> An **adverse effect** is any impact that reduces the quality and/or quantity of EFH. Adverse effects may include direct or indirect physical, chemical, or biological alterations of the waters or substrate and loss of, or injury to, benthic organisms, prey species and their habitat, and other ecosystem components. Adverse effects to EFH may result from actions occurring within EFH or outside of EFH and may include site-specific or habitat-wide impacts, including individual, cumulative, or synergistic consequences of actions.

<sup>8</sup> Within the Greater Atlantic Region, EFH has been designated by the New England, Mid-Atlantic, and South Atlantic Fisheries Management Councils and NOAA Fisheries.



## HAPCs

Select all that are in your action area.

	Summer flounder: SAV <sup>9</sup>		Alvin & Atlantis Canyons
	Sandbar shark		Baltimore Canyon
	Sand Tiger Shark (Delaware Bay)		Bear Seamount
	Sand Tiger Shark (Plymouth-Duxbury-Kingston Bay)		Heezen Canyon
	Inshore 20m Juvenile Cod		Hudson Canyon
	Great South Channel Juvenile Cod		Hydrographer Canyon
	Northern Edge Juvenile Cod		Jeffreys & Stellwagen
	Lydonia Canyon		Lydonia, Gilbert & Oceanographer Canyons
	Norfolk Canyon (Mid-Atlantic)		Norfolk Canyon (New England)
	Oceanographer Canyon		Retriever Seamount
	Veatch Canyon (Mid-Atlantic)		Toms, Middle Toms & Hendrickson Canyons
	Veatch Canyon (New England)		Washington Canyon
	Cashes Ledge		Wilmington Canyon

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<sup>9</sup> Summer flounder HAPC is defined as all native species of macroalgae, seagrasses, and freshwater and tidal macrophytes in any size bed, as well as loose aggregations, within adult and juvenile summer flounder EFH. In locations where native species have been eliminated from an area, then exotic species are included. Use local information to determine the locations of HAPC.