Notice of Intent

Hole 16 Pond and Culvert Improvements

Foxborough Country Club
Foxborough, Massachusetts

Prepared for:

Foxborough Country Club
33 Walnut Street
Foxborough, MA 02035

Prepared by:

BEALS + THOMAS

Submitted in Compliance with the Massachusetts Wetlands Protection Act and Chapter 267, the Town of Foxborough Wetlands Protection Bylaw and Regulations

November 15, 2021

318001NI001

BEALS + THOMAS

November 15, 2021

Robert W. Boette, Chair
c/o Jane Sears Pierce, Conservation Agent
Foxborough Conservation Commission
40 South Street,
Foxborough, MA 02035

Via: FedEx and Email to *jpierce@foxboroughma.gov*

Reference: Notice of Intent
Hole 16 Pond Improvements
Foxborough Country Club
Foxborough, Massachusetts
B+T Project No. 3180.01

Dear Commissioners:

On behalf of the Applicant, the Foxborough Country Club (the Club), Beals and Thomas, Inc. (B+T) respectfully submits this Notice of Intent (NOI) for work within Land Under Waterbodies and Waterways (LUWW/LUWBW), Bank, and the Foxborough 25-foot No Activity Zone. The Project involves work within these listed resource areas with the intent of:

- Removing Accumulated Sediment from LUWW/LUWBW;
- Armoring an eroded portion of Bank;
- Upgrading an aged and undersized culvert into a span bridge; and
- Selective grading to improve drainage and mitigate erosion.

The proposed work is limited to an area surrounding the 16th Hole of the Foxborough Country Club at 33 Walnut Street in Foxborough, Massachusetts. The Applicant is specifically requesting to remove less than 100 cubic yards of accumulated sediment within the subject Pond and restore a portion of the Bank by armoring it with stone. This filing is submitted in accordance with the Massachusetts Wetlands Protection Act, MGL, Chapter 131, Section 40 and associated Regulations at 310 CMR 10.00 (collectively referred to as the Act) and Chapter 267, the Town of Foxborough Wetlands Protection Bylaw and implementing Regulations dated 2016 (collectively referred to as the Bylaw). The Applicant is seeking relief from Chapter 267 with respect to the 25-foot No Activity Zone and for work within the above-described resource areas.

As required, enclosed are seven (7) copies plus the original of the NOI submission package. The

following information is included for your review:

Section 1:	NOI Forms and Stormwater Checklist;
Section 2:	Project Narrative;
Section 3:	Abutter Information;
Section 4:	Wetland Boundary Documentation; and
Section 5:	Plans.

As required, a copy of this filing has been provided to the Southeast Regional Office of the Department of Environmental Protection (MassDEP). Pursuant to requirements of the Act, abutters within 100 feet of the subject property have been notified via certified mail concurrent with the date of this submission that this NOI has been filed with the Foxborough Conservation Commission. Enclosed is a check payable to the Town of Foxborough in the amount of $762.00 for the appropriate filing fee as required by the Act, as well as an additional check of $1,250.00 for a Category 2 Filing under the Bylaw. A separate check in the amount of $737.50 has been forwarded to the MassDEP Lock Box to cover the state portion of the filing fee. We understand from our coordination with the Town that the Conservation Department will post the legal notice and will let the Applicant know the cost which can be paid before, if not during, the meeting.

Pursuant to 310 CMR 10.05(4)(a), "An applicant who proposes work solely within Land under Water Bodies or Waterways, or solely within a Lot with an area greater than 50 acres, is required to provide notification only to Abutters whose Lot is within one hundred feet from the Project Site." As discussed with the Conservation Agent via email on October 21, 2021, the Foxborough Wetlands Bylaw and Regulations do not specify anything different than the Wetlands Protection Act, so the abutter notification requirements are the same as the Act. Therefore, abutters located within 100 feet of the project will be notified for the proposed project, per 310 CMR 10.05(4)(a).

Should you have any questions regarding this matter or require additional information, please contact us at (508) 366-0560 or *sstearns@bealsandthomas.com*. We thank you for your consideration of this NOI and look forward to meeting with the Commission at the next available public hearing.

Very truly yours,

BEALS AND THOMAS, INC.

Sarah W. Stearns, PWS
Associate

Enclosures

cc: MassDEP Southeast Regional Office (1 copy via Certified Mail)
Foxborough Country Club (via Email)

AMG/sws/318001NI001

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Section 1.0
Notice of Intent Forms

Notice of Intent (WPA Form 3)
Wetland Fee Transmittal Form
Foxborough Notice of Intent Filing Checklist
MassDEP Stormwater Checklist

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

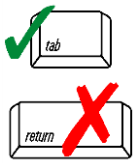
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40
Foxborough Wetlands Protection Bylaw, Ch. 267

(To be provided by MassDEP)

MassDEP File Number

Foxborough
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:**

33 Walnut Street — a. Street Address
Foxborough — b. Town
02035 — c. Zip Code

Latitude and Longitude:
42° 2'20.49"N — d. Latitude
42° 2'20.49"N — e. Longitude

145 — f. Assessors Map/Plat Number
27 — g. Parcel /Lot Number

2. **Applicant:**

Michael — a. First Name
Poch — b. Last Name
Foxborough Country Club — c. Organization
PO Box 397 — d. Street Address
Foxborough — e. City/Town
MA — f. State
02035 — g. Zip Code
(508) 543-4661 — h. Phone Number
i. Fax Number
mwpoch@verizon.net — j. Email Address

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

a. First Name
b. Last Name
Members of the Foxborough Country Club — c. Organization
33 Walnut Street — d. Street Address
Foxborough — e. City/Town
MA — f. State
02035 — g. Zip Code
h. Phone Number
i. Fax Number
j. Email address

4. **Representative** (if any):

Sarah — a. First Name
Stearns — b. Last Name
Beals and Thomas, Inc. — c. Company
144 Turnpike Road — d. Street Address
Southborough — e. City/Town
MA — f. State
01772 — g. Zip Code
508-366-0560 — h. Phone Number
i. Fax Number
sstearns@bealsandthomas.com — j. Email address

5. **Wetland Filing Fees Paid** *(to calculate fees, refer to attached NOI Wetland Fee Transmittal Form):*

a. State WPA Fee/***Total***	b. WPA Fee/***State's Share***	c. WPA Fee/***Town's Share***	d. Town Bylaw (Ch. 267) Fee
$1,500.00	$737.50	$762.50	$1,250.00

A. General Information *(continued)*

6. General Project Description:

This Project contemplates Bank reinforcement, the removal of accumulated sediment within a pond, upgrading an existing stream crossing, and performing site grading to improve drainage.

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. ☐ N/A - 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 10.53 (inland)?

1. ☐ Yes ☒ No

If yes, describe which limited project applies to this project. (See 310 CMR 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 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:

a. County	b. Certificate # (if registered land)	c. Book	d. Page Number
Norfolk		3445	4

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, or Inland Bank.
2. ☒ Inland Resource Areas (see 310 CMR 10.54-10.58).

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.

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

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

P = Pond
S = Stream

Resource Area	Size of Proposed Alteration	*(if any)* Proposed Replacement
a. ☒ Bank	S: ±120, P: ±210 1. linear feet	S: ±110, P: ±220 2. linear feet
b. ☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c. ☒ Land Under Waterbodies and Waterways	S: ±310, P: ±6,040 1. square feet ±21 3. cubic yards dredged	S: ±440, P: ±6,160 2. square feet
d. ☐ Bordering Land Subject to Flooding	1. square feet 3. cubic feet of flood storage lost	2. square feet 4. cubic feet replaced
e. ☐ Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced

f. ☐ Riverfront Area *(if checked, complete #1-6)*

1. Name of Waterway (if available)

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: _____ square feet

4. Proposed alteration of the Riverfront Area:

a. total square feet _____ b. square feet within 100 feet _____ c. square feet between 100 feet and 200 feet _____

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. ☒ Bylaw Resource Areas *(Foxborough Wetlands Protection Bylaw, Ch. 267; No Activity Zones)*

a. ☐ 100 Foot Vernal Pool Adjacent Upland Resource Area

b. ☒ 25 Foot No Activity Zone

4. ☐ 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 above, please enter the additional amount here.

a. square feet of BVW

5. ☒ Project Involves Stream Crossings

a. number of new stream crossings

1
b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

☐ **This is a proposal for an Ecological Restoration Limited Project.** *If checked, skip Section C and complete Appendix A: Ecological Restoration Notice of Intent – Required Actions (310 CMR 10.11).*

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 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

   15th Edition Atlas (Aug. 2021)

   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 - Phone: (508) 389-6360

   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.1.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*

      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

2. ☐ 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 *(include description of impacts outside of wetland resource area & buffer zone)*

   (b) ☐ Photographs representative of the site

   (c) ☐ MESA filing fee - Make check payable to "Commonwealth of Massachusetts - NHESP" and ***mail to NHESP*** at above address (fee information available at https://www.mass.gov/regulatory-review)

   *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 - see next page

* Some projects **not** in Estimated Habitat may be located in Priority Habitat (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/) and require NHESP 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.

C. Other Applicable Standards and Requirements (continued)

(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 10.59.)
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 and Management Permit with approved plan.

3. For coastal projects only: ☒ Not applicable in Foxborough

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.

   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)?

   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.

8. ☐ **This is a proposed Ecological Restoration Limited Project**. *[If checked, skip Section D and complete Appendix A: Ecological Restoration NOI; Minimum Required Documents (310 CMR 10.12).]*

D. Additional Information

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

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.
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), 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.

Hole 16 Improvements		
a. Plan Title		
Beals and Thomas, Inc.	Daniel Feeney, PE #41422	
b. Prepared By	c. Signed and Stamped by	
October 20, 2021	As Shown	
d. Final Revision Date	e. Scale	
Stormwater Management Checklist		10/20/21
f. Additional Plan or Document Title		g. Date
h. Additional Plan or Document Title		i. Date

5. ☐ If more than one property owner, attach a list of property owners not listed on this form.
6. ☐ Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
7. ☒ Notice of Intent Application checklist
8. ☒ Abutter Notification Form
9. ☒ Affidavit of Service Form
10. ☒ Attach Stormwater Report with *signed, stamped Stormwater Checklist (unless exempt).*

E. Fees

1. ☐ a. Fee Exempt: *No filing fee shall be assessed for projects of any town, county, or district of the Commonwealth, municipal housing authority, or the Massachusetts Bay Transportation Authority.*

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

Check No. 006378	November 4, 2021
2. Check Number (town share of state fee [see A.5.c., page 1])	3. Check date (town share of state fee)
Check No. 006380	November 4, 2021
4. Check Number (Bylaw filing fee [see A.5.d, page 1])	5. Check date (Bylaw filing fee)
Check No. 006379	November 4, 2021
6. State Check Number (state share of state fee [see A.5.b.])	7. Check date (state share of state filing fee)
Foxborough Country Club, Inc.	
8. First Name of Payor on checks	9. Last Name of Payor on checks

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 hereby grant permission, to the Agent or member of the Conservation Commission and the Department of Environmental Protection, to enter and inspect the area subject to this Notice at reasonable hours to evaluate the wetland resource boundaries, if included with this application, subject to this Notice, and to require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

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.

James R. Rawlins
1. Signature of Applicant

11/5/2021
2. Date

3. Signature of Property Owner (if different)

4. Date

Sarah W. Lee
5. Signature of Representative (if any)

11/4/2021
6. Date

Tax Collector's Release Foxborough Country Club

The above referenced applicant is applying for a permit from the Conservation Commission and is in good standing with respect to any taxes, fees, assessments, betterments or other municipal charges as recorded with the Foxborough Treasurer's Office.

Pamela Maloney
1. Signature of Tax Collector or Agent

11/5/21
2. Date

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 hereby grant permission, to the Agent or member of the Conservation Commission and the Department of Environmental Protection, to enter and inspect the area subject to this Notice at reasonable hours to evaluate the wetland resource boundaries, if included with this application, subject to this Notice, and to require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

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.

James Rawlins — 1. Signature of Applicant
11/5/2021 — 2. Date

3. Signature of Property Owner (if different)
4. Date

Sarah W. Lee — 5. Signature of Representative (if any)
11/4/2021 — 6. Date

Tax Collector's Release Foxborough Country Club

The above referenced applicant is applying for a permit from the Conservation Commission and is in good standing with respect to any taxes, fees, assessments, betterments or other municipal charges as recorded with the Foxborough Treasurer's Office.

1. Signature of Tax Collector or Agent
2. Date

F. Signatures and Submittal Requirements

Submittal Requirements *(please refer to NOI Filing Instructions, downloadable at http://www.foxboroughma.gov/Pages/FoxboroughMA_Conservation/Forms)*

For Foxborough Conservation Commission:

One original and seven (7) copies of this completed Notice of Intent (form 3), including supporting plans and documents *(listed at section D. "Additional Information"),* NOI Filing Check List, Abutter Notification, one copy of the NOI Wetland Fee Transmittal Form *(see following page; attached),* and the two town fee payments (Bylaw filing fee and town share of State filing fee), by certified mail or hand delivery to:

Foxborough Conservation Commission
Town Hall, 40 South Street, Foxborough, MA 02035

For MassDEP:

One copy of this completed Notice of Intent (form 3), including supporting plans and documents *(listed at Section D),* one copy of the NOI Wetland Fee Transmittal Form *(attached),* and a ***copy*** of the state fee payment (for State share, see below) by certified mail or hand delivery to:

MassDEP Southeast Regional Office
20 Riverside Drive, Lakeville, MA 02347

State share of the filing fee (check or money order, payable to the *Commonwealth of Massachusetts)* and the NOI Wetland Fee Transmittal Form by certified mail or hand delivery to:

Department of Environmental Protection
Box 4062, Boston, MA 02211

Other:

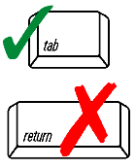
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements. The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal 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
Foxborough Wetlands Protection Bylaw, Chapter 267

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

Check No. 006379 for $737.50

1. Location of Project:

33 Walnut Street	Foxborough
a. Street Address	b. City/Town

2. Applicant Mailing Address:

Michael	Poch
a. First Name	b. Last Name

Foxborough Country Club
c. Organization

PO Box 397	Foxborough	MA	02035
d. Mailing Address	e. City/Town	f. State	g. Zip Code

		mwpoch@verizon.net
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner *(if different from Applicant)*:

a. First Name	b. Last Name

Members of the Foxborough Country Club
c. Organization

33 Walnut Street	Foxborough	MA	02035
d. Mailing Address	e. City/Town	f. State	g. Zip Code

h. Phone Number	i. Fax Number	j. Email Address

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

B. Fees - *Please see NOI Instructions before filling out worksheet.*

Fees should be calculated using the following process and the worksheet on the next page.

