



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

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WETLANDS AND NON-SITE SPECIFIC PERMIT 2019-03673

NOTE CONDITIONS

PERMITTEE: NH DEPARTMENT OF TRANSPORTATION
PO BOX 483
CONCORD NH 03302

PROJECT LOCATION: US ROUTE 3, STRATFORD
TAX MAP #ROW, LOT #ROW

WATERBODY: UNNAMED STREAM

APPROVAL DATE: JANUARY 09, 2020

EXPIRATION DATE: JANUARY 09, 2025

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Based upon review of the above referenced application, in accordance with RSA 482-A and RSA 485-A:17, a Wetlands Permit and Non-Site Specific Permit was issued by the New Hampshire Department of Environmental Services (NHDES). This permit shall not be considered valid unless signed as specified below.

PERMIT DESCRIPTION: Dredge and fill a total of 3,710 square feet (SF), including 3,540 SF permanent and 170 SF temporary, within palustrine emergent wetland and the bed and banks of an unnamed stream (impacting 350 linear feet) to replace an existing 4.2 foot high x 4 foot wide x 20 foot long concrete box culvert with a 5 foot high x 7 foot wide x 24 foot long concrete box culvert embedded 24 inches with stream simulation and precast headwalls and wingwalls. In addition, construct a 3 foot wide wildlife passage shelf within the box culvert and restore the ditchline/channel adjacent to the stream.

THIS APPROVAL IS SUBJECT TO THE FOLLOWING PROJECT SPECIFIC CONDITIONS:

1. All work shall be in accordance with plans by NH Department of Transportation (NHDOT) dated October 27, 2018 as received by the NH Department of Environmental Services (NHDES) on November 22, 2019.
2. This permit is not valid until the applicant/owner obtains construction easements on abutting parcels or written permission from abutting property owners if work is beyond the ROW. The permittee shall submit a copy of each recorded easement to the NHDES Wetlands Bureau prior to construction.
3. There shall be no use of riprap or retention sills (baffles) within the culvert and in the streambed.
4. Materials used to emulate the natural stream bed shall be consistent with the bed materials identified in the reference reach, and shall be well-mixed with cobbles, gravels and fines that are washed in during installation to prevent subsurface stream flow (hyporheic). Stream bed materials shall not include angular riprap.
5. NHDOT shall submit to NHDES Wetlands Bureau photographic documentation of the streambed material within sixty (60) days post-construction.
6. NHDOT shall monitor this project post-construction through NHDOT's mitigation database.
7. Within sixty (60) days of completing the project, the applicant shall submit a post-construction monitoring report, documenting the conditions of enhanced stream. The submitted monitoring report shall identify the problem(s) limiting the success of the stream channel, measures which need to be taken to address the problem(s), and a time schedule on which the permittee will implement the corrective measures. NHDES Wetlands Bureau may require subsequent monitoring and corrective measures if NHDES deemed the area inadequately stabilized or restored.

www.des.nh.gov

29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095

NHDES Main Line: (603) 271-3503 • Subsurface Fax: (603) 271-6683 • Wetlands Fax: (603) 271-6588

TDD Access: Relay NH 1 (800) 735-2964

8. Any further alteration of areas on this property that are subject to RSA 482-A jurisdiction will require a new application and further permitting.
9. No person undertaking any activity shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards in RSA 485-A and Env-Wq 1700.
10. Work shall be done during low flow.
11. The use of welded plastic or 'biodegradable plastic' erosion control netting shall not be used on the project. Any slope stabilizing materials must be free from plastic or other non-biodegradable materials that create a mesh that can impact wildlife. Coco matting and other natural fibers are acceptable.
12. Appropriate siltation and erosion controls shall be in place prior to construction, shall be maintained during construction, and shall remain until the area is stabilized. Temporary controls shall be removed once the area has been stabilized.
13. Appropriate turbidity controls shall be installed prior to construction, shall be maintained during construction such that no turbidity escapes the immediate dredge area and shall remain until suspended particles have settled and water at the work site has returned to normal clarity.
14. The contractor responsible for completion of the work shall use techniques described in the New Hampshire Stormwater Manual, Volume 3, Erosion and Sediment Controls During Construction (December 2008).
15. Extreme precautions shall be taken within riparian areas to prevent unnecessary removal of vegetation during construction. Areas cleared of vegetation must be revegetated with like native species within three days of the completion of the disturbance.
16. Prior to commencing work on a substructure located within surface waters, the permittee or permittee's contractors shall construct a cofferdam to isolate the substructure work area from the surface waters.
17. Discharge from dewatering of work areas shall be to sediment basins that are: a) located in uplands; b) lined with hay bales or other acceptable sediment trapping liners; c) set back as far as possible from wetlands and surface waters, with a preferred undisturbed vegetated buffer of at least 50 feet and a minimum undisturbed vegetative buffer of 20 feet.
18. Dredged materials, whether to be stockpiled or disposed of, shall be dewatered in sedimentation basins lined with siltation and erosion controls, and located outside of areas subject to RSA 482-A jurisdiction.
19. The channel at the culvert inlet and outlet/recreated stream channel bed and box culvert must maintain the natural and a consistent streambed elevation and not impede stream flow.
20. Proper headwalls shall be constructed within seven days of culvert installation.
21. Construction equipment shall be inspected daily for leaking fuel, oil, and hydraulic fluid prior to entering surface waters or wetlands or operating in an area where such fluids could reach groundwater, surface waters, or wetlands.
22. The permittee's contractor shall maintain appropriate oil/diesel fuel spill kits on site that are readily accessible at all times during construction, and shall train each operator in the use of the kits.
23. All refueling of equipment shall occur outside of surface waters or wetlands during construction. Machinery shall be staged and refueled in upland areas only.
24. Within three days of final grading or temporary suspension of work in an area that is in or adjacent to wetlands or surface waters, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by mulching with tackifiers on slopes less than 3:1 or netting and pinning on slopes steeper than 3:1.

GENERAL CONDITIONS THAT APPLY TO ALL NHDES WETLANDS PERMITS:

1. A copy of this permit shall be posted on site during construction in a prominent location visible to inspecting personnel;
2. This permit does not convey a property right, nor authorize any injury to property of others, nor invasion of rights of others;
3. The NHDES Wetlands Bureau shall be notified upon completion of work;
4. This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits, and/or consult with other agencies as may be required (including US EPA, US Army Corps of Engineers, NH Department of

Transportation, NH Division of Historical Resources (NH Department of Cultural Resources), NHDES Alteration of Terrain, etc.);

- 5. Transfer of this permit to a new owner shall require notification to and approval by NHDES;
- 6. This project has been screened for potential impacts to **known** occurrences of protected species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or have only received cursory inventories, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species;
- 7. Review enclosed sheet for status of the US Army Corps of Engineers' federal wetlands permit.

APPROVED:



David Price
Wetlands Bureau
Land Resources Management

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BY SIGNING BELOW, I HEREBY CERTIFY THAT I HAVE FULLY READ THIS PERMIT AND AGREE TO ABIDE BY ALL PERMIT CONDITIONS.

OWNER'S SIGNATURE (required)

CONTRACTOR'S SIGNATURE (required)