

RJB ENGINEERING, LLC

2 Glendale Road
Concord, NH 03301
Ph. 603-219-0194

October 6, 2021

Amy S. Rafferty Revocable Trust
Amy S. Rafferty, Trustee
16 Millstream Lane
Concord, NH 03303

Conditional Use Permit Application

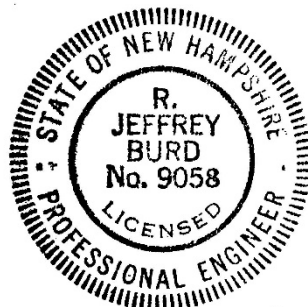
Supplemental information

Project description:

This project includes removal of an existing dry laid stone retaining wall, construction of a new masonry block retaining wall, and minor grading improvements. The purpose of this work is to enhance the back yard of the property for the owner and provide better pedestrian access to the back yard from the front of the house. The proposed wall will be constructed further from the shoreline than the existing retaining wall allowing room for a more evenly graded yard. No tree removal is necessary to construct the improvements. There will be no impact to the floodplain or floodway as a result of the improvements. The material that is going to be removed behind the existing wall will be used to level the area in front of the new wall – no earth materials will be imported to the project. Best management practices will be used during construction to minimize any erosion including installing silt fence and maintaining it until vegetation has been established. A Shoreland Permit has been obtained from the NH Department of Environmental Services for the proposed work and has been included in the application.

In summary, this is a small residential project that will enhance the property and improve pedestrian access to the back of the property. The improvements should increase the value of the home and be an improvement to the neighborhood. There will be no detrimental effect to the neighborhood, to the environment, or to the floodplain or floodway.

Respectfully submitted,
Jeff Burd
RJB Engineering, LLC



RJBurd

Proposed construction of a new retaining wall. The existing retaining wall is to be removed. The proposed retaining wall will be further from the reference line at its closest point than the existing wall. Impacts will include removal of the existing wall, construction of the proposed wall, and necessary grading behind the wall. Proposed will temporarily impact construction and grading.

Wall shall be constructed according to the guidelines of the site plan.

Retaining wall to be a Diomand 9D Geosynthetic-reinforced wall as manufactured by Belgard.

No other wall systems are to be constructed without the engineer's approval.

Temporary Slit fence shall be inspected and maintained at all times according to the engineer guidelines.

Temporary impacts: Grading and installation of retaining wall = 2400 sqft

Permanent impacts: Retaining wall block width = 100 sqft

Total Impact = 2500sqft

SITE PHOTOGRAPHS



Client: Amy Rafferty
Location: 16 Millstream Lane
Penacook NH 03303

Prepared by:
Beaver Brook Planning and Design
PO Box 2272
Concord, NH 03302
(603) 496-9097

SITE PHOTOGRAPHS



Client: Amy Rafferty
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The State of New Hampshire
Department of Environmental Services

Robert R. Scott, Commissioner



SHORELAND IMPACT PERMIT 2021-02434

NOTE CONDITIONS

PERMITTEE: THE AMY S RAFFERTY REVOCABLE TRUST
15 MILLSTREAM LANE
CONCORD NH 03301

PROJECT LOCATION 16 MILLSTREAM LANE, CONCORD
TAX MAP #1442, LOT #P48

WATERBODY: RALFE CANAL/CONTOOCOOK RIVER

APPROVAL DATE: AUGUST 31, 2021 **EXPIRATION DATE:** AUGUST 31, 2026

Shoreland Permit Application 2021-02434 has been found to meet or exceed the requirements of RSA 483-B as required per RSA 483-B:6, II. The New Hampshire Department of Environmental Services (NHDES) hereby issues this Shoreland Impact Permit with conditions pursuant to RSA 483-B:6, II.

PERMIT DESCRIPTION:

Impact 2,500 square feet of protected shoreland in order to replace an existing retaining wall and regrade lawn.

Impervious Surface Percentage Approved: 14.7%

Natural Woodland Area Required per RSA 483-B:9,V, (b): 950 square feet

THE FOLLOWING PROJECT-SPECIFIC CONDITIONS HAVE BEEN APPLIED TO THE PERMIT PURSUANT TO ENV-WQ 1406.15(c):

1. All work shall be in accordance with revised plans by RJB Engineering LLC dated June 14, 2021 and received by the New Hampshire Department of Environmental Services (NHDES) on August 27, 2021 pursuant to Env-Wq 1406.15(f).
2. Pursuant to RSA 483-B:9, V(b)(2), no native vegetation shall be removed from within the Natural Woodland Buffer located between 50 and 150 feet landward of the reference line.
3. 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 tack or netting and pinning on slopes steeper than 3:1 as required pursuant to RSA 483-B:9, V(d) Erosion and Siltation, (1).
4. This permit shall not be interpreted as acceptance or approval of any impact that will occur within wetlands jurisdiction regulated under RSA 482-A including all wetlands, surface waters and their banks. The owner is responsible for maintaining compliance with RSA 482-A and Administrative Rules Env-Wt 100 - 900 and obtaining any Wetland Impact Permit that may be required prior to construction, excavation or fill that will occur within Wetlands jurisdiction as required pursuant to RSA 483-B:6, I(c).
5. This permit shall not preclude NHDES from taking any enforcement or revocation action as authorized pursuant to 483-B:5, I, if NHDES later determines that any of the structures depicted as "existing" on the plans submitted by the applicant were not previously permitted or grandfathered.