Refer to Conservation Commission's website to download the Town and State Filing Fee Schedules: http://www.foxboroughma.gov/Pages/FoxboroughMA_Conservation/Forms

State Wetlands Protection Act (WPA) Filing Fee Instructions

Step 1/ Type of Activity: Describe each type of activity that will occur in a wetland resource area and/or buffer zone *(the area within 100 feet of a wetland, or 200 feet of a river).*

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

Step 6a-c/ Fee Payments (State):
To calculate the state share of the fee, divide the total fee in half and subtract $12.50.
To calculate the town share of the fee, divide the total fee in half and add $12.50.

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
Foxborough Wetlands Protection Bylaw, Chapter 267

B. Fees (continued)

Town Bylaw Filing Fee Instructions

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

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

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

Step 4a/ Subtotal Activity Fee: Multiply the number of activities (identified in Step 2a) times the fee per category (identified in Step 3a) 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 5a/ Total Bylaw Project Fees:
Determine the total project fee by adding the subtotal amounts from Step 4a.

Step 6d/ Fee Payment (Bylaw): ***Insert Step 5a fee payment amount.***

Type of Activity	Number of Activities	Individual Activity Fee	Subtotal Activity Fee
State Filing Fees: *(Step 1)*	*(Step 2)*	*(Step 3)*	*(Step 4)*
Bank Repair/Replacement (Cat 2j.)	1	$500.00	$500.00
Bank Restoration (Cat 2j.)	1	$500.00	$500.00
Sediment Removal from Pond (Cat 2j.)	1	$500.00	$500.00
Total State Filing Fee: *(Step 5)*			$1,500.00
Bylaw Filing Fees: *(Step 1a)*	*(Step 2a)*	*(Step 3a)*	*(Step 4a)*
Bridge Crossing (Cat 1d)	1	$250.00	$250.00
Bank Restoration (Cat 2l)	1	$500.00	$500.00
Sediment Removal from Pond (Cat 2l)	1	$500.00	$500.00
Total Bylaw Filing Fee: *(Step 5a)*			$1,250.00
Filing Fee Payments: *(Step 6)*			
Total State Filing Fee:	*(insert the following amount on this NOI form page 1, Section A.5.a)*		$1,500.00 a. Total **State** Fee from Step 5
State's share of filing fee: *(Paid to State [Boston address])*	*(insert following amount on this NOI form page 1, Section A.5.b.)*		$737.50 b. 1/2 of (a), above, **less $**12.50
Town's share of filing fee: *(Paid to Town of Foxborough)*	*(insert following amount on this NOI form page 1, Section A.5.c.)*		$762.50 c. 1/2 of (a) above, **plus** $12.50
Bylaw Filing Fee*:* *(Paid to Town of Foxborough)*	*(insert following amount on this NOI form page 1, Section A.5.d.)*		$1,250.00 d. Total **Bylaw** Fee from Step 5a

See Submittal Requirements and Instructions on the next page.

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
Foxborough Wetlands Protection Bylaw, Chapter 267

C. Submittal Requirements

For additional instructions, please refer to the Submittal Instructions on the last page (page 7) of the attached NOI Form (above).

a. ***To Department of Environmental Protection:***

Complete pages 1 and 2 of this NOI Wetland Fee Transmittal Form and send with a check or money order for the **State share of the filing fee**, payable to the *Commonwealth of Massachusetts.*

Department of Environmental Protection
Box 4062
Boston, MA 02211

b. ***To the Foxborough Conservation Commission:***

Send the Notice of Intent or Abbreviated Notice of Intent; one **copy** of this form and the Town fee payments (**Bylaw fee and town share of State fee**), payable to the *Town of Foxborough*.

Foxborough Conservation Commission
40 South Street
Foxborough, MA 02035

c. ***To MassDEP Regional Office:***

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.

MassDEP, Southeast Regional Office
20 Riverside Drive
Lakeville, MA 02347

NOTICE OF INTENT APPLICATION CHECKLIST

This checklist, which is referred to in the Conservation Commission's *Filing Instructions for Notices of Intent Under the Foxborough Wetlands Protection Bylaw, Chapter 267,* has been designed to efficiently assist the applicant and the Commission through the review process. It applies to all filings under the Foxborough Wetlands Protection Bylaw, Chapter 267 (unless otherwise specifically stated). Close adherence to this checklist and the referenced *Filing Instructions* is recommended.

All of the following information will be required, unless exempted in writing by the Commission. After completing each item below, please check the box next to the item and, when finished, **include a copy of the completed checklist in your NOI application package**.

INFORMATION TO BE INCLUDED IN NOTICE OF INTENT NARRATIVE

EXISTING CONDITIONS

- ☒ Description of topography, soils, and geology
- ☒ Description of vegetation types (upland or wetlands community types and plant species)
- ☒ USGS quadrangle map (most recent version), with site location circled (locus map)
- ☒ National Flood Insurance Program (NFIP) Flood Insurance Rate Map (FIRM), and associated Flood Profile Study if available, with site location circled

PROPOSED CONDITIONS

- ☒ Description of activities, construction sequencing and estimated timetable, including future phases
- ☒ Description of indirect and direct impacts, both temporary and permanent, on wetland resource areas
- N/A ☐ Calculations of lot's impervious areas, comparing pre-construction to post construction conditions
- N/A ☐ Volume of fill required, if applicable, and source of fill
- ☒ Description of soil erosion and sediment control plan, including monitoring and measures to be taken to prevent negative impacts to resource areas
- N/A ☐ Detailed mitigation plan for activities in the buffer zone to prevent long term, indirect impacts to adjacent resource areas
- N/A ☐ Description of storm water management plan, including existing and proposed drainage areas
- N/A ☐ Description of wastewater management plan, if applicable
- N/A ☐ Description of wetlands restoration plan, if proposed, including area to be restored with existing and proposed topography contours (at one-foot intervals), description of soils, stockpile areas, plantings (including Latin names of plants/seeds and source of materials [both plants and soils]), invasive species eradication and monitoring plan and a timetable of proposed work.

SITE VISIT REQUIREMENTS FOR REVIEW OF NOTICE OF INTENT

The following markings and flagging must be in place before the field inspection, where applicable. Failure to properly stake and mark the site may result in delays, non-review, or denial of a proposed project.

- ☒ Edges of wetlands must be flagged with numbered flags, as reflected on submitted project plans
- N/A ☐ House number must be visible from the street, if work is proposed at a pre-existing house; if no house is on the property, the lot number must be posted and visible.
- N/A ☐ Property boundaries must be staked with numbered stakes at all corners
- N/A ☐ All proposed structures or additions, including decks, must be staked for identification purposes at all corners; stakes must be numbered and labeled, as reflected on submitted project plans
- N/A ☐ Locations of septic tank, leaching field and wells (if in the buffer zone) must be staked and labeled

INFORMATION TO BE INCLUDED ON SITE PLANS

ALL PLANS

- ☒ Title Box: Include the date, name and address of proposed project; owner and/or applicant name; preparer's name; scale (1 inch = 30 feet or less); north arrow; assessor's map/parcel number
- ☒ Stamp/Signature: Plan to be prepared and stamped by a registered professional engineer (PE) or land surveyor, as appropriate. At least one original signed copy of each plan must be submitted

  (Note: The professional who stamps the original plans must also stamp, sign and date revisions.)
- ☒ Locus Map: Include on a corner of plan's first page, at least 3" x 3" in size
- ☒ Topography: Contours at two-foot intervals or less; NAVD88 elevations (if available), or assumed datum and location of benchmark elevation
- ☒ Project Site: Include lot size(s) and property boundaries.
- ☐ Abutting Properties: Property owner names and property lines of abutting land parcels
- N/A ☐ Watershed Areas: For projects that alter the stormwater runoff from the site, identify total watershed area in which site is located, all sub-watersheds on site, and on- and off-site discharge points
- N/A ☐ Test Pits: Location, date and soil summaries of all soil borings and test pits on site; location, date and readings of groundwater level measurements on site
- ☒ Stone walls or other barriers located between the area of work and the area(s) subject to protection
- N/A ☐ Easements: Location and type of easements, both on site and within 50 feet of property line

Resource Areas and Buffer Zones

- ☒ Wetland Resource Areas: Boundaries of wetland resource areas on or within 100 feet of the proposed project area (200 feet for perennial streams and rivers), with flow directions, if applicable
- ☒ Wetland Flags: Numbered flags/stakes; note date of flagging and name/firm of delineator/botanist
- ☒ Bank: Delineate the banks of streams, rivers, ponds and/or lakes
- ☒ 25 Foot No Activity Zone (Chapter 267)
- N/A ☐ Bordering Land Subject to Flooding, including 100-year storm elevation (FEMA floodplain or highest observed or recorded elevation)
- N/A ☐ Isolated Land Subject to Flooding, including highest observed or recorded water level
- N/A ☐ Vernal Pools, (all) including highest observed or recorded water level
- N/A ☐ Certified Vernal Pools: Boundary of 100 foot No Activity Zone (Chapter 267)
- N/A ☐ High Water Level for all water bodies, from best available data (data source must be cited)
- N/A ☐ Riverfront Area: Boundaries of 100 Foot Inner Riparian Area and 200 Foot Outer Riparian Area
- N/A ☐ Mean Annual High Water Line (MAHWL) of any river
- ☒ 100 Foot Buffer Zone (100-foot radius from all wetland resources areas)

EXISTING CONDITIONS PLANS

- ☒ Existing Topography: Contours at two-foot intervals or less
- ☒ Above-Ground: All on-site above-ground structures, roadways, access ways, stone walls, fences
- ☒ Below-Ground: All on-site below-ground structures, including but not limited to utility lines, drainage structures, septic systems, cesspools, wells, storage tanks

PROPOSED CONDITIONS PLANS

- ☒ Proposed Topography: Contours at two-foot intervals or less; NAVD88 elevations or assumed datum
- ☒ Limit of Work: delineate all areas where vegetation or soil will be altered
- ☒ Erosion Controls: locations and type of temporary erosion controls, including installation details
- N/A ☐ Stockpiles: locations of stockpiles
- N/A ☐ Fill: Note the amount of fill required to be added or removed (in cubic yards and maximum thickness); pre- and post- development grades on all slopes

PROPOSED CONDITIONS PLANS (continued)

- ☒ Construction Equipment access routes and storage/parking areas during proposed work
- ☒ Construction Details, including cross-sections and elevations of drainage structures (including but not limited to catch basins, leaching basins, dry wells, swales, retention areas, ditches, etc.) and road crossings in wetland resource areas
- ☒ Above-Ground Alterations: All on-site structures, roadways, access ways, stone walls, fences, and all other physical alterations proposed in the buffer zone; location and elevation of lowest floor of all structures; identify roadway or surface material proposed
- ☒ Below-ground Alterations: All on-site below-ground alterations and structures in the buffer zone, including but not limited to utility lines, drainage structures, septic systems, cesspools, wells, tanks
- N/A ☐ Drainage Patterns: Existing natural drainage patterns and proposed alterations
- N/A ☐ Distance of proposed on-site leaching facility to wetlands or other resource areas
- ☒ Distance of proposed alteration to wetlands or other resource areas
- ☒ Wells: Location of all existing and proposed wells on property and within 200 feet of project on abutting properties, and minimum distance to all septic systems

DOCUMENT SUBMISSION DEADLINES

NOI Application:
All documentation (including plans, maps, tables, charts, reports, etc.) to be considered as part of an applicant's permit filing must be submitted to the Commission by the application deadline, as posted in the Conservation Office in Town Hall and on the Commission's website. Application forms, instructions and deadlines can all be downloaded on the Commission's website:
http://www.foxboroughma.gov/Pages/FoxboroughMA_Conservation/index

Continued Hearing Submissions:
All document and plan revisions must be received *by the Conservation Department* ***at least four business days before a scheduled (continued) hearing date****.*

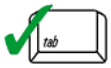
Four days is the minimum time needed to allow the Conservation Commission and Conservation Manager to properly review and analyze new submissions. Documents that are not submitted at least four business days before the date of a continued hearing may be excluded from consideration during that hearing and held for discussion during a future Conservation Commission meeting.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

A. Introduction

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



A Stormwater Report must be submitted with the Notice of Intent permit application to document compliance with the Stormwater Management Standards. The following checklist is NOT a substitute for the Stormwater Report (which should provide more substantive and detailed information) but is offered here as a tool to help the applicant organize their Stormwater Management documentation for their Report and for the reviewer to assess this information in a consistent format. As noted in the Checklist, the Stormwater Report must contain the engineering computations and supporting information set forth in Volume 3 of the Massachusetts Stormwater Handbook. The Stormwater Report must be prepared and certified by a Registered Professional Engineer (RPE) licensed in the Commonwealth.

