

July 30, 2021

Northborough Conservation Commission
Northborough Town Hall
63 Main Street
Northborough, MA 01532

Re: Notice of Intent
89 School Street, Northborough
(Map: 73, Parcel: 36)

Dear Northborough Conservation Commission:

Goddard Consulting, LLC (Goddard) is pleased to submit this Notice of Intent (NOI) on behalf of the applicant, Damon Accardi, for the property known as 89 School Street, in Northborough, MA 01532 (Map: 73, Parcel: 36). The applicant proposes the construction of a patio over existing lawn and gravel, directly adjacent to a single-family house. The patio is proposed within the 100-foot Buffer Zone to BVW, the 200-foot Riverfront Area to two perennial rivers, and Bordering Land Subject to Flooding. This NOI application is being filed under the Massachusetts Wetlands Protection Act (the WPA) and the Town of Northborough Wetlands Bylaw (the Bylaw).

The original and 2 copies of this application have been submitted for your review, along with a digital submittal. A list of enclosed documents is as follows:

- NOI Application (WPA Form 3)
- Wetlands Fee Transmittal Form
- Copy of Checks
- Affidavit of Service, Notification to Abutters, Certified Abutters List
- Wetland Border Report, Goddard Consulting LLC. 07/13/2021
- *Orthophoto of Site*, Goddard Consulting LLC. 06/16/2021
- *USGS of Site*, Goddard Consulting LLC. 06/16/2021
- *Existing Conditions*, Goddard Consulting LLC. 7/27/2021
- *Proposed Conditions*, Goddard Consulting LLC. 7/27/2021

1.0 Existing Conditions

The site of the proposed project consists of one land parcel totaling 0.93 acres. There is an existing single-family house with an attached deck and stairs, a shed, gravel walkway, and lawn space. Currently, heavy foot traffic has worn down a portion of lawn space adjacent to the house and created bare spots that don't grow grass. The barren soils caused by the heavy foot traffic are subject to erosion during heavy rain events and pose the risk of sediment flowing toward the downgradient wetlands.

Bordering Vegetated Wetland was delineated across the sides and back portion of the site. The wetlands are dominant in red maple, American elm, silky dogwood, winterberry, northern arrowwood, and greater bladder sedge. MA DEP data sheets are attached for further

information. The adjacent forested uplands are dominant in white ash, American elm, autumn olive, and Canada goldenrod.

The Assabet River flows along the eastern property boundary, from south to north. A tributary river flows just off-site, near the northern property boundary from west to east. The entire parcel falls within the 200-foot Riverfront Area. The existing house and driveway are within the 100-foot Riverfront Area. The western portion of the proposed patio will fall within the 100-foot Riverfront area.

According to the MassGIS data layers for NHESP, the property is not located within an Estimated Habitat of Rare Wildlife / Priority Habitat of Rare Species. No potential or certified vernal pools or Outstanding Resource Waters (ORW) are mapped within the site or immediate vicinity. The property is not within any Areas of Critical Environmental Concern (ACEC). A portion of the property does fall within FEMA 100-year floodplain “Zone A”, with no base flood elevation (BFE). The flood zone encompasses the majority of the parcel excluding the area from the existing house and driveway to the southwestern corner of the lot.

2.0 Project Summary

The project proposes the construction of a patio (800 SF) over existing lawn and gravel adjacent to a single-family house. The patio is proposed within the 100-foot Buffer Zone to BVW, 200-foot Riverfront Area, and Bordering Land Subject to Flooding. At its closest point, the patio is proposed 11 feet from the BVW boundary and 75 feet from the MAHW line of a river. Erosion controls will be installed along the limit of work in the form of staked mulch stock to prevent sediment from entering the wetlands if erosion were to occur during construction.

3.0 Regulatory Compliance

The project is subject to the regulations set forth in the Wetlands Protection Act and the Northborough Wetlands Bylaw, therefore the project must comply with the performance standards for each resource area impacted. The following resource areas will be discussed below:

- Buffer Zone to Bordering Vegetated Wetlands
- 200-foot Riverfront Area
- Bordering Land Subject to Flooding

3.1 Compliance with the Bylaw

As the project proposes the construction of a patio within the 25-foot no build zone and the 100-foot Riverfront Area, it is subject to regulations under the Northborough Wetlands Bylaw. The four conditions stated below show that the project remains compliant under the Town of Northborough Wetlands Bylaw and poses no adverse risks to the resource areas, even though the patio is proposed within the 25-foot no build zone.

The Town of Northborough Wetlands Bylaw Regulations [4.2.3 *General Performance Standards*] states that the Commission may allow work within the 25-foot no build zone to BVW if the applicant demonstrates:

(1) alternatives have been considered and in the judgment of the Commission no practical alternative is available;

Alternatives have been considered by the Applicant, however the alternative plans would not accomplish the goal of the proposed project. The goal of the project is to replace existing lawn and gravel with a uniform patio material (pervious pavers that can infiltrate stormwater). Currently, heavy foot traffic has worn down the lawn grass and created bare spots that don't grow grass (see Photo 1 and 2).



Photo 1: The barren soils caused by heavy foot traffic pose the risk of erosion and sedimentation of the wetlands off to the left side of the photo. The proposed patio will extend from the driveway to the edge of the lawn (the footprint of the patio is shown in purple). Beyond the lawn, the topography slopes down to uplands and eventually wetlands. The patio will extend toward the stairs and a gravel area off camera to the right of the stairs.

