



**Town of Sturbridge
Conservation Commission
Notice of Intent Application Coversheet/Checklist**

Date 8/8/2023

in all white cells completely

Parcel		Applicant name	Ryan Stanley
Address	70 Brookfield Road, Sturbridge	Address	1 Commonwealth Avenue, Sturbridge, MA 01518
Assessors		Email	ryanstanley1130@gmail.com
Map/Plat	178-01956-070	Phone	(508) 887-5763
Book & Page	67392 - 216		
Owner name	(See attached "Property Owners")	Representative	EBT Environmental Consultants, Inc.
Address		Address	601 Main Street, North Oxford, MA 01537
Email		Email	glenn.krevosky@charter.net
Phone		Phone	(508) 769-3659

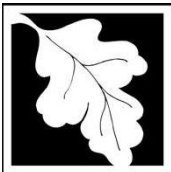
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Wetland type		sf/cf affected		Relevant Perf. Standards	10. <input style="width: 50px;" type="text"/>
Wetland type		sf/cf affected		Relevant Perf. Standards	10. <input style="width: 50px;" type="text"/>
Wetland type		sf/cf affected		Relevant Perf. Standards	10. <input style="width: 50px;" type="text"/>

Components of a Complete NOI Application

State Form: NOI Form 3	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Engineered Plan	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Proof of Mailing to DEP	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Narrative	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Proof that all relevant perf. standards are met	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
TOPO Map identifying locus with scale	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
FIRM Map identifying locus with scale	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Natural Heritage Map with WH, PH, & VP data	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Delineation lines (backup material)	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Tax Form	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Fees	
★ Fee Transmittal form	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
★ Filing Fee Worksheet	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
★ Town portion of state filing fee	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
★ Sturbridge local filing fee \$ <input style="width: 50px;" type="text" value="300.00"/>	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Abutter Information	
★ Certified abutters list (within 200')	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
★ Abutter notification form	Included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
★ Affidavit & proof -- bring to hearing	<i>Present them at the hearing</i>
Other Attachments, e.g.	See attached D.4. Additional Information
Confirmation of submission to NHESP	Included? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Planting Plan	Included? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Floodplain analysis	Included? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Stormwater analysis	Included? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

Components of a Complete NOI Application



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

Sturbridge
City/Town

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



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

A. General Information

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

<u>70 Brookfield Road</u>	<u>Sturbridge</u>	<u>01518</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>42.121896</u>	<u>-72.117728</u>	
d. Latitude	e. Longitude	
<u>Parcel ID: 178-01956-070</u>	<u>g. Parcel /Lot Number</u>	
f. Assessors Map/Plat Number		

2. Applicant:

<u>Ryan</u>	<u>Stanley</u>	
a. First Name	b. Last Name	
<u>c. Organization</u>		
<u>1 Commonwealth Avenue</u>		
d. Street Address		
<u>Sturbridge</u>	<u>MA</u>	<u>01518</u>
e. City/Town	f. State	g. Zip Code
<u>(508) 887-5763</u>	<u>ryanstanley1130@gmail.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

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

(See attached "Property Owners")

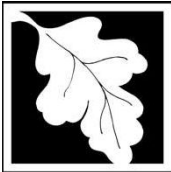
<u>(See attached "Property Owners")</u>	<u></u>	
a. First Name	b. Last Name	
<u>c. Organization</u>		
<u>d. Street Address</u>		
<u>e. City/Town</u>	<u>f. State</u>	<u>g. Zip Code</u>
<u>h. Phone Number</u>	<u>i. Fax Number</u>	<u>j. Email address</u>

4. Representative (if any):

<u>Glenn</u>	<u>Krevosky</u>	
a. First Name	b. Last Name	
<u>EBT Environmental Consultants, Inc.</u>		
c. Company		
<u>601 Main Street</u>		
d. Street Address		
<u>North Oxford</u>	<u>MA</u>	<u>01537</u>
e. City/Town	f. State	g. Zip Code
<u>(508) 769-3659</u>	<u>glenn.krevosky@charter.net</u>	
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$500.00 (\$300.00 bylaw)</u>	<u>\$237.50</u>	<u>\$262.50 (\$300.00 bylaw)</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

See attached A.6. General Project Description

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

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

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

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

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

Worcester

a. County

67392

c. Book

b. Certificate # (if registered land)

216

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.

A.6. General Project Description

Site: 70 Brookfield Road, Sturbridge

Applicant: Ryan Stanley

The applicant proposes to demolish the existing family homestead and construct a new single-family house, driveway extension and well for himself in the buffer zone bordering vegetated wetland. The debris from the demolished structure will be removed by a licensed hauler. The proposed well will have a 10' diameter and 3' deep slurry pit dug to the east side of the well surrounded by 9" wattles (except for where the slurry is directed to the pit). The existing house impervious areas are 2,780 square feet and the proposed structure impervious areas are 2,340 square feet. The applicant is removing 2,841.8 square feet of existing asphalt driveway, 2,318.3 square feet of which will be reverted to pervious.

There will be 762.3 cubic yards of material removed in order to attain a walkout basement.

The applicant proposes to direct roof leaders to a Cultec unit. The existing and proposed houses are on the top of a small hill at elevation 752. The hill drops off to the rear of the house/east to 742 and drops off to the front of the house/west to 724. Hydrologic conditions are not found within 4 feet of the bottom of the Cultec unit.