The Stormwater Report must include:

- The Stormwater Checklist completed and stamped by a Registered Professional Engineer (see page 2) that certifies that the Stormwater Report contains all required submittals.[1] This Checklist is to be used as the cover for the completed Stormwater Report.
- Applicant/Project Name
- Project Address
- Name of Firm and Registered Professional Engineer that prepared the Report
- Long-Term Pollution Prevention Plan required by Standards 4-6
- Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan required by Standard 8[2]
- Operation and Maintenance Plan required by Standard 9

In addition to all plans and supporting information, the Stormwater Report must include a brief narrative describing stormwater management practices, including environmentally sensitive site design and LID techniques, along with a diagram depicting runoff through the proposed BMP treatment train. Plans are required to show existing and proposed conditions, identify all wetland resource areas, NRCS soil types, critical areas, Land Uses with Higher Potential Pollutant Loads (LUHPPL), and any areas on the site where infiltration rate is greater than 2.4 inches per hour. The Plans shall identify the drainage areas for both existing and proposed conditions at a scale that enables verification of supporting calculations.

As noted in the Checklist, the Stormwater Management Report shall document compliance with each of the Stormwater Management Standards as provided in the Massachusetts Stormwater Handbook. The soils evaluation and calculations shall be done using the methodologies set forth in Volume 3 of the Massachusetts Stormwater Handbook.

To ensure that the Stormwater Report is complete, applicants are required to fill in the Stormwater Report Checklist by checking the box to indicate that the specified information has been included in the Stormwater Report. If any of the information specified in the checklist has not been submitted, the applicant must provide an explanation. The completed Stormwater Report Checklist and Certification must be submitted with the Stormwater Report.

[1] The Stormwater Report may also include the Illicit Discharge Compliance Statement required by Standard 10. If not included in the Stormwater Report, the Illicit Discharge Compliance Statement must be submitted prior to the discharge of stormwater runoff to the post-construction best management practices.

[2] For some complex projects, it may not be possible to include the Construction Period Erosion and Sedimentation Control Plan in the Stormwater Report. In that event, the issuing authority has the discretion to issue an Order of Conditions that approves the project and includes a condition requiring the proponent to submit the Construction Period Erosion and Sedimentation Control Plan before commencing any land disturbance activity on the site.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands Program

Checklist for Stormwater Report

B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

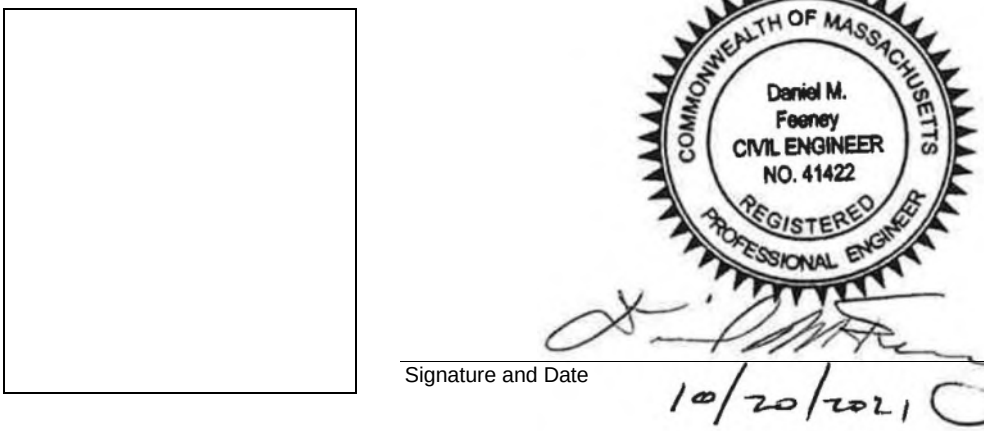
Note: Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



Signature and Date

Checklist

Project Type: Is the application for new development, redevelopment, or a mix of new and redevelopment?

☐ New development

☒ Redevelopment

☐ Mix of New Development and Redevelopment

Checklist for Stormwater Report

Checklist (continued)

LID Measures: Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- ☐ No disturbance to any Wetland Resource Areas
- ☐ Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- ☐ Reduced Impervious Area (Redevelopment Only)
- ☒ Minimizing disturbance to existing trees and shrubs
- ☐ LID Site Design Credit Requested:
  - ☐ Credit 1
  - ☐ Credit 2
  - ☐ Credit 3
- ☒ Use of “country drainage” versus curb and gutter conveyance and pipe
- ☐ Bioretention Cells (includes Rain Gardens)
- ☐ Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- ☐ Treebox Filter
- ☐ Water Quality Swale
- ☐ Grass Channel
- ☐ Green Roof
- ☐ Other (describe): _____

Standard 1: No New Untreated Discharges

- ☒ No new untreated discharges
- ☐ Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- ☐ Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.

Checklist for Stormwater Report

Checklist (continued)

Standard 2: Peak Rate Attenuation

☐ Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.

☐ Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.

☐ Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

Standard 3: Recharge

☐ Soil Analysis provided.

☐ Required Recharge Volume calculation provided.

☐ Required Recharge volume reduced through use of the LID site Design Credits.

☐ Sizing the infiltration, BMPs is based on the following method: Check the method used.

☐ Static ☐ Simple Dynamic ☐ Dynamic Field[1]

☐ Runoff from all impervious areas at the site discharging to the infiltration BMP.

☐ Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.

☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume.

☐ Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:

☐ Site is comprised solely of C and D soils and/or bedrock at the land surface

☐ M.G.L. c. 21E sites pursuant to 310 CMR 40.0000

☐ Solid Waste Landfill pursuant to 310 CMR 19.000

☐ Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.

☐ Calculations showing that the infiltration BMPs will drain in 72 hours are provided.

☐ Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

[1] 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.

Checklist for Stormwater Report

Checklist (continued)

Standard 3: Recharge (continued)

☐ The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.

☐ Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
- Provisions for storing materials and waste products inside or under cover;
- Vehicle washing controls;
- Requirements for routine inspections and maintenance of stormwater BMPs;
- Spill prevention and response plans;
- Provisions for maintenance of lawns, gardens, and other landscaped areas;
- Requirements for storage and use of fertilizers, herbicides, and pesticides;
- Pet waste management provisions;
- Provisions for operation and management of septic systems;
- Provisions for solid waste management;
- Snow disposal and plowing plans relative to Wetland Resource Areas;
- Winter Road Salt and/or Sand Use and Storage restrictions;
- Street sweeping schedules;
- Provisions for prevention of illicit discharges to the stormwater management system;
- Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
- Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
- List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.

☐ A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.

☐ Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:

- ☐ is within the Zone II or Interim Wellhead Protection Area
- ☐ is near or to other critical areas
- ☐ is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
- ☐ involves runoff from land uses with higher potential pollutant loads.

☐ The Required Water Quality Volume is reduced through use of the LID site Design Credits.

☐ Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.

Checklist for Stormwater Report

Checklist (continued)

Standard 4: Water Quality (continued)

☐ The BMP is sized (and calculations provided) based on:

- ☐ The ½" or 1" Water Quality Volume or
- ☐ The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.

☐ The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.

☐ A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

☐ The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.

☐ The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted ***prior to*** the discharge of stormwater to the post-construction stormwater BMPs.

☐ The NPDES Multi-Sector General Permit does ***not*** cover the land use.

☐ LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.

☐ All exposure has been eliminated.

☐ All exposure has ***not*** been eliminated and all BMPs selected are on MassDEP LUHPPL list.

☐ The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

Standard 6: Critical Areas

☐ The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.

☐ Critical areas and BMPs are identified in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

☒ The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:

- ☐ Limited Project
- ☐ Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
- ☐ Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
- ☐ Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
- ☐ Bike Path and/or Foot Path
- ☐ Redevelopment Project
- ☒ Redevelopment portion of mix of new and redevelopment.

☐ Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.

☐ The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
- Construction Period Operation and Maintenance Plan;
- Names of Persons or Entity Responsible for Plan Compliance;
- Construction Period Pollution Prevention Measures;
- Erosion and Sedimentation Control Plan Drawings;
- Detail drawings and specifications for erosion control BMPs, including sizing calculations;
- Vegetation Planning;
- Site Development Plan;
- Construction Sequencing Plan;
- Sequencing of Erosion and Sedimentation Controls;
- Operation and Maintenance of Erosion and Sedimentation Controls;
- Inspection Schedule;
- Maintenance Schedule;
- Inspection and Maintenance Log Form.

☐ A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.

Checklist for Stormwater Report

Checklist (continued)

Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

☐ The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has ***not*** been included in the Stormwater Report but will be submitted ***before*** land disturbance begins.

☐ The project is ***not*** covered by a NPDES Construction General Permit.

☐ The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.

☒ The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

Standard 9: Operation and Maintenance Plan

☐ The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:

- ☐ Name of the stormwater management system owners;
- ☐ Party responsible for operation and maintenance;
- ☐ Schedule for implementation of routine and non-routine maintenance tasks;
- ☐ Plan showing the location of all stormwater BMPs maintenance access areas;
- ☐ Description and delineation of public safety features;
- ☐ Estimated operation and maintenance budget; and
- ☐ Operation and Maintenance Log Form.

☐ The responsible party is ***not*** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:

- ☐ A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
- ☐ A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

Standard 10: Prohibition of Illicit Discharges

☐ The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;

☐ An Illicit Discharge Compliance Statement is attached;

☒ NO Illicit Discharge Compliance Statement is attached but will be submitted ***prior to*** the discharge of any stormwater to post-construction BMPs.

Section 2.0
Project Narrative

2.0 PROJECT NARRATIVE

2.1 Introduction

The Foxborough Country Club is seeking an Order of Conditions (OOC) to perform restoration activities within and proximate to wetland resource areas. The Property (Map 145, Lot 27) spans approximately 200 acres. The Project includes multiple components, including the removal of accumulated sediment within one of the ponds, restoration of an eroding bank, replacing a damaged headwall with a new stream crossing, and site grading to improved drainage within this portion of the Property.

Sediment removal activities will involve removing less than 100 cubic yards of accumulated material within LUWW/LUWBW as depicted on the enclosed plans. The Applicant has the ability to manipulate the hydrology of this pond in such a way as this work can be performed in the dry and with appropriate best management practices to minimize the risk of any downstream turbidity.

With respect to the eroding Bank, the Applicant is proposing to reset and armor the Bank with stones in a similar fashion to that which is bounding the pond to the south. Stones will be strategically arranged in a meandering pattern which will result in an increase in the total amount of Bank on-locus when compared to that of pre-project conditions.

Selective grading shall be performed surrounding Hole 16 as shown on the enclosed plans. Although this will occur within the 100-foot Buffer Zone and 25-foot No Activity Zone, the temporary changes shall improve drainage conditions within the area.

The Project will require direct access to wetland resource areas and their associated 100-foot Buffer Zone and 25-foot No Activity Zone administered under the Act and Bylaw. Specifically, the Applicant is seeking permission to temporarily impact approximately 330 linear feet of Bank and approximately 6,350 square feet of LUWW/LUWBW to move forward with the Project.

2.2 Existing Conditions

The Project Site is the area is in the vicinity of Hole 16 in the southeast corner of the Club as noted below. This area is bounded by forested cover to the south and east. Turf and other landscaping occupy the interior of the Project Site. A pond and intermittent stream complex which flows north to south is central to the Project Site as detailed on the enclosed plans.

Site Locus: Area of proposed work in red circle

Hydrology associated with the ponds and streams of Hole 16 is influenced by offsite drainage, and the Applicant can utilize flashboards to deter flow patterns to ensure that work described herein is completed under dry conditions.


Left Photograph: View facing south of existing undersized culvert and subject pond.
Right Photograph: Close up of existing crossing and Bank facing east.
Photographs dated July 2, 2021.

Based on the 15th Edition Priority Habitat Atlas (effective August 1, 2021), no portion of the Property are mapped by the MA Natural Heritage and Endangered Species Program as being within Estimated Habitats of Rare Wildlife or Priority Habitats of Rare Species. Although a Potential Vernal Pool is approximated within the Property by NHESP (PVP No. 8022), no potential vernal pools or certified vernal pools are mapped within the Project Site.

2.2.1 Wetland Resource Area Defined by 310 CMR 10.00

Multiple wetland resource areas defined by the Act are located within or bounding the Project Site. These resource areas are described below. Where a separate local jurisdiction section is not included herein, it is due to fact that Bank and BVW are both subject to regulation under the WPA and Bylaw.

Bank (310 CMR 10.54)

Solid blue flags labeled BF-B1 through BF-B4, BF-C1 through BF-C4, BF-D1 through BF-D4, and BF-E1 through BF-E4 delineates the Bank of intermittent streams associated with the subject Pond. The BF-B and C Series stream flows out of the WF-A Series BVW proximate to flag WF-A19 and A20 and into the Pond. The BF-C and BF-D Series intermittent stream flows out of the pond and into the BVW complex to the southeast.

In addition to the intermittent streams, Bank surrounds the pond area and extends off-site to the North where it connects to a stream which flows beneath an existing gravel cart path. The portion of Bank which is subject to this restoration and enhancement effort is the easterly Bank of the pond to the north of flag BF-D1.


View of southwest and southeast, respectively, intermittent stream Banks. July 2, 2021.


View facing north and southeast, respectively, of Bank subject to proposed restoration. July 2, 2021.

Bordering Vegetated Wetland (310 CMR 10.55)

Pink and black-striped flagging labeled WF-A1 through WF-A30 delineates a BVW surrounding the Hole 16 fairway. This BVW is hydrologically associated with the pond and intermittent stream complex within the Project Site. This BVW is vegetated with sweet pepperbush (*Clethra alnifolia*), red maple (*Acer rubrum*), red oak (*Quercus rubra*), poison ivy (*Toxicodendron radicans*), arrowwood (*Viburnum dentatum*), sensitive fern (*Onoclea sensibilis*), royal fern (*Osmunda spectabilis*), and common rush (*Juncus effusus*), among other species. Hydric soil conditions within this wetland are exhibited through a depleted mineral horizon (Bg) beneath an organic layer (Oa/A).

