

MassDOT Municipal Bridge Improvements Program: Beech Hill Road over Borden Brook (G-10-028) and Borden Brook Road over Unnamed Brook (G-10-039) Granville, Massachusetts

PREPARED FOR

Town of Granville
707 Main Road
Granville, MA 01034

PREPARED BY



101 Walnut Street
PO Box 9151
Watertown, MA 02471
617.924.1770

DECEMBER 2019



December 10, 2019

Ref: 14395.00

Granville Conservation Commission
707 Main Road
PO Box 247
Granville, MA 01034

ATTN: Chairman Leon Ripley

Re: **Notice of Intent:**
MassDOT Municipal Bridge Improvements Program: Beech Hill Road over Borden Brook (G-10-028) and Borden Brook Road over Alder Brook (G-10-039)
Granville, Massachusetts

Dear Chairman Ripley and Commission Members:

On behalf of the Town of Granville Highway Department, (the Applicant) VHB, Inc. is submitting the attached Notice of Intent (NOI) for proposed improvements to two bridges (the Project) on Beech Hill Road over Borden Brook (G-10-028) and Borden Brook Road over Unnamed Brook (G-10-039) in Granville, Massachusetts. This NOI is being filed under the Massachusetts Wetlands Protection Act, MGL c.131, §40 (WPA) and its implementing regulations, 310 CMR 10.00. The proposed Project work consists of concrete repairs to the bridge culvert structures and deteriorated wingwalls, installing a bridge railing system to meet current crash test standards, and grading and resurfacing along the approaching roadways. The full scope of work is described in the attached Notice of Intent Narrative.

The Project will require work within areas subject to jurisdiction under the WPA. Work will be required in the 200-foot Riverfront Area associated with Borden Brook and Unnamed Brook for grading and repaving work as well as for repairs to the bridge superstructure. The Riverfront Area in the Project Limits is previously degraded from its natural state and consists entirely of the existing roadway and associated shoulders. The nature of the work and location of both bridges over perennial waterways makes these temporary resource impacts unavoidable. The Project has been designed to minimize impacts to wetland resources. Areas of temporary disturbance will be restored to their original condition upon completion of the Project.

In accordance with the WPA, a suite of mitigation measures is proposed for impacts to wetland resource areas. During construction, erosion controls will be installed to protect adjacent resources. To facilitate construction and help expedite the work, traffic may be detoured during the duration of the Project. On behalf of the Applicant, we respectfully request that the

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

Engineers | Scientists | Planners | Designers



Commission find the proposed Project adequately protective of the interests identified in the WPA and issue an Order of Conditions.

In compliance with the WPA and the Bylaw, notification to abutters regarding this NOI has been made by certified return receipt mail. A copy of the abutter notification form and a certified list of abutters are enclosed as part of the NOI.

As a municipally sponsored project, the Town is not subject to the WPA fees, so no application fees are attached. Abutters have been notified of the upcoming public hearing by return receipt mail.

Please advertise this matter for public hearing at the Commission's next scheduled meeting. Should you have any questions concerning this submittal, or require additional information please contact me at 617.607.1019.

Sincerely,

A handwritten signature in black ink that reads "Daniel Cannata".

Dan Cannata
Environmental Scientist

Attachment: Notice of Intent- MassDOT Municipal Bridge Improvements Program: Beech Hill Road over Borden Brook (G-10-028) and Borden Brook Road over Alder Brook (G-10-039)

CC: DEP Western Regional Office (filed electronically via eNOI)
Doug Roberts, Town of Granville



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Notice of Intent Forms

- › WPA Form 3
- › NOI Wetland Fee Transmittal Form

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

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1089911
City/Town:GRANVILLE

A.General Information

1. Project Location:

| | | | |
|-------------------|-------------------|----------------|-----------|
| a. Street Address | BORDEN BROOK ROAD | c. Zip Code | 01034 |
| b. City/Town | GRANVILLE | e. Longitude | 72.95195W |
| d. Latitude | 42.12442N | g.Parcel/Lot # | -- |
| f. Map/Plat # | -- | | |

2. Applicant:

Individual Organization

| | | | | | |
|--------------------|-------------------|-------------|---------|-------------|-------|
| a. First Name | DOUGLAS | b.Last Name | ROBERTS | | |
| c. Organization | TOWN OF GRANVILLE | | | | |
| d. Mailing Address | 707 MAIN ROAD | | | | |
| e. City/Town | GRANVILLE | f. State | MA | g. Zip Code | 01034 |
| h. Phone Number | 413-455-4446 | i. Fax | | j. Email | |

3.Property Owner:

more than one owner

| | | | | | |
|--------------------|-------------------|--------------|----|-------------|-------|
| a. First Name | | b. Last Name | | | |
| c. Organization | TOWN OF GRANVILLE | | | | |
| d. Mailing Address | 707 MAIN ROAD | | | | |
| e. City/Town | GRANVILLE | f.State | MA | g. Zip Code | 01034 |
| h. Phone Number | | i. Fax | | j.Email | |

4.Representative:

| | | | | | |
|--------------------|----------|--------------|---------|-------------|--|
| a. First Name | DANIEL | b. Last Name | CANNATA | | |
| c. Organization | VHB INC. | | | | |
| d. Mailing Address | | | | | |
| e. City/Town | | f. State | | g. Zip Code | |
| h.Phone Number | | i.Fax | | j.Email | |

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

| | | | | | |
|------------------|------|------------------|------|----------------------|------|
| a.Total Fee Paid | 0.00 | b.State Fee Paid | 0.00 | c.City/Town Fee Paid | 0.00 |
|------------------|------|------------------|------|----------------------|------|

6.General Project Description:

THE TOWN OF GRANVILLE IS PROPOSING REPAIRS TO TWO EXISTING BRIDGES ON BORDEN BROOK ROAD. BEECH HILL ROAD OVER BORDEN BROOK (G 10-028) AND BORDEN BROOK ROAD OVER UNNAMED BROOK (G 10 039)

7a.Project Type:

- | | |
|---------------------------------------------------------------|----------------------------------------------------------------------|
| 1. <input type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial |
| 5. <input type="checkbox"/> Dock/Pier | 6. <input type="checkbox"/> Utilities |
| 7. <input type="checkbox"/> Coastal Engineering Structure | 8. <input type="checkbox"/> Agriculture (eg., cranberries, forestry) |
| 9. <input checked="" type="checkbox"/> Transportation | 10. <input type="checkbox"/> Other |

Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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12,246 12,246 0
 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)

| Resource Area | Size of Proposed Alteration | Proposed Replacement (if any) |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 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 Beaches | 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 |
| 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, crea. |
| 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.Restoration/Enhancement

Restoration/Replacement
 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 entered the additional amount here.

□ **Massachusetts Department of Environmental Protection**

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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Provided by MassDEP:

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a. square feet of BVW

b. square feet of Salt Marsh

5. Projects Involves Stream Crossings

Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

a. number of new stream crossings

b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. 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 of Endangered Species program (NHESP)?

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

b. Date of map: FROM MAP VIEWER

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)...

c. Submit Supplemental Information for Endangered Species Review * (Check boxes as they apply)

1. 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

3. Project plans for entire project site, including wetland resource areas and areas outside of wetland 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

c. MESA filing fee (fee information available at: <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html>)

Make check payable to "Natural Heritage & Endangered Species Fund" 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

d. 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, <http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

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2. Separate MESA review ongoing.

a. NHESP Tracking Number

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.

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

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

a. Not applicable - project is in inland resource area only

b. Yes No

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

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

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 S. Rodney French Blvd
New Bedford, MA 02744

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

If yes, it 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.

3. 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 DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. 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

5. 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

6. 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

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

Provided by MassDEP:
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b. No, Explain why the project is exempt:

1. Single Family Home
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

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 by regular mail delivery.

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.
3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s).)
4. 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.

a. Plan Title: b. Plan Prepared By: c. Plan Signed/Stamped By: d. Revised Final Date: e. Scale:

GRANVILLE BEECH
HILL ROAD AND
BORDEN BROOK MP
ROAD NOTICE OF
INTENT

VK

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.

