Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING
www.gandhengineering.com
Est. 1972

Whitinsville Office
1029 Providence Road
Whitinsville, MA 01588-2121
Phone: (508) 234-6834
Fax: (508) 234-6723

Milford Office
333 West Street
P.O. Box 235
Milford, MA 01757-0235
Phone: (508) 473-6630
Fax: (508) 473-8243

Franklin Office
55 West Central Street
Franklin, MA 02038-3807
Phone (508) 528-3221
Fax (508) 528-7921

W-2658-2

February 14, 2022

Town of Grafton Conservation Commission
Grafton Memorial Municipal Center
30 Providence Road
Grafton, Massachusetts 01519

Re: Notice of Intent – "Afonso Village II - Townhouses"

Dear Commission Members:

As the applicant's representative, Guerriere & Halnon, Inc. (G & H) hereby submits the Notice of Intent for "Afonso Village II - Townhouses". We have provided (1) original and (2) copies of the following documentation for your review and approval.

As part of the submittal G & H has included the following:

- Application for Grafton Wetlands and Stormwater Bylaw Permits;
- Supplemental Items Checklist and Associated Documents as Required;
- Stormwater Report;
- Complete set of 24x36 plans;
- Legal Advertising Fee = $168.00
- Wetlands Bylaw Fee = $800.00
- Stormwater Bylaw Fee = $100.00
- NOI Town Share Fee = $1,587.50
- NOI State Share Fee = $1,562.50 (Copy of Check)

Submitted to Planning Department with Site Plan Permit Application February 14, 2022.

We trust this meets with your requirements. Please contact us at our Franklin office at (508) 528-3221 if you have any questions or require additional information.

Sincerely,
Guerriere & Halnon, Inc.

Amanda Cavaliere

Amanda Cavaliere
Franklin Office Manager

Grafton Conservation Commission

GRAFTON MEMORIAL MUNICIPAL CENTER
30 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS 01519
Phone: (508) 839-5335 ext. 1138 • FAX: (508) 839-4602
www.grafton-ma.gov • concom@grafton-ma.gov

Application for (check those that apply):
☒ Grafton Wetlands Bylaw Permit
&/or
☒ Grafton Stormwater Bylaw Permit

1. Location of proposed work:

100 Westboro Road — Street Address
Grafton, MA 01519 — Zip Code

012.0 — Assessor's Map Number
portion of 0022.0 — Assessor's Lot Number

The property is recorded at the Worcester County Registry of Deeds:

34122 — Book
57 — Page

2. Property Owner:

D&F Afonso Builders — Name
189 Main Street, Milford, MA 01757 — Address
508-400-2436 — Phone Number
E-mail Address

3. Applicant (if different from owner):

Name
Address
Phone Number
E-mail Address

4. Plans accompanying this application:
Title: Date:

5. Description of the proposed project (attach additional sheets if necessary):
See Attached

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6. Total amount of proposed disturbance (square feet) 19,650 +/- sf (38,300 +/- sf TOTAL SITE w/i buffer only)

   Total amount of proposed disturbance (cubic yards) _____

   Total amount of impervious area to be created (square feet) 17,580 +/- sf TOTAL (5000 +/- sf w/i 50'-100' Buffer)

7. I understand that notification of the public hearing to be held on this application with the Grafton Conservation Commission will be published in *The Grafton News*, or another newspaper circulated in Grafton, at my expense.

8. (If applicable) I am requesting a waiver from Section _____ of the
   ☐Wetlands and/or ☐Stormwater ☐Bylaw and/or ☐Regulations
   for the following reason(s) (attach additional sheets for additional requests):

   _____

   _____

   _____

9. I understand that occasionally, the hearing schedule of the Conservation Commission precludes holding a hearing precisely within 21 days. If the next regular meeting of the Conservation Commission is not scheduled within 21 days of the date of my filing of a complete application or if a hearing cannot be scheduled, I waive the 21-day requirement and agree to a later date for a hearing pursuant to the Grafton Wetlands Protection Bylaw, the Grafton Stormwater Management Bylaw, and MGL Ch. 131 §40.

10. I understand that it is my responsibility to obtain any and all other necessary permits, such as those required by: the Army Corps of Engineers, the Natural Heritage & Endangered Species Program (NHESP), National Pollutant Discharge Elimination System (NPDES), the Massachusetts Department of Environmental Protection (MassDEP), and other Grafton Bylaws.

Owner's signature Domingos Afonso Date 2/11/2022

Applicant's signature (if different from owner) _____ Date_____

(Written authorization from owner must be attached if not signed above by owner.)

Grafton Conservation Commission

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Wetlands Bylaw Filing Fee Worksheet

Category	Fee	x	Number Proposed	= Subtotal
☐ Single-family dwelling	$100		_____	$_____
☐ Multi-family dwelling unit	$100		8	$ 800.-
☐ Commercial or industrial building	$300		_____	$_____
☐ Roadways and infrastructure	$300		_____	$_____
☐ Roadway or infrastructure crossing	$500		_____	$_____
☐ Driveway	$ 50		_____	$_____
☐ Driveway with crossing	$100		_____	$_____
☐ Septic construction/upgrade/repair	$ 50		_____	$_____
☐ House addition/garage/deck/pool/shed	$ 50		_____	$_____
☐ Parking lot less than 25 spaces	$100		_____	$_____
☐ Parking lot 25 - 50 spaces	$200		_____	$_____
☐ Parking lot more than 50 spaces	$500		_____	$_____
☐ Hazardous waste cleanup project	$100		_____	$_____
☐ Other residential activity	$ 50		_____	$_____
☐ Other commercial or industrial activity	$300		_____	$_____
☐ Waiver request	$ 50		_____	$_____
			Subtotal	**$** 800.—

Multipliers (check if applicable)

☐ Application submitted after the commencement of work	x 2
☐ Activities within *both* Riverfront Area & another resource area	x 1.5
☐ Activities within *both* Riverfront Area & another resource area's buffer zone	x 1.5
TOTAL	**$**_____

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Stormwater Bylaw Filing Fee Worksheet

Category	Fee
☐ Disturbance less than 40,000 square feet (area) but 1,000 cubic yards (volume)	$100
+ Add $50 for each additional 1,000 cubic yards or portion thereof	$_____
☒ Disturbance of 40,000 square feet up to one (1) acre	$100
☐ Disturbance greater than one (1) acre up to two (2) acres	$150
☐ Disturbance greater than two (2) acres up to three (3) acres	$200
☐ Disturbance greater than three (3) acres up to four (4) acres	$250
☐ Disturbance greater than four (4) acres up to five (5) acres	$300
☐ Disturbance greater than five (5) acres up to ten (10) acres	$350
☐ Disturbance greater than ten (10) acres up to fifteen (15) acres	$400
☐ Disturbance greater than fifteen (15) acres up to twenty (20) acres	$450
☐ Disturbance greater than twenty (20) acres up to twenty-five (25) acres	$500
+ Add $50 for each additional five (5) acres or portion thereof	$_____
☐ Waiver request $50 x _____ Number of requests	$_____
Subtotal	$ $100

Multiplier (check if applicable)

☐ Application submitted after the commencement of work x 2

TOTAL $ 100

Grafton Conservation Commission

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Supplemental Items to Attach to This Application:

- ☒ Maps with site outlined:
  - Grafton Assessors
  - NHESP Estimated Habitat
  - USGS
  - FEMA
  - NRCS soils with associated characteristics
- ☒ Narrative describing proposed work & impacts
- ☒ Cash or check payable to Town of Grafton for Wetlands and/or Stormwater Bylaw Permit(s) fees
- ☒ Certificate of Good Standing from Treasurer/Collector's Office
- ☒ Certified list of all abutters within 300' of site from Assessor's Office
- ☒ Certified mail receipts or certificate of mailing (*white* cards) for proof of abutter notification
- ☐ Certified mail receipt to NHESP if site is within mapped Estimated Habitat
- ☒ DEP Field Data Forms or other documentation for resource area delineations
- ☐ Alternatives analysis if alteration is proposed within riverfront area
- ☒ If filing under MA Wetlands Protection Act:
  - DEP WPA Form 3 (Notice of Intent) or DEP WPA Form 4 (Abbreviated Notice of Intent)
  - DEP WPA NOI Wetland Fee Transmittal Form
  - Copy of check sent to DEP
  - Cash or check payable to Town of Grafton for town portion of NOI fee
- ☒ If filing under Stormwater Bylaw:
  - Stormwater Report
    - Calculations for pre- & post-development conditions for the design storms specified in the SW Handbook
    - Drainage area maps showing pre- & post-development watershed boundaries & stormwater flow paths
    - Operation & Maintenance Plan including: contact info of responsible party, schedule of inspections & tasks to be performed, to whom results shall be reported, a copy of maintenance agreement between owner & responsible party & location of maintenance easements provided by owner
- ☒ If project is subject to the MassDEP Stormwater Management Standards:
  - MassDEP Checklist for Stormwater Report form
- ☐ If proposed alterations are to occur within vernal pool habitat or mapped rare species habitat or the proposed alterations exceed 10% or 50 feet of bank [310 CMR 10.54(4)(a)5], 10% or 5,000 square feet of land under water [310 CMR 10.56(4)(a)4], 10% or 5,000 square feet of bordering land subject to flooding [310 CMR 10.57(4)(a)3], or 10% or 5,000 square feet of riverfront area [310 CMR 10.58(4)(d)1]:
  - Wildlife Habitat Study
  - Plan for creation of compensatory habitat
- ☐ If alteration of resource areas is proposed:
  - Replication plan
  - Calculations to support the proposed replication (in the case of compensatory flood storage, calculations must include incremental flood storage volumes up to the 100-year flood elevation)
- ☒ Plans

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Requirements for Plans:

- ☒ Sheets no larger than 24" x 36"
- ☒ Site address
- ☒ Name of plan preparer
- ☒ Date of plan preparation or latest revision date
- ☒ Registered Professional Engineer or Registered Land Surveyor's stamp & signature
- ☒ Scale no greater than 1" = 50'
- ☒ Index sheet (if more than 1 sheet)
- ☒ North arrow
- ☒ Property boundaries showing metes & bounds and abutters
- ☒ Zoning district(s)
- ☒ Existing contours in 2' intervals for applications filed under Wetlands Bylaw only – 1' intervals for applications filed under Stormwater Bylaw
- ☒ All existing features on site, including: tree lines, stone walls, fences, cart paths, utilities & drainage structures
- ☒ All wetland resource areas on site or within 100' of the site & all rivers and perennial streams on site or within 200' of the site delineated by a wetland scientist using numbered flags
- ☒ 25' no-disturb zone for each resource area
- ☒ 100' buffer zone for each resource area
- ☐ 100' & 200' riverfront areas
- ☒ Maximum groundwater elevations with dates of measurements & percolation test data
- ☐ Water supplies, wells & septic systems on site and on abutting properties
- ☐ FEMA flood zones
- ☐ Proposed grading in 2' contours & spot grades
- ☒ All proposed features on site, including: tree lines, roads, driveways, structures, utilities & drainage structures
- ☒ Detail for all proposed drainage structures
- ☒ Location & detail of all erosion control devices, sedimentation basins & stockpiles
- ☒ Limit of disturbance
- ☐ Phasing plan (if disturbing 3 acres or more)
- ☒ Planting plan & specifications for all disturbed areas

RECEIVED

DEC 28 2021

GRAFTON ASSESSORS

TOWN OF GRAFTON
GRAFTON MEMORIAL MUNICIPAL CENTER
30 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS 01519
508-839-5335 ext 1165 • FAX 508-839-4602
www.grafton-ma.gov

BOARD OF ASSESSORS

Request for Abutters List

Date of Request: 12/28/2021 Date List Needed: 01/05/2022

Requested by: Amanda Cavaliere - Guerriere & Halnon, Inc. Phone: 508-528-3221

Name of Property Owner: D&F Afonso Builders Inc.

Street Address of Property: 100 Westboro Road

Map: 012.0 Block: 0000 Lot: 0022.0

REASON FOR LIST:

Hearing before Zoning Board of Appeals Yes ____ No X

Hearing before Planning Board Yes Y No ____

Hearing before Conservation Commission Yes Y No ____

Other: ____

REASON FOR HEARING - (please check one)

Variance ____ Scenic Road ____ Title 5 ____ Special Permit X Subdivision ____

Other: Special Permit and Site Plan Approval / Notice of Intent

RADIUS FOR ABUTTERS - (please check one)

Immediate ____ 300 Feet X Upon, along, across or under: ____

LABELS

Two (2) Sets of Labels are provided with abutters lists unless otherwise specified.

Other: ____ set(s) needed.

Office Use Only

Date List Prepared: 12/28/2021 Address Labels Prepared: 12/28/2021

Fee Charged: $ 50.00 Amt. Paid: $ 50.00 Date: 12/29/2021

Check: # 2501 Cash: $ X Money Order: $ X

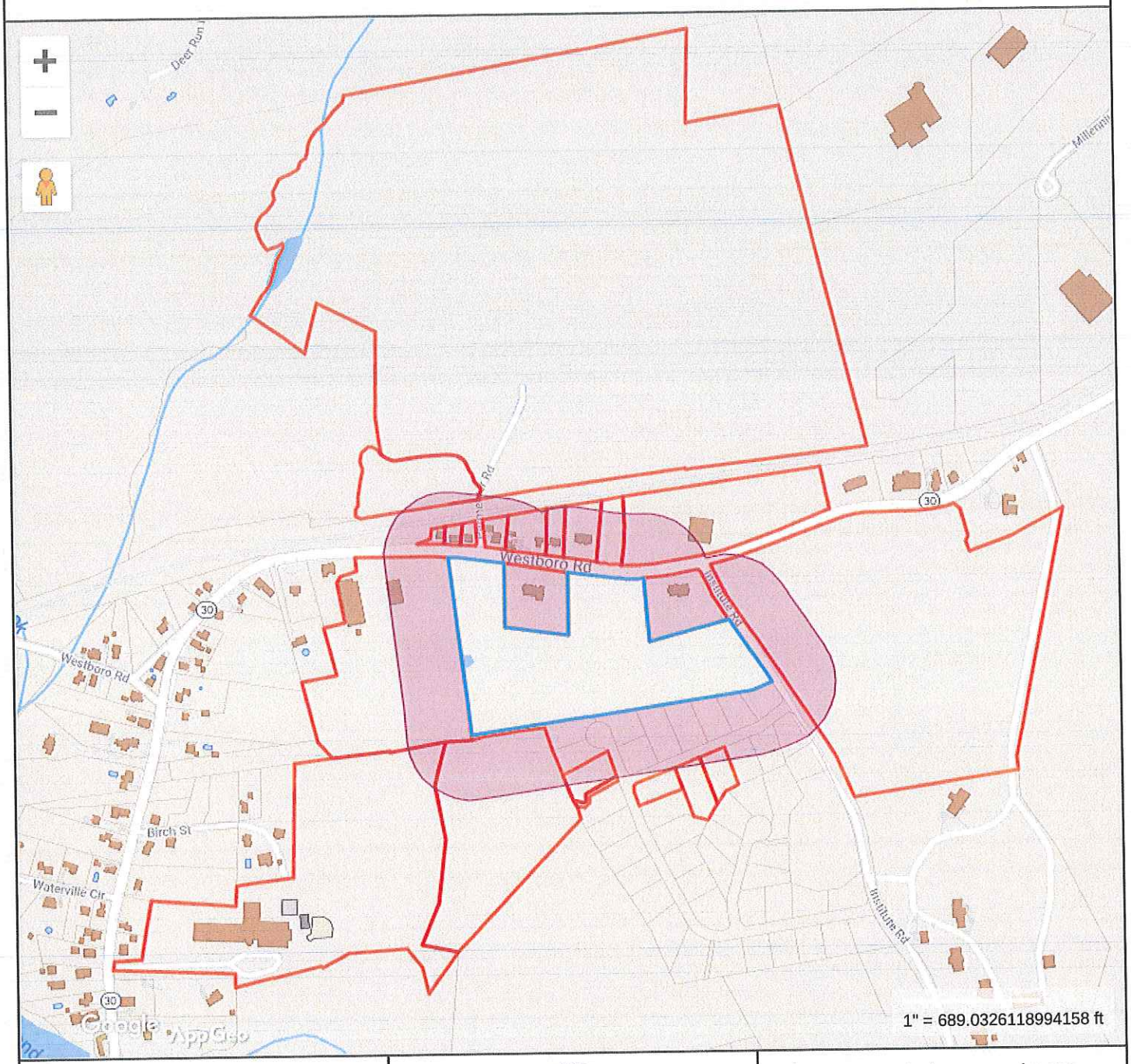
Revised 12/11/2018

/28/2021

00 Westboro Road
ap 12 Lot 22

Cody Herd, Data Collector

ARCEL ID	LOCATION	OWNER 1	OWNER 2	ADDRESS	CITY	ST	ZIP	BK	PG
12.0-0000-0001.0	121 WESTBORO ROAD	BLUE WATER DEVELOPMENT LLC		121 WESTBORO ROAD	N GRAFTON	MA	01536	22784	202
12.0-0000-0001.B	124 WESTBORO ROAD	MASSACHUSETTS DEVELOPMENT FINANCE AGENCY		99 HIGH STREET, 11TH FLOOF	BOSTON	MA	02110	57193	195
12.0-0000-0002.0	117 WESTBORO ROAD	ARUSS INVESTMENTS INC		75 SOUTHWEST CUTOFF	WORCESTER	MA	01604	57571	229
12.0-0000-0005.0	111 WESTBORO ROAD	MAYO PHILLIP M	MAYO ASHLEY	111 WESTBORO ROAD	N GRAFTON	MA	01536	55348	71
12.0-0000-0006.0	113 WESTBORO ROAD	DOYLE GRAFTON LLC		21 GREENWOOD ROAD, 21	HOPKINTON	MA	01748	59010	394
12.0-0000-0007.0	109 WESTBORO ROAD	SMALL JOHN W		109 WESTBORO ROAD	N GRAFTON	MA	01536	21201	280
12.0-0000-0008.0	107 WESTBORO ROAD	PIIRAINEN ANDREW R		931 E 2050 N	NORTH OGDEN	UT	84414	48655	82
12.0-0000-0009.0	97 WESTBORO ROAD	LAHAIR NANCY M		97 WESTBORO ROAD	N GRAFTON	MA	01536	18960	317
12.0-0000-0010.0	95 WESTBORO ROAD	LUGO, JEFTE	LUGO-PADILLA, ZULEYKA	95 WESTBORO ROAD	N GRAFTON	MA	01536	65363	165
12.0-0000-0011.0	93 WESTBORO ROAD	GOMES DE OLIVEIRA, DANIEL		93 WESTBORO ROAD	N GRAFTON	MA	01536	66205	30
12.0-0000-0012.0	88 WESTBORO ROAD	EQUIPMENT CARE CENTER OF GRAFTON LLC		88 WESTBORO ROAD	N GRAFTON	MA	01536	37347	145
12.0-0000-0015.0	105 WESTBORO ROAD	BT-NEWYO, LLC		55 GLENLAKE PARKWAY, NE	ATLANTA	GA	30328	59694	226
12.0-0000-0015.B	83 WESTBORO ROAD	NEW ENGLAND POWER CO	PROPERTY TAX DEPARTMENT	40 SYLVAN ROAD	WALTHAM	MA	02451	4964	572
12.0-0000-0020.0	122 WESTBORO ROAD	MASS COMMONWEALTH OF	DMH / DMR	1 ASHBURTON PLACE	BOSTON	MA	02108	1730	248
12.0-0000-0021.0	120 WESTBORO ROAD	MASS COMMONWEALTH OF	DMH / DMR	1 ASHBURTON PLACE	BOSTON	MA	02108	1730	248
12.0-0000-0022.0	100 WESTBORO ROAD	D & F AFONSO BUILDERS INC		189 MAIN STREET TEST	MILFORD	MA	01757	34122	57
19.0-0000-0093.0	46 WATERVILLE STREET	GRAFTON TOWN OF	N GRAFTON ELEMENTARY SCHOOL	30 PROVIDENCE ROAD	GRAFTON	MA	01519	3762	127
20.0-0000-0023.0	81 EAST STREET REAR	GRAFTON TOWN OF	RECREATION 15 YR/ MUNICIPAL 30YR RESTRI	30 PROVIDENCE ROAD	GRAFTON	MA	01519	28497	258
20.0-0000-0057.0	31 BROOKE STREET	D & F AFONSO BUILDERS INC		189 MAIN STREET TEST	MILFORD	MA	01757	34122	57
20.0-0000-0058.0	29 BROOKE STREET	D & F AFONSO BUILDERS INC		189 MAIN STREET TEST	MILFORD	MA	01757	34122	57
20.0-0000-0060.0	11 AUDRINA LANE	D & F AFONSO BUILDERS INC		189 MAIN STREET TEST	MILFORD	MA	01757	34122	57
20.0-0000-0061.0	9 AUDRINA LANE	D & F AFONSO BUILDERS INC		189 MAIN STREET TEST	MILFORD	MA	01757	34122	57
20.0-0000-0062.0	7 AUDRINA LANE	D & F AFONSO BUILDERS INC		189 MAIN STREET TEST	MILFORD	MA	01757	34122	57