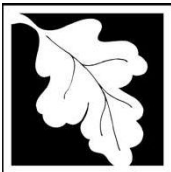
Glenn E. Krevosky of EBT Environmental Consultants, Inc. delineated the wetland boundaries on 4/15/2023 with 45 A series, 3 B series, 12 C series, 8 D series and 11 E series wetland flags - utilizing soils, vegetation and indicators of hydrology according to 310 CMR 10.55 (2) (c).

The erosion control measures of staked 9" straw wattles backed by entrenched silt fence, shown on the site plan, shall be placed prior to site work. These measures shall be maintained in good working order throughout the project until all exposed soils are final graded, loamed, seeded and stabilized with well-established soil stabilizing vegetation.

Property Owners:

Ryan Stanley
1 Commonwealth Avenue
Sturbridge, MA 01518

David & Krista Stanley
74 Brookfield Road
Sturbridge, MA 01518



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

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
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. <input type="checkbox"/> 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:

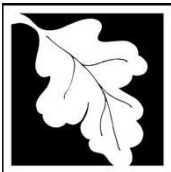
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
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5. Has an alternatives analysis been done and is it attached to this NOI? Yes No

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

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

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



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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	1. square feet 2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment

	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet 2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above 1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	

4. 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.

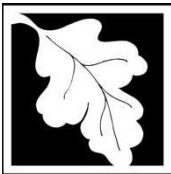
a. square feet of BVW

b. square feet of Salt Marsh

5. Project Involves Stream Crossings

a. number of new stream crossings

b. number of replacement stream crossings



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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**

Current
MassMapper _____

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 <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

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

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



Provided by MassDEP:

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

(c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).
 Make check payable to “Commonwealth of Massachusetts - NHESP” and **mail to NHESP** at above address

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

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

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

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

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

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

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

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

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

North Shore - Hull to New Hampshire border:

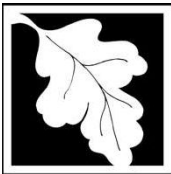
Division of Marine Fisheries -
 Southeast Marine Fisheries Station
 Attn: Environmental Reviewer
 836 South Rodney French Blvd.
 New Bedford, MA 02744
 Email: dmf.envreview-south@mass.gov

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

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

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

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



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

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

- 4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
 b. ACEC

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

D. Additional Information

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

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

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

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



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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.

Proposed Site Plan

a. Plan Title

Existing Grade Inc.

Edwin H. Gless, Jr.

b. Prepared By

c. Signed and Stamped by

7/27/2023

1"=40'

d. Final Revision Date

e. Scale

See attached D.4. Additional Information

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:

322 (323 bylaw)

5/5/2023

2. Municipal Check Number

3. Check date

321

5/5/2023

4. State Check Number

5. Check date

Ryan

Stanley

6. Payor name on check: First Name

7. Payor name on check: Last Name

D.4. Additional Information

Project Location: 70 Brookfield Road, Sturbridge

Applicant: Ryan Stanley

- 1A. Proposed Site Plan: prepared for Ryan Stanley by Existing Grade Inc., dated 7/27/2023
- 2A. Southbridge USGS Quad, dated 2021
- 3A. Sturbridge GIS Map, dated 4/18/2023
- 4A. Fee Transmittal Form, Local Fee Sheet & Check Copies
- 5A. Town of Sturbridge Abutters' List, dated 8/3/2023
- 6A. Abutters Notification, dated 8/8/2023
- 7A. Affidavit of Service, dated 8/8/2023
- 8A. Tax Signoff Sheet, dated 5/2/2023
- 9A. MassMapper with Layers, dated 4/18/2023
- 10A. MA DEP BVW Data Forms, dated 4/25/2023



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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.



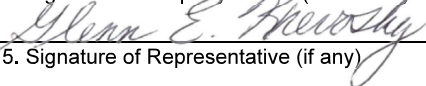
1. Signature of Applicant

4/17/23

2. Date

3. Signature of Property Owner (if different)

4. Date



5. Signature of Representative (if any)

8/8/2023

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.

