

Notice of Intent

Newton South High School Turf and Track Replacement

City of Newton Parks,
Recreation and Culture

November 2022



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Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1444851
City/Town:NEWTON

A.General Information

1. Project Location:

a. Street Address	130R WHEELER ROAD		
b. City/Town	NEWTON	c. Zip Code	02459
d. Latitude	42.31192N	e. Longitude	71.18971W
f. Map/Plat #	81051	g.Parcel/Lot #	0051

2. Applicant:

Individual Organization

a. First Name	LUIS	b. Last Name	PEREZ DEMORIZI		
c. Organization	NEWTON PARKS, RECREATION & CULTURE				
d. Mailing Address	246 DUDLEY STREET				
e. City/Town	NEWTON	f. State	MA	g. Zip Code	02459
h. Phone Number	617-796-1500	i. Fax		j. Email	lpdemorizi@newtonma.gov

3. Property Owner:

more than one owner

a. First Name	LUIS	b. Last Name	PEREZ DEMORIZI		
c. Organization	NEWTON PARKS, RECREATION & CULTURE				
d. Mailing Address	246 DUDLEY STREET				
e. City/Town	NEWTON	f. State	MA	g. Zip Code	02459
h. Phone Number	617-796-1500	i. Fax		j. Email	lpdemorizi@newtonma.gov

4. Representative:

a. First Name	MAGDALENA	b. Last Name	LOFSTEDT		
c. Organization	CDM SMITH INC.				
d. Mailing Address	75 STATE STREET, SUITE 701				
e. City/Town	BOSTON	f. State	MA	g. Zip Code	02169
h. Phone Number	617-452-6597	i. Fax		j. Email	lofstedtmh@cdmsmith.com

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

a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid
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6. General Project Description:

THE CITY OF NEWTON PARKS, RECREATION, AND CULTURE PROPOSES TO REMOVE AND REPLACE THE EXISTING ARTIFICIAL TURF FIELD AND RESURFACE THE EXISTING RUNNING TRACK AT THE WINKLER STADIUM LOCATED AT THE NEWTON SOUTH HIGH SCHOOL. THIS NOTICE OF INTENT (NOI) IS BEING FILED BECAUSE THE PROPOSED WORK WILL TEMPORARILY ALTER APPROXIMATELY 5,086 SQUARE FEET OF THE 100-FOOT BUFFER ZONE TO A BORDERING VEGETATED WETLAND (BVW). COMPOST LOGS WILL BE INSTALLED AT THE LIMIT OF WORK TO PREVENT ANY SEDIMENT FROM ENTERING THE BUFFER ZONE OR ADJACENT WETLAND RESOURCE AREA. REFER TO ATTACHMENT A FOR A DETAILED PROJECT DESCRIPTION.

7a. Project Type:

1. Single Family Home 2. Residential Subdivision

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

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

1. Yes No If yes, describe which limited project applies to this project:
 2. Limited Project

8. Property recorded at the Registry of Deeds for:

a. County:	b. Certificate:	c. Book:	d. Page:
SOUTHERN MIDDLESEX		3678	283

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

1. Buffer Zone & Resource Area Impacts (temporary & permanent):

This is a Buffer Zone only project - Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2. Inland Resource Areas: (See 310 CMR 10.54 - 10.58, if not applicable, go to Section B.3. Coastal Resource Areas)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
---------------	-----------------------------	-------------------------------

a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet	2. square feet
c. <input type="checkbox"/> Land under Waterbodies and Waterways	1. Square feet	2. square feet
	3. cubic yards dredged	
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced

f. Riverfront Area

1. Name of Waterway (if any)
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

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square feet

4. Proposed Alteration of the Riverfront Area:

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

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under	Land under the ocean below,
b. <input type="checkbox"/> Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes, below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	

4.Restoration/Enhancement

Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been

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entered in Section B.2.b or B.3.h above, please entered the additional amount here.

a. square feet of BVW

b. square feet of Salt Marsh

5. Projects Involves Stream Crossings

Project Involves Streams Crossings

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

a. number of new stream crossings

b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage of Endangered Species program (NHESP)?

a. Yes No

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

Natural Heritage and Endangered Species

Program

Division of Fisheries and Wildlife

1 Rabbit Hill Road

Westborough, MA 01581

b. Date of map: 11/10/2022

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

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

1. Percentage/acreage of property to be altered:

(a) within Wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

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

3. Project plans for entire project site, including wetland resource areas and areas outside of wetland jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

a. Project description (including description of impacts outside of wetland resource area & buffer zone)

b. Photographs representative of the site

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

Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address

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

d. Vegetation cover type map of site

e. Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321

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

2. Separate MESA review ongoing.

a. NHESP Tracking Number

b. Date submitted to NHESP

3. Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

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

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

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

b. Yes No

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

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

North Shore - Hull to New Hampshire:

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

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

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

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. Yes No

If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

a. Yes No

5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L.c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L.c. 130, § 105)?

a. Yes No

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

a. Yes, Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol.2, Chapter 3)

2. A portion of the site constitutes redevelopment

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3. Proprietary BMPs are included in the Stormwater Management System

b. No, Explain why the project is exempt:

1. Single Family Home

2. Emergency Road Repair

3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

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

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

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s). Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

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

COVER SHEET,
SHEETS C-1
THROUGH C-4, AND
D-1 AND D-2

JUSTIN
HEIL/MICHAEL
DODSON

November 2022/1"=30'

- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form.
- 9. Attach Stormwater Report, if needed.