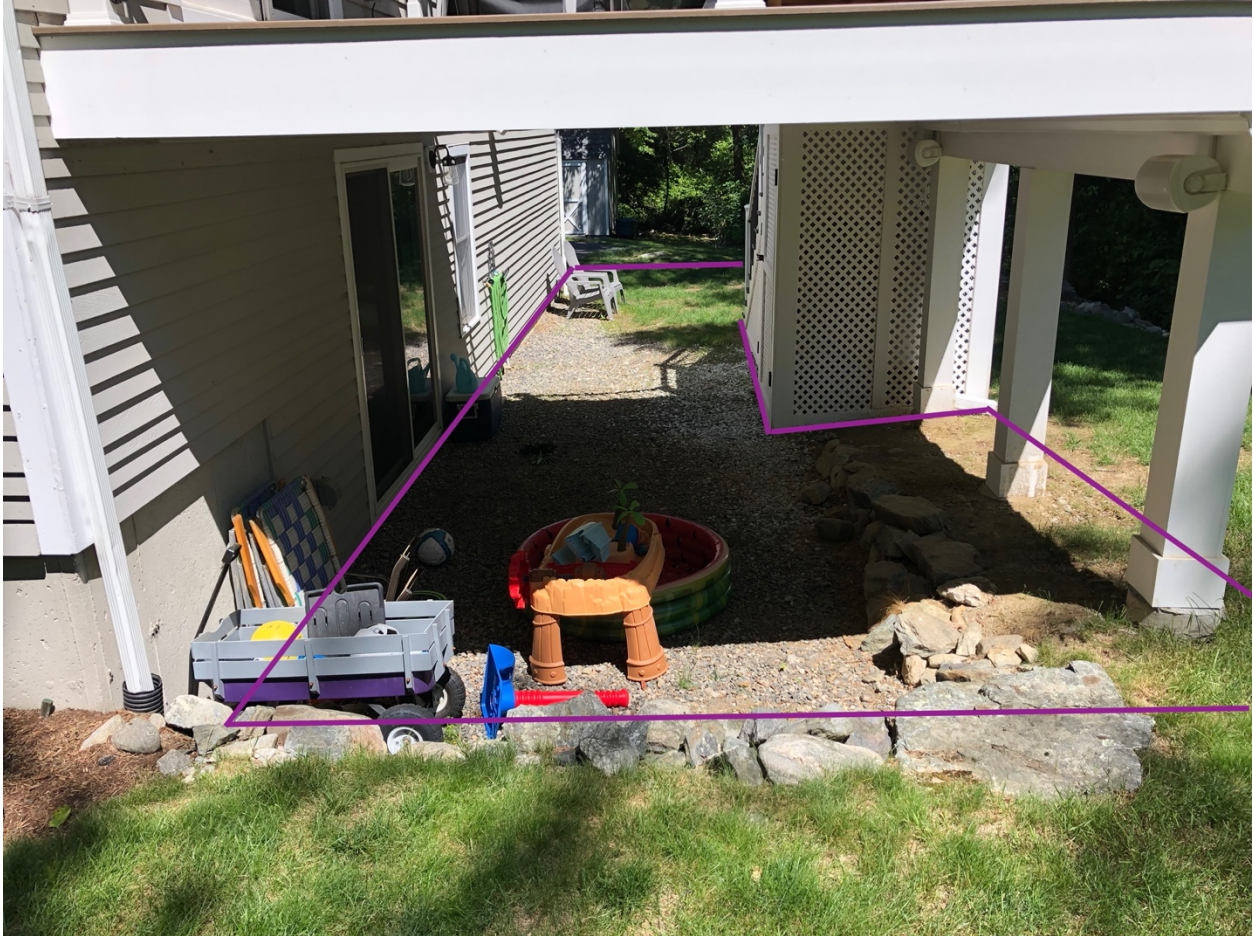


Photo 2: The proposed patio extends beneath an existing deck. Beneath the deck there is a gravel walkway and a retaining wall that will be shifted back a foot or two during the patio construction.

The area where the patio is proposed serves as an intersection between several frequently used access paths: (1) access path from the driveway to the basement door; (2) access path from the driveway to the staircase for the deck; (3) access path from the driveway to the back yard; (4) access path from the basement door to the staircase for the deck (5) access path from the basement door to the backyard (6) access path from the shed to the backyard; (7) access path from the shed to the staircase for the deck; and (8) access path from the shed to the basement door.

The barren soils caused by the heavy foot traffic are subject to erosion during heavy rain events and pose the risk of sediment flowing toward the downgradient wetlands. The patio may provide an improvement over existing conditions because it would eliminate the risk of erosion. The pervious patio pavers would allow rainwater to infiltrate between each paver, preventing the need for stormwater management features.

Alternative 1: Patio Proposed Elsewhere On The Property

An alternative to installing the patio in the heavily trafficked area is installing the patio elsewhere on the property. Although this alternative would allow the Applicant to enjoy

patio space, it would not adequately address the concerns related to the heavily trafficked area with barren soils and erosion potential. No improvement to the existing condition of the access paths would occur and the Buffer Zone would remain subject to erosion and sedimentation.

Alternative 2: Patio Not Proposed, Existing Conditions Remain

An alternative to installing the patio in the heavily trafficked area is not installing the patio at all. No improvement to the existing condition of the access paths would occur and the Buffer Zone would remain subject to erosion and sedimentation caused by the heavy foot traffic and barren soils.

(2) project scope and design minimize work in close proximity to resource areas;

The project scope does not encroach closer to the wetlands than previously developed areas (existing lawn). The Applicant has demonstrated that the project scope needs to be in this specific area, close to the wetlands, due to the existing configuration of the house and access paths associated with the property. Work in this area may be minimized with the installation of the patio because there will no longer be a need to apply loam and seed to the barren areas (which happens frequently).

(3) site conditions (including but not limited to slope, soil type and hydrology) will allow prevention of wetland damage from such work; and

The patio is proposed over a level area. The only slope on site is outside of the limit of work and no risks will be created as a result of construction. Erosion controls will be installed at the edge of the work area (at the top of the slope) to prevent damage to the wetland during construction.

(4) such work will not lead to encroachment on the resource area after completion of the project.

The proposed patio will not lead to encroachment on the resource areas after the completion of the project. It is proposed over an already disturbed lawn area.

3.2 Buffer Zone Compliance under the WPA

The WPA Regulations [310 CMR 10.02(2)(b)] do not contain performance standards for Buffer Zone Alteration. All reasonable efforts to avoid, minimize and mitigate adverse impacts on the Buffer Zone have been considered, but the project design requires that Buffer Zone be altered in order to achieve the desired project design. The project design does not encroach any closer to the current wetland resource areas than the existing disturbed conditions. Erosion and sedimentation controls in the form of staked mulch sock will be installed along the limit of work throughout the project area in order to prevent any siltation into the wetlands during construction.

3.3 Riverfront Area Compliance under the WPA

The project proposes +/- 800 SF of Riverfront Area impacts. +/- 565 SF of impacts will occur in the 100-foot Riverfront Area and +/- 235 SF of impacts will occur in the 200-foot Riverfront Area. The closest disturbance to the Mean Annual High Water lines of the rivers are 75 feet and 107 feet away.

The WPA Regulations [310 CMR 10.02(2)(b)(2)(e)] contain exemptions for conversions of already disturbed properties. 310 CMR 10.02(2)(b)(2) states that:

The following minor activities, provided that they comply with 310 CMR 10.02(2)(b)1., are not otherwise subject to regulation under M.G.L. c. 131, § 40:

[310 CMR 10.02(2)(b)(2)(e)] states:

The conversion of lawn to uses accessory to residential structures such as decks, sheds, patios, pools, replacement of a basement bulkhead and the installation of a ramp for compliance with accessibility requirements, provided the activity, including material staging and stockpiling is located more than 50 feet from the mean annual high-water line within the Riverfront Area, Bank or from Bordering Vegetated Wetland, whichever is farther, and erosion and sedimentation controls are implemented during construction.