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

Provided by MassDEP:
 MassDEP File #:
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 City/Town:GRANVILLE

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:

Municipal Project- Fee Exempt

2. Municipal Check Number _____
 4. State Check Number _____
 6. Payer name on check: First Name _____

N/A
 3. Check date _____
 5. Check date _____
 7. Payer name on check: Last Name _____

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 _____
 3. Signature of Property Owner (if different) _____
 5. Signature of Representative (if any) _____

2. Date 12/18/2019
 4. Date 12/18/2019
 6. Date 12/18/19

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 Section C, Items 1-3, 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
WPA Form 3 - Notice of Wetland Fee Transmittal
Form
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 MassDEP File #:
 eDEP Transaction #:1089911
 City/Town:GRANVILLE

A. Applicant Information

1. Applicant:

| | | | | | |
|--------------------|-------------------|--------------|----------|-------------|-------|
| a. First Name | DOUGLAS | b. Last Name | ROBERTS | | |
| c. Organization | TOWN OF GRANVILLE | | | | |
| d. Mailing Address | 707 MAIN ROAD | | | | |
| e. City/Town | GRANVILLE | f. State | MA | g. Zip Code | 01034 |
| h. Phone Number | 4134554446 | i. Fax | j. Email | | |

2. Property Owner:(if different)

| | | | | | | |
|--------------------|-------------------|----------|--------|--------------|-------|--|
| a. First Name | | | | b. Last Name | | |
| c. Organization | TOWN OF GRANVILLE | | | | | |
| d. Mailing Address | 707 MAIN ROAD | | | | | |
| e. City/Town | GRANVILLE | f. State | MA | g. Zip Code | 01034 | |
| h. Phone Number | | | i. Fax | j. Email | | |

3. Project Location:

| | | | |
|-------------------|-------------------|--------------|-----------|
| a. Street Address | BORDEN BROOK ROAD | b. City/Town | GRANVILLE |
|-------------------|-------------------|--------------|-----------|

Are you exempted from Fee? (YOU HAVE SELECTED 'YES')

Note: Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than \$100

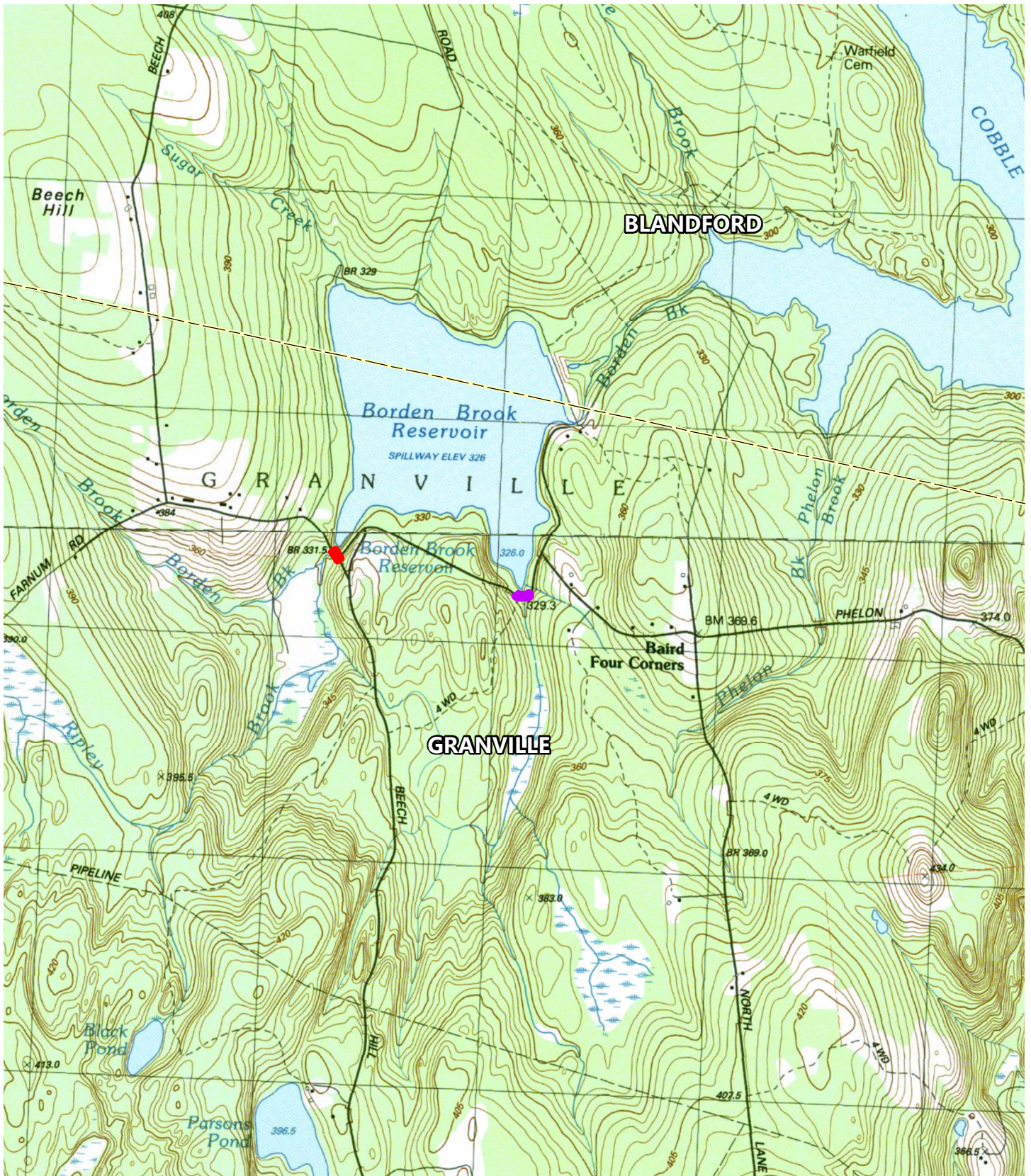
B. Fees

| Activity Type | Activity Number | Activity Fee | RF Multiplier | Sub Total |
|---------------|--------------------------------|--------------|---------------------------|-----------|
| | City/Town share of filling fee | \$0.00 | State share of filing fee | \$0.00 |
| | | | Total Project Fee | \$0.00 |



Notice of Intent Figures




- › Figure 1 – USGS Locus
- › Figure 2a – Aerial Map (Bridge G-10-028)
- › Figure 2b – Aerial Map (Bridge G-10-039)
- › Figure 3 – NHESP Map
- › Figure 4 – FEMA FIRM



\\vhb\gis\proj\Wat-TE\14395.00 Granville-Muni Bridge\Project\NOI\Figure 1-Locus.mxd



Municipal Bridge Improvement Program | Granville, MA

-  Project_Limits-Bridge-G-10-028
-  Project_Limits-Bridge-G-10-039
-  Town Boundaries


**Figure 1: Project Locus
Notice of Intent
March 2019**



\\vhb\gis\proj\Wat-TE\14395.00 Granville-Muni Bridge\Project\NOI\Figure2a-Aerial.mxd