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E. Fees

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

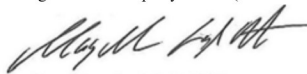
Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number	3. Check date
4. State Check Number	5. Check date
6. Payer name on check: First Name	7. Payer name on check: Last Name

F. Signatures and Submittal Requirements

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

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

1. Signature of Applicant	2. Date
3. Signature of Property Owner(if different)	4. Date
	NOV. 15, 2022
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

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

For MassDEP:

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

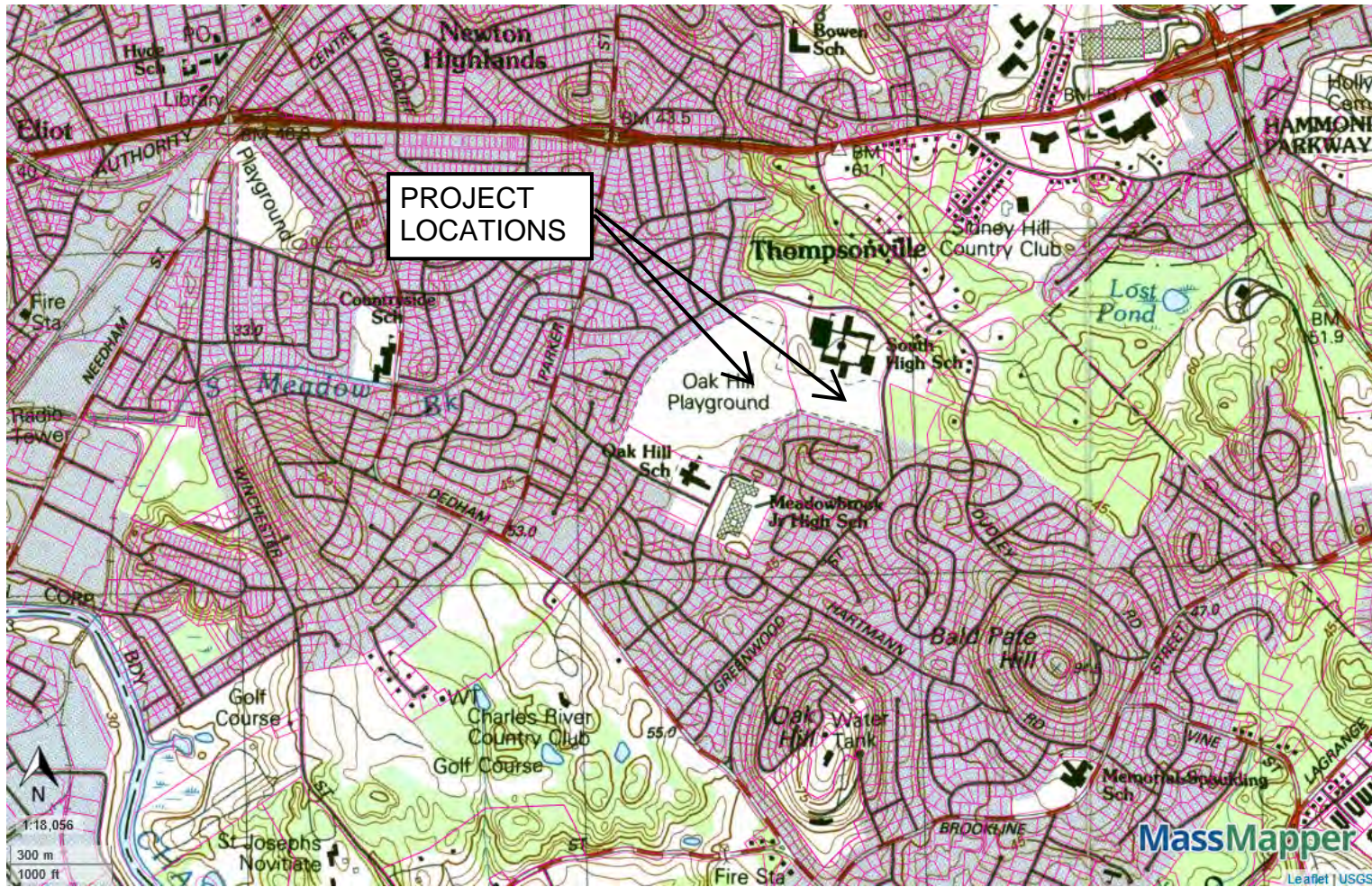
Other:

If the applicant has checked the "yes" box in Section C, Items 1-3, above, refer to that section and the Instructions for additional submittal requirements.

