

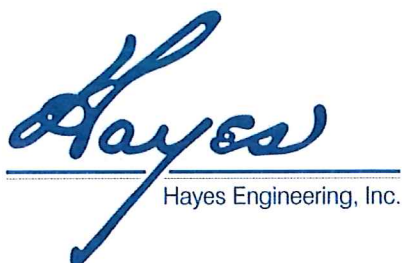
Applicant:
James Confalone
P.O Box 415
Rye Beach, NH 03871

Project File: MEL-0150H

Notice of Intent Application

Proposed Single Family House Construction
#36 Slayton Road
Melrose, Massachusetts

May 2021



603 Salem Street
Wakefield, MA 01880
Tel: (781) 246-2800
Fax: (781) 246-7596

Nantucket, MA 02554
Tel: (508) 228 -7909

**CONTENTS
NOTICE OF INTENT
#36 SLAYTON ROAD
MELROSE, MASSACHUSETTS**

May 3, 2021

LIST OF PLANS AND DOCUMENTS

<u>Identifying Number / Letter</u>	<u>Title / Date</u>
DOCUMENT A	WPA Form 3- Notice of Intent Form and NOI Wetland Fee Transmittal Form – Single family house at #36 Slayton Road, Melrose (including USGS Vicinity Map, Certified List of Abutters (April 2021), Abutter Notification Letter, and Affidavit of Service).
DOCUMENT B	Project Narrative, #36 Slayton Road, Melrose, MA; April 26, 2021 by Hayes Engineering, Inc.
DOCUMENT C	Erosion and Sedimentation Control, Slayton Road, Melrose, MA; April 26, 2021.
PLANS	Topographic Plan of Land in Melrose, Mass.; Hayes Engineering, Inc.; Scale: 1"=20'; Date: July 23, 1997, rev. through April 28, 2021 (sheet 1 of 2) Detail Sheet in Melrose, Mass.; Hayes Engineering, Inc.; Scale: 1"=40' except where noted; Date: December 3, 2001, rev. through April 28, 2021 (sheet 2 of 2).



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
Melrose
City/Town

not Melrose Wetlands Protection Bylaw

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):

#36 Slayton Road (aka Lots 1 and 2)	Melrose	02176
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	42d 27m 19s N	71d 02m 34s W
Map G7 Block 0	d. Latitude	e. Longitude
f. Assessors Map/Plat Number	Lots 62A & 62B	
	g. Parcel /Lot Number	

2. Applicant:

James	Confalone	
a. First Name	b. Last Name	
c. Organization		
PO Box 415		
d. Street Address		
Rye Beach	NH	03871
e. City/Town	f. State	g. Zip Code
603-777-0094	oldjc02@gmail.com	
h. Phone Number	i. Fax Number	j. Email Address

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

Same as applicant and Eleanor Nicholson,	Caroline Jensen, and Joan Austin	
a. First Name	b. Last Name	
c. Organization		
PO Box 415		
d. Street Address		
Rye Beach	NH	03871
e. City/Town	f. State	g. Zip Code
603-777-0094	oldjc02@gmail.com	
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

a. First Name	b. Last Name	
Hayes Engineering, Inc.		
c. Company		
603 Salem Street		
d. Street Address		
Wakefield	MA	01880
e. City/Town	f. State	g. Zip Code
(781)246-2800	(781)2467586	lwallis@hayeseng.com
h. Phone Number	i. Fax Number	j. Email address

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

\$1,000.00	\$487.50	\$512.50
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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

Melrose

City/Town

A. General Information (continued)

6. General Project Description:

The applicant proposes to construct a single family house with associated driveway, utilities, wetland replication and all associated site work as shown on the accompanying plan and as described in the attach project narrative.