Municipal Bridge Improvement Program | Granville, MA

 Project_Limits-Bridge-G-10-028


**Figure 2a: Aerial Map (Bridge G-10-028)
Notice of Intent
March 2019**



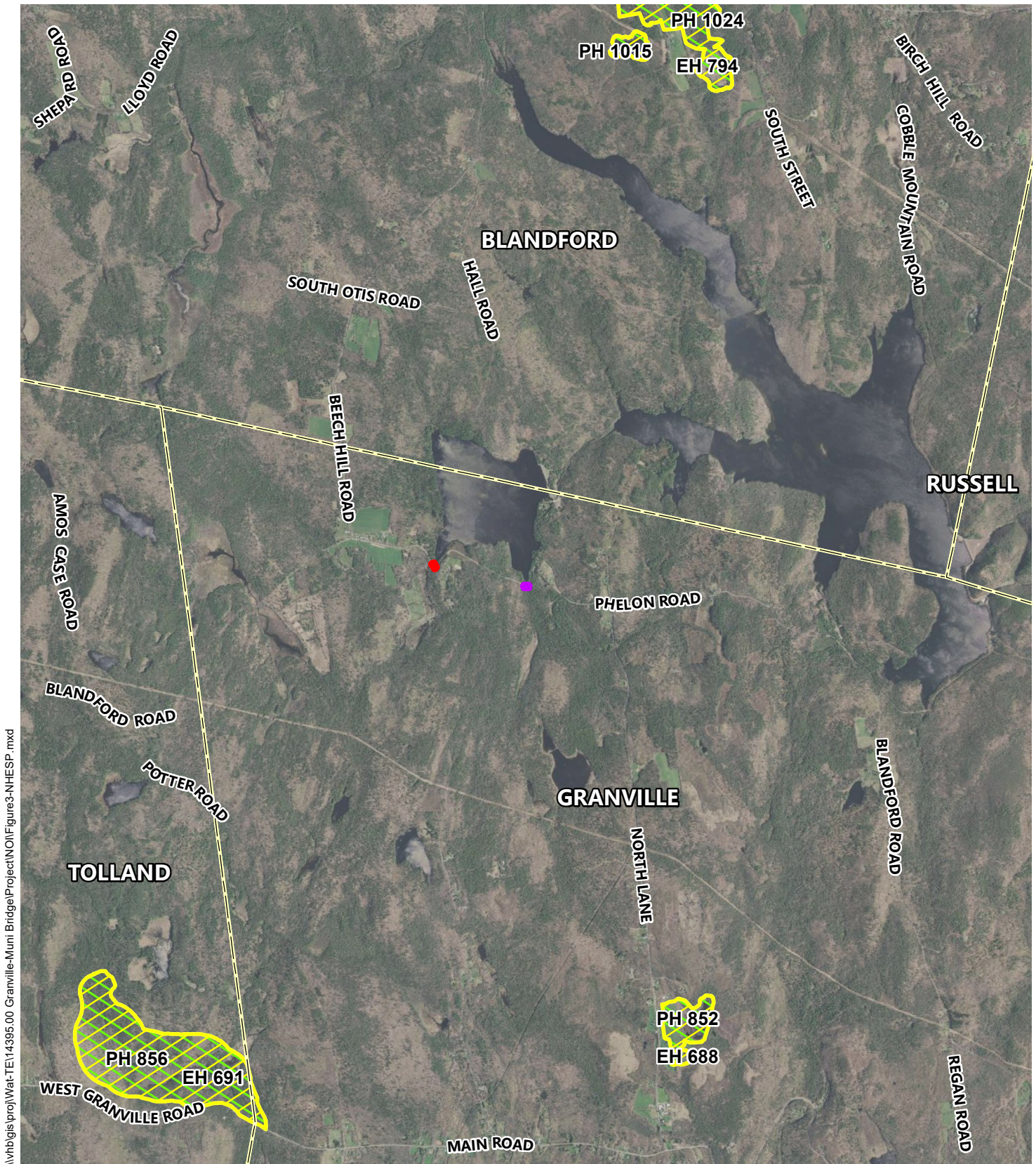
\\vhb\gis\proj\Wat-TE\14395.00 Granville-Muni Bridge\Project\NOI\Figure2b-Aerial.mxd



Municipal Bridge Improvement Program | Granville, MA






 Project_Limits-Bridge-G-10-039

**Figure 2b: Aerial Map (Bridge G-10-039)
Notice of Intent
March 2019**



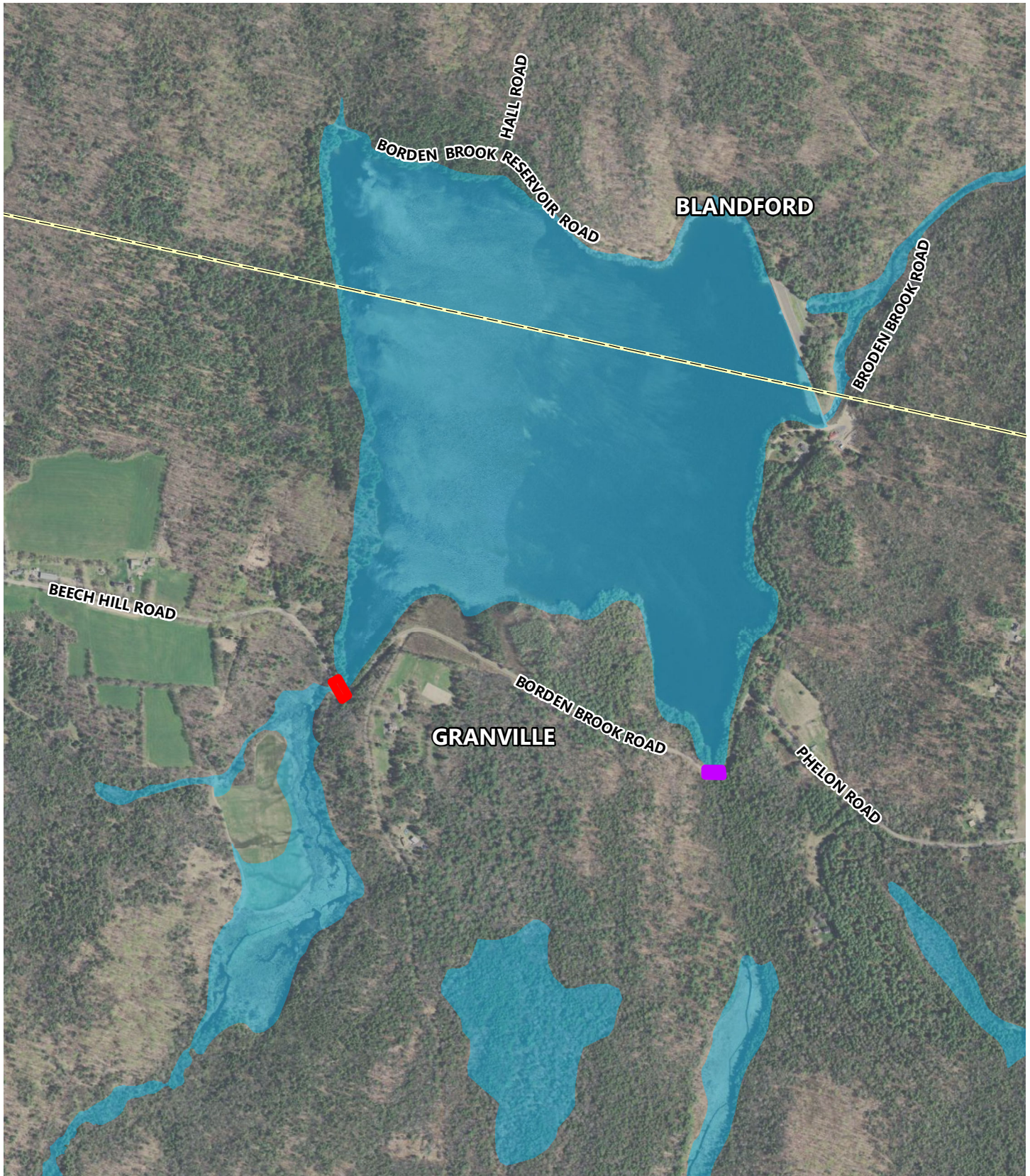
\\vhb\gis\proj\Wat-TE\14395.00 Granville-Muni Bridge\Project\NOI\Figure3.NHESP.mxd

Municipal Bridge Improvement Program | Granville, MA

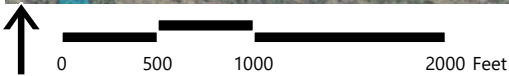
-  Project_Limits-Bridge-G-10-028
-  Project_Limits-Bridge-G-10-039
-  Town Boundaries
-  NHESP Priority Habitats of Rare Species
-  NHESP Estimated Habitats of Rare Wildlife

**Figure 3: NHESP Map
Notice of Intent
March 2019**






Source: MassGIS



\\vhb\gis\proj\Wat-TE\14395.00 Granville-Muni Bridge\Project\NOI\Figure4-FEMA.mxd



Municipal Bridge Improvement Program | Granville, MA

-  Project_Limits-Bridge-G-10-028 **FEMA National Flood Hazard Layer**
-  Project_Limits-Bridge-G-10-039 **Flood Zone Designations**
-  Town Boundaries
-  100-yr Floodplain (FEMA)
-  500-yr Floodplain (FEMA)

**Figure 4: FEMA FIRM
Notice of Intent
March 2019**

Source: MassGIS



Attachment A

Notice of Intent Narrative

- › Introduction
- › Site Description
- › Work Description
- › Mitigation Measures
- › Regulatory Compliance
- › Summary



Attachment A - Notice of Intent Narrative

This Notice of Intent (NOI) is filed pursuant to the Massachusetts Wetlands Protection Act (MGL Chapter 131, Section 40) and its implementing regulations (310 CMR 10.00).

Introduction

The Town of Granville (the Applicant) is proposing maintenance on two existing bridge structures: Beech Hill Road over Borden Brook (G-10-028) and Borden Brook Road over Unnamed Brook (G-10-039) in Granville, Massachusetts (the Project) (See Figure 1- Project Locus and Figures 2a and 2b – Aerial Maps). The Project is being undertaken as a part of the Massachusetts Department of Transportation (MassDOT) Municipal Bridge Improvement Program. Proposed work consists of concrete repairs to the bridge culvert structures and deteriorated wingwalls, installing a bridge railing system to meet current crash test standards, and grading and resurfacing along the approaching roadways.