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

FIGURES

Figure 1: Project Location Map

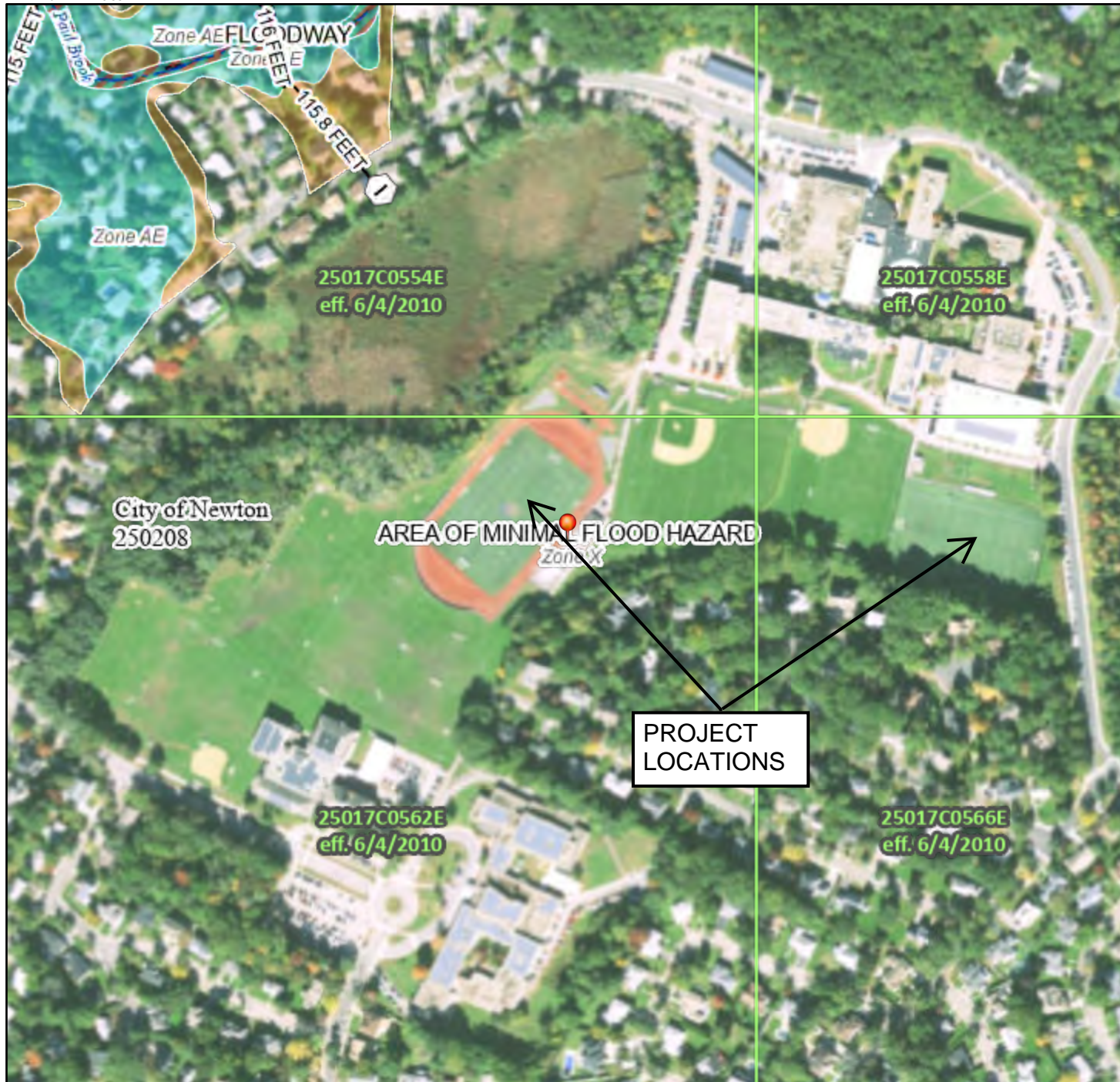


Property Tax Parcels

National Flood Hazard Layer FIRMMette



71°11'40"W 42°18'55"N



PROJECT LOCATIONS



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/9/2022 at 11:29 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Figure 3: Estimated and Priority Habitat



- Potential Vernal Pools
○
- NHESP Certified Vernal Pools
*
- NHESP Priority Habitats of Rare Species
□
- NHESP Estimated Habitats of Rare Wildlife
□
- Property Tax Parcels

ATTACHMENT A
PROJECT NARRATIVE

Attachment A

Project Narrative

1.0 Introduction

The City of Newton, Parks, Recreation, and Culture is proposing to remove and replace the existing artificial turf field and resurface the existing running track at the Winkler Stadium and replace the existing Brandeis Road artificial turf field located at the Newton South High School. The proposed work will be located within the footprint of existing track and fields. The purpose of this project is to provide improved playing facilities on the school's campus because the track and fields are at their end-of-life.

This Notice of Intent (NOI) is being filed because the proposed work will temporarily alter the 100-foot Buffer Zone to a Bordering Vegetated Wetland (BVW) at Winkler Stadium. No work is being performed within the 100-foot Buffer Zone to a Bordering Vegetated Wetland (BVW) at the Brandeis Road Field. The following sections describe existing on-site wetland conditions, work proposed adjacent to wetland resource areas, compliance with the wetland resource area performance standards, and proposed measures to mitigate impacts.