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)

310 CMR 10.53(e.) Driveway crossing associated with single family house

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:

Middlesex south

a. County

234331, 161524

b. Certificate # (if registered land)

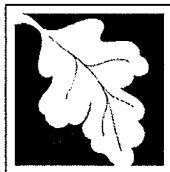
c. Book

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.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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B. 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.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	1,360 permanent and 1000 s.f. temp disturb..	1,430+/- 2. square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet 3. cubic yards dredged	2. square feet

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
d. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	2,227+/- permanent disturb. 1. square feet 3. cubic feet of flood storage lost	1,420+/- 2. square feet 4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet 2. cubic feet of flood storage lost	3. cubic feet replaced

f. Riverfront Area

1. Name of Waterway (if 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.



Massachusetts Department of Environmental Protection
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WPA Form 3 – Notice of Intent

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

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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



Massachusetts Department of Environmental Protection
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WPA Form 3 – Notice of Intent

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

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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

- 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:**

MassGIS NHESP
Online Mapping

Natural Heritage and Endangered Species Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

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*

- Percentage/acreage of property to be altered:

(a) within wetland Resource Area _____
percentage/acreage

(b) outside Resource Area _____
percentage/acreage

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

- 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/mas-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.



Massachusetts Department of Environmental Protection
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WPA Form 3 – Notice of Intent

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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).



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

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Melrose

City/Town

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.

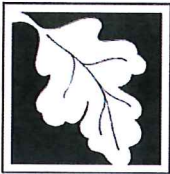
D. Additional Information

- 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.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:
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Melrose
City/Town

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.

Refer to the attached document titled "Contents, List of Plans and Documents" for titles and dates of submitted materials.

Hayes Engineering, Inc.

Peter J. Ogren, P.E.

b. Prepared By

c. Signed and Stamped by

d. Final Revision Date

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:

1416 # 1417

2. Municipal Check Number

5/17/21

3. Check date

1415

4. State Check Number

5/17/21

5. Check date

James

6. Payor name on check: First Name

Confalone

7. Payor name on check: Last Name



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

Melrose

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.

X *[Signature]*
1. Signature of Applicant

X MAY 7, 2021
2. Date

3. Signature of Property Owner (if different)

X
4. Date

X *[Signature]*
5. Signature of Representative (If any)

X 5/10/21
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:

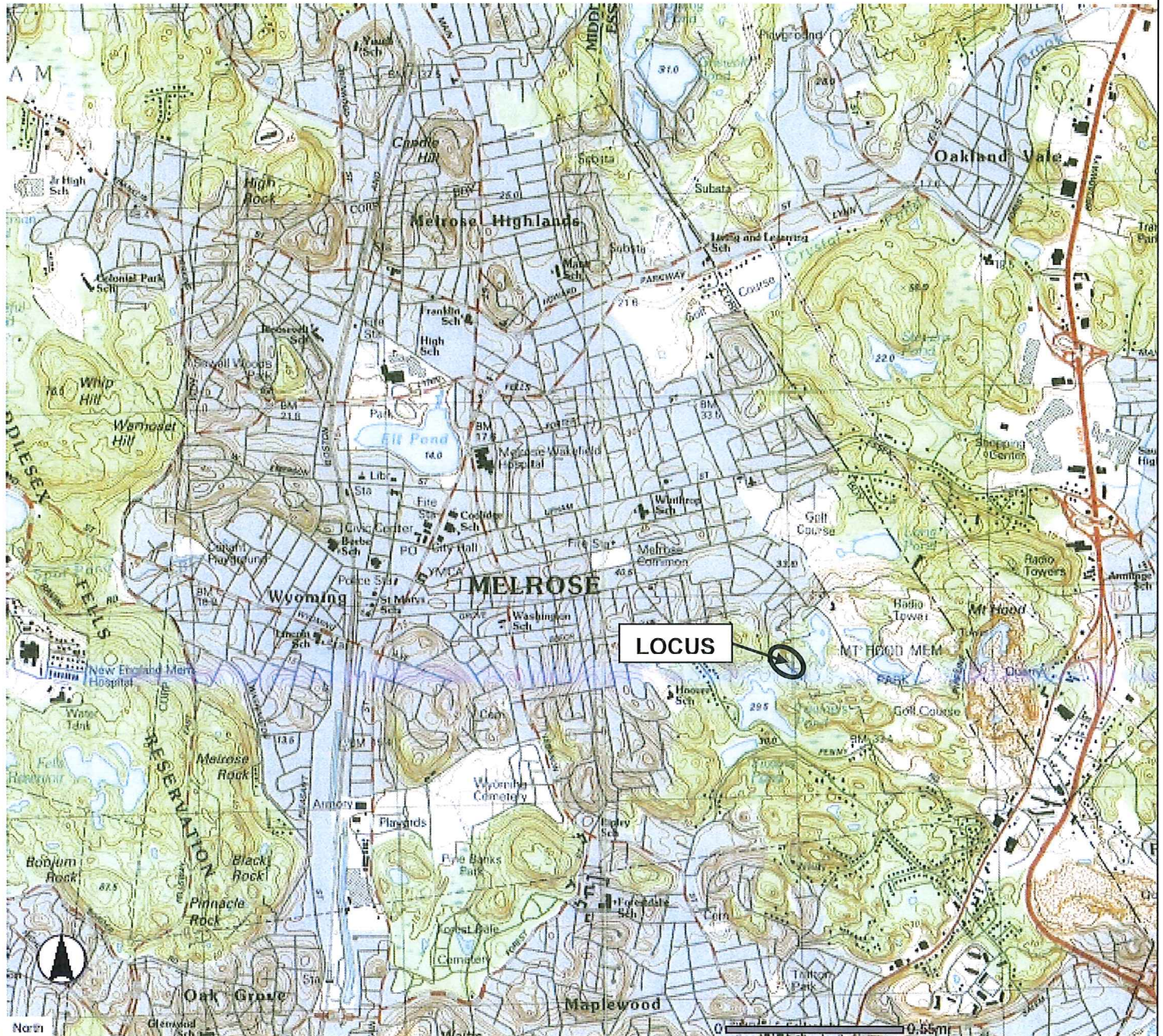
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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.