Property Information

Property ID	012.0-0000-0022.0
Location	100 WESTBORO ROAD
Owner	D & F AFONSO BUILDERS INC

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

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

Geometry updated 3/23/2021
Data updated 3/23/2021

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

BLUE WATER DEVELOPMENT LLC
121 WESTBORO ROAD
N GRAFTON, MA 01536

MAYO PHILLIP M
MAYO ASHLEY
111 WESTBORO ROAD
N GRAFTON, MA 01536

PIIRAINEN ANDREW R
931 E 2050 N
NORTH OGDEN, UT 84414

GOMES DE OLIVEIRA, DANIEL
93 WESTBORO ROAD
N GRAFTON, MA 01536

NEW ENGLAND POWER CO
PROPERTY TAX DEPARTMENT
40 SYLVAN ROAD
WALTHAM, MA 02451

D & F AFONSO BUILDERS INC
189 MAIN STREET TEST
MILFORD, MA 01757

D & F AFONSO BUILDERS INC
189 MAIN STREET TEST
MILFORD, MA 01757

D & F AFONSO BUILDERS INC
189 MAIN STREET TEST
MILFORD, MA 01757

MASSACHUSETTS DEVELOPMENT FINANCE AGENCY
99 HIGH STREET, 11TH FLOOR
BOSTON, MA 02110

DOYLE GRAFTON LLC
21 GREENWOOD ROAD, 21
HOPKINTON, MA 01748

LAHAIR NANCY M
97 WESTBORO ROAD
N GRAFTON, MA 01536

EQUIPMENT CARE CENTER OF GRAFTON LLC
88 WESTBORO ROAD
N GRAFTON, MA 01536

MASS COMMONWEALTH OF
DMH / DMR
1 ASHBURTON PLACE
BOSTON, MA 02108

GRAFTON TOWN OF
N GRAFTON ELEMENTARY SCHOOL
30 PROVIDENCE ROAD
GRAFTON, MA 01519

D & F AFONSO BUILDERS INC
189 MAIN STREET TEST
MILFORD, MA 01757

D & F AFONSO BUILDERS INC
189 MAIN STREET TEST
MILFORD, MA 01757

ARUSS INVESTMENTS INC
75 SOUTHWEST CUTOFF
WORCESTER, MA 01604

SMALL JOHN W
109 WESTBORO ROAD
N GRAFTON, MA 01536

LUGO, JEFTE
LUGO-PADILLA, ZULEYKA
95 WESTBORO ROAD
N GRAFTON, MA 01536

BT-NEWYO, LLC
55 GLENLAKE PARKWAY, NE
ATLANTA, GA 30328

MASS COMMONWEALTH OF
DMH / DMR
1 ASHBURTON PLACE
BOSTON, MA 02108

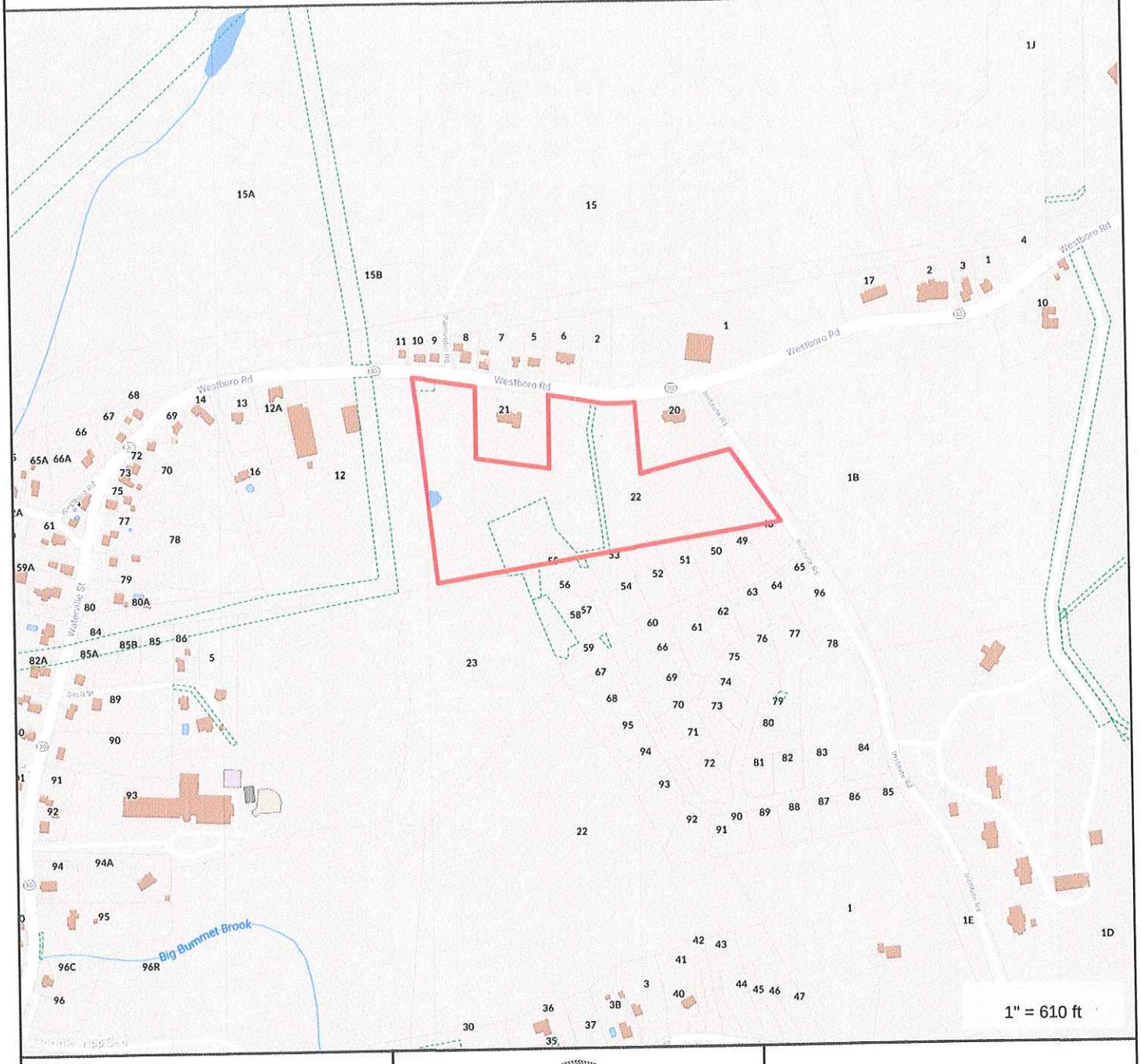
GRAFTON TOWN OF
RECREATION 15 YR/ MUNICIPAL 30YR RESTRIC
30 PROVIDENCE ROAD
GRAFTON, MA 01519

D & F AFONSO BUILDERS INC
189 MAIN STREET TEST
MILFORD, MA 01757

Town of Grafton, MA

January 16, 2020

Assessor Map 12 Lot 22



MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

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Geometry updated 4/1/2018
Data updated 4/1/2018

Grafton Conservation Commission

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Affidavit of Service

Under the Massachusetts Wetlands Protection Act
and/or the Grafton Wetlands Protection Bylaw
and/or the Grafton Stormwater Management Bylaw

I, Amanda Cavaliere, hereby certify under the pains and penalties of perjury that on _____ (date), I gave notification to abutters in compliance with the Massachusetts Wetlands Protection Act and/or Article 25 and/or Article 36 of the Grafton General Bylaws and Regulations for administration of same in connection with the following matter:

- ☒ A Notice of Intent or Abbreviated Notice of Resource Area Delineation filed under the Massachusetts Wetlands Protection Act
- ☒ An Application for Grafton Wetlands Protection Bylaw Permit filed under the Grafton Wetlands Protection Bylaw
- ☒ An Application for Grafton Stormwater Management Bylaw Permit filed under the Grafton Stormwater Management Bylaw

by D&F Afonso Builders (name of applicant) with the Grafton Conservation Commission on _____ (date) for property located at 100 Westboro Road (address of proposed work).