2.0 Existing Conditions

The playing field and track are located at the Winkler Stadium on the Newton South High School's campus at 140 Brandeis Avenue and 130R Wheeler Road, in Newton, Massachusetts, see Figure 1 – Project Location Map. The Winkler Stadium consist of a 6-lane track with an artificial turf field in the center (see Sheet C-1: Existing Conditions), The field and track are generally flat, with a very slight slope to the southwest; elevations of the field range from 129 to 126 feet (NAVD 88).

The existing infill artificial turf system includes 1 ¾ to 2 inches of loose rubber and sand infill, 9-12 inches of crushed stone (as a base material) and an underdrain system. The existing underdrain system has a 0.5% slope to encourage infiltration and maximize stormwater storage in the field. The overall design of the field is essentially a large infiltration basin. The stone base has an approximate 40 percent void ratio, which provides a flood storage within the field. Under existing conditions, some of the stormwater infiltrates into the remaining subsoils below the field. When the infiltration capacity is exceeded, runoff is collected in the underdrain system and discharges to an 84" culvert below the field.

The land uses surrounding the playing fields include Newton South High School campus to the north, wetlands to the west, Oak Hill Middle School to the south, and residential to the east. The Aerial Photo of the site (Figure 3) depicts existing conditions at the site.

2.1 Wetland Resources

On October 27, 2022, a CDM Smith Wetland Scientists delineated the wetland resource areas in the project area. Existing field delineated wetland resource boundaries were evaluated for conformance

with the Massachusetts Wetlands Protection Act (MGL c.131, s.40) (the Act) and Regulations (310 CMR 10.00) and the U.S. Army Corps of Engineers 1987 Wetlands Delineation Manual (Environmental Laboratory, 1987), and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual, North central and Northeast Region (January 2012). Jurisdictional wetland resource areas are present on the western portion of the Newton South High School parcel and east of Brandeis Road. The wetland east of Brandeis Road was not field delineated since the work is outside of the 100-foot Buffer Zone to this wetland.

The wetland boundary was demarcated in the field by wetland flags (WF) 1-1A through 1-1Tend. The wetland flags, 100-ft Buffer Zone, and the 25-foot NVB are depicted on the project plans in Attachment E. Wetland delineation field data sheets are included in Attachment B and photographs are included in Attachment C.

The BVW on the western portion of the Newton South High School property can be characterized as an emergent marsh with a shrub/wooded border wetland. There is an excavated channel along the eastern side of the wetland starting at WF 1-1B and extending to WF 1-1P. The emergent marsh is dominated by common reed (*Phragmites australis*). The eastern boundary of the wetland is dominated by European buckthorn (*Rhamnus cathartica*), silky dogwood (*Cornus amomum*), northern arrowwood (*Viburnum recognitum*), and honeysuckle (*Lonicera* sp.). The overstory along the eastern boundary is sparse with Norway maple (*Acer platanoides*) and honey locust (*Gleditsia triacanthos*) present.

The City of Newton has a local floodplain district which at the project site extends 30 feet out into the upland area from the wetland boundary. The local floodplain district is also shown on the project plans in Attachment E.

3.0 Proposed Work

The proposed improvements to the Winkler Stadium consist of the following:

- Remove and replace the existing synthetic turf surface and infill materials (app. 230 feet by 380 feet) to limit of curb. New crushed stone will be added as necessary to attain level and even turf base surface (see Sheets C-3, C-4, and details on Sheets D-1 and D-2).
- Resurface the existing running track around the field. The existing track surface will be power washed to remove any loose debris. The existing top course will be repaired as necessary to ensure smooth level base. A new polyresin track topcoat (rubber surface layer) will be placed over the existing track surface (see Sheet C-3 and Detail B on Sheet D-1).
- Existing field manholes and in-line catch basins will be inspected for debris and cleaned out as necessary.
- Existing scoreboard, netting system, flagpole and adjacent trees will be fenced off and protected during construction.

Because the project lies within the footprint of the existing field facility, no alteration to BVW is proposed, however a portion of the proposed work will occur within the 100-foot buffer zone to BVW and Inland Bank.

This project will enhance and update the athletic facilities available to the Newton South High School student athletes and town residents. The infill artificial turf athletic field will not require irrigation or fertilization, or use of herbicides/pesticides, thus reducing maintenance costs and environmental impact. Because the infiltration capacity of artificial turf fields exceeds that of natural turf fields, stormwater runoff from the field will also be reduced. The drainage system for the artificial field will discharge to the existing drainage network, and therefore will not require any modifications to, or new drainage outlets.

3.1 Site Grading

No site grading is proposed other than adding stone within the field limits to attain level and even turf base and repairing the top course of the track to ensure smooth level base.

3.2 Work within the 100-ft Buffer Zone

A portion, approximately 5,086 square feet, of the proposed artificial turf athletic field and track at Winkler Stadium is located within the 100-ft Buffer Zone to BVW (see Sheet C-1). Construction activities for the track and field improvements are described above. Construction access to the stadium will from the school parking lot to the north of the stadium, located outside of the 100-foot Buffer Zone.

3.3 Long-Term Maintenance

Construction will occur within the footprint of the existing track and field facility. Currently the School maintains this facility by mowing and pruning vegetation to prevent tree and shrub branches from hanging over the existing chain link fence around the facility, a practice which will continue. This fencing will continue to provide a hard edge between the facility and the surrounding wetlands. The replaced artificial turf field will receive regular grooming per manufacturer's standard practices. The track and new pathways will be blown off with leaf blowers as necessary to maintain a safe and clean surface.