According to [310 CMR 10.02(2)(b)(2)(e)], the proposed work is not subject to regulation under M.G.L. c. 131, § 40 (the WPA) because the existing lawn is will be converted to a patio (a use accessory to a residential structure) and is located more than 50 feet from the mean annual high-water line within the Riverfront Area. Erosion and sedimentation controls will be implemented during construction, along the limit of work, in the form of staked mulch sock. Therefore, Riverfront Area performance standards from section [10.58(4)] of the WPA do not need to be met for this scope of work.

3.4 Bordering Land Subject to Flooding Compliance under the WPA

A portion of the patio (130 SF) is located within Bordering Lands Subject to Flooding (Flood Zone A). The WPA Regulations [310 CMR 10.57(4)(a)] contain performance standards for Bordering Land Subject to Flooding that the project must comply with. The performance standards are numbered below with descriptions for how the project intends to comply with each respective performance standard:

1. Compensatory storage shall be provided for all flood storage volume that will be lost as the result of a proposed project within Bordering Land Subject to Flooding, when in the judgment of the issuing authority said loss will cause an increase or will contribute incrementally to an increase in the horizontal extent and level of flood waters during peak flows.

Compensatory storage shall mean a volume not previously used for flood storage and shall be incrementally equal to the theoretical volume of flood water at each elevation, up to and including the 100-year flood elevation, which would be displaced by the proposed project. Such compensatory volume shall have an unrestricted hydraulic connection to the same waterway or water body. Further, with respect to waterways, such compensatory volume shall be provided within the same reach of the river, stream or creek.

No fill is proposed for the proposed construction of the patio, therefore no flood storage volume will be lost, thus no compensatory storage will be required. The patio will be constructed at existing surface elevation.

2. Work within Bordering Land Subject to Flooding, including that work required to provide the above-specified compensatory storage, shall not restrict flows so as to cause an increase in flood stage or velocity.

The proposed patio will not restrict flows so as to cause an increase in flood stage or velocity within Bordering Land Subject to Flooding.

3. Work in those portions of bordering land subject to flooding found to be significant to the protection of wildlife habitat shall not impair its capacity to provide important wildlife habitat functions. Except for work which would adversely affect vernal pool habitat, a project or projects on a single lot, for which Notice(s) of Intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold, or altering vernal pool habitat, may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.

No important wildlife habitat functions will be impaired by the proposed project because the patio is proposed in a heavily trafficked area of existing lawn and gravel space adjacent to the existing house.

4.0 Conclusion

Goddard Consulting believes that the proposed project will not have any adverse impacts on the interests identified in the Wetlands Protection Act. The project meets all regulatory compliance standards under the Wetlands Protection Act and the Town of Northborough Wetlands Bylaw, therefore Goddard Consulting respectfully requests that the Northborough Conservation Commission issues an Order of Conditions approving the proposed project. Please feel free to contact us if you have any questions.

Sincerely,
Goddard Consulting, LLC



Mitch Maslanka
Wetland Scientist

CC: Mass DEP – Central Regional Office, Wetlands Division, 8 New Bond Street, Worcester, MA 01606
Damon Accardi, 89 School Street, Northborough, MA 01532



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
And the Town of Northborough Wetlands Bylaw

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Northborough
City/Town

Important:
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

A. General Information

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>89 School Street</u>	<u>Northborough</u>	<u>01532</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>42.3144881</u>	<u>-71.6350503</u>	
d. Latitude	e. Longitude	
<u>Map: 73</u>	<u>Parcel: 36</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Damon</u>	<u>Accardi</u>	
a. First Name	b. Last Name	
c. Organization		
<u>89 School Street</u>		
d. Street Address		
<u>Northborough</u>	<u>MA</u>	<u>01532</u>
e. City/Town	f. State	g. Zip Code
<u>(508) 732-8276</u>	<u>damon.accardi@gmail.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant): Check if more than one owner

<u></u>	<u></u>	
a. First Name	b. Last Name	
c. Organization		
d. Street Address		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>Mitch</u>	<u>Maslanka</u>	
a. First Name	b. Last Name	
<u>Goddard Consulting LLC</u>		
c. Company		
<u>291 Main Street, Suite 8</u>		
d. Street Address		
<u>Northborough</u>	<u>MA</u>	<u>01532</u>
e. City/Town	f. State	g. Zip Code
<u>(508) 615-2041</u>	<u>mitch@goddardconsultingllc.com</u>	
h. Phone Number	i. Fax Number	j. Email address

5. Total WPA Fee Paid (from NOI Wetland Fee Transmittal Form):

<u>\$165 + \$40 (bylaw)</u>	<u>\$70.00</u>	<u>\$95.00 + \$40 (bylaw)</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

The addition of a patio to a single-family house over existing lawn within the 100-foot Buffer Zone to BVW, the 200-foot Riverfront Area to two perennial streams, and Bordering Land Subject to Flooding.

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1. Single Family Home
- 2. Residential Subdivision
- 3. Commercial/Industrial
- 4. Dock/Pier
- 5. Utilities
- 6. Coastal engineering Structure
- 7. Agriculture (e.g., cranberries, forestry)
- 8. Transportation
- 9. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project (including Ecological Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

- 1. Yes No If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Worcester

a. County

56670

c. Book

b. Certificate # (if registered land)

337

d. Page Number

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	130 SF 1. square feet 0 3. cubic feet of flood storage lost	130 SF 2. square feet 0 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced
f. <input checked="" type="checkbox"/> Riverfront Area	Inland; Assabet River and a tributary river to the Assabet River 1. Name of Waterway (if available) - specify coastal or inland	

2. Width of Riverfront Area (check one):

- 25 ft. - Designated Densely Developed Areas only
- 100 ft. - New agricultural projects only
- 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: +/- 38,880 SF
square feet

4. Proposed alteration of the Riverfront Area:

<u>800 SF</u>	<u>565 SF</u>	<u>235 SF</u>
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

- 5. Has an alternatives analysis been done and is it attached to this NOI? Yes No
- 6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25-10.35)

Note: for coastal riverfront areas, please complete **Section B.2.f.** above.