Portions of the Project are located within the 200-foot Riverfront Area (RFA) associated with Unnamed Brook and Borden Brook as well as within the 100-foot buffer zone to Bank. No temporary or permanent impacts to any Bank or Land Under Waterbodies and Waterways (LUWW) or Bordering Land Subject to Flooding (BLSF) are proposed. Work in RFA will take place in degraded areas associated with the roadway and adjacent shoulders.

Wetland resource areas will be protected from impacts during construction through the implementation of an erosion and sedimentation control program. This program includes provisions to minimize areas of disturbance through phasing and sequencing, limit erosion through stabilization, and prevent sediment from leaving the site by installing structural controls. Runoff generated from the Project will be collected and treated in accordance with design guidelines¹ developed by Department of Environmental Protection (DEP) and standards contained in the WPA Regulations.

Site Description

Beech Hill Road and Borden Brook Road are two-lane rural minor collector roadways that convey eastbound and westbound traffic within the Project limits. The areas around each bridge site is primarily undeveloped and wooded with the exception of the approaching roadways at each location.

¹ DEP, 2008. *Massachusetts Stormwater Handbook*.

Bridge G-10-028 is showing signs of deterioration including evidence of hairline mapcracking, scaling, and efflorescence, and the approaching roadway to the south has extensive cracking and potholes. Minor collision damage is present on all sections of the bridge.

Bridge G-10-039 is experiencing scaling throughout its headwalls and wingwalls with cracks up to four inches deep. The original concrete railing has completely deteriorated and only one post remains. The existing steel W-beam guardrail is unsupported. The approaching roadway from the east and west is heavily cracked with many potholes. Pavement on the bridge structure is extensively mapcracked throughout.

According to the latest data from the Massachusetts Natural Heritage and Endangered Species Program (NHESP)², the Project is not located within any Priority or Estimated Habitat of Rare Species or Wildlife or in the vicinity of any certified/non-certified vernal pools (Figure 3). According to the most recent FEMA Flood Insurance Rate Map (FIRM) for the Town of Granville, portions of the mapped 100-year floodplain are adjacent to the Project limits but will not encroach into the limits of work³ (Figure 4). The Project limits are located entirely within an Outstanding Resource Water⁴ that contributes to public water supply. No portion of the Project will be located within an Area of Critical Environmental Concern (ACEC).

According to the regional Natural Resources Conservation Service (NRCS) soil survey, soils mapped near Bridge G-10-039 consist of Ashfield-Shelburne association, Ashfield-Shelburne association, (rolling, extremely stony) and Westminster-Millsite association. Soils around Bridge G-10-028 consisted of Tunbridge-Lyman association-extremely stony and Pillsbury-Peacham-Wonsqueak association extremely stony.

Wetland resource areas on/near the site are described below.

Wetland Resource Areas

Wetlands within the Project limits were delineated on October 31, 2018 by environmental scientists with Vanasse Hangen Brustlin, Inc. in accordance with methods developed by the DEP⁵ and the U.S. Army Corps of Engineers⁶. The following sections of this narrative describe the wetlands and identify resource areas that are regulated under the WPA Regulations (310 CMR 10.00).

The state-regulated wetland resource areas identified in the vicinity of the Project limits include Bank, Bordering Land Subject to Flooding (BLSF), Land Under Waterbodies and Waterways (LUWW), and Riverfront Area (Table 1). These resource areas are defined under the WPA Regulations (310 CMR 10.00) as follows:

2 NHESP, 2017. *Massachusetts Natural Heritage Atlas, 14th Edition*.

3 Federal Emergency Management Agency, 2013. *Flood Insurance Rate Map, Town of Granville, Massachusetts, Hampden County*. Community Panel Number 25013C0140E.

4 DEP, 1993. *Designated Outstanding Resource Waters of Massachusetts*.

5 DEP, 1995. *Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act*.

6 USACE, 2012. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0*.

- **Bank:** As defined at 310 CMR 10.54 (2), a Bank is the portion of the land surface, which normally abuts and confines a water body. The upper boundary of Bank is the first observable break in slope.
- **Land Under Waterbodies and Waterways (LUWW):** As defined at 310 CMR 10.56 (2), LUWW is “the bottom of, or land under, the surface of the ocean or any estuary, creek, river, stream, pond, or lake.”
- **Bordering Land Subject to Flooding (BLSF):** As defined at 310 CMR 10.57, Bordering Land Subject to Flooding (BLSF) is an area which floods from a rise in a bordering waterway or water body. The boundary of Bordering Land Subject to Flooding is the estimated maximum lateral extent of flood water which will theoretically result from the statistical 100-year frequency storm.
- **Riverfront Area (RFA):** As defined at 310 CMR 10.58 (a)(3), RFA is “the area of land between a river’s mean annual high-water line measured horizontally outward from the river and a parallel line located 200 feet away.”

Wetlands on/adjacent to the property are summarized in the table below and are described in more detail in the following sections of this attachment.

Table 1 Wetland Resource Areas

| Wetland | Flag Numbers | Description | Associated Resource Areas |
|---------------|-------------------------------------------|-----------------------------------------|---------------------------|
| Borden Brook | BF1-100 to BF1-111; BF1-200 to BF1-210 | Perennial Waterway | Bank, LUWW, RFA |
| Unnamed Brook | BF2-100 to BF2-108; BF2-200 to BF2 210 | Perennial Waterway | Bank, LUWW, RFA |
| Wetland 2 | WF2-100 to WF2-109 | Non-WPA jurisdictional isolated wetland | None |

Source: VHB, 2018.

Borden Brook

Borden Brook flows from southeast to northwest under Beech Hill Road at Bridge G-10-028 before discharging into Borden Brook Reservoir. The banks of the Brook are generally gradually sloped but are steeper near the bridge structure at the roadway. Beaver activity in the area is evident and a dam is located approximately 50 feet south of the bridge. The impounded water is flowing outside the defined stream channel into surrounding areas. South of the roadway, the bank is predominately vegetated with eastern hemlock (*Tsuga canadensis*), red maple (*Acer rubrum*), royal fern (*Osmunda regalis*), eastern white pine (*Pinus strobus*) and Japanese barberry (*Berberis thunbergii*). North of the roadway, the banks are vegetated with red maple, American beech (*Fagus grandifolia*), eastern white pine, eastern hemlock, multiflora rose (*Rosa multiflora*), witch hazel (*Hamamelis virginiana*), spicebush (*Lindera benzoin*), silky dogwood (*Cornus amomum*), and raspberry (*Rubus sp.*). The boundaries of Borden Brook were demarcated

with blue (Bank) flagging (labeled BF1-100 to BF1-105; BF1-106 to BF1-111; BF1-200 to BF1-205 and BF1-206 to BF1-210).

Borden Brook supports Bank and LUWW under the WPA along with associated 100-foot Buffer Zone to Bank and a 200-foot Riverfront Area.

Unnamed Brook

Unnamed Brook flows from south to north under Borden Brook Road at Bridge G-10-039 and discharges into Borden Brook Reservoir. The stream channel is well defined and rocky with medium to large boulders. The banks south of the roadway are vegetated with eastern hemlock, eastern white pine, American beech, and northern red oak (*Quercus rubra*). North of the roadway, the banks are primarily vegetated with eastern white pine, bracken fern (*Pteridium aquilinum*), eastern hemlock, cinnamon fern (*Osmundastrum cinnamomeum*), sensitive fern (*Onoclea sensibilis*), raspberry (*Rubus sp.*), and oak (*Quercus sp.*). The boundaries of Unnamed Brook were demarcated with blue (Bank) flagging (BF2-100 to BF2-103; BF2-104 to BF2-108; BF2-200 to BF2-204; BF2-205 to BF2-210).

Unnamed Brook supports Bank and LUWW under the WPA along with associated 100-foot Buffer Zone to Bank and a 200-foot Riverfront Area.

Wetland 2

Wetland 2 is a slender isolated vegetated swale to the east of Unnamed Brook running along the south side of Borden Brook Road at the edge of the paved roadway. At the time of delineation, Wetland 2 contained sections of ponded standing water along with hydric soil and wetland vegetation, with notable ponding between flags WF2-100 and WF2-104. Typical dominant wetland species include soft rush (*Juncus effusus*), deer tongue (*Dichanthelium clandestinum*), bristly dewberry (*Rubus hispidus*), wrinkle-leaved goldenrod (*Solidago rugosa*) and peat moss (*Sphagnum sp.*). Dominant species in adjacent upland areas include eastern hemlock, eastern white pine, bracken fern, and goldthread (*Coptis sp.*). Wetland 2 is not a jurisdictional wetland under the WPA. It is an isolated drainage swale and therefore does not qualify as Bordering Vegetated Wetland (BVW). Additionally, its size and water volume capacity do not meet the standards to be considered Isolated Land Subject to Flooding (ILSF).