4.0 Mitigation Measures

Construction at the site will result in the short-term alteration to the 100-foot Buffer. No adverse impacts to wetland resource areas are anticipated to occur as a result of this project. The following sections outline the measures to mitigate construction period and long-term impacts. The construction period measures will be incorporated into construction specifications to prevent impacts to resource areas.

4.1 Construction Period

Sedimentation / Erosion Control

Controlling erosion and transport of sediment to downgradient wetland resources requires development of site specific uses of best management practices (BMPs), both structural controls as well as proper management of construction activities.

- Sedimentation barriers (e.g., compost logs installed per industry standards) will be installed at the downgradient limits of work prior to the commencement of work to prevent the transport of sediment to the downgradient wetland resources during playing field construction. These barriers will be inspected weekly and after all storm events ½-inch or greater and repaired as needed. These barriers will remain in place until all disturbed soils are stabilized.
- A stabilized construction site entrance will be installed to limit tracking of sediment onto the parking lots and Brandeis Street and adjacent paved streets from construction vehicles exiting the site. The stabilized construction entrance will consist of a minimum of 6 inches of crushed stone placed on a geotextile fabric.
- Additional BMPs that will be utilized to control the transport of sediment from the work site include street sweeping of paved areas and roadways.
- Periodic inspections will be made by the applicant to ensure compliance with the permit conditions.
- The compost log barrier will not be removed until the site work has been completed. Work will proceed as rapidly as possible, limiting the exposure time of disturbed soils to wind and precipitation.

Spill Control Measures

- Equipment storage and refueling area will only be allowed outside of the 100-foot Buffer Zone.
- Spill containment equipment (e.g., oil absorbent pads, oil absorbent materials, containment booms, shovels, etc.) will be stored on site in an easily accessible manner for use in the clean-up of accidental releases of fuel or other hazardous materials. Should there be an accidental release the proper authorities will be notified in accordance with all applicable federal, state, and local laws.
- To minimize the possibility of leakage of hydraulic fluid, all hydraulic lines on all construction equipment and vehicles will be inspected at the end of each workday. If any excessive wear or leakage is observed, the line will be repaired prior to further use. In addition, a supply of oil absorbent materials (i.e., pads, "speedy dry," and/or booms) will be maintained with the equipment at the work area for immediate deployment in the event of an accidental release of fuel, hydraulic fluid, oil, etc.
- Any oil, hydraulic fluid, or other hazardous materials will be stored in original containers; fuels will be stored in tightly sealed containers which are clearly marked; and all such materials will be stored under a roof or in a covered enclosure.

5.0 Compliance with the Performance Standards

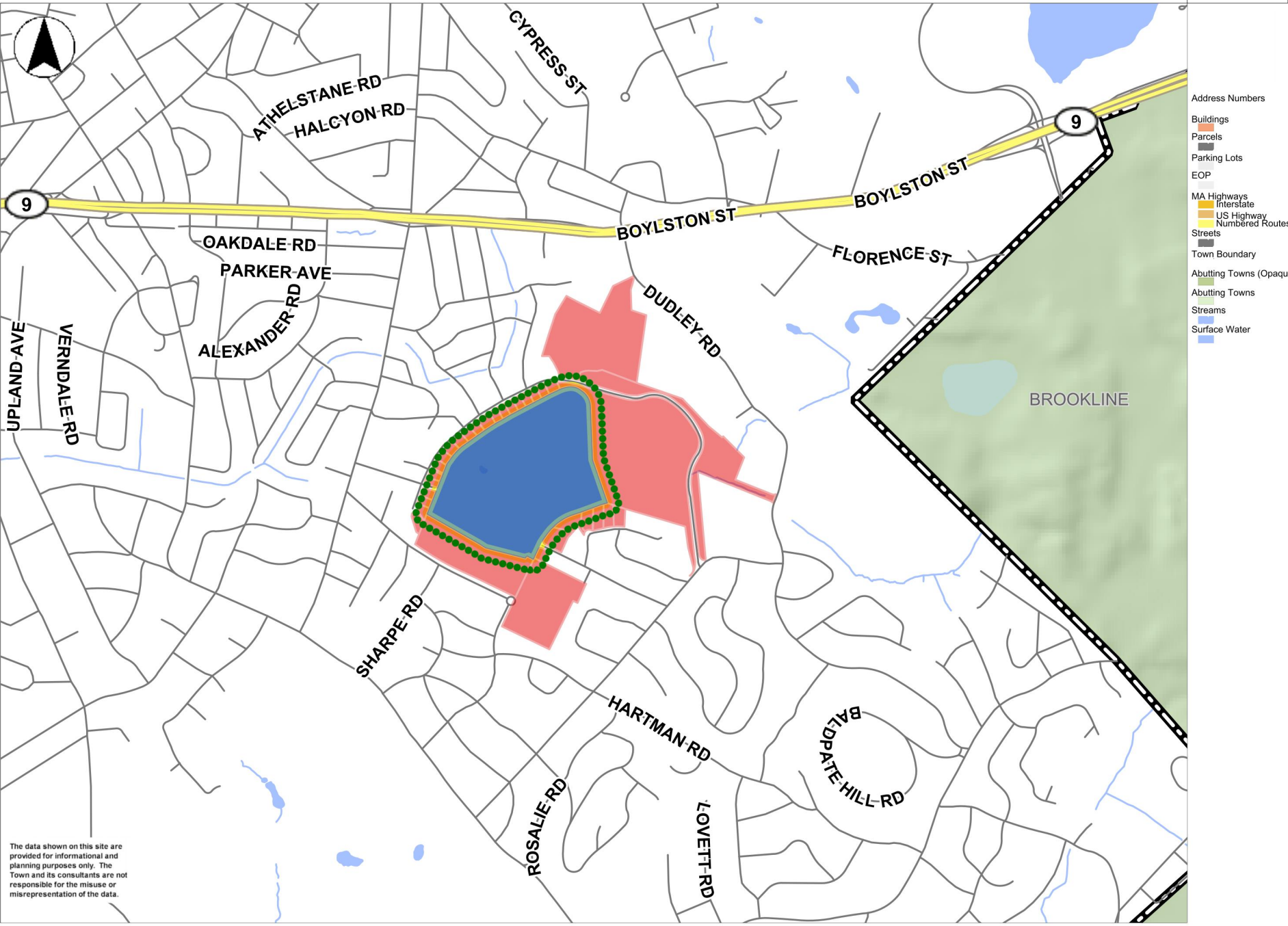
Work proposed herein and shown on the attached project plans (see Attachment E) was designed to comply with the Massachusetts Wetlands Protection Act and the Massachusetts Wetland Protection Regulations (Regulations) [310 CMR 10.00 et seq.]. Work is proposed within 100-foot Buffer Zone to