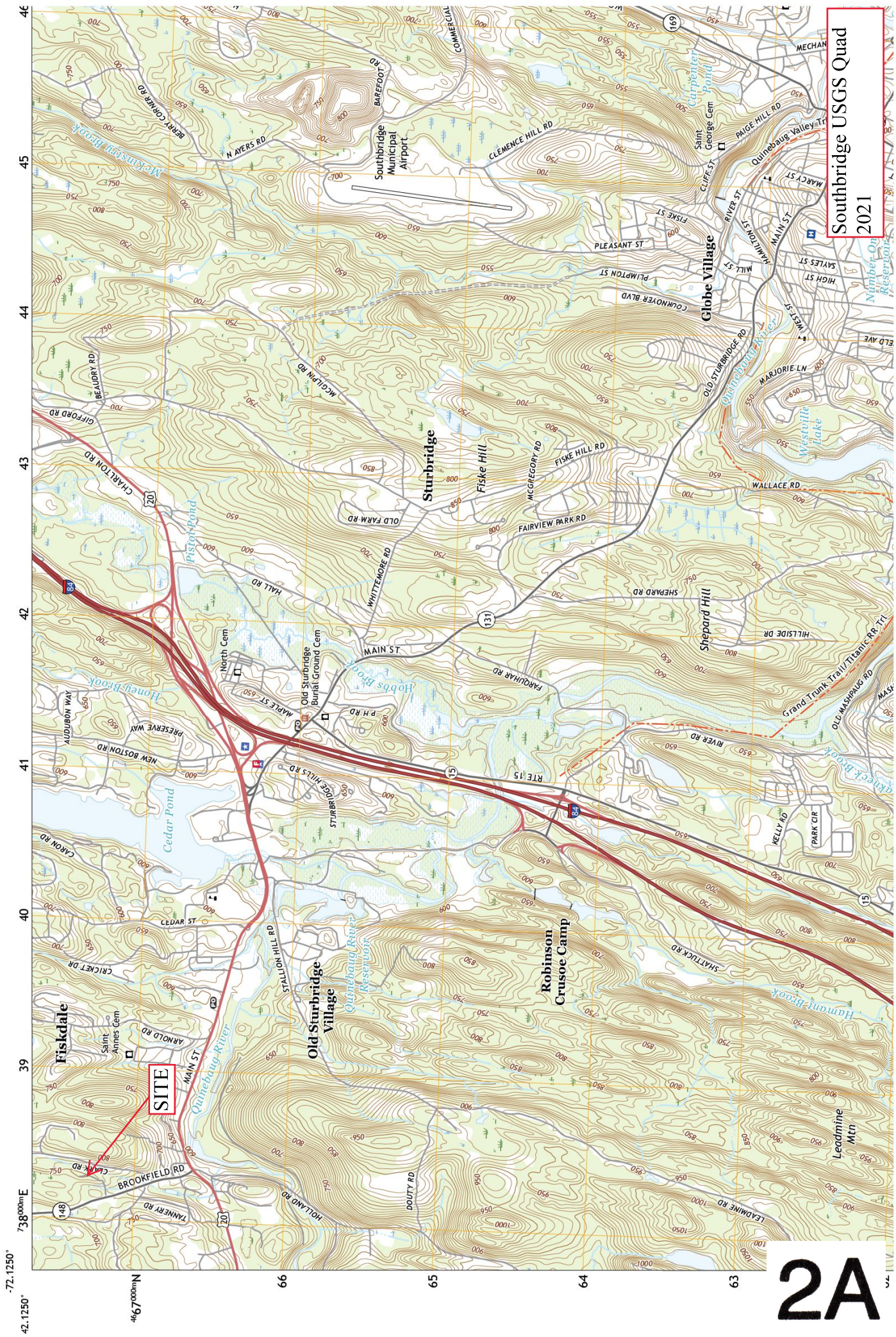
For MassDEP:

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:

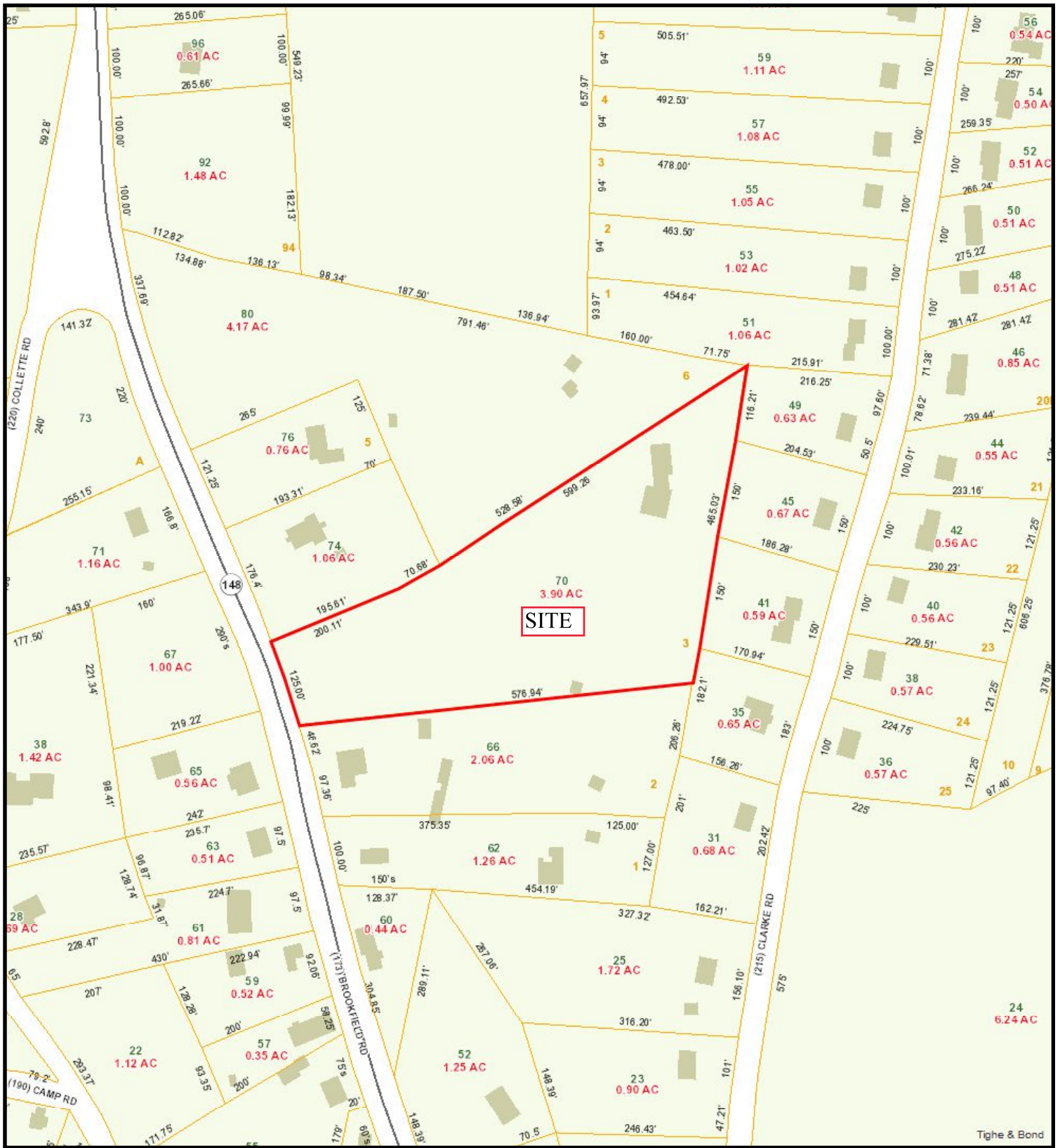
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.