Riverfront Area

A 200-foot Riverfront area extends from the boundary of Borden Brook and Unnamed Brook within the Project Site. The Riverfront Area within the Project Limits consists of the roadway itself as well as adjacent shoulders and the abutments to the bridges. The Riverfront Area beyond the roadway layout contains primarily undeveloped wooded areas.

Bordering Land Subject to Flooding

The 100-year Floodplain associated with Borden Brook and Unnamed Brook in the vicinity of the Project Limits are regulated as BLSF. The Project will be contained within the existing roadway layout and the existing elevations and grades will be maintained. Therefore, no impacts to BLSF are proposed.

Buffer Zone

The WPA regulations (310 CMR 10.02(2)(b)) establish a 100-foot buffer zone from the limits of Bank of Borden Brook and Unnamed Brook described above. Within the Project limits, the buffer zone consists primarily of the existing paved roadway and the adjacent shoulders. Beyond the limits of the roadway the buffer zone is primarily forested with eastern hemlock, eastern white pine, and red oak dominated forest.

Work Description

The proposed work associated with the Project consists of measures designed to improve the condition of bridges G-10-028 and G-10-039 and the approaching sections of roadway. The bridges will be rehabilitated by repairing the concrete portions of the bridge culvert and wingwall structures and resurfacing the bridge surfaces by mill and overlay. Work along the approaching portions of Beech Hill Road and Borden Brook Road consists of grading, resurfacing by a combination of mill and overlay and full depth pavement reconstruction, and installing new TL-2 guardrails. Work in wetland resource areas and the 100-foot buffer zone is described below. This work fully complies with all applicable performance standards as demonstrated in the Regulatory Compliance section of this Narrative. Additionally, the Project can be permitted as a limited Project under 10.53(3)(i) because it consists of *"the maintenance, repair and improvement ... of structures, including buildings, piers, towers, headwalls, bridges and culverts which existed on November 1, 1987."*

Table 2 Work in Wetland Resource Areas

| Resource Area | Area of Work within Resource | Permanent Alteration | Temporary Alteration |
|--------------------------------------|------------------------------|----------------------|----------------------|
| Riverfront Area at Borden Brook | 5,450 | 0 | 5,450 |
| Riverfront Area at Unnamed Brook | 6,796 | 0 | 6,796 |
| Total Project Riverfront Area | 12,246 | 0 | 12,246 |

Source: VHB, 2019.

Work in Riverfront Area

The entirety of the Project limits at both bridge sites are located within the degraded 200-foot Riverfront Area associated with Borden Brook and Unnamed Brook. All work is

required to complete structural modifications to the bridges and approaching sections of the roadway and associated shoulders. Proposed work within Riverfront Area includes structural improvements to the bridge structure, installing guardrail, grading and roadway resurfacing and reconstruction.

Work in Buffer Zone

The entirety of the Project limits at both bridge sites are located within the 100-foot buffer zone to Bank. Work within the 100-foot buffer zone will be required to complete structural modifications to the two bridges and related work on the approaching roadways. Proposed work within the buffer zone includes resurfacing, grading and installing loam and seed.

Mitigation Measures

A suite of mitigation measures is proposed to prevent short- and long-term impacts to wetland resource areas. Mitigation measures proposed for the Project are described below.

Erosion and Sediment Control

An erosion and sedimentation control program will be implemented to minimize temporary impacts to wetland resource areas during the construction phase of the Project. The program incorporates Best Management Practices (BMPs) specified in guidelines developed by the DEP⁷ and the U.S. Environmental Protection Agency (EPA)⁸.

Proper implementation of the erosion and sedimentation control program will:

- › minimize exposed soil areas through sequencing and temporary stabilization;
- › place structures to manage stormwater runoff and erosion; and
- › establish a permanent vegetative cover or other forms of stabilization as soon as practicable.

The following sections describe the controls that will be used and practices that will be followed during construction. These practices comply with criteria contained in the NPDES General Permit for Discharges from Large and Small Construction Activities issued by the EPA.

Non-Structural Practices

Non-structural practices to be used during construction include temporary stabilization, temporary seeding, permanent seeding, pavement sweeping and dust control. These practices will be initiated as soon as practicable in appropriate areas at the site.

7 DEP, 1997. *Massachusetts Erosion and Sediment Control Guidelines for Urban and Suburban Areas: A Guide for Planners, Designers, and Municipal Officials*.

8 EPA, 2007. *Interim Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites*. Office of Water. Report EPA 833-R-060-04.

Temporary Stabilization

Any areas of exposed soil or stockpiles that will remain inactive for more than 14 days will be covered with a layer of straw mulch applied at a rate of 90 pounds per 1,000 square feet. The mulch will be anchored with a tacking coat (non-tar) applied by a hydroseeded. Steeper slopes (greater than 10 percent) will be covered with a bonded fiber matrix (EcoAegis® or similar) according to the recommendations provided by the manufacturer.

Permanent Seeding

Upon completion of final grading, any areas not covered by pavement, other forms of stabilization, or other methods of landscaping will be seeded with a native seed mix that includes species found in eastern Massachusetts. The mix will be applied at a rate specified by the manufacturer and will be covered with mulch or bonded fiber matrix.

Pavement Sweeping

Portions of Beech Hill Road and Borden Brook Road in the vicinity of the limits of work shall be swept as needed during construction. The sweeping program will remove sediment and other contaminants directly from paved surfaces before their release into stormwater runoff. Pavement sweeping has been demonstrated to be an effective initial treatment for reducing pollutant loading into stormwater⁹.

Dust Control

The erosion and sediment control program includes provisions to minimize the generation of dust during dry and windy conditions. When necessary, larger areas of exposed soil will be wetted to prevent wind borne transport of fine grained sediment. Enough water shall be applied to wet the upper 0.5 inches of soil. The water will be applied as a fine spray to prevent erosion. A water truck will be kept on the Site (or at a nearby location) to facilitate this practice.

Structural Practices

Structural erosion and sedimentation controls to be used on the site include barriers, described below.

Erosion Control Barriers

Prior to any ground disturbance, an approved erosion control barrier will be installed at the downgradient limit of work. As construction progresses, additional barriers will be installed around the base of stockpiles and other erosion prone areas. The barriers will be entrenched into the substrate to prevent underflow.

⁹ U.S. Environmental Protection Agency, 1979. *Demonstration of Nonpoint Pollution Abatement Through Improved Street Cleaning Practices*

If sediment has accumulated to a depth which impairs proper functioning of the barrier, it will be removed by hand or by machinery operating upslope of the barriers. This material will be either reused at the Site or disposed of at a suitable offsite location. Any damaged sections of the barrier will be repaired or replaced immediately upon discovery.

Stormwater Management

The Project will maintain the existing footprint of the approaching roadways following construction and there will not be any increase in impervious surface. The roadways do not have an existing stormwater management system; water flows off of roadway surfaces during precipitation events. Due to the Project's close proximity to Borden Brook and Unnamed Brook, installing new stormwater BMPs would result in increased impacts to wetland resource areas and reduce the natural woodland buffer protecting those areas. Post-construction conditions will therefore not differ significantly from preconstruction conditions and no calculations pertaining to stormwater have been prepared.

Regulatory Compliance

As demonstrated below, the proposed work fully complies with the WPA regulations related to the 200-foot Riverfront Area and the 100-foot buffer zone. The project can be allowed as a Limited Project under the WPA regulations. As described in the Mitigation Measures section of this narrative, the Project includes provisions to minimize short and long-term impacts to adjacent wetlands.

Limited Project

The Project qualifies as a limited project as the maintenance and improvement of existing roadways (310 CMR 10.53(3)(f)). The proposed work on the bridge structures and approaching roadway improvements will enhance safety conditions for drivers along Beech Hill Road and Borden Brook Road within the Project limits.

Work in Riverfront Area

Work on the bridges and approaching segments of the roadway will be conducted within the previously disturbed RFA associated with Borden Brook and Unnamed Brook. The RFA within the roadway is already degraded from its natural state and the Project will not result in any loss or reduction in the function of the RFA. The Riverfront Area within the Project Limits consists of the roadway itself as well as adjacent shoulders and the abutments to the bridges.

As identified in 310 CMR 10.58(2) of the WPA regulations, A Riverfront Area (RFA) is the area of land between a river's mean annual high-water line and a parallel line measured horizontally. The Riverfront area may include or overlap other resource areas or their buffer zones. Additionally, "The presence of natural vegetation within riverfront areas is critical to sustaining rivers as ecosystems."

