B143 Line - Structure Replacement Project

Goffstown, Bedford, and Merrimack, NH Environmental Resources Map

Date: June 22, 2023





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PREPARED BY:



1155 Elm Street Manchester, NH 03101









1 inch = 200 feet			EVERS URCE	
0	100	200		ENERGY
			B143 Structure Rep	placement Project
			Goffstown, NH	Map Sheet 1
				AECOM
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10.50	Vernel Beels
-	Vernal Pools
	Field Delineated Wetland
7 51	Peatlands
	Delineated Watercourse
	Goffstown WSWC District



1 in 0	nch = 200 100	feet 200			
			B143 Structure Re	placement Project	
			Goffstown &	Map Sheet 2	
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EVERS URCE		1 inch = 200 feet		
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1 inch = 200 feet EVERS		
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Bedford, NH	Map Sheet 4	
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FEMA 100-Year Flood Zone

Peatlands

		1 inch = 200 feet		
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Bedford, NH				
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Date: June, 2023	REVISIONS			

NO. DATE



1	inch = 200	feet	EVERS © URCE		
0	100	200	ENERGY		
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			Merrimack, NH	Map Sheet 6	
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General Notes

- 1. This site plan is for permitting and construction purposes only and does not represent a property boundary survey.
- 2. Impact to vegetation within wetlands shall be limited to the extent necessary to place swamp mats where required. Stumps and rocks shall not be removed.
- 3. Access routes have been selected to prevent degradation of the right-of-way and minimize environmental impacts. Operations shall be confined to the specified access routes within the proposed wetland impact areas. Access routes shall not exceed a 16 foot width.
- 4. If timber mat BMP is not sufficient due to high water, additional BMPs may include the placement of geotextile fabric, then 3 to 4 inches of stone/gravel to provide a suitable road bed. A temporary culvert may be required in areas of high flow to maintain hydrologic connectivity. All material shall be removed from jurisdictional areas after construction completion.
- 5. No material shall be taken from the wetland area except that which must necessarily be removed for the structure of foundation placement or stabilization. All excess material taken from the wetland will be removed from the site.
- 6. Fugitive dust is to be controlled in accordance with Env-A 1000. On areas of exposed soil, minimize dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged in stormwater from the site
- 7. The project is required to meet the requirements and intent of RSA 430:51-57 and Agr 3800 relative to invasive species;
- 8. Soil stockpiles will be located 50' from receiving waters and away from any constructed or natural site drainage features, storm drain inlets, and areas where stormwater flow is concentrated. Install perimeter controls along all downgradient areas of stockpiled soil or land clearing debris piles. For piles that will be unused for 14 or more days, provide cover or appropriate temporary stabilization such as tarps, blown straw and hydroseeding.
- 9. Commercial loam shall not be used as part of restoration, only in-situ topsoil will be used to restore disturbed areas.
- 10. Mulch used for stabilization shall consist of weedless straw.
- 11. Any proposed support fills shall be clean gravel and stone free of waste metal products, organic materials and similar debris, and shall not exceed the amount permitted.

Construction Sequence

- 1. Wetland boundaries and known locations of rare species are to be clearly marked prior to the start of construction.
- 2. Sediment and erosion control measures shall be installed in accordance with the details provided here, in the Stormwater Pollution Prevention Plan (SWPPP) for this project, and the reference documents:
 - 1. BMP Manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in NH (NH DNCR 2019)
 - 2. NH Stormwater Manual Volume 3 Erosion and Sediment Controls During Construction (NH DES 2008)
- 3. Establish access routes and work pads as specified in this plan set for each phase of construction, limiting area not stabilized at any one time.
- 4. Install new poles in the locations designated on the permitting plans.
- 5. Cable installation will be performed in a manner so as to avoid, or limit to the maximum extent practicable, traversing wetlands with heavy equipment.
- 6. Removal of the old utility poles will occur once the cables have been installed on the new structure. The old structures will be removed from the site. Poles will be cut at the ground surface and footings abandoned in place to minimize impacts.
- 7. All timber mats, material, and debris will be removed from the work area upon completion of construction. Upland work pad restoration should include reducing the work pad to a 30 by 60-foot area and reducing slopes to a maximum of 25%. Unused native stockpiled material should be spread to reduce any unnecessary slopes. Gravel work pads and slopes should be scarified to a minimum of 3" depth before spreading native topsoil in restoration areas.
- 8. Once area is stabilized, all erosion and sediment control BMPs shall be evaluated and removed from the project site, as necessary.