HAYES ENGINEERING, INC.
CIVIL ENGINEERING &
LAND SURVEYORS



603 SALEM STREET
WAKEFIELD, MA 01880
(781) 246-2800



UNITED STATES GEOLOGICAL SURVEY MAP
25K MASSGIS QUADRANGLE
(metric contours)

LOCUS MAP
#36 SLAYTON ROAD, LOTS 1 & 2
MELROSE, MASSACHUSETTS





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:

#36 Slayton Road (aka Lots 1 and 2)

a. Street Address

Melrose

b. City/Town

\$487.50

d. Fee amount

c. Check number

2. Applicant Mailing Address:

James

a. First Name

Confalone

b. Last Name

c. Organization

PO Box 415

d. Mailing Address

Rye Beach

e. City/Town

NH

f. State

03871

g. Zip Code

603-777-0094

h. Phone Number

i. Fax Number

oldjc02@gmail.com

j. Email Address

3. Property Owner (if different):

Same as applicant and Eleanor Nicholson,

a. First Name

Caroline Jensen, and Joan Austin

b. Last Name

c. Organization

PO Box 415

d. Mailing Address

Rye Beach

e. City/Town

NH

f. State

03871

g. Zip Code

603-777-0094

h. Phone Number

i. Fax Number

oldjc02@gmail.com

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).

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act
(to be submitted to the Massachusetts Department of
Environmental Protection and the Conservation Commission
when filing a Notice of Intent)

I, Diane Benoit, hereby certify under the pains and penalties of perjury that on 5/11/21 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws, Chapter 131, Section 40, and the **DEP Guide to Abutter Notification** dated April 8, 1994, in connection with the following matter: Construction of a single family house.

A Notice of Intent filed under the Massachusetts Wetlands Protection Act by James Confalone with the Melrose Conservation Commission on 5/11/21 for property located at #36 Slayton Road (Lots 1 And 2), Melrose.

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.