According to 310 CMR 10.58(4): Where the presumption set forth in 310 CMR 10.58(3) is not overcome, the applicant shall prove by a preponderance of the evidence that there are no practicable and substantially equivalent economic alternatives to the proposed project with less adverse effects on the interests identified in M.G.L. c. 131 § 40 and that the work, including proposed mitigation, will have no significant adverse impact on the riverfront area to protect the interests identified in M.G.L. c. 131 § 40. In the event that the presumption is partially overcome, the issuing authority shall make a written determination setting forth its grounds in the Order of Conditions and the partial rebuttal shall be taken into account in the application of 310 CMR 10.58 (4)(d)1.a. and c.; the issuing authority shall impose conditions in the Order that contribute to the protection of interests for which the riverfront area is significant.

The Project involves rehabilitation of existing bridge structures over perennial waterways, therefore, work in the Riverfront Area will be unavoidable. The Project has been designed to meet performance standards associated with the Riverfront Area to the maximum extent feasible. The Project will involve work within previously disturbed areas of the right of way including the paved roadway and the roadway shoulder.

The Project will not result in an increase of the amount of impervious area within the Riverfront Area. No changes to drainage patterns around the Site are proposed. The roadway does not have an existing stormwater management system; water flows off of roadway surfaces during precipitation events. Post-construction conditions will not differ significantly from pre-construction conditions. Temporary erosion and sedimentation controls will be installed adjacent to the Project limits to minimize secondary impacts to resource areas during construction. Additionally, no portion of the Project limits are located within Priority or Estimated Habitat of Rare Species or Wildlife.

The Project meets all established performance standards for the Riverfront Area except:

- (a) At a minimum, proposed work shall result in an improvement over existing condition of the capacity of the riverfront area to protect the interests identified in M.G.L. c. 131 § 40. When a lot is previously developed but no portion of the riverfront area is degraded, the requirements of 310 CMR 10.58(4) shall be met*

The Project will not result in an alteration of the layout of the existing roadways or permanent alteration of the existing Riverfront Area. However, work in the Riverfront Area may be permitted under the Limited Project provision for the improvement of existing roadways described above.

Alternatives Analysis

As stated in 310 CMR 10.58, work within the RFA requires that “there must be no practicable and substantially equivalent economic alternative to the proposed Project with less adverse effects on the interests identified in M.G.L. c. 131 § 40.” The Project also qualifies as a Limited Project under the WPA, according to CMR 10.53(3). Evaluation of its Limited Project Status “should be based on the availability of reasonable alternatives to the proposed activity.” The Applicant reviewed potential alternatives to the proposed Municipal Bridge Improvements Project. The alternatives included:

- › Alternative 1– the no-build alternative;
- › Alternative 2– constructing a new bridge structure at a different location using an alternate roadway layout
- › Alternative 3– the preferred alternative

The no-build alternative (Alternative 1) would result in no improvements to roadway safety conditions at either bridge structure. Therefore, the no-build alternative was rejected as a viable alternative as it did not meet the Project's purpose and need. The preferred alternative has been designed to minimize impacts to Riverfront Area.

Alternative 2 was determined to not be a feasible alternative. Alternative 2 would involve the acquisition of significant amounts of rights-of-way and would not avoid the Riverfront Area because Borden Brook and Unnamed Brook are both perpendicular to the roadway at each bridge crossing. The use of an alternate layout would result in significantly more impacts to unaltered Riverfront Area or impacts to the adjacent Borden Brook Reservoir. Any build alternative to improve the bridges' condition would result in work within the RFA.

Alternative 3 is the preferred alternative for the Project as described in the Work Description section of this NOI. All work will be associated with improving the two bridge structures and approaching sections of roadway located within the Project Limits.

As described in the Mitigation Measures section of this NOI, the preferred alternative has been designed to minimize impacts to wetland resource areas.

Work in Buffer Zone

As identified in 310 CMR 10.53(1) of the WPA regulations, "the issuing authority should consider the characteristics of the buffer zone, such as the presence of steep slopes, that may increase the potential for adverse impacts on resource areas. Conditions may include limitations on the scope and location of work in the buffer zone as necessary to avoid alteration of resource areas. The issuing authority may require erosion and sedimentation controls during construction, a clear limit of work, and the preservation of natural vegetation adjacent to the resource area and/or other measures commensurate with the scope and location of the work within the buffer zone to protect the interests of the Act."

The proposed Project has been designed to address these requirements. As identified in the Mitigation Measures section of this attachment, an erosion and sedimentation control program will be implemented to prevent adverse impacts during construction. Additionally, due to the location of the Project within an existing roadway, the 100-foot buffer zone is previously degraded from its natural state.

Summary

The Town of Granville is proposing rehabilitation measures on two Bridges in Granville, MA: Beech Hill Road over Borden Brook (G-10-028) and Borden Brook Road over Unnamed Brook (G-10-039). Work will include repairs to the concrete portions of the bridge culvert and wingwall structures and installing new guardrail along the bridges.

Work will be required in the 100-foot buffer zone associated with Bank and all work will be located within the degraded 200-Foot Riverfront Areas associated with Unnamed Brook and Borden Brook. Work will not result in any permanent impacts to any wetland resource areas subject to the jurisdiction of the WPA. Wetland resource areas will be protected from impacts during construction through the implementation of an erosion and sedimentation control program.

The applicant respectfully requests that the Granville Conservation Commission find these measures adequately protective of the interests identified in the WPA and issue an Order of Conditions approving the work described in this NOI and shown on the accompanying plans.



Attachment B

Abutter Information

- › Notice to Abutters
- › List of Abutters

Notification to Abutters Under the Wetlands Protection Act

Pursuant to the requirements of the Massachusetts Wetlands Protection Act (MGL Chapter 131, Section 40), you are hereby notified of the following:

The Town of Granville Department of Public Works (the Applicant) has filed a Notice of Intent (NOI) with the Granville Conservation Commission seeking approval to rehabilitate two bridges structures, one on Beech Hill Road over Borden Brook (Bridge #G-10-028) and one on Borden Brook Road over Unnamed Brook ((G-10-039). Portions of the project will occur in an Area Subject to Protection under the Massachusetts Wetlands Protection Act. All work is proposed at within the existing bridges and roadway layout of Beech Hill Road and Borden Brook Road.

Information regarding the NOI may be obtained by calling the Granville Conservation Commission at (413) 357-8585 extension "0". The NOI may be viewed at the Granville Town Hall located at 707 Main Road, Granville, MA 01034. You may also call Dan Cannata of VHB at 617-924-1770 on Monday through Friday between 9 AM and 5 PM with questions or to arrange to view the NOI.