Southbridge USGS Quad
2021

2A



70 Brookfield Road

4/18/2023 10:04:25 AM

Scale: 1"=200'

Scale is approximate

The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.



3A



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:

<u>70 Brookfield Road</u>	<u>Sturbridge</u>
a. Street Address	b. City/Town
<u>321 (322 municipal & 323 bylaw)</u>	<u>\$237.50 (\$262.50 municipal & \$300.00 bylaw)</u>
c. Check number	d. Fee amount

2. Applicant Mailing Address:

<u>Ryan</u>	<u>Stanley</u>	
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u>1 Commonwealth Avenue</u>		
d. Mailing Address		
<u>Sturbridge</u>	<u>MA</u>	<u>01518</u>
e. City/Town	f. State	g. Zip Code
<u>(508) 887-5763</u>	<u>ryanstanley1130@gmail.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property Owner (if different):

<u>(See attached "Property Owners")</u>		
a. First Name	b. Last Name	
<u></u>		
c. Organization		
<u></u>		
d. Mailing Address		
<u></u>		
<u></u>	<u></u>	<u></u>
e. City/Town	f. State	g. Zip Code
<u></u>	<u></u>	<u></u>
h. Phone Number	i. Fax Number	j. Email Address

B. Fees

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

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

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

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

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

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

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

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



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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 2.a.	1	\$500.00	\$500.00
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Step 5/Total Project Fee:			<u>\$500.00 (\$300 bylaw)</u>
Step 6/Fee Payments:			
Total Project Fee:			<u>\$500.00 (\$300 bylaw)</u>
			a. Total Fee from Step 5
State share of filing Fee:			<u>\$237.50</u>
			b. 1/2 Total Fee less \$12.50
City/Town share of filing Fee:			<u>\$262.50 (\$300 bylaw)</u>
			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.)

STURBRIDGE WETLANDS PROTECTION BY-LAW AND REGULATIONS

WETLANDS FILING FEE CALCULATION WORKSHEET

Application Type	Qty	Town Filing Fee	TOTAL
Notice of Intent (NOI):			
Residential – Single Family:			
Accessory (Deck, Shed, Pool Septic)	<input type="text"/>	\$150	<input type="text"/>
Shoreline Work	<input type="text"/>	\$150	<input type="text"/>
New Construction	<input type="text" value="1"/>	\$300	<input type="text" value="\$300.00"/>
Residential – Other:			
Subdivision/Multi-Unit	<input type="text"/>	\$750	<input type="text"/>
Commercial/Industrial:			
New	<input type="text"/>	\$1500	<input type="text"/>
Redevelopment	<input type="text"/>	\$1000	<input type="text"/>
Limited Project (as defined in SWB & WPA)	<input type="text"/>	Equal to full WPA fee	<input type="text"/>
Alterations – located within Riverfront Area	<input type="text"/>	Additional 50% of Fee	<input type="text"/>
Application filed after Enforcement Order		Double the Municipal fee	<input type="text"/>
Request for Amended Order of Conditions	<input type="text"/>	50% of initial fee	<input type="text"/>
Request for Determination of Applicability (RDA):			
No Wetland Boundary Confirmation Residential:	<input type="text"/>	\$100	<input type="text"/>
No Wetland Boundary Confirmation All Other:	<input type="text"/>	\$200	<input type="text"/>
For Wetland Boundary Confirmation File ANRAD or NOI			
Abbreviated Notice of Resource Area Delineation (ANRAD):			
Residential – Single Family:	<input type="text"/>	\$100	<input type="text"/>
All Other:			
Base Review	<input type="text"/>	\$300	<input type="text"/>
Resource Area Boundary			

Certificate of Compliance (COC):

Residential:

Single Family \$50

Subdivision or Multi-Unit \$150

Commercial or Industrial: \$150

If Order of Conditions has Expired Add an additional \$150

OOC Extension Request \$50

Emergency Certification \$50
(NOI may be required to be filed following issuance of Emergency Cert)

Local Bylaw Fee (includes Town Filing Fee) \$

State Filing Fee (from DEP Wetland Transmittal Form) \$

Total Payable to "Town of STURBRIDGE" \$

*Additional Consultant Fee may be required for reasons which may include:

- Significant amount of wetland impact;
- Extensive resource areas on a site;
- Lack of information supplied;
- Incomplete plans, reports, forms submitted;
- Supplemental information submitted.