Diane Benoit
Name

5/11/21
Date

**NOTIFICATION TO ABUTTERS
UNDER THE MASSACHUSETTS WETLANDS PROTECTION ACT
AND
CITY OF MELROSE WETLANDS PROTECTION ORDINANCE**

(This form must be completed and copies sent, by certified mail or hand-delivered, to all abutters within 100 feet of the location of the project.)

In accordance with the second paragraph of *Massachusetts General Laws, Chapter 131, Section 40*, you are hereby notified of the following:

The name of the applicant is James Confalone.

The applicant has filed with the Melrose Conservation Commission for a: (Please check applicable filing.)

- Notice of Intent**, application seeking permission to work within the 100-foot buffer zone area subject to protection under the Wetlands Protection Act and the Melrose Wetlands Protection Ordinance.
- Request to amend an existing Order of Conditions.**
- Notice of Resource Area Delineation**, seeking to determine the extent of areas subject to protection under the Wetlands Protection Act.

The proposed work includes New house construction and associated site work.

Site location: #36 Slayton Road, Lots 1 And 2, Melrose (Assessor's Map G7 Block 0, Lots 62 A and 62B).

Copies of the **Notice of Intent** application may be examined or obtained (for a fee) from:

(Check all that apply)

Applicant at _____

Representative at Hayes Engineering, Inc., 603 Salem Street, Wakefield, MA (781)246-2800 between the hours of 8 am and 4:30 pm on the following days: Monday – Friday and by appointment.

Conservation Commission – Melrose City Hall, #526 Main Street, Melrose, MA

NOTE: City hall will be closed during the Covid-19 /Coronavirus emergency. Contact the Conservation Agent at edevlin@CityofMelrose.org , Remote Office Hours - Mondays and Wednesdays 8:30-12:30 for information. Remotely conducted meeting access and Application information will be available on the Conservation Commission website at the following webpage links: <https://www.cityofmelrose.org/conservation-commission/pages/current-case-materials> and <https://www.cityofmelrose.org/remote-meetings>

Note: Notice of the public hearing, including its date, time and place will be published in the Melrose Free Press newspaper and online editions, and also available at <https://www.masspublicnotices.org/> at least five (5) business days prior to the public hearing date.