Sample of vegetative cover within WF-A Series BVW. July 2, 2021.

Sample hydric soil conditions within WF-A Series BVW from auger pulls. July 2, 2021.

Sample stream connectivity to BVW. July 2, 2021.

Land Under Water Bodies and Waterways (310 CMR 10.56)

LUWW/LUWBW is present within the intermittent streams and pond within the Project site. With respect to the Pond, this LUWW/LUWBW is subject to sediment accumulation from the eroding Bank which is one of the key components of this NOI filing. The level of water and inundation within the on-site LUWW/LUWBW varies based on seasonal conditions as photographed below.

Left Photograph: View of LUWW/LUWBW within pond during inundation. July 2, 2021.
Right Photograph: View of LUWW/LUWBW within pond during dry season. Sept. 16, 2020.

Buffer Zone

The WPA applies a 100-foot Buffer Zone to BVW and Bank. This 100-foot Buffer Zone is largely comprised of turf associated with the historic use of the fairway. Where woody vegetation, vines, and herbaceous growth is present, this Buffer Zone is generally vegetated with glossy false buckthorn (*Rhamnus frangula*), Virginia creeper (*Parthenocissus quinquefolia*), dewberry (*Rubus hispidus*), path rush (*Juncus tenuis*), wrinkle-leaf goldenrod (*Solidago rugosa*), black cherry (*Prunus serotina*), and whorled loosestrife (*Lysimachia quadrifolia*), among other species.

Samples of vegetated 100-foot Buffer Zone. July 2, 2021.

2.2.2 25-foot No Activity Zone Defined by the Bylaw

In addition to the previously described resource areas, the Foxborough Wetlands Protection Bylaw also maintains a 25-foot No Activity Zone to the above-described BVW and Bank (Section 267-8). Due to the location-dependent nature of Project, the Applicant respectfully requests a waiver to the 25-foot No Activity Zone to enable the proposed Bank restoration activities and the removal of accumulated sediment within the LUWW/LUWBW. Once the Project has concluded, the 25-foot No Activity Zone will resemble its pre-project conditions with the only visible change being to the resource areas themselves as outlined herein.

2.3 Proposed Conditions

The Applicant is proposing a restoration and fortification effort with respect to the existing pond and its associated resource areas (Bank and LUWW/LUWBW) within the fairway of Hole 16. This effort will involve the removal of accumulated sediment occurring from Bank erosion within the footprint of the pond itself. Additionally, the Applicant is proposing to install stones of varying sizes along the eastern Bank of the pond where the erosion has been observed to occur.

In addition to the Bank fortification and sediment removal activities, the Applicant is proposing to replace the existing stream crossing and perform selective grading surrounding Hole 16 to improve drainage.

Pond Sediment Removal

The Applicant is proposing to remove accumulated sediment within the footprint of the Pond (interior of the Bank). This removal effort will result in an increase in pond depth between six to eighteen (6-18) inches depending on location and background characteristics.

Please refer to the site plans for the proposed finished grades of the pond to result from this sediment removal.

All work within the LUWW/LUWBW associated with the pond shall be performed in dry conditions or when water is drawn down as part of typical maintenance activities within the golf course. The Applicant anticipates that this effort will result in the removal of less than 100 cubic yards of sediment with a footprint resulting in approximately 6,350 square feet of temporary impact within the LUWW/LUWBW. The Applicant further notes that these LUWW/LUWBW impacts are temporary in nature and this resource area will continue to function in a manner that is similar to its pre-project conditions upon competition of the sediment removal.

All spoils (excavated material) generated from the sediment removal process will be stored on-site and outside of jurisdictional resource areas and their buffer zones. This excess sediment is anticipated to be repurposed throughout the Property as part of the ongoing maintenance of the fairways.

Sample LUWW/LUWBW with accumulated sediment facing south. Sept. 16, 2020.

Bank Fortification

The Applicant is proposing to fortify the eroding Bank along the eastern side of the pond with stones. These stones will be selectively placed along the Bank in a similar arrangement to that of the existing stone-lined Bank to the south. The Applicant selected the strategic placement of stones along the Bank as it will preserve the aesthetic and habitat functions of the Bank than would installing a retaining wall or other hard infrastructure solution.

In total, the Applicant is seeking permission to temporarily impact approximately 330 linear feet of Bank as defined on the site plans. Please refer to the below photographs for representative samples of the stone-lined Bank to the south which the Project is intended to mimic.


Left Photograph: View facing east of existing stone-lined portion of Bank. July 2, 2021.
Right Photograph: View facing north of Bank subject of Application. July 2, 2021.

Selective Site Grading

The Applicant is proposing to perform grading activities surrounding Hole 16 and the pond to improve drainage conditions and directing flow to the southwest for the purposes of alleviating overland flow on the eroding pond Bank. Once completed, the graded areas shall resemble their pre-project conditions in the form of areas maintained as turf.

Culvert Upgrade

The Applicant is proposing to remove an existing undersized stream crossing to improve pedestrian safety and flow conditions within the course. In its current conditions, the crossing takes the form of a gravel access road, underlying culvert, and partial wooden headwall. As denoted on the plan, this culvert is an approximate 15" reinforced concrete pipe (RCP) between the two stream channels. As further denoted on the plan, the outlet of the culvert (elevation 258.42) is set slightly higher than the inlet (elevation 258.41), which may be contributing to the observed scouring.

In addition to the undersized nature of the RCP culvert, the easterly wooden headwall appears to be breaking down in the field which has presented a concern for safety. This proposal seeks to remove these existing features and replace them with an open-bottom span bridge, a design which will promote stream connectivity and improve conditions of the existing Bank and LUWW/LUWBW.


Both Photographs: Views of existing culvert and wooden headwall. July 2, 2021.

2.4 MA River and Stream Crossing Standards

The proposed replacement to the existing stream crossing has been designed in accordance with the goals of the MA River and Stream Crossing Standards (2011; 'the Standards'). The Applicant notes that the goals of facilitating fish and aquatic organism passage, promoting stream continuity, and enabling wildlife passage can be fulfilled in concert with the primary safety considerations for this replacement. As noted in the Standards, *culvert replacement and remediation generally offer the best opportunity for restoring continuity and long-term protection of river and stream ecosystems*. The following represents the Applicant's written responses to the applicable Culvert Replacement Project criteria of the Standards.

1. *Replacement culverts should meet the design guidelines for either general standards or optimal standards (see Standards for New Crossings above) unless:*
    - *Doing so would result in significant stream instability that can't otherwise be mitigated*
    - *Meeting the standards would create a flooding hazard that can't otherwise be mitigated*
    - *Site constraints make it impossible to meet the standards*

The Project has been designed to meet the General Standards and, where possible, the Optimal Standards for New Crossings. This is achieved through the use of an open-bottom timber bridge which will span the bankfull width of the stream at the required 1 to 1.2 ratio defined therein. Please see below for a chart documenting the Project's compliance with the Standards.

	General Standards	Optimal Standards	Project Design
Structure Type	Open-bottom span preferred	Bridge	Bridge Proposed
Embedment	If a culvert […]	N/A	Bridge Proposed
Crossing Span	Minimum 1.2 Bankfull Width	Minimum 1.2 Bankfull Width	Minimum 1.2 Bankfull Width Achieved
Substrate	Matches stream substrate	Matches stream substrate	Designed to match stream substrate
Water Depth & Velocity	Matches water depth & velocity in natural stream over a range of flows	Matches water depth & velocity in natural stream over a range of flows	The open-bottom design of the bridge will allow for depth and velocity similar to existing up and down-stream portions of the channel
Openness and height	▪ Openness: 0.82 ft.	▪ Conditions that inhibit wildlife passage over road ▪ Openness: 2.46 ft. (0.75 m) ▪ Height: 8 ft. (2.4 m) ▪ Otherwise ▪ Openness: 1.64 ft. (0.5 m) ▪ Height: 6 ft. (1.8 m)	The Project satisfies the general requirements for openness and is a significant improvement on the existing gravel road with underlying RCP pipe.
Banks	▪ On both sides of the stream ▪ Match the horizontal profile of the existing stream and banks ▪ Constructed so as not to hinder use by riverine wildlife	▪ On both sides of the stream ▪ Match the horizontal profile of the existing stream and banks ▪ Constructed so as not to hinder use by wildlife ▪ Sufficient headroom for wildlife	With an open-bottom timber bridge which spans the Bank, the Project satisfies the Optimal Standards by preserving both sides of the Bank, matching the horizontal profile, and providing sufficient headroom and space for wildlife passage.

2. If *it is not possible to meet all of the applicable standards, replacement crossings should be designed to avoid or mitigate the following problems.*
    - *Inlet drops*
    - *Outlet drops*
    - *Flow contraction that produces significant turbulence*
    - *Tailwater armoring*
    - *Tailwater scour pools*
    - *Physical barriers to fish and wildlife passage*

The Project has been designed to meet the applicable standards as tabulated above. The bridge design will help avoid inlet/outlet drops, flow contractions, and other adverse stream impacts which result from undersized crossings.

3. *If it is not possible to meet all of the applicable standards avoid Smooth High Density Polyethylene Pipes (HDPP) or other pipes with a Mannings n equal or less than 0.010.*

No HDPP or other piping will be necessary to enhance the stream crossing. The Applicant proposed to remove the existing 15-inch RCP culvert and replace with a timber span bridge.

4. *As indicated by long profiles, scour analyses and other methods, design the structure and include appropriate grade controls to ensure that the replacement will not destabilize the river/stream.*

The underlying substrate will be set to a similar gradient to convey flow under the span bridge and into the down-gradient pond. Although temporary Bank alterations will be required, the Bank will be re-set in a similar fashion to those of up and down-stream conditions. Stabilizing the Bank will involve the application of a seed mix as indicated on the enclosed plans.

5. *To the extent practicable conduct stream restoration upstream and/or downstream of the structure as needed to restore river/stream continuity and eliminate barriers to aquatic organism movement.*

Although selective armoring within the LUWW/LUWBW and easterly pond Bank will occur through the strategic placement of stones, no adverse impact to stream connectivity or aquatic organism movement is anticipated. Rather, the removal of accumulated sediment within the pond and the undersized RCP culvert is anticipated to result in a net improvement of mobility within the watercourse and waterbody by increasing capacity.

2.5 Impacts to State Wetland Resource Areas

The Project includes temporary impacts to Bank and LUWW/LUWBW for the purpose of upgrading the existing crossing into a timber bridge, selective site grading, removal of accumulated sediment, and armoring an existing Bank.

Bank (310 CMR 10.54)

Bank is a resource area is significant to public or private water supplies, groundwater supplies, flood control, storm damage prevention, prevention of pollution, protection of fisheries, and wildlife habitat. The Project intends to remove an existing crossing

and culvert structures and to restore the Bank in a manner that is similar to its pre-crossing conditions. A new timber span bridge will be erected over the Banks and the easterly Bank of the pond will be armored to mitigate erosional issues therein to reduce impacts to the greatest extent practicable as depicted in the following analysis of performance standards (310 CMR 10.54(4)(a-c).

(a) Where the presumption set forth in 310 CMR 10.54(3) is not overcome, any proposed work on a Bank shall not impair the following:

1. *the physical stability of the Bank;*
The proposed design shall neither hinder nor tax the physical stability of the Bank. Regarding the crossing, Bank will be restored to its pre-culverted condition with the removal of the existing features and the establishment of an open-bottom timber bridge. With respect to the pond Bank, the primary purpose of the stone armoring is to improve the physical stability which has been subject to erosion resulting from overland flow.

2. *the water carrying capacity of the existing channel within the Bank;*
The proposed timber bridge will improve the water-carrying capacity of the current channel. The current water carrying capacity is restricted to the existing 15-inch RCP culvert. Once the culvert is removed, the timber bridge will support a broader water-carrying capacity than that of pre-project conditions. With respect to the Bank armoring, stabilizing this feature with stone is not anticipated to impact the carrying capacity of the Pond.

3. *ground water and surface water quality;*
This Project is not anticipated to result in adverse impacts to groundwater or surface water quality, as appropriate sediment controls will be put in place prior to construction (i.e. straw wattles or silt socks, turbidity curtain, etc.).

4. *the capacity of the Bank to provide breeding habitat, escape cover and food for fisheries;*
The Project will result in an improved water carrying capacity by removing the existing constraints; therefore, this design will have a net positive effect on potential breeding habitat and escape cover.

5. *the capacity of the Bank to provide important wildlife habitat functions. 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 50 feet (whichever is less) of the length of the bank found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. In the case of a bank of a river or an intermittent stream, the impact shall be measured on each side of the stream or river. Additional alterations beyond the above threshold may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures contained in 310 CMR 10.60.

The temporary Bank disturbances proposed are those which are necessary to remove the undersized culvert and armor the Bank. Although this will result in over 50 linear feet of disturbance, these measures are temporary and represent a significant improvement over pre-project conditions in the context of wildlife habitat.

6. *Work on a stream crossing shall be presumed to meet the performance standard set forth in 310 CMR 10.54(4)(a) provided the work is performed in compliance with the Massachusetts Stream Crossing Standards by consisting of a span or embedded culvert in which, at a minimum, the bottom of a span structure or the upper surface of an embedded culvert is above the elevation of the top of the bank, and the structure spans the channel width by a minimum of 1.2 times the bankfull width. This presumption is rebuttable and may be overcome by the submittal of credible evidence from a competent source. Notwithstanding the requirement of 310 CMR 10.54(4)(a)5., the impact on bank caused by the installation of a stream crossing is exempt from the requirement to perform a habitat evaluation in accordance with the procedures contained in 310 CMR 10.60.*

   The Project has been designed in conformance with the Massachusetts Stream Crossing Standards. This is achieved through the use of a timber span bridge with no embedment structures. The timber bridge shall span the entire width of the stream by at least 1.2 times the bankfull width and will maintain an openness ratio as depicted on the site plans to promote wildlife passage. The substrate of the crossings shall be maintained as the natural streambed and the underlying stream will be allowed to maintain its pre-project depth and velocities uninhibited by this design.