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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

- Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

**Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581**

2017
b. Date of map

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

c. Submit Supplemental Information for Endangered Species Review*

- Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage

2. Assessor's Map or right-of-way plan of site

- Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

** MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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C. Other Applicable Standards and Requirements (cont'd)

- (c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

- (d) Vegetation cover type map of site

- (e) Project plans showing Priority & Estimated Habitat boundaries

- (f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # _____ b. Date submitted to NHESP _____

3. Separate MESA review completed.
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

3. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

- a. Not applicable – project is in inland resource area only b. Yes No

If yes, include proof of mailing, hand delivery, or electronic delivery of NOI to either:

South Shore - Cohasset to Rhode Island border, and
the Cape & Islands:

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: dmf.envreview-south@mass.gov

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: dmf.envreview-north@mass.gov

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

- c. Is this an aquaculture project? d. Yes No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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C. Other Applicable Standards and Requirements (cont'd)

Online Users:

Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
- a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
- b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
- a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
- a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
- a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
- b. No. Check why the project is exempt:
1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

And the Town of Northborough Wetlands Bylaw

Provided by MassDEP:
MassDEP File Number
Document Transaction Number
Northborough
City/Town

D. Additional Information (cont'd)

3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.

4. List the titles and dates for all plans and other materials submitted with this NOI.

(1) Existing Conditions, 89 School Street - Northborough, MA; (2) Proposed Conditions, 89 School Street - Northborough, MA

Goddard Consulting LLC

b. Prepared By

7/27/2021; 7/29/2021

d. Final Revision Date

c. Signed and Stamped by

1"=40'

e. Scale

f. Additional Plan or Document Title

g. Date

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.

7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.

8. Attach NOI Wetland Fee Transmittal Form

9. Attach Stormwater Report, if needed.

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

503, 504 (bylaw)

2. Municipal Check Number

502

4. State Check Number

Damon

6. Payor name on check: First Name

07/21/2021, 07/21/2021

3. Check date

07/21/2021

5. Check date

Accardi

7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
 And the Town of Northborough Wetlands Bylaw

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

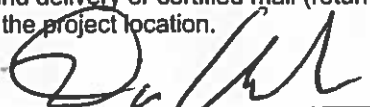
Northborough

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.



1. Signature of Applicant (Damon Accardi)



2. Date

3. Signature of Property Owner (if different)



5. Signature of Representative (Mitch Maslanka, Goddard Consulting LLC)

4. Date



6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
NOI Wetland Fee Transmittal Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
 And the Town of Northborough Wetlands Bylaw

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



A. Applicant Information

1. Location of Project:

89 School Street	Northborough
a. Street Address	b. City/Town
502	\$70.00
c. Check number	d. Fee amount

2. Applicant Mailing Address:

Damon	Accardi	
a. First Name	b. Last Name	
c. Organization		
89 School Street		
d. Mailing Address		
Northborough	MA	01532
e. City/Town	f. State	g. Zip Code
(508) 732-8276	damon.accardi@gmail.com	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

_____	_____	
a. First Name	b. Last Name	
c. Organization		
d. Mailing Address		
_____	_____	_____
e. City/Town	f. State	g. Zip Code
_____	_____	_____
h. Phone Number	i. Fax Number	j. Email Address

B. Fees

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

And the Town of Northborough Wetlands Bylaw

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 1: Addition of a patio	1	\$110 x 1.5 (RFA)	\$165
		+ \$40 (Bylaw)	

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee:	\$165 + \$40 (bylaw)
	a. Total Fee from Step 5
State share of filing Fee:	\$70.00
	b. 1/2 Total Fee less \$12.50
City/Town share of filling Fee:	\$95.00+ \$40 (bylaw)
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection
Box 4062
Boston, MA 02211

b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act
And the Town of Northborough Wetlands Bylaw

(to be submitted to the Massachusetts Department of Environmental
Protection and the Conservation Commission)

I, Mitch Maslanka hereby certify under the pains and penalties of perjury that on 7/30/2021 I gave notification to abutters in Compliance with the second paragraph of Massachusetts General Law Chapter 131, Section 40, and the DEP Guide to Abutter Notification dating April 8, 1994 in connection with the following matter:

A Notice of Intent was filed under the Massachusetts Wetlands Protection Act by Damon Accardi with the Northborough Conservation Commission on 7/30/2021 for property located at 89 School Street (Map: 73, Parcel: 36) in Northborough, MA for the addition of a patio to a single-family house over existing lawn and gravel within the 100-foot Buffer Zone to Bordering Vegetated Wetlands, the 200-foot Riverfront Area to two perennial streams, and Bordering Land Subject to Flooding.

The form of the notification, and the list of abutters to whom it was given, and their addresses, are attached to this Affidavit of Service.

Mitch Maslanka
(Name)

7/30/2021
(Date)

**Notification to Abutters Under the
Massachusetts Wetlands Protection Act and
The Town of Northborough Wetlands Bylaw**

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, you are hereby notified of the following.

- A. The name of the applicant is: **Damon Accardi**
- B. The applicant has filed a **Notice of Intent (NOI)** with the Conservation Commission for the municipality of **Northborough, MA**, seeking permission to perform activities within Areas Subject to Protection under the Wetlands Protection Act (General Laws Chapter 131, Section 40).
- C. The project scope is for: **The addition of a patio to a single-family house over existing lawn and gravel within the 100-foot Buffer Zone to Bordering Vegetated Wetland and the 200-foot Riverfront Area from two perennial rivers.**
- D. The address of the lot where the activity is proposed is: **89 School Street, Northborough, MA (Map: 73, Parcel: 36).**
- E. Copies of the NOI application may be examined at **Northborough Town Hall** Mondays, Wednesdays, and Thursdays from 8:00am-4:00pm, Tuesdays from 8:00am-7:00pm, and Fridays from 7:00am-12:00pm or by appointment. For additional information, call **(508) 393-5015**.
- F. Copies of the NOI application may be obtained for a reasonable fee from the applicant's representative, **Goddard Consulting LLC**, by calling **(508) 615-2041** between the hours of **10 and 3** on the following days of the week: **M, T, W, Th., F**.
- G. Information regarding the date, time, and place of the public hearing may be obtained from **Northborough Conservation Commission** by calling **(508) 393-5015**.

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in a local newspaper publication (**The Worcester Telegram and Gazette**).

NOTE: Notice of the public hearing, including the date, time, and place, will be posted in the City or Town Hall not less than forty-eight (48) hours in advance.