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

Amanda Cavaliere
Signature

_____
Date

Grafton Conservation Commission

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30 PROVIDENCE ROAD
GRAFTON, MASSACHUSETTS 01519
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Notice to Abutters

Under the Massachusetts Wetlands Protection Act
and/or the Grafton Wetlands Protection Bylaw
and/or Grafton Stormwater Management Bylaw

Date: _____

To: _____
(Abutter) (Address)

From: D&F Afonso Builders 189 Main Street, Milford, MA 01757
(Applicant) (Address)

Re: Property identified on Grafton Assessor's Map #: 012.0 Parcel #: 0022.0

Located at: 100 Westboro Road

Proposed work: _____

Pursuant to the requirements of the MA Wetlands Protection Act, and/or the Grafton Wetlands Protection Bylaw, and/or the Grafton Stormwater Management Bylaw, I am writing to advise that I have filed the following with the Grafton Conservation Commission:

☒ An Application for Grafton Wetlands Protection Bylaw Permit and/or Notice of Intent (NOI)

☐ An Abbreviated Notice of Resource Area Delineation (ANRAD)

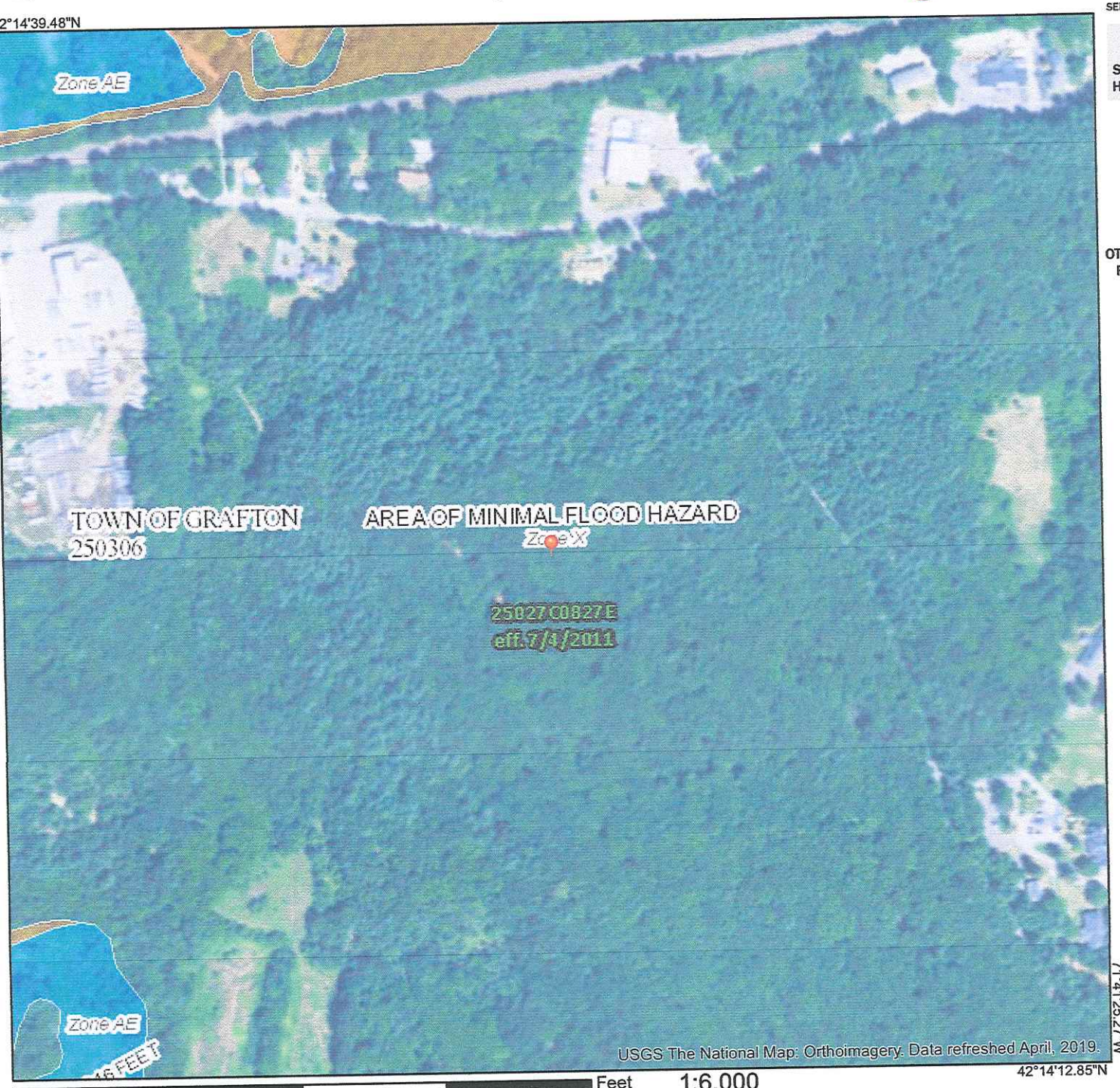
☒ An Application for Grafton Stormwater Management Bylaw Permit

The Grafton Wetlands Protection Bylaw and/or the Grafton Stormwater Management Bylaw defines abutters as those whose property lies within 300 feet of the property identified above.

The Grafton Conservation Commission will be holding a public hearing on this within 21 days or any approved extension. Notice of that public hearing can be found: on grafton-ma.gov, in the town hall, and within *The Grafton News* or another newspaper circulated in Grafton. All materials relating to this project, including plans, can be found online at www.grafton-ma.gov/conservation-commission/pages/projects or on file with the Grafton Conservation Commission, Grafton Municipal Center, 30 Providence Road, Grafton, MA 01519. If you have any questions, you may contact me or the Conservation Commission.

National Flood Hazard Layer FIRMette

FEMA



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represen 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

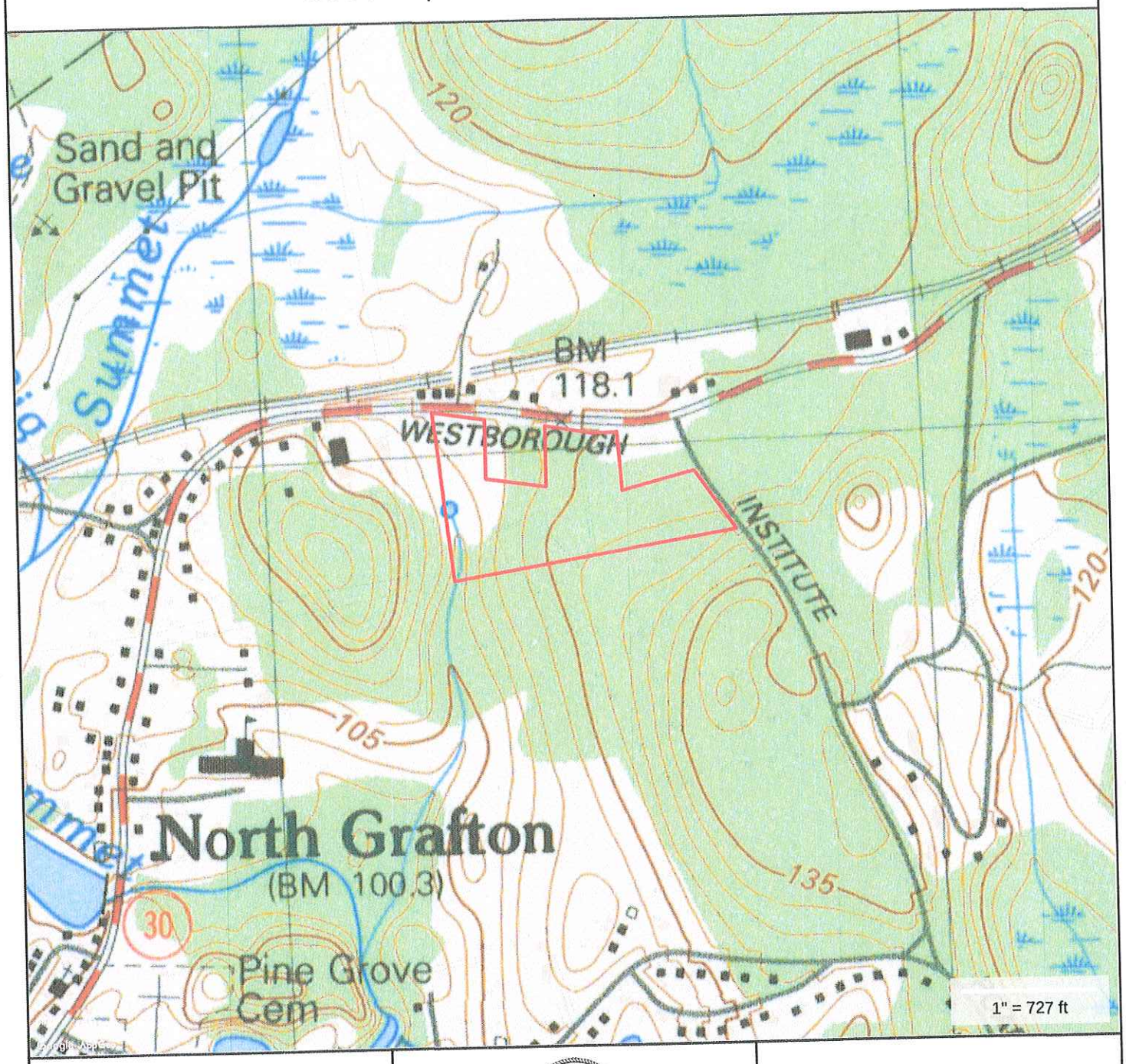
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/16/2020 at 7:44:11 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded 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.