   (b) Notwithstanding the provisions of 310 CMR 10.54(4)(a), structures may be permitted in or on a Bank when required to prevent flood damage to facilities, buildings and roads constructed prior to the

effective date of 310 CMR 10.51 through 10.60 […]
A primary purpose of this Project is to create a stream crossing that minimizes Bank impacts while removing and restoring the areas currently featuring the undersized culvert for safety and access purposes. No adverse impacts from flood damage are anticipated to result from this Project.

(c) Notwithstanding the provisions of 310 CMR 10.54(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of Rare Species, as identified by procedures established under 310 CMR 10.59.
The Site is not located within any areas of Estimated or Priority Habitat as mapped by the NHESP (2021, 15th Edition Atlas). This Project is not anticipated to adversely impact any specified habitat areas.

Land under water bodies and waterways (310 CMR 10.56)
The Project has been designed in conformance with the performance standards afforded to LUWW/LUWBW. The following is the Club's written response to these standards (310 CMR 10.56(4)(a-c).

(a) Where the presumption set forth in 310 CMR 10.56(3) is not overcome, any proposed work within Land under Water Bodies and Waterways shall not impair the following:

1. The water carrying capacity within the defined channel, which is provided by said land in conjunction with the banks;
The Project will not result in any adverse impacts of the LUWW/LUWBW's ability to provide water storage or the overall water-carrying capacity. Rather, the crossing component of this Project intends to restore this water-carrying capacity to its pre-culverted conditions to the extent practicable. With respect to the accumulated sediment within the pond, the temporary removal of material will increase the depth of the waterbody once the eroded material is extracted.

2. ground and surface water quality;
The Project is not anticipated to result in any adverse impacts to ground and surface water quality. Where applicable, appropriate erosion and sediment controls shall be deployed throughout the Site to prevent sedimentation of the resource areas.

3. The capacity of said land to provide breeding habitat, escape cover and food for fisheries; and

The Project will not impair the overall stream and pond's (including Bank and LUWW/LUWBW) ability to provide wildlife habitat values beyond that of its pre-project conditions. It is anticipated that wildlife will continue to utilize the land surrounding Hole 16 in a similar fashion with the exception that additional opportunities for stream travel will be provided through the removal of the 15-inch RCP culvert.

4. The capacity of said land to provide important wildlife habitat functions. 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 may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures established under 310 CMR 10.60.

The Project will not disturb 5,000 square feet or greater of LUWW/LUWBW. LUWW/LUWBW impacts are to be minimal and only those which are required to remove the existing crossing and accumulated sediment within the pond.

5. *Work on a stream crossing shall be presumed to meet the performance standard set forth in 310 CMR 10.56(4)(a) provided the work is performed in compliance with the Massachusetts Stream Crossing Standards* […]

As previously identified, this Project has been designed in conformance with the standards of the Massachusetts Stream Crossing Handbook through the use of a low impact timber span bridge.

(b) Notwithstanding the provisions of 310 CMR 10.56(4)(a), the issuing authority may issue an Order in accordance with M.G.L. c. 131, § 40 to maintain or improve boat channels within Land under Water Bodies and Waterways when said work is designed and carried out using the best practical measures so as to minimize adverse effects such as the suspension or transport of pollutants, increases in turbidity, the smothering of bottom organisms, the accumulation of pollutants by organisms or the destruction of fisheries habitat or nutrient source areas.

All LUWW/LUWBW-disturbing activities associated with the Project are those which are necessary to restore the Bank and Pond. The Applicant shall deploy

appropriate sediment controls (e.g., turbidity curtain, etc.) to minimize adverse impacts to LUWW/LUWBW to the greatest extent practicable.

(c) Notwithstanding the provisions of 310 CMR 10.56(4)(a) or (b), no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.
The Project shall not have any adverse impact on specific areas of rare vertebrate or invertebrate species as detailed herein.

2.6 Impacts to Municipal Resource Areas

2.6.1 Section 8(G) - Bank

Section 8(G) of the Regulations established municipal performance standards for Bank. These standards establish that *[p]roposed activities that may alter a bank shall not adversely affect the following:*

a. The stability of the bank;
The Primary goals for the Proposed Bank alterations are to armor the eroding slope and upgrade an undersized culvert. As such, these efforts are intended to have a net positive impact on the stability of the Bank.

b. The capacity of the channel to convey water;
Upgrading to an undersized culvert and armoring the eroded portion of the Bank are not anticipated to adversely impact the capacity of the channel to convey water. Rather, these improvements will help to preserve the carrying capacity of the channel.

c. Ground water and surface water quality;
The Project is not anticipated to result in any adverse impacts to ground water or surface water quality. Appropriate erosion and sediment controls shall be installed as noted on the enclosed plans to protect water quality.

d. The capacity of the bank to provide important fisheries, wildlife habitat, food, shelter, migratory, breeding, and overwintering areas; and
The current configuration of the Bank to be armored is such that it has been historically managed as turf which has eroded over time. The change from full turf to a mix of turf with strategically placed rocks shall not hinder important wildlife habitat functions of this resource area. Furthermore, these rocks will not be large enough so as to hinder wildlife movement throughout the Hole 16 area.

e. The function of the bank to recharge or discharge ground water.

2.6.2 Section 8(I) - Land Under Water Bodies and Waterways

Section 8(I) of the Regulations establishes performance standards for LUWBW, including the following:

a. The water carrying capacity within the defined channel, which is provided by said land in conjunction with the banks;
The water carrying capacity of the pond and associated intermittent stream will be improved by this Project.

b. Ground and surface water quality;
Surface water quality surrounding the Hole 16 area is anticipated to be improved by the Project. Not only is the Applicant proposing to remove accumulated sediment from the pond, but a primary purpose of this design is to improve upon the existing grades to reduce erosion in the long-term and to upgrade an undersized culvert.

c. The capacity of said land to provide breeding habitat, escape cover and food for fisheries; and
Removing accumulated sediment from the waterbody is not anticipated to result in adverse impacts to breeding habitat, escape cover, or food for fisheries.

d. The capacity of said land to provide important wildlife habitat functions
The Project is anticipated to improve wildlife habitat functions of the LUWBW in that it will remove accumulated sediment within the pond and thus improve conditions for aquatic and semi-aquatic organisms.

2.6.3 Section 8(L) - Intermittent Streams

Section 8(L) of the Regulations establishes a performance standard with respect to intermitting streams, noting that *[n]o project shall impair the water quality or water carrying capacity of any stream channel or the capacity of the stream to provide important wildlife habitat functions, protection of groundwater, flood control, and storm damage prevention.*
The Project will not impair the water quality or water carrying capacity of the stream. Rather, this proposal seeks to armor an eroding Bank and make improvements to the associated pond to mitigate the impacts from existing and potential erosion. Similarly, this design is not anticipated to result in any adverse impacts to wildlife habitat functions, to the protection of groundwater, flood control, or storm damage prevention.

2.6.4 Section 8(N) – Buffer Zones

Section 8(N) of the Regulations provides performance standards for work within the 100-foot Buffer Zone, stating that *the Commission will carefully examine any proposals for work in the buffer zone to determine potential impact on the resource areas and, the values of the Bylaw, and how the applicant has designed the project to avoid adverse impacts. Work permitted in the buffer zone shall be in accordance with the following standards:*

a. No activity is permitted within twenty-five (25) feet of the edge of any bordering vegetated wetland or bank of any creek, river, stream, brook, pond or lake (25-Foot No Activity Zone).
The Project goals directly involve resource area enhancement and therefore require direct access to the Bank and LUWBW. Additionally, minor grading of the surrounding turf will be required to improve drainage and redirect overland flow away from the more vulnerable portion of the Bank.

b. No activity within one hundred (100) feet of a vernal pool or isolated wetland that is listed as habitat for a state listed species (Vernal Pool No Activity Zone and State Listed Species No Activity Zone).
The Project does require work within 100 feet of a vernal pool or isolated wetland mapped within the 15th Edition Priority Habitat Atlas. The removal of accumulated sediment within the associated pond is anticipated to improve wildlife habitat within the Project Site.

c. To ensure that there will be no encroachments into the buffer zones by the applicant or future owners of the property, the Commission may require the boundary of the buffer zones to be marked on the ground with permanent markers at the applicant's expense. Markers may be stone or concrete bounds, metal pipes or rods, trees, shrubs or other structures, the material, size and location of which shall be approved by the Commission.
The Buffer Zone will closely resemble its pre-project conditions as managed turf once the Project concludes. Changes in grading within the Buffer Zone are those which are necessary to improve the overall drainage of the area and will not result in the net loss of any vegetated portion of this area. As such, the Applicant maintains that the addition of Buffer Zone monumentation is not necessary for this Project.

2.7 Alternatives Analysis

In accordance with Section 8(C) of the Bylaw's implementing regulations, the Applicant has evaluating alternative project scenarios consistent with the project goals. These alternatives are as listed below.

1. Maintain Existing Conditions: The Applicant has considered the viability of maintaining the Hole 16 Area in its pre-project conditions. This is not the preferred path due to the observed Bank erosion and accumulation of sediment within the pond. Further, the culvert has deteriorated to a point that streamflow can be restricted and the condition of the cart path has become a safety concern. Maintaining this portion of the Property 'as is' will not mitigate these erosive issues impacting the resource areas.

2. Alternate Bank and LUWW/LUWBW/LUWBW Locations: The Applicant has considered alternate portions of the Bank, LUWW/LUWBW/LUWBW, and Buffer Zone for the Project. However, the work contemplated herein is location dependent in that it seeks to rectify erosional issues by armoring a specific portion of Bank, upgrading an undersized and aged culvert, and improving drainage conditions within the Buffer Zone. Therefore, alternate portions of the resource areas are not viable for the scope of the Project.

3. Non-Jurisdictional Upland Alternative: The Applicant has also considered confining the Project to the non-jurisdictional upland within the Property. However, due to the fact that the Project's goals require direct access to the Bank and LUWW/LUWBW/LUWBW, this alternative is not feasible.

4. Preferred Alternative: This project has been considered and prioritized by the Club as it accomplishes the goals of improvements to the area with the least amount of impact to the resource areas and buffer zones. Iterative designs have been discussed with B+T, Club personnel and a notable golf course architect to achieve a thoughtful design for this preferred alternative.

2.8 Interests of the Massachusetts Wetlands Protection Act and the Bylaw

The following is a discussion of the relationship of the project site to the interests of the Massachusetts Wetlands Protection Act (Act) as defined by 310 CMR 10.01(2) and the Bylaw, as defined by Chapter 267. Wetlands Protection.

2.8.1 Protection of Public and Private Water Supply and Ground Water Supply

Although portions of the Property lie within a Zone II Wellhead Protection Area, no work associated with this Project will occur within a Zone II. Additionally, given the limited restoration and grading focus of the design, the Project is expected to result in a new benefit to the water quality of the site in that it is anticipated to alleviate sediment loads within the pond and stream

complex. Therefore, the public and private water supply and groundwater supply protection interests of the Act and Bylaw will be upheld.

2.8.2 Flood Control and Storm Damage Prevention

The Project will not result in any disturbance to mapped flood zones nor it is anticipated to hinder or tax the flood-storage capacity of the pond, stream, or adjacent BVW. Rather, removing the accumulated sediment within the pond will increase its water-holding capacity. As such, the flood control and storm damage prevention interest of the act and Bylaw will be maintained.

2.8.3 Prevention of Pollution and Erosion Control

Appropriate erosion and sediment control measures will be installed along the authorized limit of work as depicted in the enclosed plans. Regarding the in-water work, turbidity curtains or other appropriate in-water BMP shall be utilized as needed to protect downstream conditions. Therefore, the pollution prevention and erosion control interests of the Act and Bylaw will be upheld.

2.8.4 Protection of Fisheries, Shellfisheries and Wildlife Habitat

No portion of the Project Site is mapped within Priority Habitat of Rare Species or Estimated Habitats of Rare Wildlife based on the most recent NHESP Atlas (effective August 1, 2021). However, the Applicant notes that the Project will result in a net improvement to the wildlife habitat of the pond and stream crossing in that greater continuity and removal of sediment and other obstructions (i.e., the RCP culvert) will occur. As such, the Project has been designed to uphold the fisheries, shellfisheries and wildlife habitat interest of the Act.

2.8.5 Preservation of Open Space and Recreational Values

In addition to the statutory interest of the Act, Section 1.9 of the Bylaw's implementing regulations include the preservation of open space and recreational values as resource area values protected by the Bylaw. The removal of accumulated sediment and fortification of the Bank with stones will have a direct positive impact on the recreational functions of the Project Site. Increasing the depth of the pond and fortifying the Bank with rocks will not disrupt the open space or recreational values of this wetland complex. Rather, this permitting endeavor is anticipated to stabilize the erosive conditions of this landscape and enhance the overall recreational experience of Hole 16. Similarly, no adverse impacts to the open space or recreational values will result from upgrading a deteriorating and undersized culvert with a span bridge or improving the drainage patterns of the turf grass.

2.9 Summary

The Foxborough Country Club respectfully requests permission in the form of an OOC to perform restoration activities within and proximate to wetland resource areas. The Project includes multiple components, including the removal of accumulated sediment within one of the ponds, restoration of an eroding bank, replacing a aged and undersized culvert with a span bridge designed to meet the MA stream crossing standards, and site grading to improved drainage within this portion of the Property.