Note: You also may contact your local Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call:

Central Region: (508) 792-7650
 Southeast Region: (508) 946-2700

Northeast Region: (978) 694-3200
 Western Region: (413) 784-1100

89 School Street - 100 ft. Abutters
 July 13, 2021

ID	Address Number	Street Name	Owner Name	Owner Name 2	Owner Address 1	Owner City	Owner State	Owner Zip
073.0-0041-0000.0	202	BRIGHAM STREET	JUNIPER HILL GOLF COURSE INC		202 BRIGHAM STREET	NORTHBOROUGH	MA	01532
073.0-0038-0000.0	0	SCHOOL STREET	SUDBURY VALLEY TRUSTEES INC		18 WOLBACH ROAD	SUDBURY	MA	01776
073.0-0034-0000.0	71	SCHOOL STREET	DELFINO MARGARET		71 SCHOOL STREET	NORTHBOROUGH	MA	01532
073.0-0030-0000.0	80	SCHOOL STREET	PALMER CLIFFORD &	PALMER MARTHA	189 SOUTH STREET	NORTHBOROUGH	MA	01532
073.0-0029-0000.0	84	SCHOOL STREET	PALMER CLIFFORD B L E. Palmer Clifford E	Cowden Dolores Berbenian Deborah	84 SCHOOL STREET	NORTHBORO	MA	01532
073.0-0036-0000.0	89	SCHOOL STREET	ACCARDI DAMON J	ACCARDI LISA M	89 SCHOOL STREET	NORTHBOROUGH	MA	01532
073.0-0028-0000.0	92	SCHOOL STREET	MCSHANE JOHN P AND	MCSHANE SUSAN	148 MILL STREET	HOPEDALE	MA	01747
073.0-0074-0000.0	96	SCHOOL STREET	STILES JODY	STILES ALYSIA	96 SCHOOL STREET	NORTHBOROUGH	MA	01532

89 School Street



**MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT**

Town of Northborough, MA makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated Jan 28, 2020
Data updated Jan 28, 2020

Print map scale is approximate.
Critical layout or measurement
activities should not be done using
this resource.

July 13, 2021

Damon Accardi
89 School Street
Northborough, MA 01532

**Re: Wetland Border Report
89 School Street, Northborough, MA**

Dear Mr. Accardi,

On June 17, 2021, the wetland resource areas were delineated at the site located at 89 School Street in Northborough, MA (see attached orthophoto and USGS maps of site). The wetland resource boundaries were flagged using the criteria in the most recent edition of the MA Wetlands Protection Act (WPA) and Regulations 310 CMR 10.00 *et al.* Hydric soil indicators, vegetational changes, hydrological indicators, and topography were all considered for delineation purposes.

The wetland resource areas delineated include: two perennial rivers (delineated as Mean Annual High Water, which corresponded with the first break in slope), and Bordering Vegetated Wetland (BVW). The edge of the BVW was delineated with wetland flags WF1 to WF19. Flag WF6 was documented with MA DEP BVW Data Sheets and those sheets are attached to this report. The BVW borders two perennial rivers along the edges of the property lines. At the northern site boundary, flags MAHW1-MAHW10 were used to delineate the mean annual high-water line of a perennial stream flowing into the Assabet River. The Assabet River mean annual high-water line was delineated with flags MAHW1A-MAHW9A.

According to the MassGIS data layers for NHESP, the property is not located within an Estimated Habitat of Rare Wildlife / Priority Habitat of Rare Species. No potential or certified vernal pools or Outstanding Resource Waters (ORW) are mapped within the site or immediate vicinity. The property is not within any Areas of Critical Environmental Concern (ACEC). A portion of the property does fall within FEMA 100-year floodplain "Zone A", with no base flood elevation (BFE).

Any work proposed within 100 feet of the BVW and 200 feet of the perennial rivers require the filing of a Request for Determination of Applicability (RDA) or Notice of Intent (NOI), depending on the nature of proposed work and/or proximity to the delineated resource areas. If you need further assistance with permitting, please contact us. We would be happy to assist.

Sincerely,
Goddard Consulting, LLC



Mitch Maslanka
Wetland Scientist

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

 Applicant: Damon Accardi

 Prepared by: Goddard Consulting LLC

 Project location: 89 School Street

DEP File #: _____

Check all that apply:

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only |
| <input checked="" type="checkbox"/> | Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II |
| <input type="checkbox"/> | Method other than dominance test used (attach additional information) |

Section I. Vegetation	Observation Plot Number: <u>GC WF6</u>	Transect Number: <u>Upgradient</u>	Date of Delineation: <u>17-Jun-21</u>		
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<u>Tree Layer</u>					
White Ash	<i>Fraxinus americana</i>	38%	65.0%	yes	FACU
American Elm	<i>Ulmus americana</i>	20.5%	35.0%	yes	FACW*
<u>Sapling Layer</u>					
American Elm	<i>Ulmus americana</i>	3.0%	100.0%	yes	FACW*
<u>Shrub Layer</u>					
Autumn Olive	<i>Elaeagnus angustifolia</i>	3%	100.0%	yes	FACU
<u>Climbing Woody Vine</u>					
<u>Ground Cover</u>					
Virginia-Creeper	<i>Parthenocissus quinquefolia</i>	3%	7.8%	no	FACU
Common Red Raspberry	<i>Rubus idaeus</i>	3%	7.8%	no	FACU
Jewelweed	<i>Impatiens capensis</i>	3%	7.8%	no	FACW*
Early Meadow-rue	<i>Thalictrum dioicum</i>	3%	7.8%	no	FACU
Tall Goldenrod	<i>Solidago altissima</i>	3%	7.8%	no	FACU
Wrinkle-leaf Goldenrod	<i>Solidago rugosa</i>	3%	7.8%	no	FAC*
Canada Goldenrod	<i>Solidago canadensis</i>	21%	53.2%	yes	FACU
Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth					
Morphological Adaptations: <u>0</u>		Description: _____			
* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.					
Vegetation conclusion:					
Number of dominant wetland indicator plants: 2			Number of dominant non-wetland indicator plants: 3		
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? no					

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Soil Survey of Worcester County, Northeastern Part - 1985

map number: 102C

soil type mapped: Chatfield-Hollis-Rock Outcrop Complex

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

<u>Horizon</u>	<u>Depth (inches)</u>	<u>Matrix Color</u>	<u>Mottles Color or Texture</u>
A	0"-3"	10yr 3/1	SL
B	3"-24"	10 yr 3/4	FSL

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

- Site inundated: _____
- Depth to free water in observation hole: _____
- Depth to soil saturation in observation hole: _____
- Water marks: _____
- Drift Lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other):

- Other: _____

Vegetation and Hydrology Conclusion for Upgradient of GC WF6		
	<u>yes</u>	<u>no</u>
Number of wetland indicator plants		
>= number of non-wetland plants		X
Wetland hydrology present:		
hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

Submit this form with the Request for Determination of Applicability or Notice of Intent

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

 Applicant: **Damon Accardi**

 Prepared by: **Goddard Consulting LLC**

 Project location: **89 School Street**

DEP File #: _____

Check all that apply:

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only |
| <input checked="" type="checkbox"/> | Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II |
| <input type="checkbox"/> | Method other than dominance test used (attach additional information) |