Town of Grafton, MA

January 16, 2020

USGS Map -100 Westboro Road Grafton

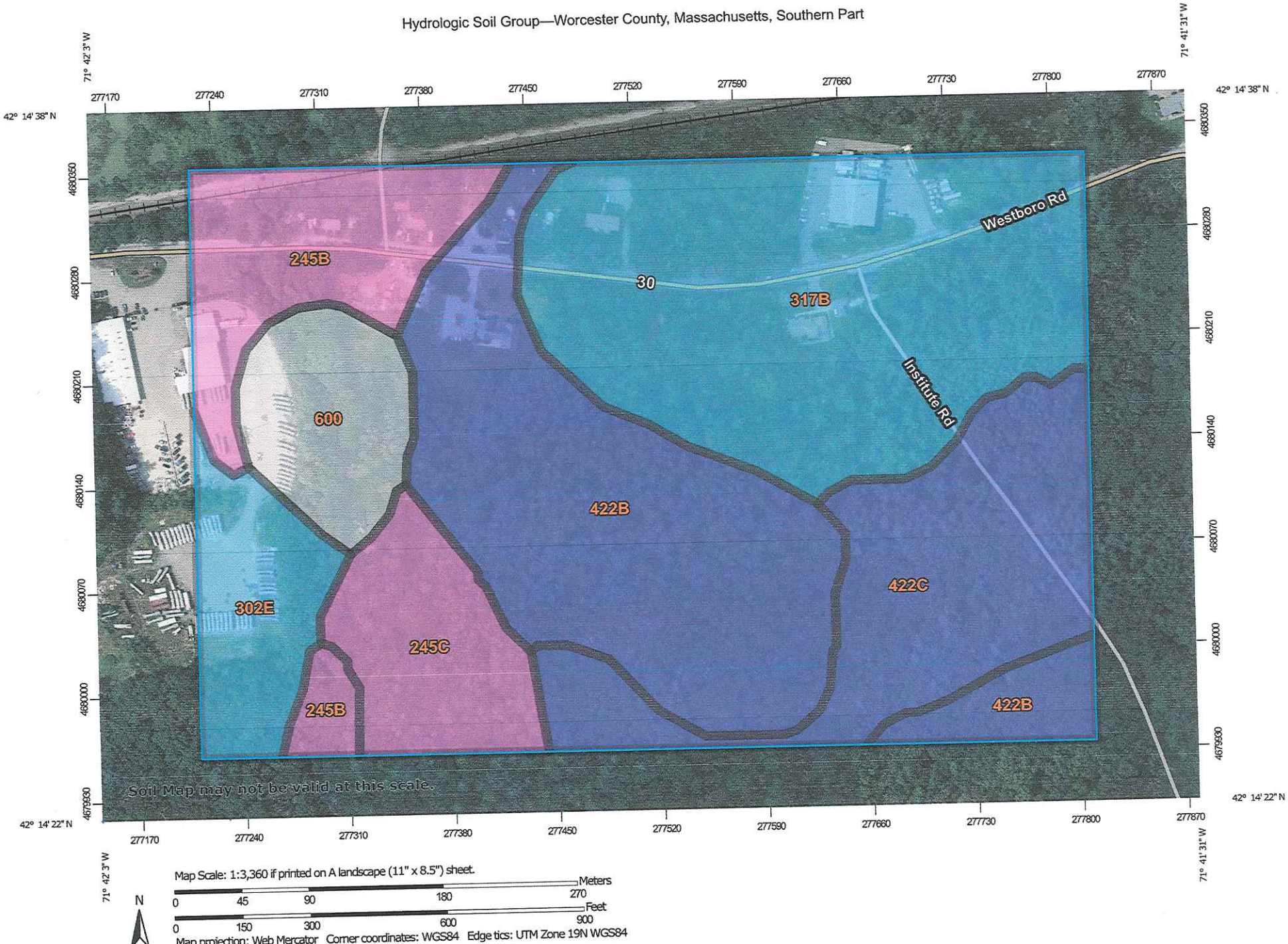


MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

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

Geometry updated 4/1/2018
Data updated 4/1/2018

Hydrologic Soil Group—Worcester County, Massachusetts, Southern Part



Map Scale: 1:3,360 if printed on A landscape (11" x 8.5") sheet.

Meters: 0, 45, 90, 180, 270

Feet: 0, 150, 300, 600, 900

N

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

Soil Rating Polygons

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Lines

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Soil Rating Points

- A
- A/D
- B
- B/D
- C
- C/D
- D
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:25,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Worcester County, Massachusetts, Southern Part
Survey Area Data: Version 14, Sep 3, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 26, 2019—Oct 5, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
245B	Hinckley loamy sand, 3 to 8 percent slopes	A	5.9	10.0%
245C	Hinckley loamy sand, 8 to 15 percent slopes	A	4.3	7.3%
302E	Montauk fine sandy loam, 15 to 35 percent slopes, extremely stony	C	3.6	6.1%
317B	Scituate fine sandy loam, 3 to 8 percent slopes, extremely stony	C	17.2	29.2%
422B	Canton fine sandy loam, 0 to 8 percent slopes, extremely stony	B	15.2	25.7%
422C	Canton fine sandy loam, 8 to 15 percent slopes, extremely stony	B	9.0	15.3%
600	Pits, gravel		3.7	6.2%
Totals for Area of Interest			**58.9**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Natural Heritage Endangered Species Estimated Habitat Map

For

Afonso Village – A Mixed Use Development

Grafton, MA.

Guerriere & Halnon, Inc.
ENGINEERING & LAND SURVEYING

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 Number

Document Transaction Number

Grafton
City/Town

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

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

A. General Information

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

100 Westboro Road
a. Street Address

Grafton
b. City/Town

01519
c. Zip Code

Latitude and Longitude:

42d14m29.5sW
d. Latitude

71d41m43.2sW
e. Longitude

Map 012.0
f. Assessors Map/Plat Number

portion of Lot 0022.0
g. Parcel /Lot Number

2. Applicant:

a. First Name

b. Last Name

D&F Afonso
c. Organization

189 Main Street
d. Street Address

Milford
e. City/Town

MA
f. State

01757
g. Zip Code

508-400-2436
h. Phone Number

i. Fax Number

j. Email Address

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

a. First Name

b. Last Name

c. Organization

d. Street Address

e. City/Town

f. State

g. Zip Code

h. Phone Number

i. Fax Number

j. Email address

4. Representative (if any):

Amanda
a. First Name

Cavaliere
b. Last Name

Guerriere & Halnon, Inc.
c. Company

55 West Central Street
d. Street Address

Franklin
e. City/Town

MA
f. State

02038
g. Zip Code

508-528-3221
h. Phone Number

i. Fax Number

acavaliere@gandhengineering.com
j. Email address

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

$3,150.00
a. Total Fee Paid

$1,562.50
b. State Fee Paid

$1,587.50
c. City/Town Fee Paid

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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Provided by MassDEP:

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A. General Information (continued)

6. General Project Description:

See Attached

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

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

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

1. ☐ Yes ☒ No

If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

Norfolk a. County	b. Certificate # (if registered land)
34122 c. Book	57 d. Page Number

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

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

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

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Bank	1. linear feet	2. linear feet
b. ☐ Bordering Vegetated Wetland	1. square feet	2. square feet
c. ☐ Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. ☐ 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 — 1. Name of Waterway (if available) - **specify coastal or inland**

2. Width of Riverfront Area (check one):

☐ 25 ft. - Designated Densely Developed Areas only

☐ 100 ft. - New agricultural projects only

☐ 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: _____ 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)

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

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Provided by MassDEP:

MassDEP File Number

Document Transaction Number

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

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. ☐ Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. ☐ Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. ☐ Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. ☐ Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. ☐ Coastal Dunes	1. square feet	2. cubic yards dune nourishment
	Size of Proposed Alteration	Proposed Replacement (if any)
f. ☐ Coastal Banks	1. linear feet	
g. ☐ Rocky Intertidal Shores	1. square feet	
h. ☐ Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. ☐ Land Under Salt Ponds	1. square feet 2. cubic yards dredged	
j. ☐ Land Containing Shellfish	1. square feet	
k. ☐ 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. ☐ Land Subject to Coastal Storm Flowage	1. square feet	

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 or B.3.h above, please enter the additional amount here.

a. square feet of BVW

b. square feet of Salt Marsh

5. ☐ Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings

Massachusetts Department of Environmental Protection
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Provided by MassDEP:
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Grafton
City/Town

C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

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

Oliver GIS
b. Date of map

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

c. Submit Supplemental Information for Endangered Species Review*

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

(b) ☐ Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

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

Massachusetts Department of Environmental Protection
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C. Other Applicable Standards and Requirements (cont'd)

(c) ☐ MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and ***mail to NHESP*** at above address

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

(d) ☐ Vegetation cover type map of site

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

(f) OR Check One of the Following

1. ☐ Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

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

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

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

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

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

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

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 South Rodney French Blvd.
New Bedford, MA 02744
Email: DMF.EnvReview-South@state.ma.us

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930
Email: DMF.EnvReview-North@state.ma.us

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

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Bureau of Resource Protection - Wetlands

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

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

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

   a. ☐ Yes ☒ No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.

   b. ACEC

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

   a. ☐ Yes ☒ No

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

   a. ☐ Yes ☒ No

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

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

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

      2. ☐ A portion of the site constitutes redevelopment

      3. ☐ Proprietary BMPs are included in the Stormwater Management System.

   b. ☐ No. Check why the project is exempt:

      1. ☐ Single-family house

      2. ☐ Emergency road repair

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

      or

D. Additional Information

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

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

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

1. ☒ USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)

2. ☒ Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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D. Additional Information (cont'd)

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

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

Site Plan for Afonso Village II
a. Plan Title

Guerriere & Halnon, Inc.
b. Prepared By

Elizabeth Mainini-Sanchioni PLS
c. Signed and Stamped by

12/28/2021
d. Final Revision Date

As Noted
e. Scale

f. Additional Plan or Document Title

g. Date

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

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

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

8. ☒ Attach NOI Wetland Fee Transmittal Form

9. ☒ Attach Stormwater Report, if needed.