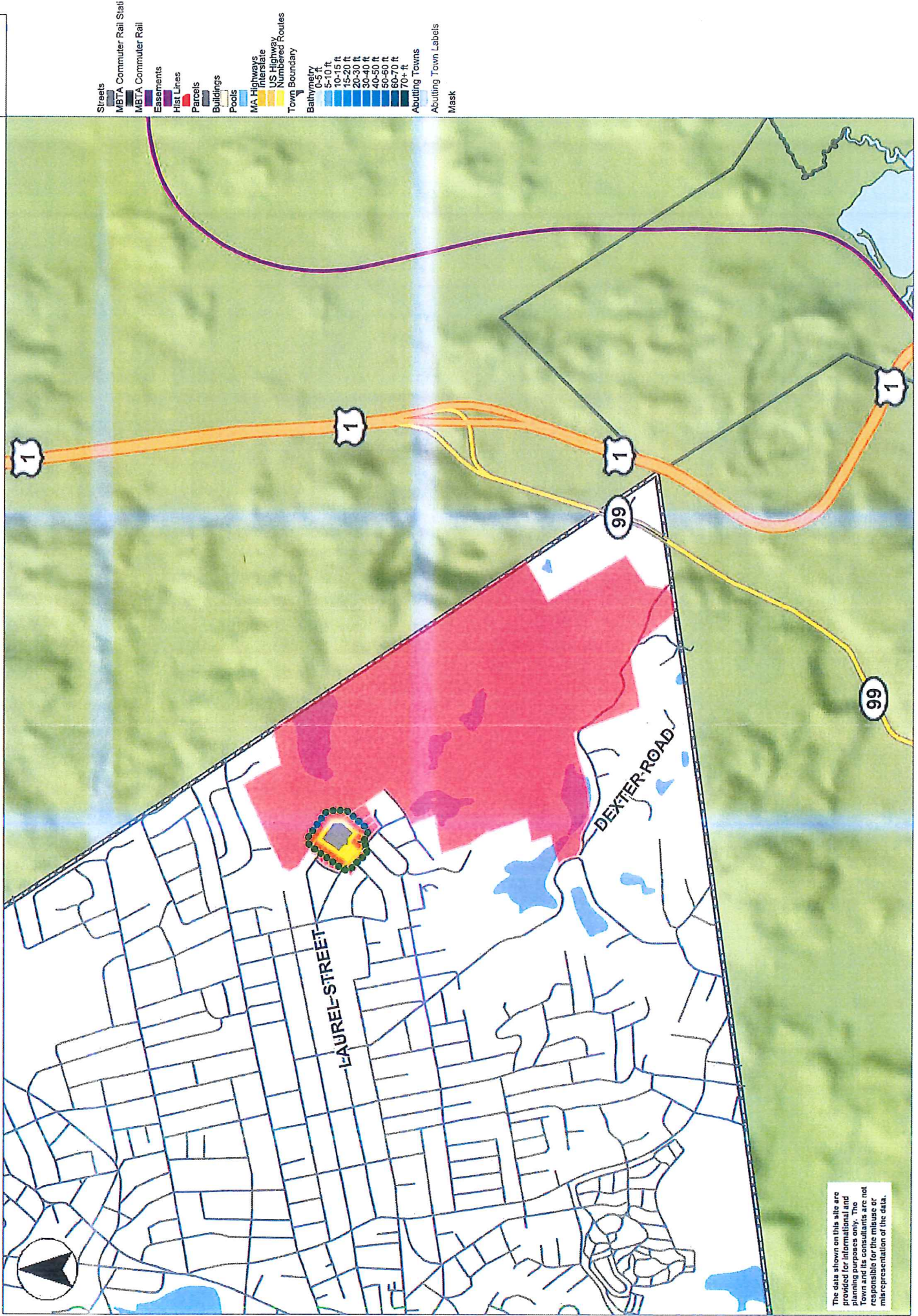
Note: Notice of the public hearing, including its date, time and place will be posted in <https://www.cityofmelrose.org/remote-meetings> at least 48 hours prior to the public hearing date.

Note: You may also contact the Department of Environmental Protection (DEP) Regional Office for more information about this application or the Wetlands Protection Act. To contact the DEP, Northeast Region, call (978) 694-3200.