Section I. Vegetation		Observation Plot Number: GC WF6	Transect Number: Downgradient	Date of Delineation: 17-Jun-21	
Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
<u>Tree Layer</u>					
White Ash	<i>Fraxinus americana</i>	3%	6.8%	no	FACU
American Elm	<i>Ulmus americana</i>	3%	6.8%	no	FACW*
Red Maple	<i>Acer rubrum</i>	38%	86.4%	yes	FAC*
<u>Sapling Layer</u>					
American Elm	<i>Ulmus americana</i>	21%	87.2%	yes	FACW*
Red Maple	<i>Acer rubrum</i>	3%	12.8%	no	FAC*
<u>Shrub Layer</u>					
Northern Arrowwood	<i>Viburnum recognitum</i>	3%	33.3%	yes	FAC*
Silky Dogwood	<i>Cornus amomum</i>	3%	33.3%	yes	FACW*
Winterberry	<i>Ilex verticillata</i>	3.0%	33.3%	yes	FACW*
<u>Climbing Woody Vine</u>					
<u>Ground Cover</u>					
Jewelweed	<i>Impatiens capensis</i>	3%	6.8%	no	FACW*
Blunt Broom Sedge	<i>Carex tribuloides</i>	3%	6.8%	no	FACW*
Greater Bladder Sedge	<i>Carex intumescens</i>	38%	86.4%	yes	FACW*
Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth					
Morphological Adaptations: 0		Description: _____			
* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.					
Vegetation conclusion:					
Number of dominant wetland indicator plants: 6			Number of dominant non-wetland indicator plants: 0		
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes					

If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? yes no

title/date: Soil Survey of Worcester County, Northeastern Part - 1985

map number: 51A

soil type mapped: Swansea Muck

hydric soil inclusions: _____

Are field observations consistent with soil survey? yes no

Remarks: _____

2. Soil Description

<u>Horizon</u>	<u>Depth (inches)</u>	<u>Matrix Color</u>	<u>Mottles Color or Texture</u>
O	0"-18"	10yr 2/1	Organic
C	18"-24"	10yr 6/1	Silt Loam

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? yes no

Other Indicators of Hydrology: (check all that apply and describe)

Site inundated: _____

Depth to free water in observation hole: 20"

Depth to soil saturation in observation hole: _____

Water marks: _____

Drift Lines: _____

Sediment deposits: _____

Drainage patterns in BVW: _____

Oxidized rhizospheres: _____

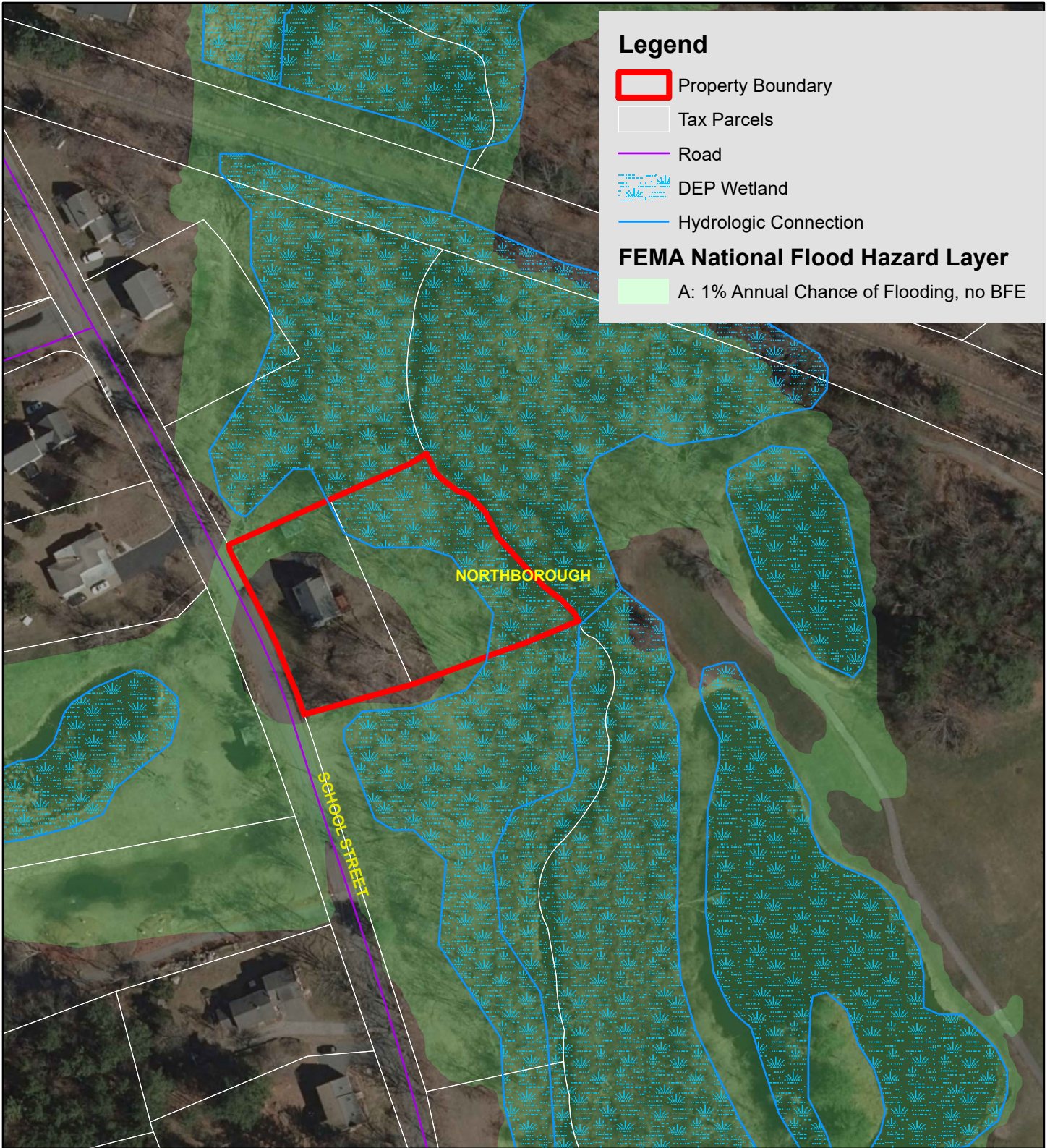
Water-stained leaves: _____

Recorded data (stream, lake, or tidal gauge; aerial photo; other):

Other: _____

Vegetation and Hydrology Conclusion for Downgradient of GC WF6		
	<u>yes</u>	<u>no</u>
Number of wetland indicator plants		
>= number of non-wetland plants	X	
Wetland hydrology present:		
hydric soils present	X	
other indicators of hydrology present	X	
Sample location is in a BVW	X	