Parcel ID	Owner	Owner Address	Owner City	State	Zip	Property Address
215-01957-041	BERTHIAUME ROBERT R	41 CLARKE RD	FISKDALE	MA	01518	41 CLARKE ROAD
215-01957-031	BOUCHARD RICHARD E	31 CLARKE ROAD	FISKDALE	MA	01518	31 CLARKE ROAD
173-02316-063	LIN XIAO TUO	63 BROOKFIELD ROAD	FISKDALE	MA	01518	63 BROOKFIELD ROAD
215-01957-049	DALRYMPLE RICHARD & AVIS	49 CLARKE ROAD	FISKDALE	MA	01518	49 CLARKE ROAD
215-01947-051	DECATALDO LOUIS A	51 CLARKE ROAD	FISKDALE	MA	01518	51 CLARKE ROAD
215-01957-035	FISCHETTI ANTHONY	35 CLARK ROAD	FISKDALE	MA	01518	35 CLARKE ROAD
215-01957-045	FRIEDMANN BRIAN F & LINDA C TRUSTEES	45 CLARKE ROAD	FISKDALE	MA	01518	45 CLARKE ROAD
173-01956-065	HOENIG MICHAEL B & DONNA L TRUSTEES	65 BROOKFIELD ROAD	FISKDALE	MA	01518	65 BROOKFIELD ROAD
173-01956-067	HOENIG MICHAEL THOMAS	66 BROOKFIELD ROAD	FISKDALE	MA	01518	67 BROOKFIELD ROAD
173-01957-066	HOENIG MICHAEL THOMAS	66 BROOKFIELD ROAD	FISKDALE	MA	01518	66 BROOKFIELD ROAD
173-01956-080	HOENIG MICHAEL THOMAS	66 BROOKFIELD ROAD	FISKDALE	MA	01518	80 BROOKFIELD ROAD
173-01956-062	HOENIG WILLIAM H	62 BROOKFIELD ROAD	FISKDALE	MA	01518	62 BROOKFIELD ROAD
173-01956-071	JOHNSON JESSICA	71 BROOKFIELD ROAD	FISKDALE	MA	01518	71 BROOKFIELD ROAD
215-01948-053	JONES PAUL R	53 CLARKE ROAD	FISKDALE	MA	01518	53 CLARKE ROAD
215-01958-036	MCLEAR MICHAEL	36 CLARKE ROAD	FISKDALE	MA	01518	36 CLARKE ROAD
173-01957-076	SPIDLE SYLVESTER	76 BROOKFIELD ROAD	FISKDALE	MA	01518	76 BROOKFIELD ROAD
173-01956-074	STANLEY DAVID M H	74 BROOKFIELD ROAD	FISKDALE	MA	01518	74 BROOKFIELD ROAD
215-01948-067	STURBRIDGE CONSERVATION COMM	308 MAIN STREET	STURBRIDGE	MA	01566	67 CLARKE ROAD
	BOARD OF ASSESSORS					
Above persons listed are record owners as they appear on the most recent applicable tax list.						
Assessors are not responsible for errors or omissions. RE: M.G.L. - Chapter 40A, Section 11						
Abutters List - Conservation Commission - 200'						
RE: 70 BROOKFIELD ROAD						
Certified Copy						
Assessor: <i>Ann P. Murphy</i>						
Date: <i>8.3.2023</i>						

AFFIDAVIT OF SERVICE

UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT AND TOWN OF STURBRIDGE WETLAND PROTECTION BYLAW

(To be submitted to the Massachusetts Department of Environmental Protection & the Conservation Commission when filing a Notice of Intent)

I, Glenn E. Krevosky, hereby certify under the pains and penalties of perjury that on **August 8, 2023**, I gave notification to abutters within 200 feet of the proposed project in compliance with the second paragraph of the Massachusetts General Laws, Chapter 131, Section 40 and the DEP Guide to Abutter Notification, dated April 8, 1994, in connection with the following matter:

A Notice of Intent (NOI) application filed under the Massachusetts Wetlands Protection Act and The Town of Sturbridge Wetland Protection Bylaw by EBT Environmental Consultants, Inc., 601 Main Street, North Oxford, MA 01537, with the Sturbridge Conservation Commission on **August 8, 2023** for a property located at, 70 Brookfield Road, Sturbridge.

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

Signature

8-8-2023

Date



Town of Sturbridge

Barbara A. Barry, Finance Director

Department/Board/Committee:

Please verify outstanding tax/fee status for the following property owner:

Property Owner:

Property Location:

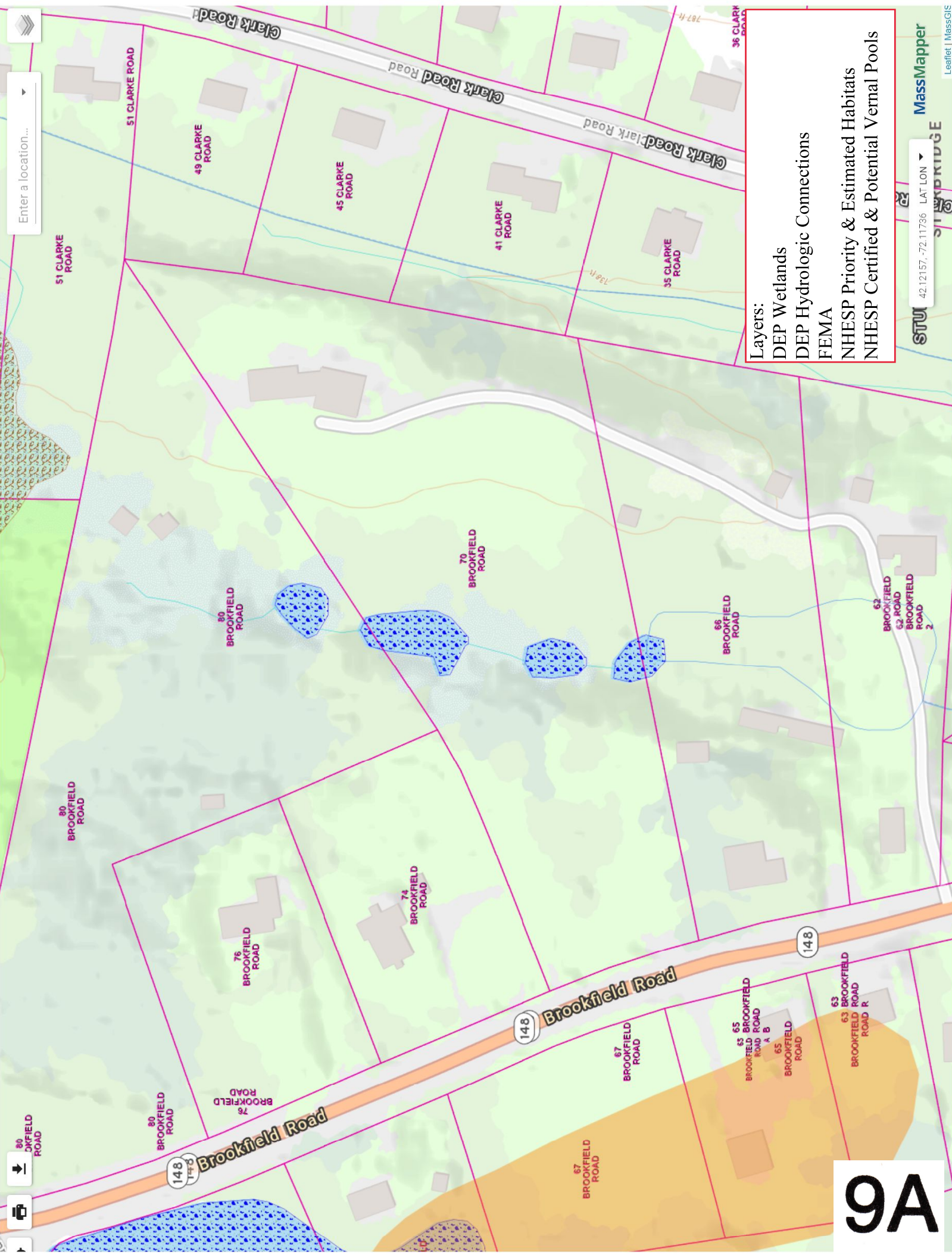
- The license/permit may be released.
 The license/permit may not be released.

For Wendy MacNeoga
Finance Director

5/2/2023
Date



Enter a location...



- Layers:
- DEP Wetlands
 - DEP Hydrologic Connections
 - FEMA
 - NHESP Priority & Estimated Habitats
 - NHESP Certified & Potential Vernal Pools

9A

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

Applicant: Ryan Stanley
DEP File #:

Prepared by: Glenn E. Krevosky
 EBT Environmental Consultants, Inc.

Project location: 70 Brookfield Road, Sturbridge

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)

Center of Observation Plot and Transect are located 5' upgradient of WF 5E

Section I. Vegetation	Observation Plot Number: Plot-1U	Transect Number: TP-1U	Date of Delineation: 4/25/2023		
A. Sample Layer and Plant Species (by common/scientific name)	B1. Percent Cover (or Basal Area)	B2. Percent Cover (Mid Point)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category*
TREES					
Eastern White Pine (<i>Pinus strobus</i>)	15	10.5	11.7	No	FACU
Northern Red Oak (<i>Quercus rubra</i>)	30	38.0	42.2	Yes	FACU
White Ash (<i>Fraxinus americana</i>)	10	10.5	11.7	No	FACU
Black Birch (<i>Betula lenta</i>)	10	10.5	11.7	No	FACU
Red Maple (<i>Acer rubrum</i>)	20	20.5	22.8	Yes	FAC*
SAPLINGS					
White Ash (<i>Fraxinus americana</i>)	15	10.5	100.0	Yes	FACU
SHRUBS					
Witch Hazel (<i>Hamamelis virginiana</i>)	15	10.5	14.4	Yes	FACU
Shagbark Hickory (<i>Carya ovata</i>)	7	10.5	14.4	Yes	FACU
American Hazel (<i>Corylus americana</i>)	20	20.5	28.1	Yes	FACU
Sugar Maple (<i>Acer saccharum</i>)	7	10.5	14.4	Yes	FACU
American Chestnut (<i>Castanea dentate</i>)	7	10.5	14.4	Yes	UPL
Mountain Laurel (<i>Kalmia latifolia</i>)	7	10.5	14.4	Yes	FACU
HERB					
Wild Sarsaparilla (<i>Aralia nudicaulis</i>)	20	20.5	49.4	Yes	FACU
Smooth Solomon's Seal (<i>Polygonatum biflorum</i>)	5	10.5	25.3	Yes	FACU
Canada Mayflower (<i>Maianthemum canadense</i>)	10	10.5	25.3	Yes	FACU
VINE					
Virginia Creeper (<i>Parthenocissus quinquefolia</i>)	10	10.5	50.0	Yes	FACU
Frost Grape (<i>Vitis vulpina</i>)	7	10.5	50.0	Yes	FAC*