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

THE FOLLOWING STANDARD PROJECT CONDITIONS SHALL BE MET PURSUANT TO ENV-WQ 1406.20:

1. Erosion and siltation control measures shall be installed prior to the start of work, be maintained throughout the project, and remain in place until all disturbed surfaces are stabilized.
2. Erosion and siltation controls shall be appropriate to the size and nature of the project and to the physical characteristics of the site, including slope, soil type, vegetative cover, and proximity to wetlands or surface waters.
3. No person undertaking any activity in the protected shoreland shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards established in Env-Wq 1700.
4. Any fill used shall be clean sand, gravel, rock, or other suitable material.
5. For any project where mechanized equipment will be used, orange construction fence shall be installed prior to the start of work at the limits of the temporary impact area as shown on the approved plans; be maintained throughout the project; and remain in place until all mechanized equipment has been removed from the site.

ANY INDIVIDUAL CONDUCTING WORK UNDER THIS PERMIT IS ADVISED OF THE FOLLOWING:

1. During construction, a copy of this permit should be posted on site 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. Pursuant to Env-Wq 1406.21, transfer of this permit to a new owner requires notification to, and approval of, the NHDES.
4. This project has been screened for potential impact to **known** occurrences of protected species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or only cursory surveys have been performed, 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. This permit does not authorize in any way the take of threatened or endangered species, as defined by RSA 212-A:2, or of any protected species or exemplary natural communities, as defined in RSA 217-A:3.

APPROVED:

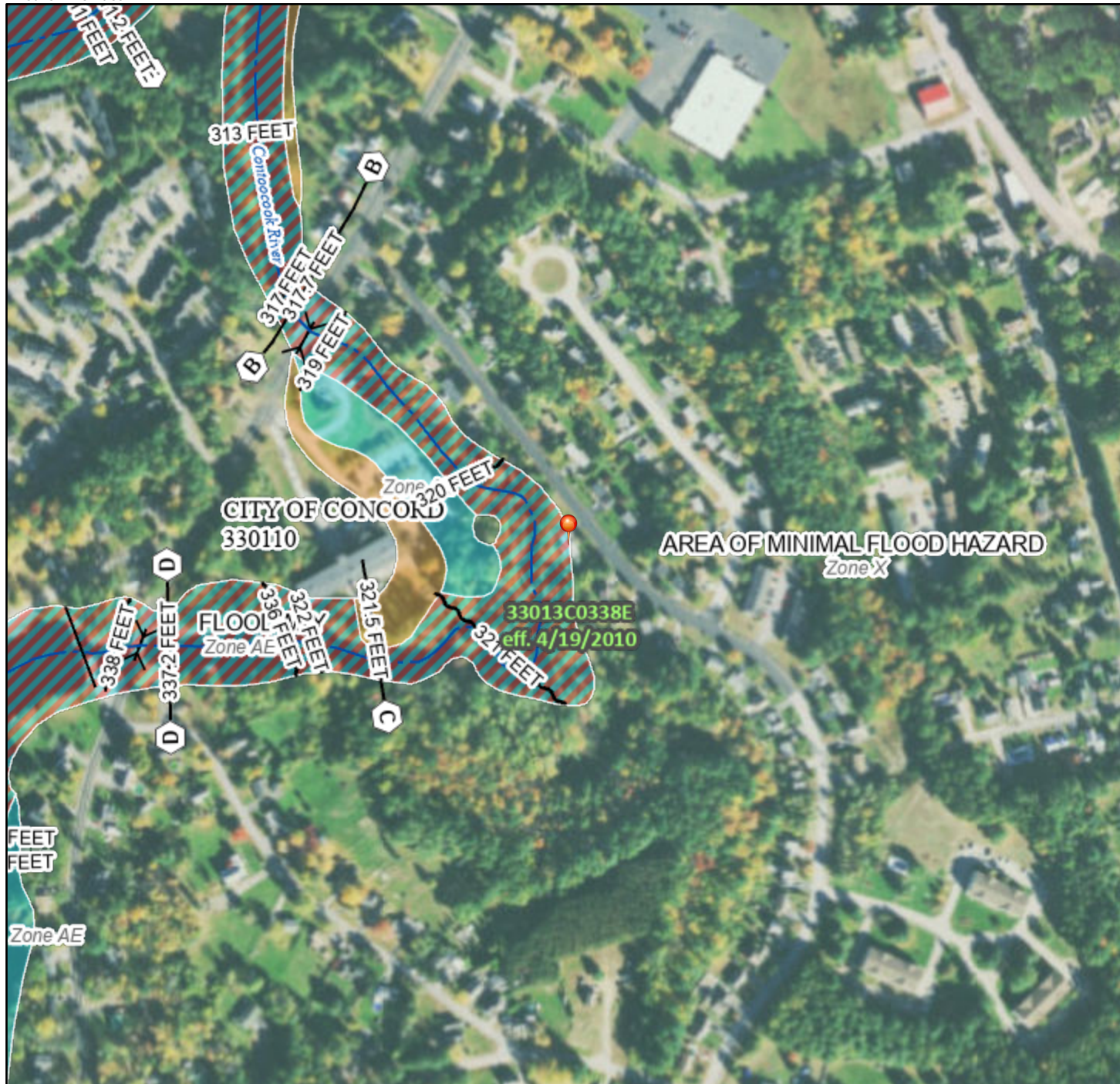


Ryan A. Duquette
Shoreland/Shoreline Specialist, Shoreland Program
Wetlands Bureau, Land Resources Management
Water Division

National Flood Hazard Layer FIRMette



71°36'25"W 43°16'38"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 71°35'47"W 43°16'11"N
Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/5/2021 at 8:28 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.