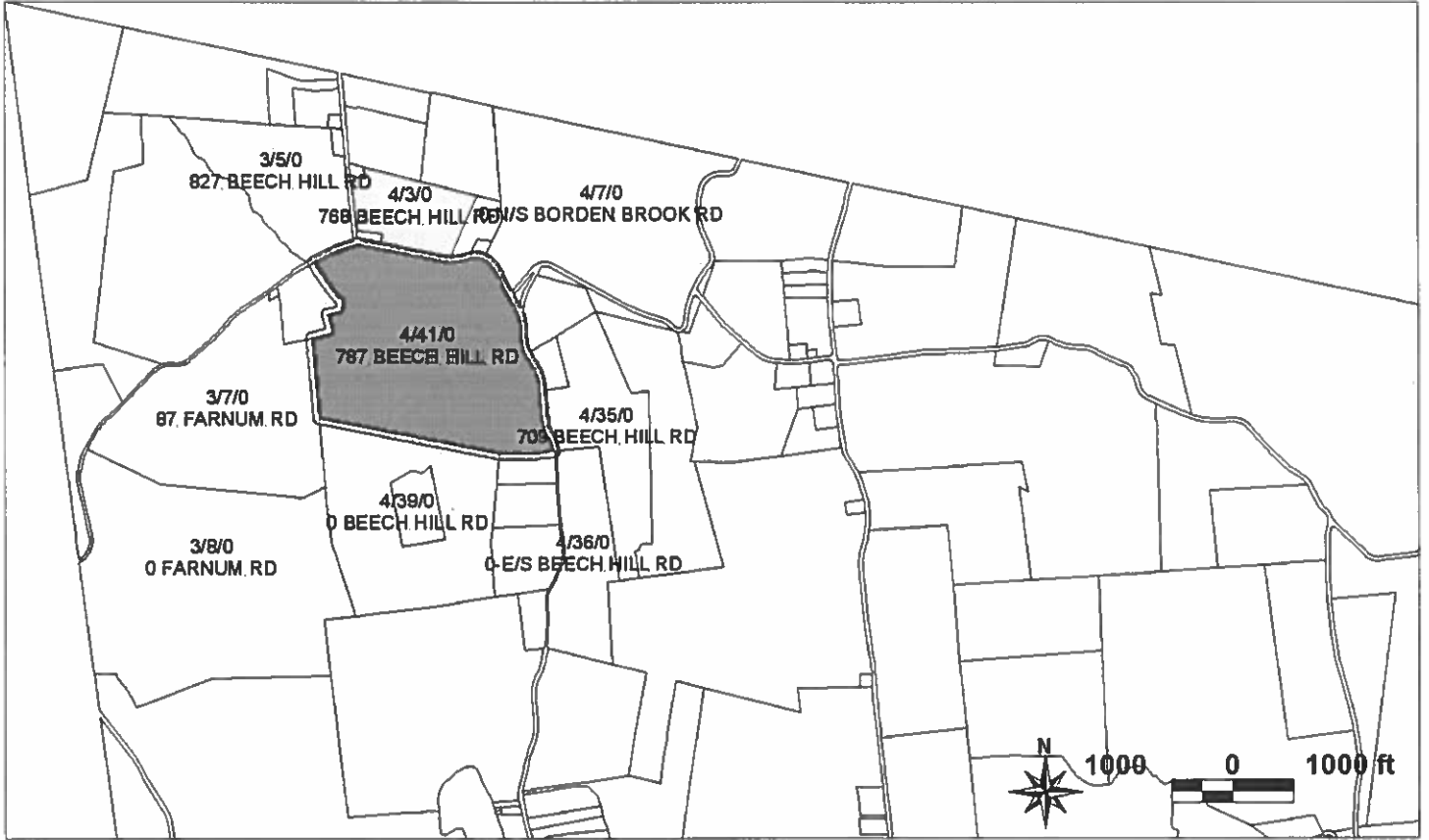
Copies of the NOI may be obtained from the Granville Conservation Commission by calling the number above or by calling Dan Cannata at 617-924-1770. You may be charged for a copy of the NOI.

The Granville Conservation Commission will hold a public hearing on the NOI. Notice of the public hearing (including the date, time and place) will be published in a local newspaper at least 5 business days before and posted in Town Hall at least 48 hours in advance. You may also call the Granville Conservation Commission (at the number identified above) to determine the date, time and place of the hearing.

Information on this NOI and the Wetlands Protection Act may also be obtained by calling the Western Regional of Office of the Massachusetts Department of Environmental Protection at 413-784-1100.

TOWN OF GRANVILLE, MA
 BOARD OF ASSESSORS
 TOWN HALL P O BOX 247, GRANVILLE, MA 01034

Abutters List Within 100 feet of Parcel 4/41/0

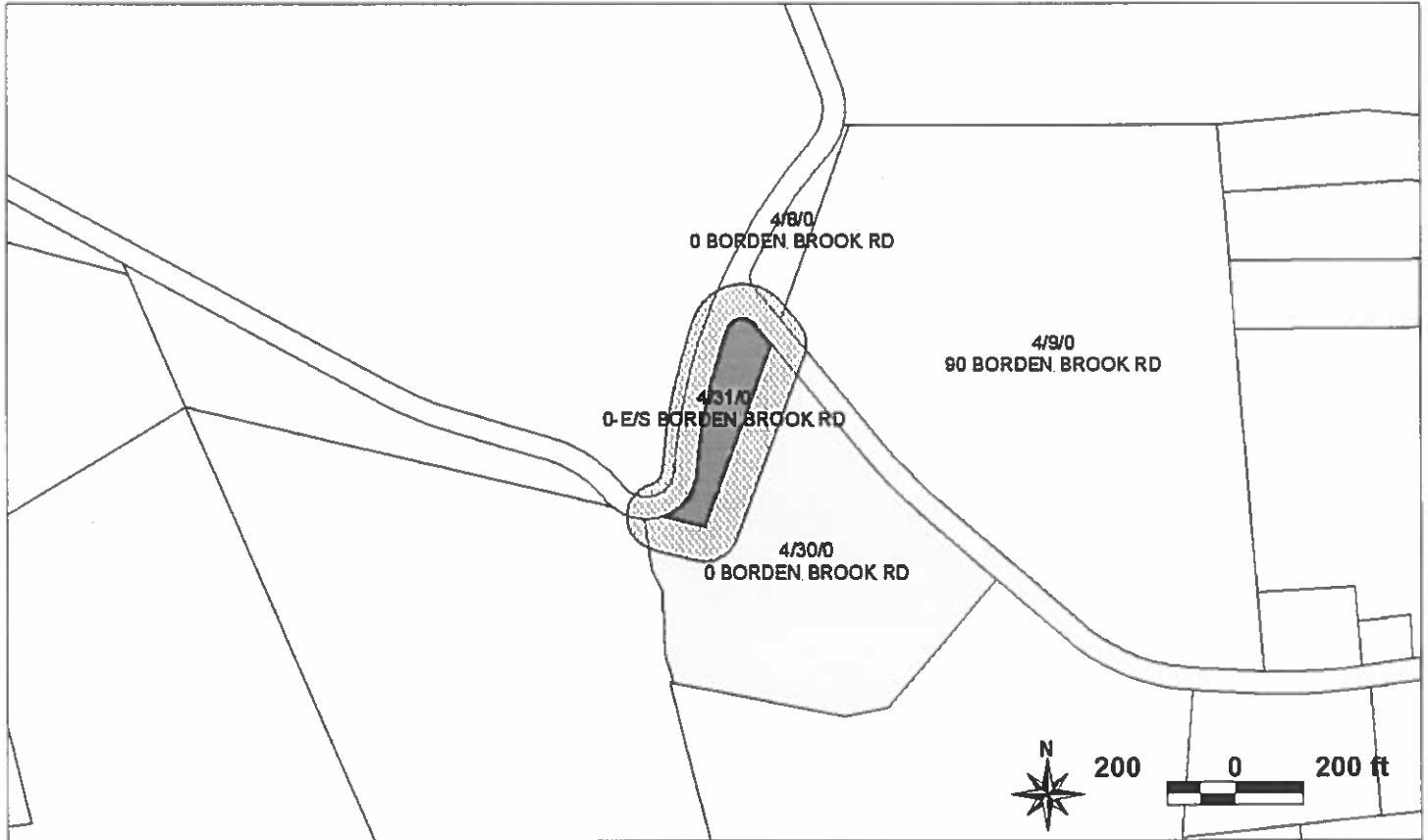


| Key | Parcel ID | Owner | Location | Mailing Street | Mailing City | ST | ZipCd/Country |
|-----|-----------|---------------------------------------------|-----------------------|------------------------|--------------|----|---------------|
| 8 | 3-5-0-R | RIPLEY DAVID K RIPLEY JESSICA T | 827 BEECH HILL RD | 827 BEECH HILL RD | GRANVILLE | MA | 01034 |
| 10 | 3-7-0-R | WESTERN MASS BIRD DOG CLUB INC | 87 FARNUM RD | PO BOX 82 | CHICOPEE | MA | 01014 |
| 11 | 3-8-0-E | SPRINGFIELD CITY OF MUNICIPAL WATER DEPT | 0 FARNUM RD | PO BOX 2551 | SPRINGFIELD | MA | 01101 |
| 17 | 4-3-0-R | BLISS SHAWN M | 768 BEECH HILL RD | 768 BEECH HILL RD | BLANDFORD | MA | 01008 |
| 18 | 4-5-0-R | SPFLD WATER & SEWER COMMISSION | 740 BEECH HILL RD | 250 M STREET EXTENSION | AGAWAM | MA | 01001 |
| 19 | 4-6-0-R | LAFFERT ERNEST LAFFERT BARBARA | 724 BEECH HILL RD | 724 BEECH HILL RD | BLANDFORD | MA | 01008 |
| 20 | 4-7-0-E | SPRINGFIELD CITY OF | 0-N/S BORDEN BROOK RD | PO BOX 2551 | SPRINGFIELD | MA | 01101 |
| 44 | 4-34-0-R | RIPLEY JOYCE M | 0 BORDEN BROOK RD | 794 BEECH HILL RD | BLANDFORD | MA | 01008 |
| 45 | 4-35-0-E | SPRINGFIELD WATER & SEWER COM | 709 BEECH HILL RD | 250 M STREET EXT | AGAWAM | MA | 01001 |
| 46 | 4-36-0-E | SPRINGFIELD CITY OF | 0-E/S BEECH HILL RD | PO BOX 2551 | SPRINGFIELD | MA | 01101 |
| 49 | 4-38-0-R | RIPLEY LEON K RIPLEY JOYCE M | 0 BEECH HILL RD | 794 BEECH HILL RD | BLANDFORD | MA | 01008 |
| 50 | 4-39-0-R | RIPLEY LEON K RIPLEY JOYCE M | 0 BEECH HILL RD | 794 BEECH HILL RD | BLANDFORD | MA | 01008 |
| 52 | 4-41-0-R | RIPLEY LEON K RIPLEY JOYCE M | 787 BEECH HILL RD | 794 BEECH HILL RD | BLANDFORD | MA | 01008 |
| 53 | 4-42-0-R | RIPLEY LEON K RIPLEY JOYCE M | 794 BEECH HILL RD | 794 BEECH HILL RD | GRANVILLE | MA | 01034 |
| 57 | 4-47-0-R | PIERCE RICHARD FERNANDEZ MARY ANN | 10 TIMBERDOODLE RD | PO BOX 243 | GRANVILLE | MA | 01034-0243 |