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.4; plants in the genus *Sphagnum*; plants listed as FAC, FACW, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 2 **Number of dominant non-wetland indicator plants: 12**
the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes **No X**

vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent. MA DEP: 3/95

Client: Ryan Stanley
Section II. Indicators of Hydrology

5' Upgradient of WF 5E

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

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

Other: _____

Hydric Soil Interpretation

1. Soil Survey

Is there a pub soil survey for this site? Yes No

title/date: Worcester County, MA, Southern Part
 map number: MA615

soil type mapped: Paxton fine sandy loam
 hydric soil inclusions: Yes

Are field observations consistent with soil survey? Yes No

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0"-5"	10YR 3/2	None
B	5"-14"	10YR 4/4	None

Remarks:

3. Other:

Conclusion: Is soil hydric? Yes ___ No

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
 ≥ number of non-wetland indicator plants:

Yes ___ No

Wetland hydrology present:
 hydric soil present:

other indicators of hydrology
 present:

Sample location is in a BVW:

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: Ryan Stanley
DEP File #:

Prepared by: Glenn E. Krevosky
 EBT Environmental Consultants, Inc.

Project location: 70 Brookfield Road, Sturbridge

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)

Center of Observation Plot and Transect are located 4' downgradient of WF 5E

Section I. Vegetation	Observation Plot Number: Plot-1W	Transect Number: TP-1W	Date of Delineation: 4/25/2023
-----------------------	----------------------------------	------------------------	--------------------------------

A. Sample Layer and Plant Species (by common/scientific name)	B1. Percent Cover (or Basal Area)	B2. Percent Cover (Mid Point)	C. Percent Dominance	D. Dominant Plant (Yes or No)	E. Wetland Indicator Category*
TREES					
Red Maple (<i>Acer rubrum</i>)	30	38.0	55.1	Yes	FAC*
Northern Red Oak (<i>Quercus rubra</i>)	20	20.5	29.7	Yes	FACU
Eastern White Pine (<i>Pinus strobus</i>)	10	10.5	15.2	No	FACU
SAPLINGS					
Black Ash (<i>Fraxinus nigra</i>)	10	10.5	33.3	Yes	FACW*
White Ash (<i>Fraxinus americana</i>)	10	10.5	33.3	Yes	FACU
Red Maple (<i>Acer rubrum</i>)	10	10.5	33.3	Yes	FAC*
SHRUBS					
Common Winterberry (<i>Ilex verticillata</i>)	25	20.5	33.3	Yes	FACW*
American Hazel (<i>Corylus americana</i>)	20	20.5	33.3	Yes	FACU
Northern Spicebush (<i>Lindera benzoin</i>)	20	20.5	33.3	Yes	FACW*
HERBS					
Spotted Touch-Me-Not (<i>Impatiens capensis</i>)	30	38.0	64.4	Yes	FACW*
Cinnamon Fern (<i>Osmunda cinnamomeum</i>)	15	10.5	17.8	No	FACW*
Jack-In-the-Pulpit (<i>Arisaema triphyllum</i>)	15	10.5	17.8	No	FAC*
VINES					
Frost Grape (<i>Vitis vulpina</i>)	7	10.5	100.0	Yes	FAC*

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.4; plants in the genus *Sphagnum*; plants listed as FAC, 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: 7 **Number of dominant non-wetland indicator plants: 3**
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? Yes X No

Client: Ryan Stanley

Section II. Indicators of Hydrology

4' Downgradient of WF 5E

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

- Site inundated: _____
- Depth to free water in observation hole: 5"
- Depth to soil saturation in observation hole: 3"
- Water marks: _____
- Drift lines: _____
- Sediment deposits: _____
- Drainage patterns in BVW: _____
- Oxidized rhizospheres: _____
- Water-stained leaves: _____
- Recorded data (stream, lake, or tidal gauge; aerial photo; other) : _____

Other: _____

Hydric Soil Interpretation

1. Soil Survey

Is there a pub soil survey for this site? Yes No

title/date: Worcester County, MA, Southern Part

map number: MA615

soil type mapped: Paxton fine sandy loam

hydric soil inclusions: Yes

Are field observations consistent with soil survey? Yes No

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
O	1"-0"	10YR 2/1	
A	0"-7"	10YR 2/2	Iron has been removed
B	7"-14"	10YR 4/3	>10% 7.5YR 4/2

Remarks: **O Horizon = Fibric**

3. Other:

Vegetation and Hydrology Conclusion

Number of wetland indicator plants
≥ number of non-wetland indicator plants: X Yes No