BVW. There are no performance standards for working in Buffer Zone; however, the guiding principle is to prevent adverse impacts to the downgradient resource areas. As designed, work in the 100-foot Buffer Zone will not adversely affect the downgradient resource area. Construction phase erosion and sedimentation control measures will protect these areas from erosion or deposition of sediment. The artificial turf field will store and infiltrate the same precipitation as the existing artificial turf thus not increasing peak runoff rates to downgradient resource areas.

6.0 Summary

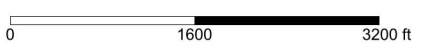
The proposed athletic field and track improvements will provide a new track surface and new artificial turf field for the School's athletic activities and area residents. Use of infill artificial turf will continue to eliminate the need for field irrigation or the use of fertilizers, herbicides and pesticides on the field. Furthermore, the proposed underdrain system will continue to maximize stormwater detention under the field during storm events and continue to promote infiltration of stormwater to the underlying soils.

ATTACHMENT B
ABUTTER NOTIFICATION INFORMATION



- Address Numbers
- Buildings
- Parcels
- Parking Lots
- EOP
- MA Highways
 - Interstate
 - US Highway
 - Numbered Routes
- Streets
- Town Boundary
- Abutting Towns (Opaque)
- Abutting Towns
- Streams
- Surface Water

The data shown on this site are provided for informational and planning purposes only. The Town and its consultants are not responsible for the misuse or misrepresentation of the data.



Printed on 11/15/2022 at 09:19 AM

[print this list](#)**Abutters List**

Date: November 15, 2022

Subject Property Address: 130 R WHEELER RD Newton, MA
Subject Property ID: 81-051-0051

Search Distance: 100 Feet

Owner: ALLEN SUSAN D
Prop ID: 81-005-0010
Prop Location: 100 LITTLEFIELD RD Newton, MA
Mailing Address:

100 LITTLEFIELD RD
NEWTON CENTRE, MA 02459

Owner: CITY OF NEWTON
Co-Owner: SCHOOL DEPT-BROWN MIDDLE SCHOOL
Prop ID: 81-005-0011
Prop Location: 125 MEADOWBROOK RD Newton, MA
Mailing Address:
1000 COMM AVE
NEWTON, MA 02459

Owner: LI ZHI
Co-Owner: SHENG QI
Prop ID: 81-050-0017
Prop Location: 22 BRANDEIS CIR Newton, MA
Mailing Address:
22 BRANDEIS CIR
NEWTON, MA 02459

Owner: RESNICK MICHAEL M
Prop ID: 81-050-0018
Prop Location: 16 BRANDEIS CIR Newton, MA
Mailing Address:
16 BRANDEIS CIR
NEWTON CENTRE, MA 02459

Owner: LAVITAS PAVEL & LILIYA
Prop ID: 81-050-0019
Prop Location: 10 BRANDEIS CIR Newton, MA
Mailing Address:
10 BRANDEIS CIR
NEWTON CENTRE, MA 02459

Owner: JIH GUOR-CHIN & YIN-CHU
Prop ID: 81-050-0020
Prop Location: 4 BRANDEIS CIR Newton, MA
Mailing Address:
4 BRANDEIS CIR
NEWTON, MA 02459

Owner: SLOVIK DAVID M & LOIS S
Co-Owner: SLOVIK DAVID M TR
Prop ID: 81-051-0003-A
Prop Location: DUDLEY RD Newton, MA
Mailing Address:
85 DUDLEY RD
NEWTON, MA 02459