Section 3.0
Abutter Information

Certified List of Abutters
Affidavit of Service
Notification to Abutters

AFFIDAVIT OF SERVICE

I, Andrew Gorman, hereby certify under the pains and penalties of perjury that, on November 11, 2021, I gave Notification to Abutters in compliance with the second paragraph of the Massachusetts General Laws, Chapter 131, Section 40 and the DEP Guide to Abutter Notification in connection with the following matter:

> A Notice of Intent application will be filed under the Massachusetts Wetlands Protection Act and the Foxborough Wetlands Protection Bylaw, Chapter 267 *(formerly Article IX)* with the Foxborough Conservation Commission by the Foxborough Country Club on November 15, 2021 for the property located at 33 Walnut Street *(address)*, Foxborough, Massachusetts (Assessor's map 145, parcel(s) 027).

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

Andrew Gorman

Signature

November 11, 2021

Date

NOTIFICATION TO ABUTTERS

Under the
Massachusetts Wetlands Protection Act &
Chapter 267, Wetland Protection Code of Foxborough

(This form must be completed and mailed, certified mail return receipt requested, to all abutters within 100 feet of the proposed project's activity.)

In accordance with the second paragraph of Massachusetts Wetlands Protection Act (G.L. Ch. 131, §40), and §10.05 of 310 CMR 10.00, and Chapter 267, the Wetland Protection Code of Foxborough *(formerly Article IX)* and regulations, you are hereby notified of a public hearing on the matter described below:

A. The applicant has filed a Notice of Intent with the Foxborough Conservation Commission for proposed work within areas subject to protection under the Wetlands Protection Act and the Wetland Protection Code of Foxborough.

B. The name of the applicant is The Foxborough Country Club

C. The address of the land where the activity is proposed is 33 Walnut Street, Foxborough.

D. Copies of the Notice of Intent may be examined at the Conservation Commission's office, 40 South Street, Foxborough Town Hall, between 9 am and 4 pm, Monday through Thursday.

E. Copies of the Notice of Intent may be obtained from either *(check one)* the ☐ applicant or the ☒ applicant's representative Beals and Thomas, Inc. by calling 508-366-0560 from *[times]* 9:00 am- 5:00 pm on *[days]* Monday through Friday.

F. Information regarding the date, time and place of the public hearing may be obtained from either *(check one)* the ☐ applicant or the ☒ applicant's representative Beals and Thomas, Inc. by calling 508-366-0560 from *[times]* 9:00 am- 5:00 pm on *[days]* Monday through Friday.

Please Note: Notice of the public hearing, including date, time and place, will be published at least five business days in advance in The Foxboro Reporter and will be posted in the Town Hall and on the Town's website at least 48 hours in advance.

Conservation Commission meeting agendas may be viewed online at:
http://www.foxboroughma.gov/Pages/FoxboroughMA_ConsAgendas/

For additional information about this application or the Wetland Protection Code of Foxborough, please contact the Foxborough Conservation Commission at 508-543-1251 or visit: www.foxboroughma.gov/conservation

For more information about this application or the Wetlands Protection Act, please contact the Department of Environmental Protection (DEP) Southeast Regional Office (Lakeville) at 508-946-2836.

Section 4.0
Wetland Boundary Documentation

MassDEP Transect Forms

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

Applicant: Foxborough Country Club Prepared by: Andrew Gorman, Beals and Thomas, Inc. Project location: 33 Walnut Street, Foxborough, MA DEP File #:

Check all that apply:

☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only

☑ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II

☐ Method other than dominance test used (attach additional information)

Section I.

Layer	Vegetation	Observation Plot Number: UPL		Transect Number: WF-A7	Date of Delineation: 7/2/2021
	A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Herbaceous/ Groundcover	Turf grass/*Poaceae* sp.	38%	55%	Yes	Varies
	Path rush/*Juncus tenuis*	20.5%	30%	Yes	FACU-
	W.L. goldenrod/*Solidago rugosa*	10.5%	15%	No	FAC*
Shrub	G. false buckthorn/*Rhamnus frangula*	10.5%	100%	Yes Yes	FAC*
Climbing Vines	Virginia creeper/*Parthenocissus quinquefolia*	10.5%	50%	Yes	FACU
	Swamp dewberry/*Rubus hispidus*	10.5%	50%	Yes	FACW
Tree	Black cherry/*Prunus serotina*	20.5%	100%	Yes	FACU

* *Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.*

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
title/date: Web Soil Survey Referenced
map number: Web Soil Survey Referenced
soil type mapped: Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony (791790)
hydric soil inclusions: Multiple (90%)

Are field observations consistent with soil survey? No

Remarks: Historically landscaped area predating the WPA.

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-4"	10YR 3/1	
Bw	4-12"	10YR 5/4	10YR 6/4
R	~12"	Rock restrictions	

Remarks:

3. Other:

Conclusion: Is soil hydric? No

Other Indicators of Hydrology: (check all that apply & 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 (streams, lake, or tidal gauge; aerial photo; other):_____
- ❑ **Other:**

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	____	X
Wetland hydrology present:		
Hydric soil 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.

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

Applicant: Foxborough Country Club Prepared by: Andrew Gorman, Beals and Thomas, Inc. Project location: 33 Walnut Street, Foxborough, MA DEP File #:

Check all that apply:

☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only

☑ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II

☐ Method other than dominance test used (attach additional information)

Section I.

Layer	Vegetation	Observation Plot Number: Wet		Transect Number: WF-A7	Date of Delineation: 7/2/2021
	A. Sample Layer & Plant Species (by common/scientific name)	B. Percent Cover (or basal Area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
Herbaceous/ Groundcover	Cinnamon fern/*Osmundastrum cinnamomeum*	10.5%	100%	Yes	FACW*
Shrub	Sweet pepperpush/*Clethra alnifolia* Arrowood/*Viburnum dentatum*	20.5% 10.5%	66% 34%	Yes Yes	FAC+* FAC*
Climbing Vines	Poison ivy/*Toxicodendron radicans*	10.5%	100%	Yes	FAC*
Tree	Red maple/*Acer rubrum* Red oak/*Quercus rubra*	20.5% 20.5%	50% 50%	Yes Yes	FAC* FACU

* *Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.*

Vegetation conclusion:

Number of dominant wetland indicator plants: 5 Number of dominant non-wetland indicator plants: 1

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
title/date: Web Soil Survey Referenced
map number: Web Soil Survey Referenced
soil type mapped: Ridgebury fine sandy loam, 3 to 8 percent slopes, extremely stony (791790)
hydric soil inclusions: Multiple (90%)

Are field observations consistent with soil survey? No

Remarks: Historically landscaped area predating the WPA.

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
Oi	0-16"	Well-decomposed bark mulch	
A	16-20"	10YR 2/1	
Bg	20-28"	10YR 6/2	
R	~28"	Rock restrictions	

Remarks:

3. Other:

Conclusion: Is soil hydric? Yes, depleted below A horizon.

Other Indicators of Hydrology: (check all that apply & 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 (streams, lake, or tidal gauge; aerial photo; other):_____
- ❑ **Other:**

Vegetation and Hydrology Conclusion

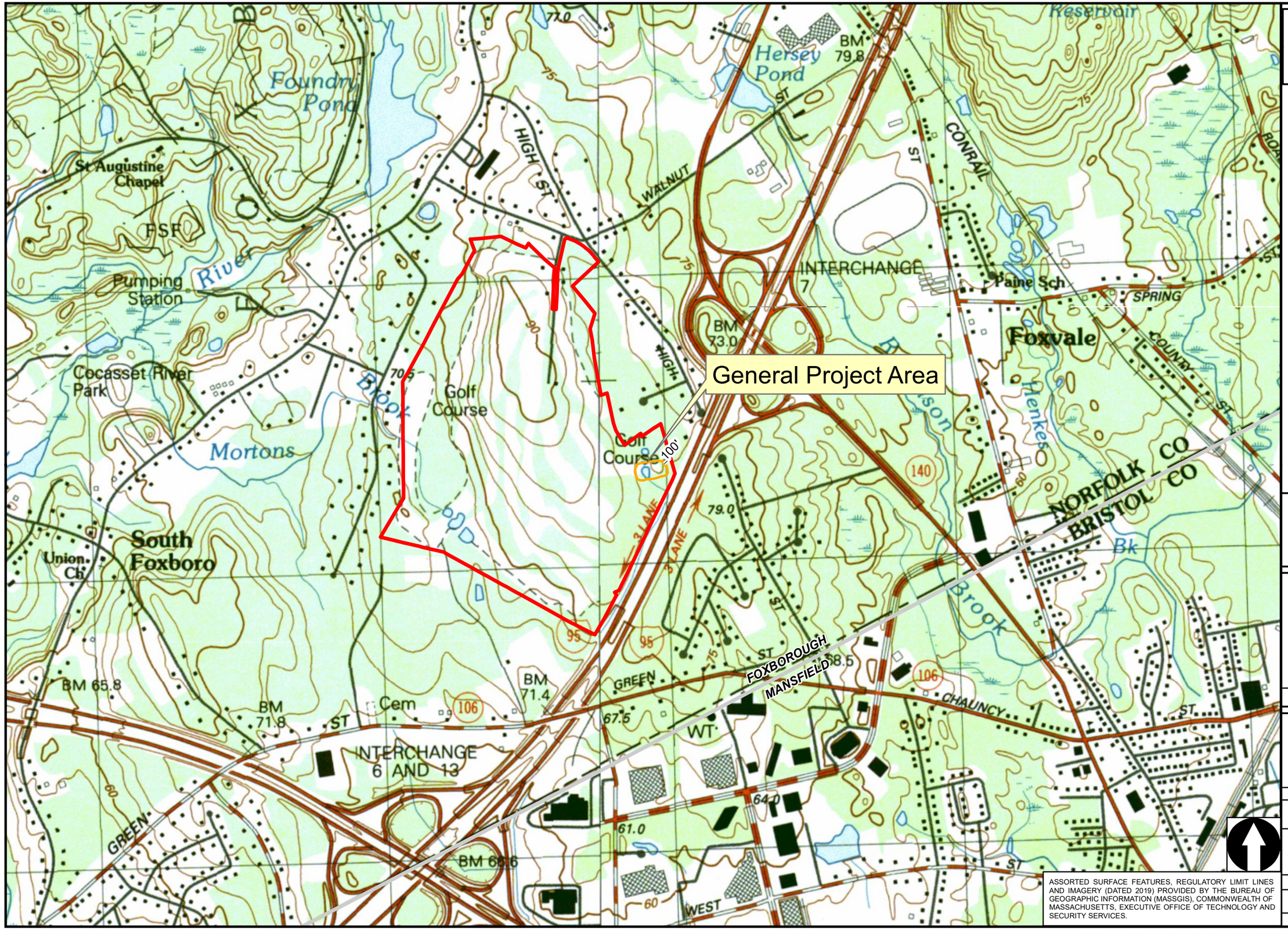
	Yes	No
Number of wetland indicator plants ≥ # of non-wetland indicator plants	X	
Wetland hydrology present:		
Hydric soil present	X	
Other indicators of hydrology present	X	
Sample location is in a BVW	X	

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

Section 5.0
Plans

Figure 1: USGS Topographic Map
Figure 2: Aerial Map

Site Plans Entitled: Hole 16 Improvements
Prepared by Beals and Thomas, Inc.
In 4 Sheets
Dated October 20, 2021



Legend

- Subject Property
- Town Line

PREPARED FOR:

FOXBOROUGH COUNTRY CLUB

33 WALNUT STREET
FOXBOROUGH, MA 02035

PREPARED BY:

B E A L S + T H O M A S
Civil Engineers | Landscape Architects | Land Surveyors | Planners | Environmental Specialists

BEALS AND THOMAS, INC.
144 Turnpike Road
Southborough, Massachusetts 01772
T 508.366.0560 | www.bealsandthomas.com

PROJECT:

Hole 16 Improvements

FOXBOROUGH, MASSACHUSETTS

SCALE: 1" = 100' DATE: OCTOBER 27, 2021

0 500 1,000 1,500
FEET

USGS Topographic Locus Map

ASSORTED SURFACE FEATURES, REGULATORY LIMIT LINES AND IMAGERY (DATED 2019) PROVIDED BY THE BUREAU OF GEOGRAPHIC INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS, EXECUTIVE OFFICE OF TECHNOLOGY AND SECURITY SERVICES.

B+T JOB NO. 3180.01

B+T PLAN NO. 318000P003B1

FIGURE 1

Legend

- Subject
- Town Line

PREPARED FOR:

FOXBOROUGH COUNTRY CLUB

33 WALNUT STREET
FOXBOROUGH, MA 02035

PREPARED BY:

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PROJECT:

Hole 16 Improvements

FOXBOROUGH, MASSACHUSETTS

SCALE: 1" = 100' DATE: OCTOBER 27, 2021

0 150 300 450
FEET

Aerial Photograph Exhibit

ASSORTED SURFACE FEATURES, REGULATORY LIMIT LINES AND IMAGERY (DATED 2019) PROVIDED BY THE BUREAU OF GEOGRAPHIC INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS, EXECUTIVE OFFICE OF TECHNOLOGY AND SECURITY SERVICES.