Wetland hydrology present:
hydric soil present: X

other indicators of hydrology
present: X

Sample location is in a BVW: X

Conclusion: Is soil hydric? Yes No

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

Soil Map—Worcester County, Massachusetts, Southern Part



Map Scale: 1:1,850 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

- Area of Interest (AOI)
- Area of Interest (AOI)
- Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points
- Special Point Features**
 - Blowout
 - Borrow Pit
 - Clay Spot
 - Closed Depression
 - Gravel Pit
 - Gravelly Spot
 - Landfill
 - Lava Flow
 - Marsh or swamp
 - Mine or Quarry
 - Miscellaneous Water
 - Perennial Water
 - Rock Outcrop
 - Saline Spot
 - Sandy Spot
 - Severely Eroded Spot
 - Sinkhole
 - Slide or Slip
 - Sodic Spot
- Water Features**
 - Streams and Canals
- Transportation**
 - Rails
 - Interstate Highways
 - US Routes
 - Major Roads
 - Local Roads
- Background**
 - Aerial Photography
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

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 15, Sep 9, 2022

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

Date(s) aerial images were photographed: Oct 15, 2020—Oct 31, 2020

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
73A	Whitman fine sandy loam, 0 to 3 percent slopes, extremely stony	0.2	1.3%
305B	Paxton fine sandy loam, 3 to 8 percent slopes	1.9	12.3%
305C	Paxton fine sandy loam, 8 to 15 percent slopes	3.4	21.8%
307B	Paxton fine sandy loam, 0 to 8 percent slopes, extremely stony	5.0	32.2%
307C	Paxton fine sandy loam, 8 to 15 percent slopes, extremely stony	3.8	24.4%
307E	Paxton fine sandy loam, 15 to 35 percent slopes, extremely stony	1.2	8.0%
Totals for Area of Interest		15.6	100.0%

Worcester County, Massachusetts, Southern Part

305C—Paxton fine sandy loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2w66y

Elevation: 0 to 1,320 feet

Mean annual precipitation: 36 to 71 inches

Mean annual air temperature: 39 to 55 degrees F

Frost-free period: 140 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Paxton and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Paxton

Setting

Landform: Ground moraines, hills, drumlins

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear

Across-slope shape: Convex

Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Ap - 0 to 8 inches: fine sandy loam

Bw1 - 8 to 15 inches: fine sandy loam

Bw2 - 15 to 26 inches: fine sandy loam

Cd - 26 to 65 inches: gravelly fine sandy loam

Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: 20 to 39 inches to densic material

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 18 to 37 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: F144AY007CT - Well Drained Dense Till Uplands
Hydric soil rating: No

Minor Components

Charlton

Percent of map unit: 7 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Woodbridge

Percent of map unit: 6 percent
Landform: Hills, drumlins, ground moraines
Landform position (two-dimensional): Summit, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Ridgebury

Percent of map unit: 2 percent
Landform: Drumlins, drainageways, depressions, ground moraines,
hills
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Head slope, base slope
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Worcester County, Massachusetts, Southern Part
Survey Area Data: Version 15, Sep 9, 2022

Worcester County, Massachusetts, Southern Part

307B—Paxton fine sandy loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2w675

Elevation: 0 to 1,580 feet

Mean annual precipitation: 36 to 71 inches

Mean annual air temperature: 39 to 55 degrees F

Frost-free period: 140 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Paxton, extremely stony, and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Paxton, Extremely Stony

Setting

Landform: Ground moraines, hills, drumlins

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Side slope, crest

Down-slope shape: Convex, linear

Across-slope shape: Linear, convex

Parent material: Coarse-loamy lodgment till derived from gneiss, granite, and/or schist

Typical profile

Oe - 0 to 2 inches: moderately decomposed plant material

A - 2 to 10 inches: fine sandy loam

Bw1 - 10 to 17 inches: fine sandy loam

Bw2 - 17 to 28 inches: fine sandy loam

Cd - 28 to 67 inches: gravelly fine sandy loam

Properties and qualities

Slope: 0 to 8 percent

Surface area covered with cobbles, stones or boulders: 9.0 percent

Depth to restrictive feature: 20 to 43 inches to densic material

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: About 18 to 37 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water supply, 0 to 60 inches: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: C

Ecological site: F144AY007CT - Well Drained Dense Till Uplands

Hydric soil rating: No

Minor Components

Woodbridge, extremely stony

Percent of map unit: 10 percent

Landform: Hills, drumlins, ground moraines

Landform position (two-dimensional): Summit, backslope, footslope

Landform position (three-dimensional): Side slope, crest

Down-slope shape: Concave

Across-slope shape: Linear

Hydric soil rating: No

Charlton, extremely stony

Percent of map unit: 5 percent

Landform: Hills

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Side slope, crest

Down-slope shape: Convex

Across-slope shape: Convex

Hydric soil rating: No

Ridgebury, extremely stony

Percent of map unit: 4 percent

Landform: Drumlins, drainageways, depressions, ground moraines, hills

Landform position (two-dimensional): Footslope, toeslope

Landform position (three-dimensional): Head slope, base slope

Down-slope shape: Concave

Across-slope shape: Concave

Hydric soil rating: Yes

Whitman, extremely stony

Percent of map unit: 1 percent

Landform: Depressions

Down-slope shape: Concave

Across-slope shape: Concave

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Worcester County, Massachusetts, Southern Part

Survey Area Data: Version 15, Sep 9, 2022