| Key | Parcel ID | Owner | Location | Mailing Street | Mailing City | ST | ZipCd/Country |
|-----|-----------|----------------------------------------|-------------------|-------------------|--------------|----|---------------|
| 58 | 4-48-0-R | LAFRENIERE CARL T LAFRENIERE JOAN L | 646 BEECH HILL RD | 646 BEECH HILL RD | BLANDFORD | MA | 01008 |

TOWN OF GRANVILLE, MA
 BOARD OF ASSESSORS
 TOWN HALL P O BOX 247, GRANVILLE, MA 01034

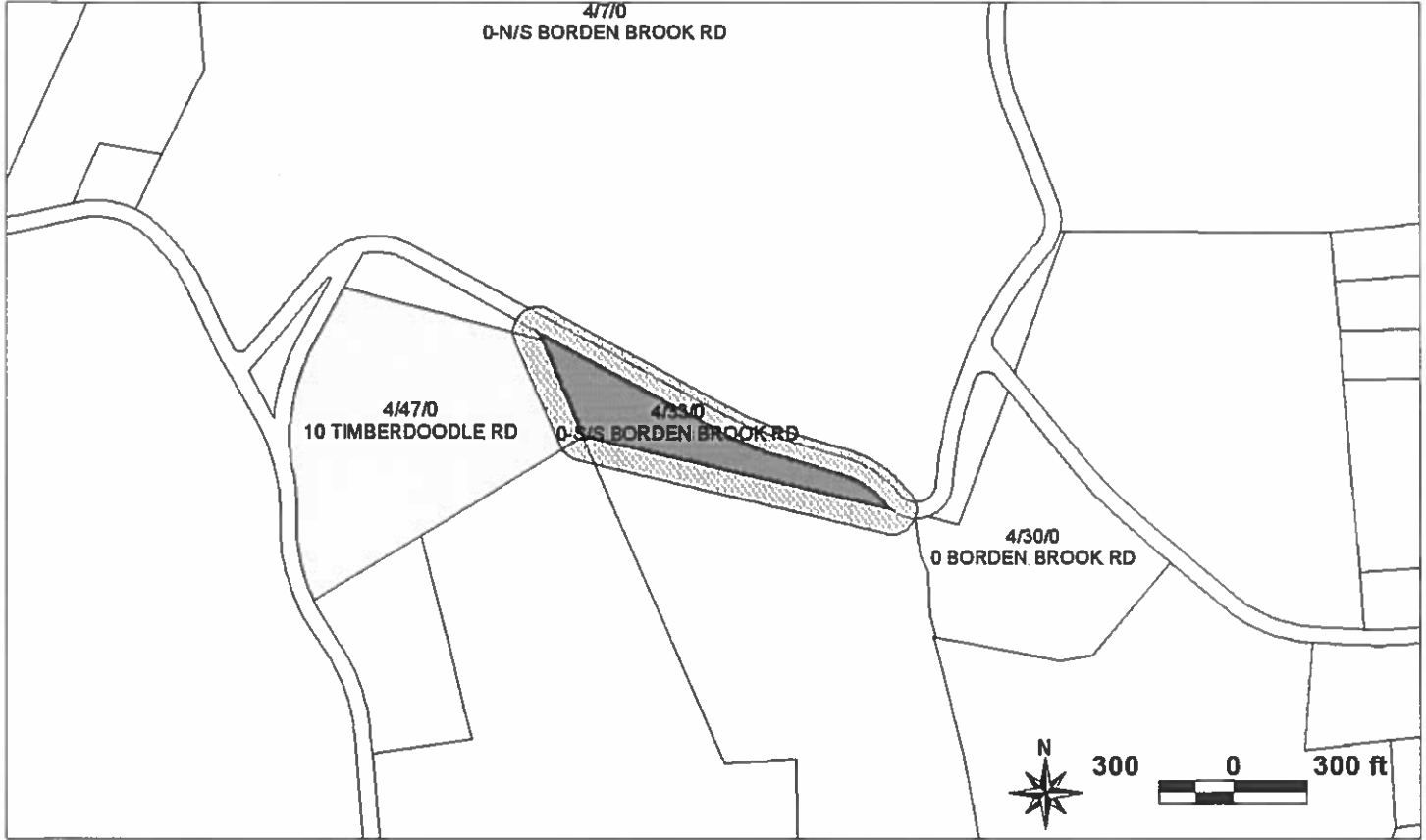
Abutters List Within 100 feet of Parcel 4/31/0



| Key | Parcel ID | Owner | Location | Mailing Street | Mailing City | ST | ZipCd/Country |
|-----|-----------|--------------------------------------------------------------|-----------------------|----------------|--------------|----|---------------|
| 20 | 4-7-0-E | SPRINGFIELD CITY OF | 0-N/S BORDEN BROOK RD | PO BOX 2551 | SPRINGFIELD | MA | 01101 |
| 21 | 4-8-0-E | SPRINGFIELD CITY OF | 0 BORDEN BROOK RD | PO BOX 2551 | SPRINGFIELD | MA | 01101 |
| 22 | 4-9-0-E | SPRINGFIELD WATER & SEWER COM BARNES GERTRUDE/LIFE ESTATE | 90 BORDEN BROOK RD | PO BOX 995 | SPRINGFIELD | MA | 01101-0995 |
| 40 | 4-30-0-E | SPRINGFIELD WATER & SEWER COM BARNES GERTRUDE/LIFE ESTATE | 0 BORDEN BROOK RD | PO BOX 995 | SPRINGFIELD | MA | 01101-0995 |
| 41 | 4-31-0-E | SPRINGFIELD CITY OF | 0-E/S BORDEN BROOK RD | PO BOX 995 | SPRINGFIELD | MA | 01101 |
| 42 | 4-32-0-E | SPRINGFIELD WATER & SEWER COM | 0 BORDEN BROOK RD | PO BOX 995 | SPRINGFIELD | MA | 01101 |

TOWN OF GRANVILLE, MA
 BOARD OF ASSESSORS
 TOWN HALL P O BOX 247, GRANVILLE, MA 01034

Abutters List Within 100 feet of Parcel 4/33/0



| Key | Parcel ID | Owner | Location | Mailing Street | Mailing City | ST | ZipCd/Country |
|-----|-----------|--------------------------------------------------------------|-----------------------|------------------|--------------|----|---------------|
| 20 | 4-7-0-E | SPRINGFIELD CITY OF | 0-N/S BORDEN BROOK RD | PO BOX 2551 | SPRINGFIELD | MA | 01101 |
| 40 | 4-30-0-E | SPRINGFIELD WATER & SEWER COM BARNES GERTRUDE/LIFE ESTATE | 0 BORDEN BROOK RD | PO BOX 995 | SPRINGFIELD | MA | 01101-0995 |
| 42 | 4-32-0-E | SPRINGFIELD WATER & SEWER COM | 0 BORDEN BROOK RD | PO BOX 995 | SPRINGFIELD | MA | 01101 |
| 43 | 4-33-0-E | SPRINGFIELD CITY OF | 0-S/S BORDEN BROOK RD | PO BOX 2551 | SPRINGFIELD | MA | 01101 |
| 45 | 4-35-0-E | SPRINGFIELD WATER & SEWER COM | 709 BEECH HILL RD | 250 M STREET EXT | AGAWAM | MA | 01001 |
| 57 | 4-47-0-R | PIERCE RICHARD FERNANDEZ MARY ANN | 10 TIMBERDOODLE RD | PO BOX 243 | GRANVILLE | MA | 01034-0243 |



Attachment C

Project Plans

› Bound Separately