Owner: GLUSHKOV DENYS
Co-Owner: SHEVCHENKO MARYNA
Prop ID: 81-051-0022-F
Prop Location: 54 WINSTON RD Newton, MA
Mailing Address:
54 WINSTON RD
NEWTON, MA 02459

Owner: GORDON WILLIAM D
Co-Owner: GORDON ANGELA T/C
Prop ID: 81-051-0022-G
Prop Location: 46 WINSTON RD Newton, MA
Mailing Address:
46 WINSTON RD
NEWTON, MA 02459

Owner: EMANI SIRISHA & SLTARAM M

Prop ID: 81-051-0022-H
Prop Location: 38 WINSTON RD Newton, MA
Mailing Address:
38 WINSTON RD
NEWTON, MA 02459

Owner: WILCOX SARAH W
Co-Owner: FARRELL STEPHEN C
Prop ID: 81-051-0022-J
Prop Location: 30 WINSTON RD Newton, MA
Mailing Address:
30 WINSTON RD
NEWTON CENTRE, MA 02459

Owner: HOFFMAN STEVEN L & SALLY L TR
Co-Owner: STEVEN L & SALLY L TRUSTS T/C
Prop ID: 81-051-0045
Prop Location: 91 LITTLEFIELD RD Newton, MA
Mailing Address:
91 LITTLEFIELD RD
NEWTON, MA 02459

Owner: SHAMSHIRAZ ALIREZA ABDOLLAH
Co-Owner: ARIAN SARA ELIZABETH
Prop ID: 81-051-0045-A
Prop Location: 99 LITTLEFIELD RD Newton, MA
Mailing Address:
99 LITTLEFIELD RD
NEWTON, MA 02459

Owner: CITY OF NEWTON
Co-Owner: SCHOOL DEPT-NEWTON SOUTH HIGH
Prop ID: 81-051-0047
Prop Location: 140 BRANDEIS RD Newton, MA
Mailing Address:
1000 COMM AVE
NEWTON, MA 02459

Owner: BAMEL JON

Prop ID: 81-051-0047-A
Prop Location: 28 WINSTON RD Newton, MA
Mailing Address:
28 WINSTON RD
NEWTON, MA 02459

Owner: CHITCHIAN KIRKOR & AZAD S
Prop ID: 81-051-0050-H
Prop Location: 79 BRANDEIS RD Newton, MA
Mailing Address:
79 BRANDEIS RD
NEWTON CENTRE, MA 02459

Owner: APTEKMAN ANGELA TR L/E
Co-Owner: ANGELA APTEKMAN TRUST
Prop ID: 81-051-0050-J
Prop Location: 87 BRANDEIS RD Newton, MA
Mailing Address:
87 BRANDEIS RD
NEWTON, MA 02459

Owner: CHIN DAVID & KARIN TRS
Co-Owner: 93 BRANDEIS RD TRST
Prop ID: 81-051-0050-K
Prop Location: 93 BRANDEIS RD Newton, MA
Mailing Address:
PO BOX 84
WABAN, MA 02468

Owner: TREVENS NEWTON & WILLA R
Prop ID: 81-051-0050-L
Prop Location: 99 BRANDEIS RD Newton, MA
Mailing Address:
99 BRANDEIS RD
NEWTON CENTRE, MA 02459

Owner: ZHAO XUESONG
Prop ID: 81-051-0050-M

Prop Location: 107 BRANDEIS RD Newton, MA
Mailing Address:
32 SUFFOLK ST
CAMBRIDGE, MA 02139

Owner: MELMAN PAUL & YAEL
Prop ID: 81-051-0050-N
Prop Location: 111 BRANDEIS RD Newton, MA
Mailing Address:
111 BRANDEIS RD
NEWTON CENTRE, MA 02459

Owner: LOPEZ RUSSELL GREGORY
Co-Owner: LOK JOSEPHINE MUN-YEE
Prop ID: 81-051-0050-P
Prop Location: 119 BRANDEIS RD Newton, MA
Mailing Address:
119 BRANDEIS RD
NEWTON, MA 02459

Owner: CONCANNON ELLEN B
Co-Owner: KHORSHIDI REZA
Prop ID: 81-051-0050-Q
Prop Location: 131 BRANDEIS RD Newton, MA
Mailing Address:
131 BRANDEIS RD
NEWTON, MA 02459

Owner: CITY OF NEWTON
Co-Owner: SCHOOL DEPT-OAK HILL
Prop ID: 81-051-0052
Prop Location: 130 WHEELER RD Newton, MA
Mailing Address:
1000 COMM AVE
NEWTON, MA 02459

Owner: WANG ZHENRONG
Co-Owner: CHEN JING
Prop ID: 81-051-0053

Prop Location: 60 PARKER TER Newton, MA
Mailing Address:
60 PARKER TER
NEWTON, MA 02459

Owner: GLAZIER MARYANN GASH TR
Co-Owner: MARYANN GASH GLAZIER TRUST
Prop ID: 81-051-0054
Prop Location: 9 BRANDEIS RD Newton, MA
Mailing Address:
9 BRANDEIS RD
NEWTON, MA 02459