Submit this form with the Request for Determination of Applicability or Notice of Intent



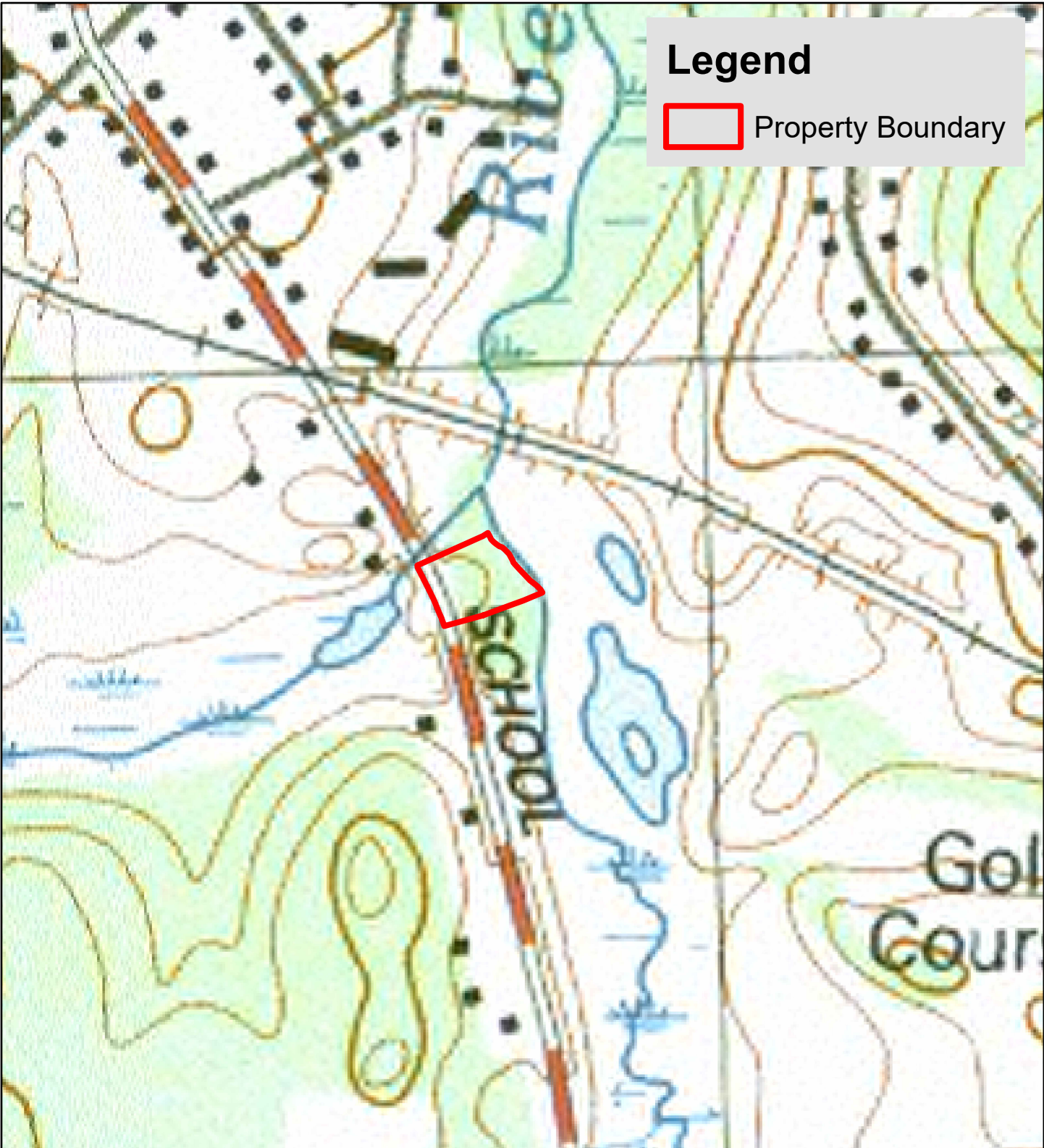
Orthophoto View of Locus Site

89 School Street - Northborough, MA
(Map: 215, Parcel: 73, ID: 36)

N
Date: 6/16/2021
0 37.5 75 150 Feet
1 inch = 125 feet

GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"





Legend

Property Boundary

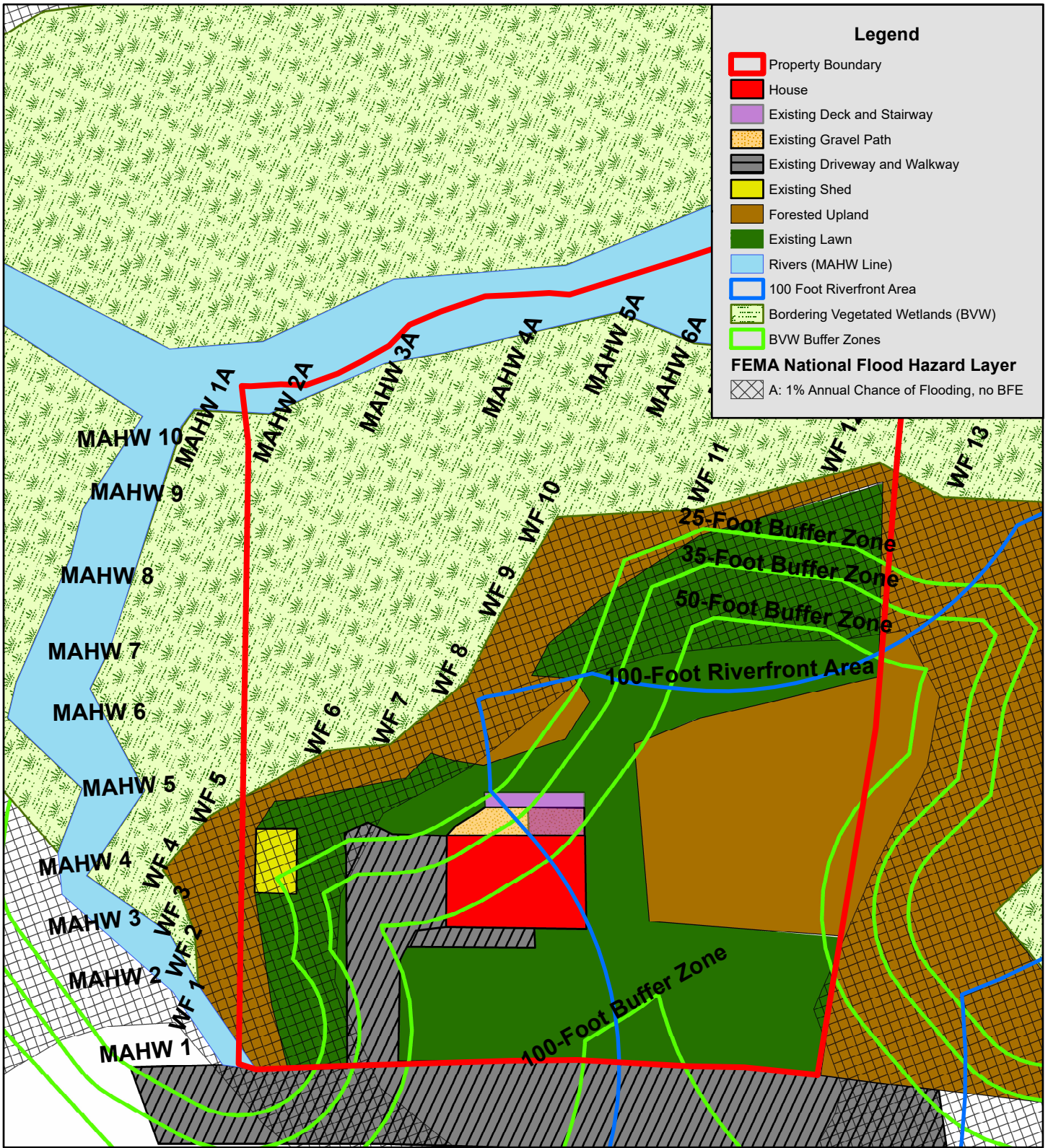
USGS of Locus Site
 89 School Street - Northborough, MA
 (Map: 215, Parcel: 73, ID: 36)