B+T JOB NO. 3180.01

B+T PLAN NO. 318000P003B1

FIGURE 2

HOLE 16 POND IMPROVEMENTS

IN

FOXBOROUGH, MASSACHUSETTS

(Norfolk County)

OWNER/APPLICANT

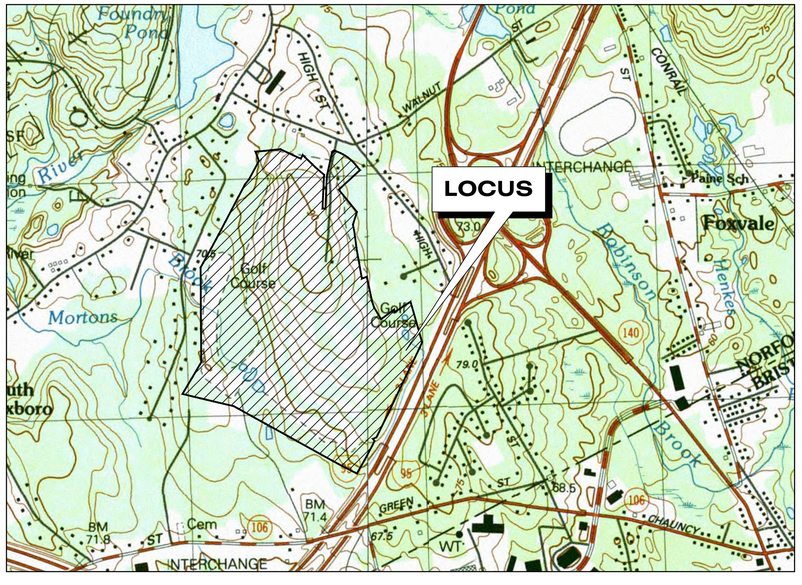
Members of the Foxborough Country Club
33 Walnut Street
Foxborough, Massachusetts 02035

CIVIL ENGINEER

Beals and Thomas, Inc.
Reservoir Corporate Center
144 Turnpike Road
Southborough, Massachusetts 01772

LAND SURVEYOR

Bay Colony Group, Inc.
4 School Street
P.O. Box 9136
Foxborough, Massachusetts 02035



Locus Map
Scale: 1" = 1000'

NORTH

SHEET INDEX

	Cover Sheet
1	Existing Conditions Plan (Bay Colony Group, Inc.)
C2.1	Site Preparation and Sedimentation Control Plan
C3.1	Site Plan

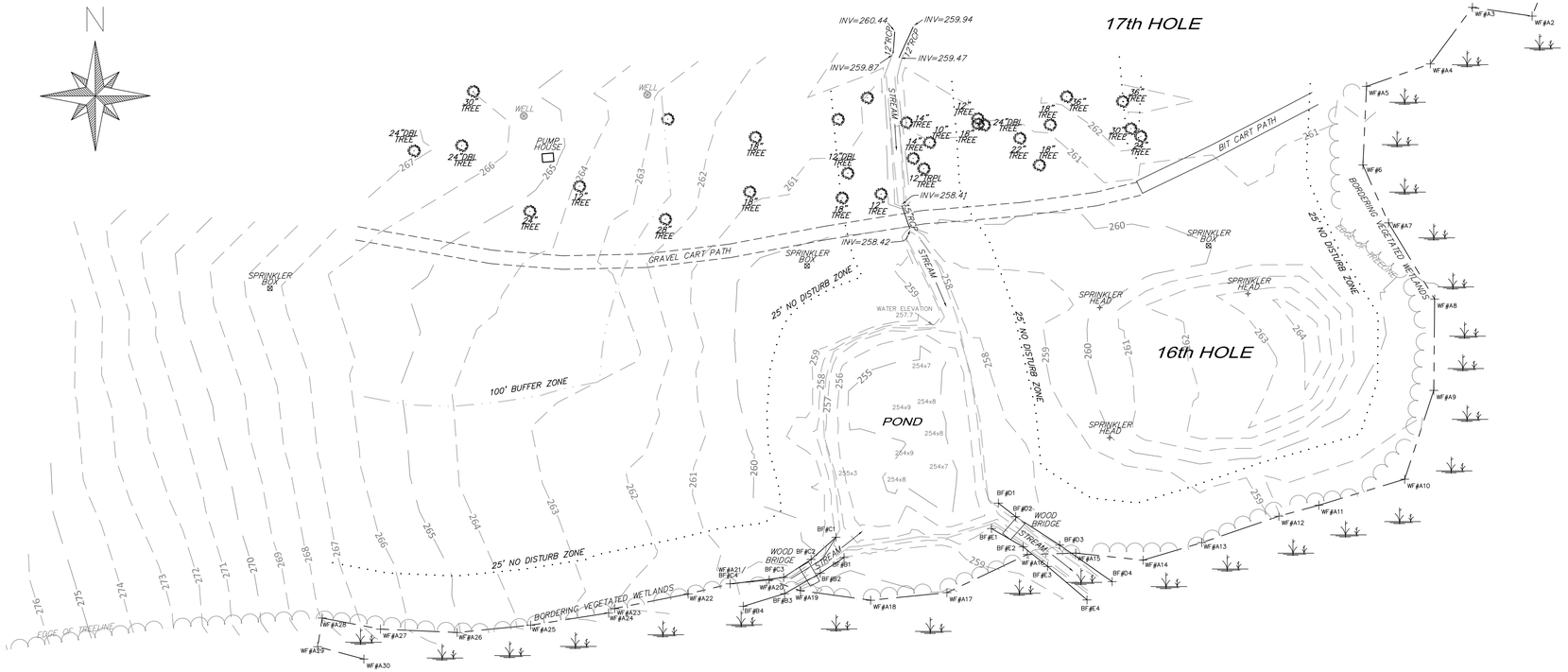
Issued For Permitting - OCTOBER 20, 2021

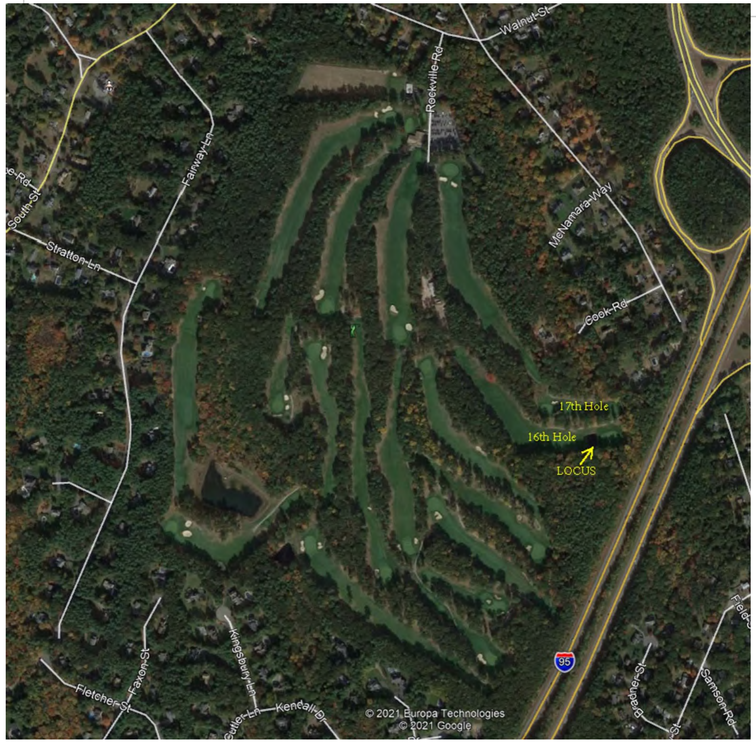
COMMONWEALTH OF MASSACHUSETTS
Daniel M. Feeney
CIVIL ENGINEER
NO. 41422
REGISTERED
PROFESSIONAL ENGINEER
10/20/2021

FOR PERMITTING ONLY

Job No.: 3180.01
Plan No.: 318001P001A-001
Sheet 1 of 4

1955





30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

21-0171-EX

PROJECT:

Foxborough Country Club Hole #16 33 Walnut Street Foxborough, MA 02035

OWNER:

Members of Foxborough Country Club 33 Walnut Street Foxborough, MA 02035

Bay Colony Group, Inc.
Professional Civil Engineers & Professional Land Surveyors

FOUR SCHOOL STREET
P.O. BOX 9136
FOXBOROUGH, MA 02035
508-543-3939

REFERENCES:

STAMP

COMMONWEALTH OF MASSACHUSETTS
RICHARD J. LESHE
No. 36384
REGISTERED PROFESSIONAL LAND SURVEYOR

DRAWING TITLE

Existing Conditions Plan

SCALE: 1" = 30'