Owner: KANAN SAMEH
Prop ID: 81-051-0055
Prop Location: BRANDEIS RD Newton, MA
Mailing Address:
17 BRANDEIS RD
NEWTON CENTRE, MA 02459

Owner: KANAN SAMEH
Prop ID: 81-051-0056
Prop Location: 17 BRANDEIS RD Newton, MA
Mailing Address:
17 BRANDEIS RD
NEWTON CENTRE, MA 02459

Owner: ELLSWORTH CHRISTOPHER
Co-Owner: QUACH LUCY
Prop ID: 81-051-0057
Prop Location: 25 BRANDEIS RD Newton, MA
Mailing Address:
25 BRANDEIS RD
NEWTON, MA 02459

Owner: MAGIER EUGENE M & DEBRA A
Prop ID: 81-051-0058
Prop Location: 35 BRANDEIS RD Newton, MA
Mailing Address:

35 BRANDEIS RD
NEWTON, MA 02459

Owner: SOOHOO SAEBOM JILL
Co-Owner: SOOHOO JAMES C
Prop ID: 81-051-0059
Prop Location: 45 BRANDEIS RD Newton, MA
Mailing Address:
45 BRANDEIS RD
NEWTON, MA 02459

Owner: DEZUBE AARON & JESSICA
Prop ID: 81-051-0060
Prop Location: 53 BRANDEIS RD Newton, MA
Mailing Address:
53 BRANDEIS RD
NEWTON CENTRE, MA 02459

Owner: PENG LILY
Co-Owner: CHOU JAMES
Prop ID: 81-051-0061
Prop Location: 61 BRANDEIS RD Newton, MA
Mailing Address:
61 BRANDEIS RD
NEWTON, MA 02459

Owner: NANTHAKUMAR SUGANTHINI & NANDA
Prop ID: 81-051-0062
Prop Location: 71 BRANDEIS RD Newton, MA
Mailing Address:
71 BRANDEIS RD
NEWTON CENTRE, MA 02459

ATTACHMENT C
WETLAND DELINEATION DATA SHEETS

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

Applicant: Cambridge Network Solutions__ Prepared by: _M. Lofstedt_____ Project Location: 130 R Wheeler Road Plot: 1-1B Wet 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.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
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*
<u>Trees</u>				
Rhamnus cathartica	15%	100%	Yes	FAC
<u>Saplings</u>				
None				
<u>Shrubs</u>				
Rhamnus cathartica	30%	100%	Yes	FAC
<u>Herbs</u>				
Phragmites australis	50%	71%	Yes	FACW
Solanum dulcamara	20%	29%	Yes	FAC

* 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+, ACW-, 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: 4 Number of dominant non-wetland indicator plants: 0

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? **yes** no

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? **yes** no
 title/date:
 map number: 52A
 soil type mapped: Freetown muck
 hydric soil inclusions:

Are field observations consistent with soil survey? **yes** **no**

Remarks:

Depth to soil saturation in observation hole: __at surface__

- 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: _____

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
0	2-0"	Leaf litter/organics	
A1	0-5"	10YR 2/1 with concentrations of:	
		10YR 5/6 (3%) and 7.5YR 4/5 (7%), texture: coarse loamy sand	
A2	5-9"	2.5Y 3/1 with concentrations of	
		7.5YR 4/6 (8%), texture: coarse loamy sand	
B	9-18"	2.5Y 3/1 with concentrations of	
		7.5YR 4/6 (10%), texture: gravelly coarse loamy sand	

Remarks:

3. Other

Conclusion: Is soil hydric? **yes** no

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

- Site Inundated: _____
- Depth to free water in observation hole: _____

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: Cambridge Network Solutions__ Prepared by: _M. Lofstedt_____ Project Location: 130 R Wheeler Road Plot: 1-1B Wet 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.

Vegetation	Observation Plot Number:		Transect Number:	Date of Delineation:
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*
<u>Trees</u>				
Populus deltoides	30%	75%	Yes	FAC
Gleditsia triacanthos	10%	25%	Yes	FAC
<u>Saplings</u>				
Prunus serotina	20%	100%	Yes	FACU
<u>Shrubs</u>				
Rhamnus cathartica	30%	75%	Yes	FAC
Lonicera sp.	10%	25%	No	NI
<u>Herbs</u>				
None				

* 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+, ACW-, 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: 3 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** no

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? **yes** no
 title/date:
 map number: 52A
 soil type mapped: Freetown muck
 hydric soil inclusions:

Are field observations consistent with soil survey? yes **no**

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
0	1-0"	Leaf litter/organics	
A	0-12"+	10YR 3/2 texture: gravelly loamy sand	

Remarks:

3. Other

Conclusion: Is soil hydric? **yes** 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.

ATTACHMENT D
PHOTOGRAPHS



Photo 1: Southern end of excavated channel along the eastern side of the wetland, photo from WF 1-1D facing west.



Photo 2: View of excavated channel from WF 1-1E facing southwest



Photo 3: Demolition debris along wetland/upland line near WF 1-1M, facing north



Photo 4: Wetland delineation plot 1-1B Wet, view facing west