N

 Date: 6/16/2021
 0 105210 420 Feet
 1 inch = 350 feet

GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"

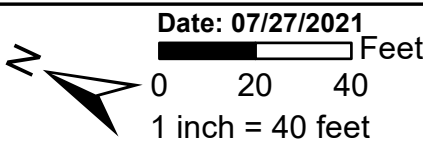




Existing Conditions

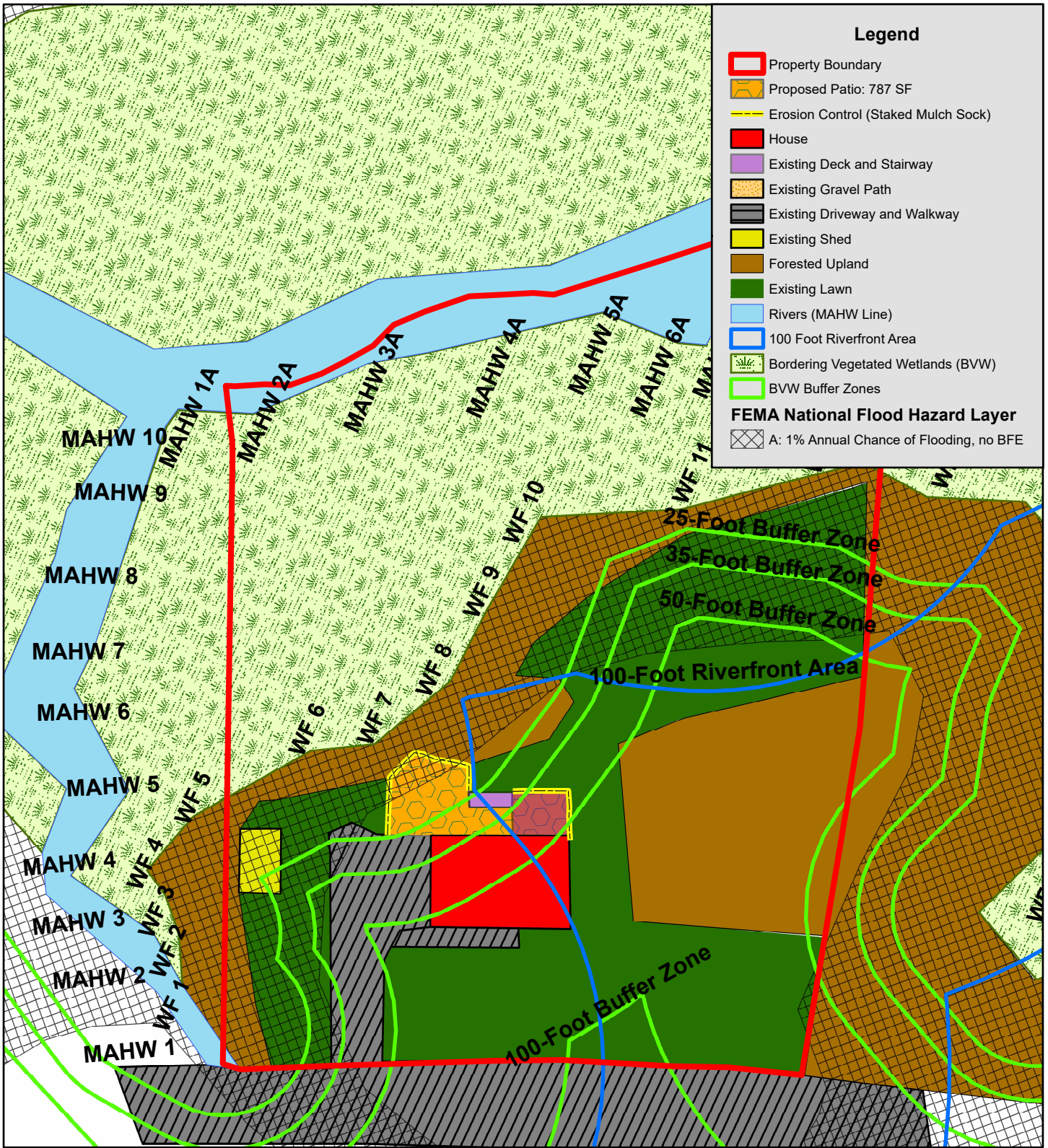
89 School Street - Northborough, MA

(Map: 73, Parcel: 36)



GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"





Legend

- Property Boundary
- Proposed Patio: 787 SF
- Erosion Control (Staked Mulch Sock)
- House
- Existing Deck and Stairway
- Existing Gravel Path
- Existing Driveway and Walkway
- Existing Shed
- Forested Upland
- Existing Lawn
- Rivers (MAHW Line)
- 100 Foot Riverfront Area
- Bordering Vegetated Wetlands (BVW)
- BVW Buffer Zones

FEMA National Flood Hazard Layer

- A: 1% Annual Chance of Flooding, no BFE

Proposed Conditions
 89 School Street - Northborough, MA
 (Map: 73, Parcel: 36)

Date: 07/29/2021

Feet
 0 20 40
 1 inch = 40 feet

GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"