E. Fees

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

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

2505
2. Municipal Check Number

12/27/2021
3. Check date

2506
4. State Check Number

12/27/2021
5. Check date

D&F Afonso Builders, Inc.
6. Payor name on check: First Name

7. Payor name on check: Last Name

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

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Provided by MassDEP:

MassDEP File Number

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Grafton
City/Town

F. Signatures and Submittal Requirements

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

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

Domingos Afonso 1. Signature of Applicant	2/11/2022 2. Date
Domingos Afonso 3. Signature of Property Owner (if different)	2/11/2022 4. Date
Amanda Cavalucci 5. Signature of Representative (if any)	2/11/2022 6. Date

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

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

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

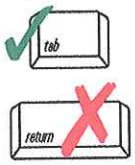
The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

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

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



A. Applicant Information

1. Location of Project:

100 Westboro Road	Grafton
a. Street Address	b. City/Town
2506	$1,562.50
c. Check number	d. Fee amount

2. Applicant Mailing Address:

a. First Name	b. Last Name	
D&F Afonso Builders		
c. Organization		
189 Main Street		
d. Mailing Address		
Milford	MA	01757
e. City/Town	f. State	g. Zip Code
508-400-2436		
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

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

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

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

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

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

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

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

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

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

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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 3(a) - Site Preparation	1		$1,050.00
Category 3(b)	2		$2,150.00

Step 5/Total Project Fee: $3,150.00

Step 6/Fee Payments:

Total Project Fee:	$3,150.00 a. Total Fee from Step 5
State share of filing Fee:	$1,587.50 b. 1/2 Total Fee **less** $12.50
City/Town share of filling Fee:	$1,562.50 c. 1/2 Total Fee **plus** $12.50

C. Submittal Requirements

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

Department of Environmental Protection
Box 4062
Boston, MA 02211

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

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

Notice of Intent
Afonso Village II - Townhouses
Grafton, Massachusetts

Background:
In July 2020, the Town of Grafton Planning Board endorsed "Afonso Village" a village mixed use project consisting of five 3-story buildings, four town houses and associated roadways, parking and utilities. The proposed mixed-use development will consist of (23) 1-bedroom units, (78) 2-bedroom units, approximately 14,000 square feet (sf) +/- of retail space and (4) 2-bedroom unit townhouses which will be connected to the Town water and sewer, with a detention pond proposed at the southwesterly portion of the site. The Applicant is respectfully requesting site plan approval from the Planning Board to allow for (8) additional townhouses on a 1.05+/- acre portion of the lot previously approved as a village mixed use, which will then be separated into its own parcel.

Site Location:
The project site listed as 100 Westboro Road (aka "Parcel D") with the Town of Grafton Assessors Department, is located at the corner of Westboro and Institute Roads in Grafton Massachusetts. Figure 1 shows the site locus. Parcel "D" consists of approximately 15.72 acres of undeveloped wooded area recently permitted as a village mixed-use development in July 2020, of which, the Applicant is proposing to construct (8) additional 2-bedroom unit townhouses on a portion of the 15.72 acres consisting of approximately 45,880 +/- sf of land located to the northwest portion of the site and south of the existing sewer pump station. The existing topography slopes from southeast to northwest toward the wetland located in the northwest corner of the lot.

Project Description:
The Applicant/Owner, D&F Afonso Builders, is proposing to develop approximately 1.05+/- acres of Parcel "D" with (8) 2-bedroom unit townhouses. The land will be separated from Parcel "D" through the Approval Not Required (ANR) process upon approval from the Planning Board. This project will consist of a separate detention pond, water service and sewer service.

The attached Site Plan depicts the location of the proposed townhouse locations, parking accommodations, erosion control, drainage infrastructure, utilities, and landscaping. A brief review of the characteristics of the project site is presented below.

A. Site Characteristics:

1. Vegetative Cover –The project site is a wooded area. The tree cover is extensive throughout the site with a mix of mature trees within the site. A wooded wetland appears to be the dominant feature, while in the development area a mix of softwoods and conifers are also present. Brush cover is not overly extensive due to the heavy tree canopy.

2. Geologic Properties – The project site is located according to the Worcester County Soil Survey, the soils on the site are mainly classified as Canton fine sandy loam and further described in the attached USDA NRCS Custom Soil Report for Worcester County.

3. Manmade Features – The majority of the project site is not a developed area. However, the site does contain the sewer pump station, constructed as part of the previously approved development, which is located within a designated easement. The current site is not classified as a historic residence, nor are there any other accessory buildings or ruins on the site that would meet this definition.

Notice of Intent
Afonso Village II - Townhouses
Grafton, Massachusetts

Areas of Disturbance:
The proposed activities onsite will generally consist of clearing and grubbing, construction of an infiltration basin with sediment forebay, (2) 128'x36' buildings, and associated utilities and paving. Applicant is proposing to construct a drainage basin on the west side of the property to accommodate proposed stormwater mitigation for this portion of Parcel "D" which will consist of approximately 1.05+/- acres of land.

The site work will disturb approximately 11,000+/- sf of land located within the 50'-100' buffer zone of bordering vegetated wetlands and approximately 2,400 +/- sf of land located within the 25'-50' buffer zone. No construction activities are proposed within the 0-25' no disturb.

A sewer pump station was previously constructed and that area of disturbance has not been included in our areas of disturbance calculation.

Mitigating Measures:
Erosion control will be installed as depicted on Sheet 5 of 8 (Erosion Control and Landscaping Plan) to mitigate sediment and runoff and impacts to the resource areas are not anticipated. The sediment and particulates will be monitored under MassDEP Stormwater Regulations and the local Stormwater Bylaw requirements. The erosion control for stormwater will be monitored under an Order of Conditions, the Special Permit and also the DPW Stormwater Permit.

February 17, 2020
Guerriere & Halnon, Inc.
PO Box 235
Milford, MA 01757

Re: Wetland Border Report
Institute Road, Grafton, MA

Dear Guerriere & Halnon:

On February 17, 2020 during no snow and un-frozen ground conditions the wetland resources were delineated on land located off Westboro and Institute Roads in Grafton, MA (refer to enclosed locus maps). The wetland border was flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al and the Grafton Wetland Protection Bylaw. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

One Bordering Vegetated Wetland and top of Bank of an intermittent stream channel were delineated in the field. This forested wetland, flagged with series GC 1-50, is dominant in red maple, buckthorn, winterberry, arrow-wood, high bush blueberry, poison ivy and wetland ferns. The adjacent forested upland is dominant in oak, white pine, rose, Canada Mayflower and poison ivy. Department of Environmental Protection BVW field data forms were documented at wetland flag # GC-24 (see attached form).

Several isolated vegetated wetlands were flagged on site. The first was flagged with series A1-27. This wetland is dominant in red maple, black birch, highbush blueberry and cinnamon fern. Wetland B, flagged with series B1-12, appears to flood and is a mapped vernal pool. This area may also qualify as the state resource area Isolated Land Subject to Flooding (capable of holding ¼ acre foot of water, ILSF). Wetland C, flagged with series C1-22, is dominant in red maple and wetland ferns. Wetland D, flagged with series D1-9, is dominant in red maple and white pines. The adjacent uplands are vegetated with white pine and oaks. Department of Environmental Protection BVW field data forms were documented at wetland flag # A7, C18 and E22 (see attached forms).

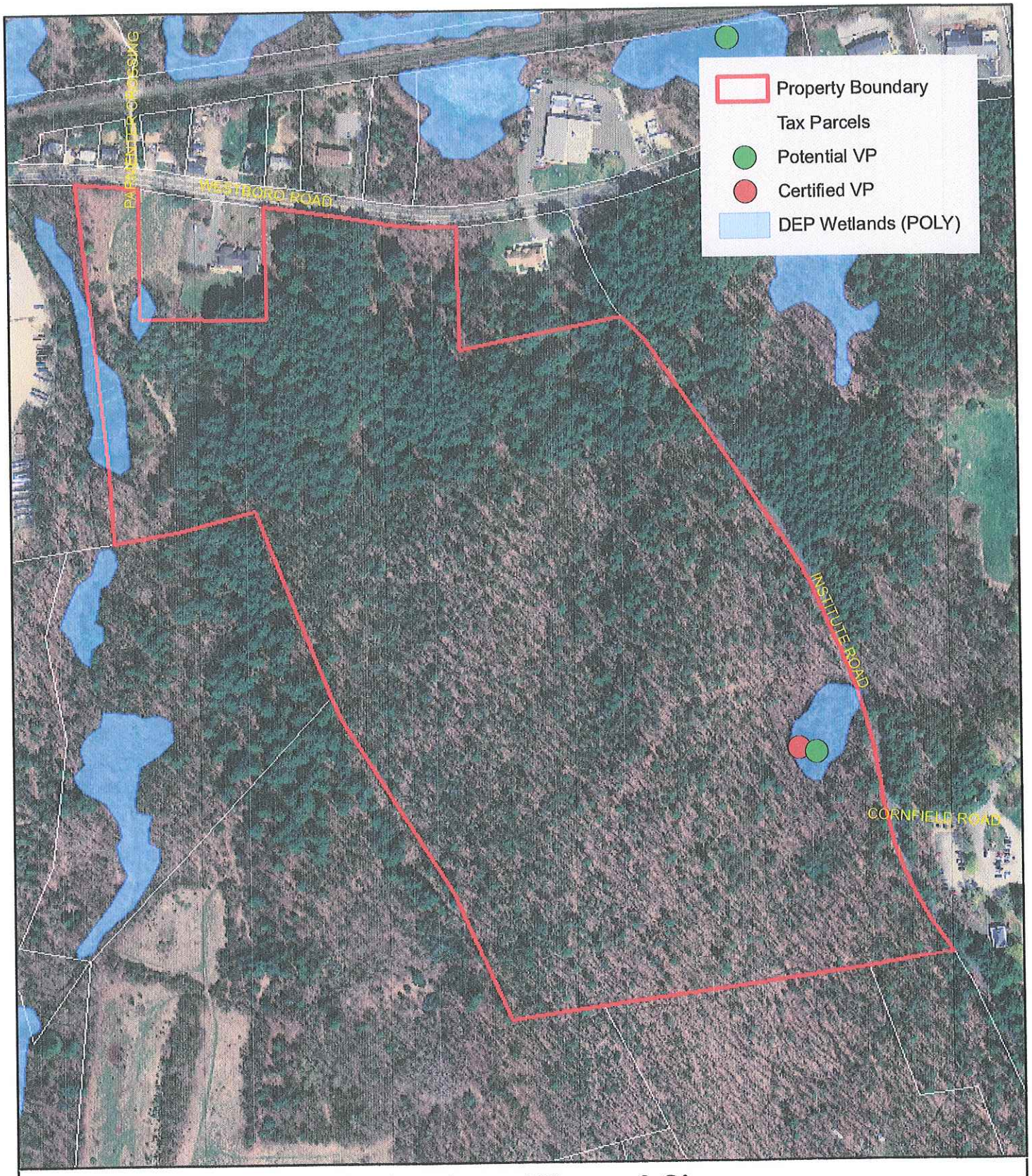
A larger isolated wetland was flagged near Institute Road with series E1-32. This wetland is dominant in red maple, sweet pepperbush, highbush blueberry and wetland ferns. This area is a mapped vernal pool and may also qualify as an Isolated Land Subject to Flooding resource area.