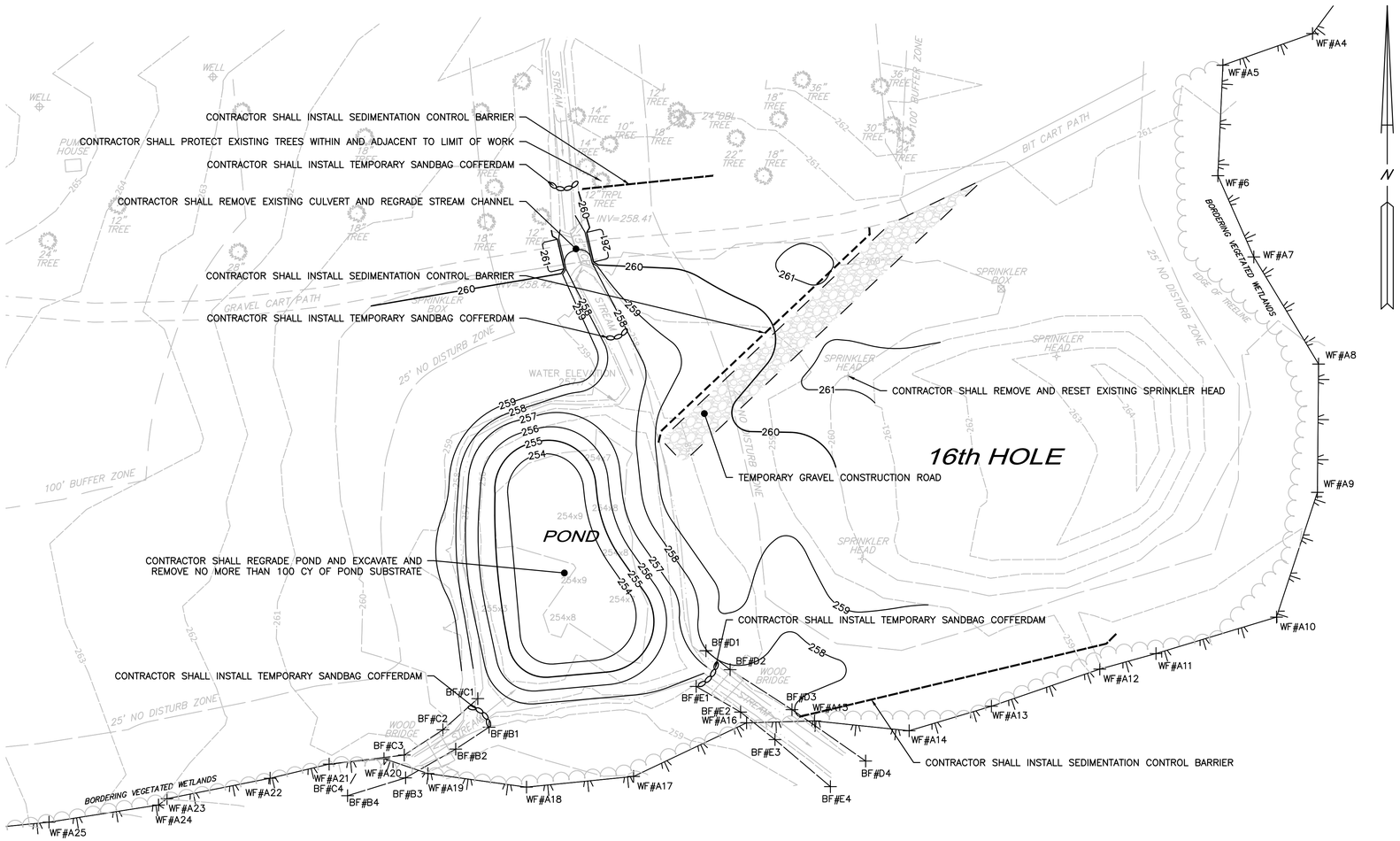
JULY 15, 2021	SHEET NUMBER
	1

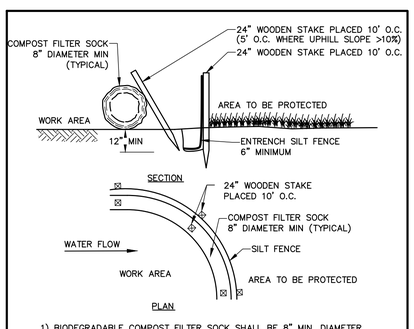
CONSTRUCTION SEQUENCING PLAN
POND IMPROVEMENTS OPERATIONS

1. CONTRACTOR SHALL INSTALL SEDIMENTATION CONTROL BARRIERS AND SAND BAG COFFERDAMS AS INDICATED ON THE PLAN TO RESTRICT THE FLOW OF SEDIMENT LADEN CONSTRUCTION RUNOFF INTO RESOURCE AREAS.
2. CONTRACTOR SHALL INSTALL TEMPORARY GRAVEL CONSTRUCTION ROAD.
3. FLEXIBLE DRAINPIPE SHALL BE LAID ALONG THE EDGES OF THE POND BANKS, AND SHALL EXTEND TO THE DEWATERING BAGS IN THE AREAS INDICATED ON THE SITE PREPARATION AND SEDIMENTATION CONTROL PLANS. THE PIPING SHALL BE CONNECTED WITH WATERTIGHT FITTINGS.
4. GROUNDWATER DEWATERING WELL PIPES COMPRISED OF PERFORATED CMP SHALL BE EXCAVATED INTO POND BOTTOM TO A SUFFICIENT DEPTH BELOW THE WORK AREA AND SURROUNDED WITH CLEAN STONE. DEWATERING PUMPS SHALL BE SET WITHIN THE PERFORATED PIPES. DEWATERING PUMPS SHALL BE RUN CONTINUOUSLY OR AS NECESSARY THROUGHOUT THE CONSTRUCTION OPERATION TO MAINTAIN GROUNDWATER LEVELS BELOW THE EXCAVATION AREA. GROUNDWATER DEWATERING PIPES SHALL DISCHARGE INTO SEDIMENT DEWATERING BAGS WITHIN UPLAND AREAS SURROUNDED BY SEDIMENTATION CONTROL BARRIERS. SEDIMENTATION CONTROL BARRIERS AND SEDIMENT DEWATERING BAGS SHALL BE MONITORED DAILY THROUGHOUT THE CONSTRUCTION PROCESS AND ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO ENSURE PROPER FUNCTIONING OF THESE BMP FACILITIES.
5. EXCAVATION FOR AND SHAPING OF THE POND BOTTOM SHALL BE CONDUCTED TO ACHIEVE THE CONTOUR GRADES DEPICTED ON THE SITE PLAN. ALL EXCAVATION SHALL BE CONDUCTED WITHIN THE "DRY" POND AND EXCAVATED MATERIAL SHALL BE TRANSPORTED DIRECTLY INTO DUMP TRUCKS. EXCAVATED MATERIAL SHALL BE BROUGHT TO A DEWATERING AREA, IF NEEDED, AND ONCE MATERIAL HAS SUFFICIENTLY DRIED AND CHARACTERIZED, IT SHALL BE LOADED INTO WATERTIGHT DUMP TRUCKS AND TRANSPORTED TO A DESIGNATED ON-SITE DISPOSAL AREA, OR TO A DESIGNATED OFF-SITE DISPOSAL FACILITY. THE CONTRACTOR SHALL TAKE EXTREME CARE TO ENSURE THAT EXCAVATED MATERIAL IS NOT DISCHARGED BACK INTO THE POND OR ADJACENT RESOURCE AREAS.
6. UPON COMPLETION OF CONSTRUCTION, THE GROUNDWATER DEWATERING PUMPS SHALL BE REMOVED FROM THE POND. THE PERFORATED WELL PIPES ARE TO BE CAPPED AND REMAIN IN PLACE FOR POSSIBLE FUTURE REUSE DURING ANY FUTURE SUBSEQUENT POND IMPROVEMENTS. THE POND SHALL BE ALLOWED TO REFILL WITH BOTH GROUNDWATER AND FLOW FROM TRIBUTARY WATERWAYS/PIPING. ONCE THE POND HAS BEEN SUBSTANTIALLY FILLED, THE OUTLETS SHALL BE TEMPORARILY BLOCKED UNTIL ALL SEDIMENT HAS SETTLED FROM THE PONDED WATER. ONCE THE SEDIMENT HAS SETTLED, THE OUTLETS CAN BE RESTORED TO NORMAL OPERATION.
7. CONTRACTOR SHALL REMOVE TEMPORARY GRAVEL CONSTRUCTION ROAD AND ALL DISTURBED AREAS SHALL BE RELOAMED AND SEEDED/SODDED TO ACHIEVE COMPLETE VEGETATION STABILIZATION. ONCE VEGETATED STABILIZATION IS ACHIEVED, THE SEDIMENTATION CONTROL BARRIERS SHALL BE REMOVED.

LEGEND AND ABBREVIATIONS

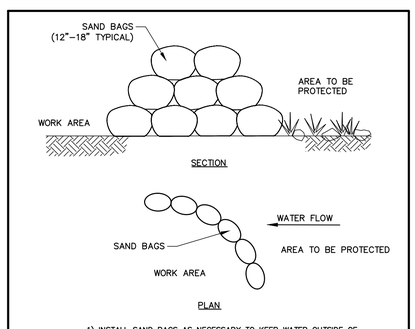
EXISTING	PROPOSED	
		TREE LINE
		RIPRAP
WF BBVW		BOUNDARY OF BORDERING VEGETATED WETLAND
BF		BANK/ BANK FLAG
		EDGE OF WATER
		WETLAND BUFFER ZONE
		RIVERFRONT AREA
		SANDBAG COFFERDAM
		SEDIMENTATION CONTROL BARRIER
ROP		REINFORCED CONCRETE PIPE
124	124	MINOR CONTOUR
130	130	MAJOR CONTOUR
x125.4		SPOT ELEVATION





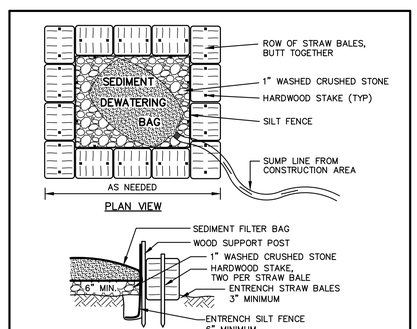
1) BIODEGRADABLE COMPOST FILTER SOCK SHALL BE 8" MIN. DIAMETER.
2) WOODED STAKES SHALL BE PLACED DOWNSLOPE OF THE FILTER SOCK.
3) STAKE FILTER SOCK AT 5' O.C. WHERE UPHILL SLOPE EXCEEDS 10%.

SEDIMENTATION CONTROL BARRIER
NOT TO SCALE

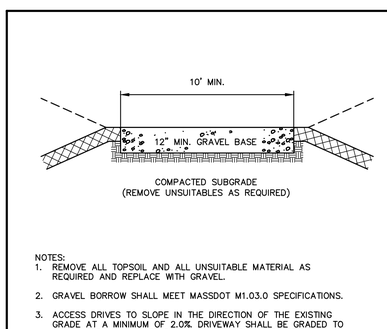


1) INSTALL SAND BAGS AS NECESSARY TO KEEP WATER OUTSIDE OF WORKING AREA DURING CONSTRUCTION

SAND BAG COFFER DAM
NOT TO SCALE



DEWATERING CONTAINMENT AREA
NOT TO SCALE



NOTES:
1. REMOVE ALL TOPSOIL AND ALL UNSUITABLE MATERIAL AS REQUIRED AND REPLACE WITH GRAVEL.
2. GRAVEL BORROW SHALL MEET MASSDOT M1.03.0 SPECIFICATIONS.
3. ACCESS DRIVES TO SLOPE IN THE DIRECTION OF THE EXISTING GRADE AT A MINIMUM OF 2.0% DRIVEWAY SHALL BE GRADED TO ALLOW STORMWATER TO SHEET ACROSS IT AND TO PREVENT PUDDLING.

GRAVEL CONSTRUCTION ROAD CROSS SECTION
NOT TO SCALE

PREPARED FOR:

FOXBOROUGH COUNTRY CLUB

33 WALNUT STREET
FOXBOROUGH, MA 02035

RECORD OWNER:

MEMBERS OF FOXBOROUGH COUNTRY CLUB

33 WALNUT STREET
FOXBOROUGH, MA 02035

COMMONWEALTH OF MASSACHUSETTS
Daniel M. Feeney
CIVIL ENGINEER
NO. 41422
REGISTERED PROFESSIONAL ENGINEER
10/20/2021

FOR PERMITTING ONLY

PREPARED BY:

BEALS + THOMAS

BEALS AND THOMAS, INC.
Reservoir Corporate Center
144 Turnpike Road
Southborough, Massachusetts 01772-2104
T 508.366.0560 | www.bealsandthomas.com

5		
4		
3		
2		
1		
0	10/XX/2021	ISSUED FOR PERMITTING
ISSUE DATE		DESCRIPTION

NPS	NPS	NBB	DMF
DES	DWN	CHK'D	APP'D

PROJECT:

HOLE 16 POND IMPROVEMENTS

FOXBOROUGH, MASSACHUSETTS
(NORFOLK COUNTY)

SCALE: 1" = 20' DATE: OCTOBER XX, 2021

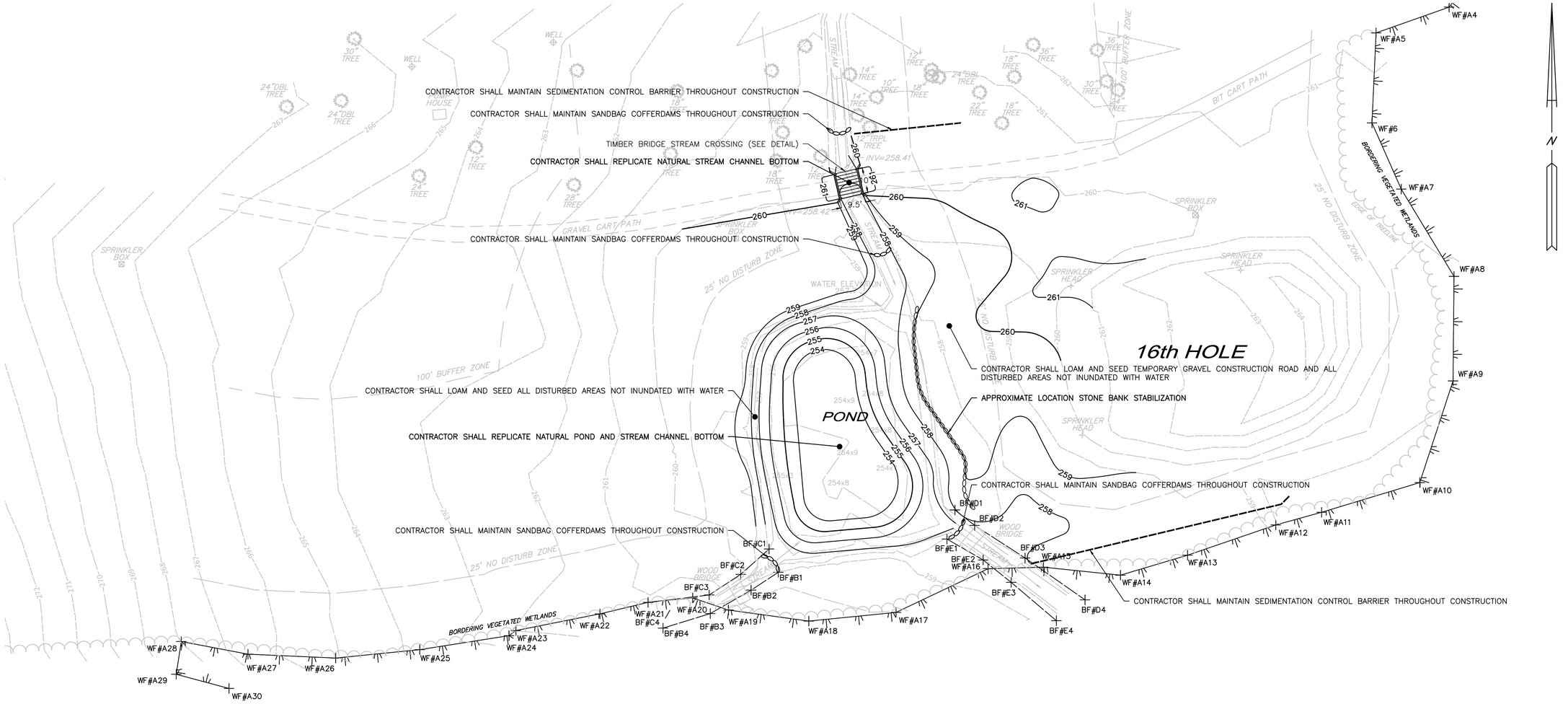
METERS 0 5 10 15
FEET 0 10 20 40 60

SITE PREPARATION + SEDIMENTATION CONTROL PLAN

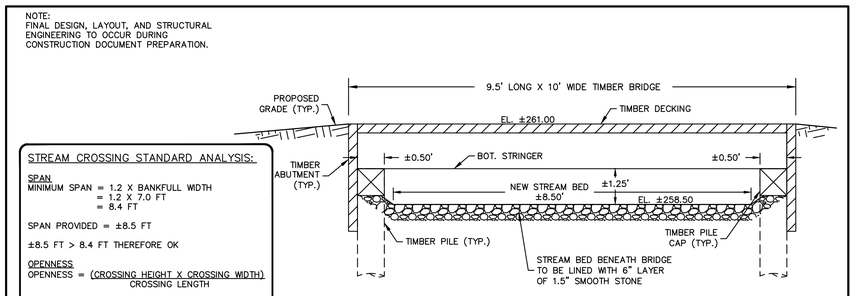
B+T JOB NO.3180.01

B+T PLAN NO. 318001P001A-002

C2.1



NOTE:
FINAL DESIGN, LAYOUT, AND STRUCTURAL ENGINEERING TO OCCUR DURING CONSTRUCTION DOCUMENT PREPARATION.



TIMBER BRIDGE STREAM CROSSING
NOT TO SCALE

FOR NOTES, REFERENCES AND LEGEND SEE SHEET C2.1.

PREPARED FOR:

FOXBOROUGH COUNTRY CLUB

33 WALNUT STREET
FOXBOROUGH, MA 02035

RECORD OWNER:

MEMBERS OF FOXBOROUGH COUNTRY CLUB

33 WALNUT STREET
FOXBOROUGH, MA 02035

COMMONWEALTH OF MASSACHUSETTS
Daniel M. Feaney
CIVIL ENGINEER
NO. 41422
REGISTERED PROFESSIONAL ENGINEER
10/20/2021

FOR PERMITTING ONLY

PREPARED BY:

BEALS + THOMAS

BEALS AND THOMAS, INC.
Reservoir Corporate Center
144 Turnpike Road
Southborough, Massachusetts 01772-2104
T 508.366.0560 | www.bealsandthomas.com

5		
4		
3		
2		
1		
0	10/XX/2021	ISSUED FOR PERMITTING
ISSUE DATE		DESCRIPTION

NPS	NPS	NBB	DMF
DES	DWN	CHK'D	APP'D

PROJECT:

HOLE 16 POND IMPROVEMENTS

FOXBOROUGH, MASSACHUSETTS
(NORFOLK COUNTY)

SCALE: 1" = 20' DATE: OCTOBER XX, 2021

METERS 0 5 10 15
FEET 0 10 20 40 60

SITE PLAN

B+T JOB NO.3180.01

B+T PLAN NO. 318001P001A-003

C3.1