Erosion Control Notes (Env-Wg 1504.16)

- 1. Perimeter controls must be installed prior to earth moving operations
- 2. Stormwater treatment ponds and drainage swales must be installed before rough grading the site.
- 3. Runoff must be directed to temporary practices until stormwater BMPs are stabilized.
- 4. Basins, ditches and swales must be stabilized prior to directing runoff to them.
- 5. Roadways and parking areas must be stabilized within 72 hours of achieving finished grade.
- 6. Cut and fill slopes must be stabilized within 72 hours of achieving finished grade.
- 7. All areas of unstabilized soil must be stabilized as soon as practicable but no later than 45 days after initial disturbance. 8. Erosion control practices must be inspected at least weekly and after every rain event of 0.5 inch or more.
- 9. In areas that will not be paved, "stable" means that:
 - 1. A minimum of 85% vegetative cover has been established;
 - 2. A minimum of 3 inches of non-erosive material such as stone or riprap has been installed
 - 3. Erosion control blankets have been installed in accordance with Env-Wg 1506.03
- 10. In areas to be paved, "stable" means that base course gravels meeting the requirements of NHDOT Standard for Road and Bridge Construction, 2016, Item 304.2 have been installed
- 11. No more than 5 acres shall be disturbed (not stabilized) at any time
- 12. Temporary and permanent seeding shall be installed as specified in the NH Stormwater Manual Volume 3 Erosion and Sediment Controls During Construction (NH DES 2008)
- 13. Cold Weather Site Stabilization shall be employed during the period from October 15 through May 1. the area of exposed, unstabilized soil shall be limited to one acre and protected against erosion prior to any thaw or spring melt event. All mulch per acre secured with anchored netting or tackifier.

proposed vegetated areas having a slope of less than 15% shall be seeded and covered with 3 to 4 tons of hay or straw



B143 Structure Replacement Project

Goffstown, Bedford, Merrimack, NH

Detail Sheet 1 of 7

















New Hampshire Fish and Game Recommended Permit Conditions:

- No work shall occur between October 15th and April 15th in the following area in order to minimize impacts to 1. Northern black racers:
 - a. Between Mast Road and B143 structure 4 in Goffstown
- 2. Blanding's turtle (state endangered), spotted turtle (state threatened), wood turtle (state species of special concern), Eastern hognose snake (state endangered), and Northern black racer (state threatened) occur within the vicinity of the project area. All operators and personnel working on or entering the site shall be made aware of the potential presence of these species and shall be provided flyers that help to identify these species, along with NHFG contact information. See Plan Sheets 6-7.
- Rare species information (e.g. identification, observation and reporting of observations, when to contact NHFG 3. immediately and NHFG contact information) shall be posted on site at all times and communicated during morning tailgate meetings prior to work commencement.
- 4. Turtles and snakes may be attracted to disturbed ground during nesting season. Turtle nesting season occurs approximately May 15th – June 30th. Nesting areas may include work pads and access roads that are not hard pack gravel and other sandy/gravel work areas. All turtle species nests are protected by NH laws. Be aware of the potential to encounter nesting wildlife in these areas.
- 5. If a nest is observed or suspected, operators shall contact Melissa Winters (603-479-1129) or Josh Megyesy (978-578-0802) at NHFG immediately for further consultation. The nest or suspected nest shall be marked (surrounding roped off or cone buffer) and avoided; this shall be communicated to all personnel onsite. Site activities shall not occur in the area surrounding the nest or suspected nest until further guidance is provided by NHFG.
- Eastern hognose snake observations shall be reported immediately to NHFG wildlife biologists Melissa Winters (603-6. 479-1129) or Brendan Clifford (603-944-0885). Immediate reporting of observations is critical as NHFG biologists will need to collect data on the individual.
- Observations of Northern black racers in the months of April-May and September-October may indicate the 7. potential for a den site on or near the project site. Observations of this species during this timeframe shall be reported immediately to the New Hampshire Fish and Game Department Nongame and Endangered Wildlife Environmental Review Program, and work should cease until further coordination with NHFG. Please contact Melissa Winters (603-479-1129) or Brendan Clifford (603-944-0885). Observations of this species outside of this timeframe can follow general reporting guidance. Please include photograph with text if feasible.
- Vernal pools and potential vernal pools shall be flagged prior to work, and impacts shall be avoided. Provide location 8. of vernal pools on plan sheets to NHFG. No disturb vegetative buffers of 50' shall be maintained wherever possible.
 - Where disturbance to the 50' vegetative vernal pool buffer is unavoidable, disturbance shall be minimized a. and the area will be restored upon completion of work. These areas will be provided to NHFG upon completion of the vernal pool assessment scheduled for the spring of 2023 prior to disturbance to vernal pool buffers for further coordination.
- 9. All matting which will be placed in waterbodies deemed suitable for hibernating rare turtles will be placed prior to the start of the inactive season (October 16-March 31) so as to prevent accidental placement atop hibernating turtles. Areas identified as suitable hibernation habitat shall be identified on plan sheets and provided to NHFG at least two weeks prior to beginning work.
- Immediately prior to matting placement in wetlands, the area shall be swept by a trained individual. They shall 10. watch for signs that turtles are being disturbed in the area (ex. Heads coming above water, animals moving in water). Contact NHFG if anyone observes or suspects turtles in matting areas. A trained individual shall be defined as any contractor who has gone through project-species protection education conducted by a gualified biologist on rare wildlife species at the site.
- 11. For all work pads, staging areas, matting, and access roads, searches and sweeps shall be conducted by trained individuals immediately before the start of work and movement of equipment in order to minimize the chance of animals entering an area between the sweep and work. A trained individual shall be defined as any contractor who has gone through project-species protection education conducted by a qualified biologist on rare wildlife species at the site. Provide biologist gualifications to NHFG.
- Work, pull pads, and access shall be minimized to the greatest extent possible. 12.
- 13. All manufactured erosion and sediment control products, with the exception of turf reinforcement mats, utilized for, but not limited to, slope protection, runoff diversion, slope interruption, perimeter control, inlet protection, check dams, and sediment traps shall not contain plastic, or multifilament or monofilament polypropylene netting or mesh with an opening size of greater than 1/8 inches;

- 14. All observations of threatened or endangered species on the project site shall be reported immediately to the NHFG nongame and endangered wildlife environmental review program by phone at 603-271-2461 and by email at number, the project name, and the term Wildlife Species Observation;
- 15. NHFG in digital format at the above email address for verification, as feasible;
- 16. corrective actions recommended by NHFG.
 - if this action occurs.
- 17. The NHFG, including its employees and authorized agents, shall have access to the property during the term of the permit.

Additional Recommendations:

Smooth green snakes (state species of special concern) occur within the vicinity of the project site. All operators and commencement. See Plan Sheet 7.

NHFGreview@wildlife.nh.gov, with the email subject line containing the NHB DataCheck tool results letter assigned

Photographs of the observed species and nearby elements of habitat or areas of land disturbance shall be provided to

In the event a threatened or endangered species is observed on the project site during the term of the permit, the species shall not be disturbed, handled, or harmed in any way prior to consultation with NHFG and implementation of

a. Site operators shall be allowed to relocate wildlife encountered if discovered within the active work zone and if in direct harm from project activities. Wildlife shall be relocated in close proximity to the capture location but outside of the work zone and in the direction the individual was heading. NHFG shall be contacted immediately

personnel working on or entering the site should be made aware of the potential presence of these species and should be provided flyers that help to identify these species, along with NHFG contact information. Rare species information (e.g. identification, observation and reporting of observations, when to contact NHFG immediately and NHFG contact information) should be posted on site at all times and communicated during morning tailgate meetings prior to work



B143 Structure Replacement Project

Goffstown, Bedford, Merrimack, NH

Detail Sheet 5 of 7

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REPORT EASTERN HOGNOSE SNAKE OBSERVATIONS

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) or to NHFG Wildlife Biologist Melissa Winters 603-479-1129

Please report promptly, noting specific location and date - Photographs strongly encouraged

· Can be found in a variety of habitats throughout the season



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Goffstown, Bedford,	Detail Sheet 6 of 7
Merrimack, NH	AECOM
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B143 Structure Replacement Project

Goffstown, Bedford, Merrimack, NH

Detail Sheet 7 of 7



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