According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife and has two mapped vernal pools as indicated above. The site is not located in an ACEC or a jurisdictional FEMA Flood Zones.

The Town of Grafton Wetland Protection Bylaw and the MA Wetlands Protection Act takes jurisdiction over BVW resources. In addition, these resource areas have a jurisdictional 100-foot Buffer Zone. The Grafton Wetland bylaw takes jurisdiction over IWS and their jurisdictional buffer zone. Any work within the resource areas and/or 100-foot buffer zone requires a Request for Determination (RDA) or Notice of Intent (NOI) be filed with the Conservation Commission.

Very truly yours,
GODDARD CONSULTING, LLC

Scott Goddard,
Principal & PWS



Orthophoto View of Site

100 Westboro Road - Grafton, MA

N

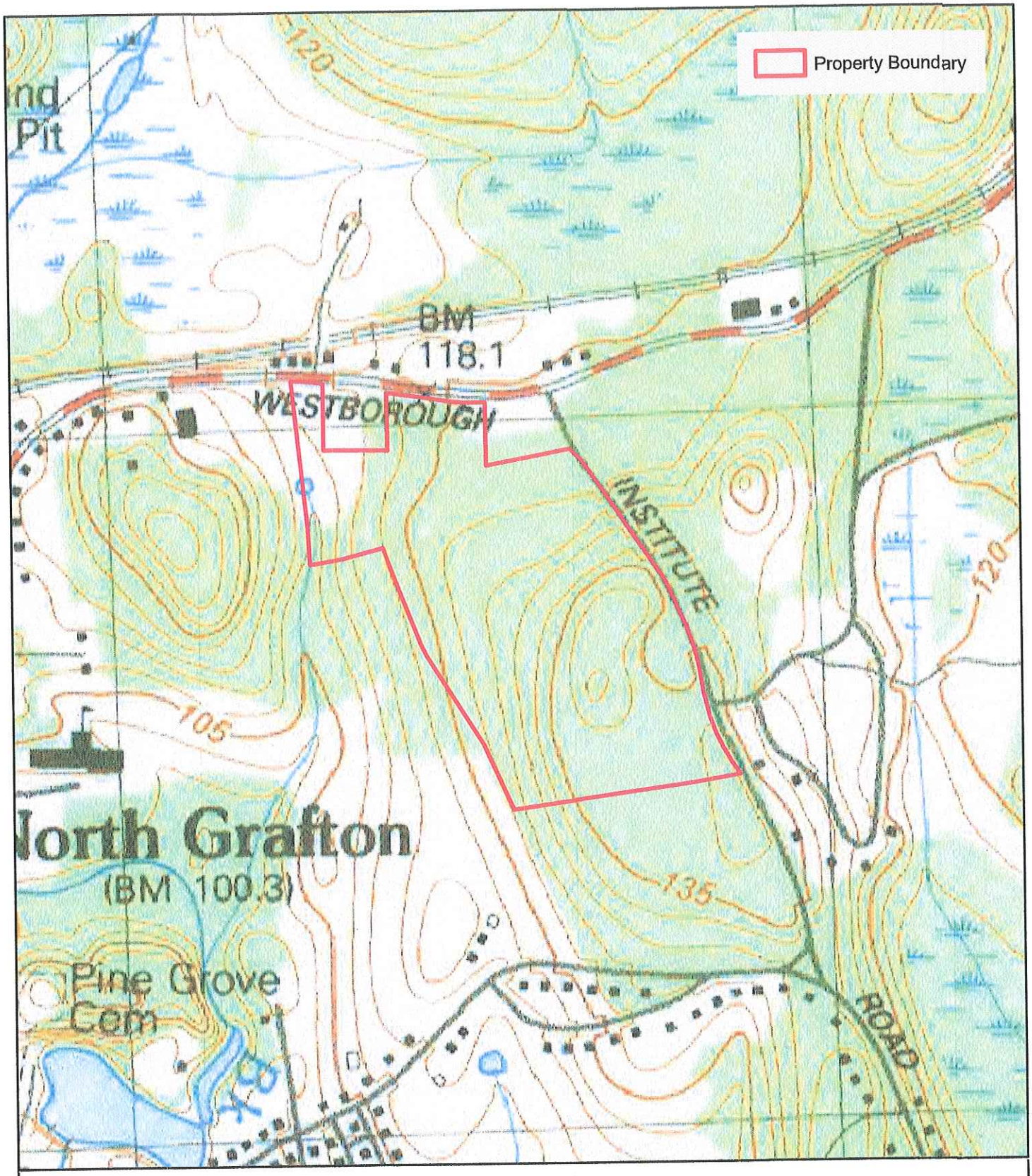
Date: 10/27/16

0 112.5 225 450 Feet

1 inch = 320 feet

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

GODDARD CONSULTING LLC
Strategic Wetland Permitting



USGS Site Locus

100 Westboro Road - Grafton, MA

N

Date: 10/27/16

0 220 440 880 Feet

1 inch = 625 feet

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

GODDARD CONSULTING LLC
Strategic Wetland Permitting

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

Applicant: G and H Prepared by: Goddard Consulting LLC Project location: Institute Rd, Grafton DEP File #: _____

Check all that apply:
- [ ] Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- [x] 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: A7 Transect Number: Upgradient Date of Delineation: 17-Feb-20

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Oak	*Quercus rubra*	36%	50.0%	Yes	FACU
White pine	*Pinus strobus*	36%	50.0%	Yes	FACU
Sapling Layer					
Red Oak	*Quercus rubra*	10%	100.0%	Yes	FACU
Shrub Layer					
Climbing Woody Vine					
Ground Cover					
Princess-pine	*Dendrolycopodium obscurum*	10%	100.0%	Yes	FACU

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

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

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

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

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

title/date: **Soil Survey of Worcester County, Southern Part - 1998**

map number:

soil type mapped: **Gravel pit**

hydric soil inclusions: **None**

Are field observations consistent with soil survey? ☑ yes ☐ no

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
A	1-6	10YR2/2	
B	6-20	10YR5/4	

Remarks:

3. Other:

Conclusion: Is soil hydric? ☐ yes ☑ no

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

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

Vegetation and Hydrology Conclusion for Upgradient of A7	**yes**	**no**
Number of wetland indicator plants >= number of non-wetland plants		X
Wetland hydrology present:		
hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

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

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

Applicant: G and H Prepared by: Goddard Consulting LLC Project location: Institute Rd, Grafton DEP File #: _____

Check all that apply:
- [ ] Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- [x] 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: A7 Transect Number: Downgradient Date of Delineation: 17-Feb-20

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Maple	*Acer rubrum*	36%	100.0%	Yes	FAC*
Sapling Layer					
Red Maple	*Acer rubrum*	20%	50.0%	Yes	FAC*
Black birch	*Betula lenta*	20%	50.0%	Yes	FACU
Shrub Layer					
Highbush blueberry	*Vaccinium corymbosum*	10%	100.0%	Yes	FACW*
Climbing Woody Vine					
Eastern poison ivy	*Toxicodendron radicans*	10%	100.0%	Yes	FAC*
Ground Cover					
Cinnamon fern	*Osmundastrum cinnamomeum*	10%	50.0%	Yes	FACW*
Eastern poison ivy	*Toxicodendron radicans*	10%	50.0%	Yes	FAC*

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

Number of dominant wetland indicator plants: 6 **Number of dominant non-wetland indicator plants: 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 presumes adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

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

title/date: **Soil Survey of Worcester County, Southern Part - 1998**

map number:

soil type mapped: **Gravel pit**

hydric soil inclusions: **None**

Are field observations consistent with soil survey? ☐ yes ☑ no

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
O	1-8	10YR2/1	
C	8-20	10YR6/1	

Remarks:

3. Other:

Conclusion: Is soil hydric? ☑ yes ☐ no

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

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

Vegetation and Hydrology Conclusion for Downgradient of A7

	yes	no
Number of wetland indicator plants >= number of non-wetland plants	X	
Wetland hydrology present:		
hydric soils present	X	
other indicators of hydrology present	X	
Sample location is in a BVW	X	

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

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

Applicant: G and H Prepared by: Goddard Consulting LLC Project location: Institute Rd, Grafton DEP File #: _____

Check all that apply:
- [ ] Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- [x] 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: GC-24 Transect Number: Upgradient Date of Delineation: 17-Feb-20

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Oak	*Quercus rubra*	36%	100.0%	No	FACU
Sapling Layer					
Red Oak	*Quercus rubra*	20%	100.0%	Yes	FACU
Shrub Layer					
Red Oak	*Quercus rubra*	10%	21.7%	Yes	FACU
Rambler rose	*Rosa multiflora*	36%	78.3%	Yes	FACU
Climbing Woody Vine					
Ground Cover					
Hay-scented fern	*Dennstaedtia punctilobula*	10%	50.0%	Yes	UPL
Princess-pine	*Dendrolycopodium obscurum*	10%	50.0%	Yes	FACU

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

Number of dominant wetland indicator plants: 0 **Number of dominant non-wetland indicator plants: 5**

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

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

MA DEP; 3/95

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

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

title/date: **Soil Survey of Worcester County, Southern Part - 1998**

map number: _____

soil type mapped: **Hinkley**

hydric soil inclusions: **None**

Are field observations consistent with soil survey? ☑ yes ☐ no

Remarks: _____

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
A	1-10	10YR3/3	
B	10-20	10YR5/6	

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? ☐ yes ☑ no

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

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

Vegetation and Hydrology Conclusion for Upgradient of GC-24	**yes**	**no**
Number of wetland indicator plants >= number of non-wetland plants		X
Wetland hydrology present: hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

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

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

Applicant: G and H Prepared by: Goddard Consulting LLC Project location: Institute Rd, Grafton 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: GC-24 Transect Number: Downgradient Date of Delineation: 17-Feb-20

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Maple	*Acer rubrum*	36%	100.0%	Yes	FAC*
Sapling Layer					
Red Maple	*Acer rubrum*	20%	100.0%	Yes	FAC*
Shrub Layer					
Rambler rose	*Rosa multiflora*	10%	33.3%	Yes	FACU
Highbush blueberry	*Vaccinium corymbosum*	20%	66.7%	Yes	FACW*
Climbing Woody Vine					
Eastern poison ivy	*Toxicodendron radicans*	10%	33.3%	Yes	FAC*
grape	*Vitis sp.*	20%	66.7%	Yes	UNKNOWN
Ground Cover					
Lamp rush	*Juncus effusus*	10%	50.0%	Yes	OBL*
Eastern poison ivy	*Toxicodendron radicans*	10%	50.0%	Yes	FAC*

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

Number of dominant wetland indicator plants: 6 **Number of dominant non-wetland indicator plants: 2**

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? yes

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

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

Applicant: G and H Prepared by: Goddard Consulting LLC Project location: Institute Rd, Grafton DEP File #: _____

Check all that apply:
- [ ] Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- [x] 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: **C18** Transect Number: **Upgradient** Date of Delineation: **17-Feb-20**

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Oak	*Quercus rubra*	63%	63.6%	Yes	FACU
White pine	*Pinus strobus*	36%	36.4%	Yes	FACU
Sapling Layer					
Red Oak	*Quercus rubra*	10%	100.0%	Yes	FACU
Shrub Layer					
Climbing Woody Vine					
Ground Cover					
Princess-pine	*Dendrolycopodium obscurum*	10%	100.0%	Yes	FACU

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

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

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

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

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

title/date: **Soil Survey of Worcester County, Southern Part - 1998**

map number:

soil type mapped: **Canton fine sandy loam**

hydric soil inclusions: **Swansea**

Are field observations consistent with soil survey? ☑ yes ☐ no

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
A	1-8	10YR2/2	
B	8-20	10YR5/4	

Remarks:

3. Other:

Conclusion: Is soil hydric? ☐ yes ☑ no

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

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

Vegetation and Hydrology Conclusion for Upgradient of C18

	yes	no
Number of wetland indicator plants >= number of non-wetland plants		X
Wetland hydrology present: hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

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

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

DEP File #: _____

Applicant: G and H Prepared by: Goddard Consulting LLC Project location: Institute Rd, Grafton

Check all that apply:
- [ ] Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- [x] 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)

Observation Plot Number: C18 Transect Number: Downgradient Date of Delineation: 17-Feb-20

Section I. Vegetation

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Maple	*Acer rubrum*	36%	64.3%	Yes	FAC*
White pine	*Pinus strobus*	20%	35.7%	Yes	FACU
Sapling Layer					
Red Maple	*Acer rubrum*	20%	100.0%	Yes	FAC*
Shrub Layer					
Highbush blueberry	*Vaccinium corymbosum*	10%	100.0%	Yes	FACW*
Climbing Woody Vine					
Eastern poison ivy	*Toxicodendron radicans*	10%	100.0%	Yes	FAC*
Ground Cover					
Eastern poison ivy	*Toxicodendron radicans*	10%	100.0%	Yes	FAC*

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

Number of dominant wetland indicator plants: 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 presumes adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

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

Applicant: G and H Prepared by: Goddard Consulting LLC Project location: Institute Rd, Grafton DEP File #: _____

Check all that apply:
- [ ] Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- [x] 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: E22 Transect Number: Upgradient Date of Delineation: 17-Feb-20

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Oak	*Quercus rubra*	36%	50.0%	Yes	FACU
White Pine	*Pinus strobus*	36%	50.0%	Yes	FACU
Sapling Layer					
Shrub Layer					
White pine	*Pinus strobus*	20%	35.7%	Yes	FACU
Sweet pepperbush	*Clethra alnifolia*	36%	64.3%	Yes	FAC*
Climbing Woody Vine					
Ground Cover					
Hay-scented fern	*Dennstaedtia punctilobula*	10%	33.3%	Yes	UPL
Princess-pine	*Dendrolycopodium obscurum*	20%	66.7%	Yes	FACU

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:**

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

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

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

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

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

title/date: **Soil Survey of Worcester County, Southern Part - 1998**

map number:

soil type mapped: **Canton fine sandy loam**

hydric soil inclusions:

Are field observations consistent with soil survey? ☑ yes ☐ no

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
A	1-8	10YR3/3	
B	8-14	10YR5/6	

Remarks:

3. Other:

Conclusion: Is soil hydric? ☐ yes ☑ no

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

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

Vegetation and Hydrology Conclusion for Upgradient of E22	**yes**	**no**
Number of wetland indicator plants >= number of non-wetland plants		X
Wetland hydrology present:		
hydric soils present		X
other indicators of hydrology present		X
Sample location is in a BVW		X

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

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

Applicant: G and H Prepared by: Goddard Consulting LLC Project location: Institute Rd, Grafton DEP File #: _____

Check all that apply:
- [ ] Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only
- [x] 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: **E22** Transect Number: **Downgradient** Date of Delineation: **17-Feb-20**

Sample Layer and Plant Species	Scientific name	% Cover	% Dominance	Dominant Plant (yes or no)	Wetland Indicator Category*
Tree Layer					
Red Maple	*Acer rubrum*	36%	64.3%	Yes	FAC*
Red Oak	*Quercus rubra*	20%	35.7%	Yes	FACU
Sapling Layer					
Red Maple	*Acer rubrum*	10%	100.0%	Yes	FAC*
Shrub Layer					
Sweet pepperbush	*Clethra alnifolia*	63%	75.9%	Yes	FAC*
Highbush blueberry	*Vaccinium corymbosum*	20%	24.1%	Yes	FACW*
Climbing Woody Vine					
Eastern poison ivy	*Toxicodendron radicans*	10%	100.0%	Yes	FAC*
Ground Cover					
Cinnamon fern	*Osmundastrum cinnamomeum*	10%	50.0%	Yes	FACW*
Eastern poison ivy	*Toxicodendron radicans*	10%	50.0%	Yes	FAC*

Remarks: * An asterisk after common plant name indicates stunted growth; ** indicates extremely stunted growth

Morphological Adaptations: 0 **Description:** _____

* An asterisk after indicator status denotes wetlands plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus Sphagnum; or plants listed as FAC, FACW, or OBL.

Vegetation conclusion:

Number of dominant wetland indicator plants: 7 **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 presumes adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

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

title/date: **Soil Survey of Worcester County, Southern Part - 1998**

map number: _____

soil type mapped: **Canton fine sandy loam**

hydric soil inclusions: **swansea**

Are field observations consistent with soil survey? ☑ yes ☐ no

Remarks: _____

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
O	1-7	10YR2/1	
C	7-20	10YR6/1	

Remarks: _____

3. Other: _____

Conclusion: Is soil hydric? ☑ yes ☐ no

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

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

Vegetation and Hydrology Conclusion for Downgradient of E22	**yes**	**no**
Number of wetland indicator plants >= number of non-wetland plants	X	
Wetland hydrology present:		
hydric soils present	X	
other indicators of hydrology present	X	
Sample location is in a BVW	X	

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

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

title/date: **Soil Survey of Worcester County, Southern Part - 1998**

map number:

soil type mapped: **Canton fine sandy loam**

hydric soil inclusions: **Swansea**

Are field observations consistent with soil survey? [✓] yes [ ] no

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
O	1-8	10YR2/1	
C	8-20	10YR6/1	

Remarks:

3. Other:

Conclusion: Is soil hydric? [✓] yes [ ] no

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

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

Vegetation and Hydrology Conclusion for Downgradient of C18

	yes	no
Number of wetland indicator plants >= number of non-wetland plants	X	
Wetland hydrology present:		
hydric soils present	X	
other indicators of hydrology present	X	
Sample location is in a BVW	X	

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

Section II. Indicators of Hydrology

Hydric Soil Interpretation

1. Soil Survey

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

title/date: **Soil Survey of Worcester County, Southern Part - 1998**

map number:

soil type mapped: **Hinkley**

hydric soil inclusions: **None**

Are field observations consistent with soil survey? [ ] yes [✓] no

Remarks:

2. Soil Description

Horizon	Depth (inches)	Matrix Color	Mottles Color or Texture
O	1-7	10YR2/1	
C	7-20	10YR6/1	

Remarks:

3. Other:

Conclusion: Is soil hydric? [✓] yes [ ] no

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

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

Vegetation and Hydrology Conclusion for Downgradient of GC-24

	yes	no
Number of wetland indicator plants >= number of non-wetland plants	X	
Wetland hydrology present:		
hydric soils present	X	
other indicators of hydrology present	X	
Sample location is in a BVW	X	

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