abutters_id_field	abutters_owner1	abutters_owner2	abutters_address	abutters_address2	abutters_town	abutters_state	abutters_zip	abutters_bookpage	abutters_location
G7 0 43	DELORIE, JOAN M. TRUSTEE	JOAN M. DELORIE TRUST	39 SLAYTON RD		MELROSE	MA	02176	51906-215	39 SLAYTON RD
G7 0 44	HINCHEY, MICHAEL	KELLY A. HINCHEY HWY TE	1 MT HOOD TERR		MELROSE	MA	02176	1083-190	1 MT HOOD TR
G7 0 62B	CONFALONE, JAMES G.	JOAN AUSTIN, ET AL	PO BOX 415		RYE BEACH	NH	03871	1303-126	36 SLAYTON RD
G7 0 63	ROSCIGNO, SR, MICHAEL J.	MICHAEL J. ROSCIGNO, JR.	24 SLAYTON RD		MELROSE	MA	02176	1569-87	24 SLAYTON RD
G7 0 64	BALDASSARO, PATRICK JR	DEIRDRE A BALDASSARO TE	1 CRICKLEWOOD LN		MELROSE	MA	02176	1268-73	1 CRICKLEWOOD LN
G7 0 65	SHEA, STEPHEN J.	PENNY M. SHEA HWTE	9 CRICKLEWOOD LANE		MELROSE	MA	02176	1195-110	9 CRICKLEWOOD LN
G7 0 66	CORRADO, ANTHONY D.	LISA M. GIANATASIO HWTE	15 CRICKLEWOOD LN		MELROSE	MA	02176	1356-140	15 CRICKLEWOOD LN
G7 0 67	GUZZO, PAUL	MAIREAD GUZZO HWTE	21 CRICKLEWOOD LN		MELROSE	MA	02176	1180-83*	21 CRICKLEWOOD LN
G7 0 89	OBRIEN, TIMOTHY M.		29 SLAYTON RD		MELROSE	MA	02176	49688-438	29 SLAYTON RD
G7 0 90	WONG, WING	MARIE WONG	5 SYCAMORE RD		MELROSE	MA	02176	8880-301	5 SYCAMORE RD
G8 0 91	ADELMAN, DONALD	AUDREY P ADELMAN	318 LAUREL ST		MELROSE	MA	02176	740-72	318 LAUREL ST
H6 0 0	MT HOOD, PARK + REC	116.8 ACRES	STILLMAN RD		MELROSE	MA	02176	5983-104	100 SLAYTON RD
H7 0 6	CAPUANO, LAWRENCE J., IND.		48 SLAYTON RD		MELROSE	MA	02176	1557-187	48 SLAYTON RD
H7 0 7	52 SLAYTON ROAD LLC		5 ANGELA CIRCLE		MELROSE	MA	02176	1564-54	52 SLAYTON RD
H7 0 7A	LYLE REVOCABLE TR	MICHAEL L LYLE, TREES	5 ANGELA CIRCLE		MELROSE	MA	02176	1564-43	5 ANGELA CR
H7 0 7B	CARROLL, MICHAEL J.	MOLLY CARROLL, HWTE	9 ANGELA CIRCLE		MELROSE	MA	02176	1524-13	9 ANGELA CR
G7 0 62A	CONFALONE, JAMES G.		P.O. BOX 415		RYE BEACH	NH	03871	1303-125	SLAYTON RD
G7 0 62C	TRIER FAMILY REV. TRUST	SETH R. TRIER AND	30 SLAYTON RD		MELROSE	MA	02176	1493-37	30 SLAYTON RD
G7 0 62D	LIN, STUART	RENEE LIN, HWTE	32 SLAYTON RD		MELROSE	MA	02176	1493-67	32 SLAYTON RD

City of Melrose Board of Assessors
 Certified Abutters List
 4/5/2021

Jag



- Streets
- MBTA Commuter Rail Stati
- MBTA Commuter Rail
- Easements
- Hist Lines
- Parcels
- Buildings
- Pools
- MA Highways
- Interstate
- US Highway
- Numbers Routes
- Town Boundary
- Bathymetry
 - 0-5 ft
 - 5-10 ft
 - 10-15 ft
 - 15-20 ft
 - 20-30 ft
 - 30-40 ft
 - 40-50 ft
 - 50-60 ft
 - 60-70 ft
 - 70+ ft
- Abutting Towns
- Abutting Town Labels
- Mask

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



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Lisa M. Gianatasio
15 Cricklewood Lane
Melrose, MA 02176

Paul & Mairead Guzzo
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Melrose, MA 02176

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Michael L. Lyle, Trustee
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Melrose, MA 02176

Michael J. & Molly Carroll
9 Angela Circle
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Trier Family Revocable Trust
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Melrose, MA 02176

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Joan M. Delorie, Tr.
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Melrose, MA 02176

**PROJECT NARRATIVE
PROPOSED HOUSE
#36 SLAYTON ROAD
MELROSE, MASSACHUSETTS**

April 26, 2021

Existing Conditions

The subject locus consists of two adjacent vacant properties, a 153,696 s.f. parcel identified as #36 Slayton Road (a.k.a Lot 2) and a 15,559 s.f. parcel identified as #0 Slayton Road (a.k.a. Lot 1) located near the perimeter of Mount Hood Golf Course. The parcel at #36 Slayton predominantly contains wetlands with interior intermittent stream channels as well as upland areas present along the street and at the rear of the parcel. The lot was historically contained a house in the rear portion of the parcel which was accessed by a dirt drive entering from Slayton Road as shown on the attached MassGIS aerial photographs taken some time in the 1990's and 2005. The house is now gone but clearings for the pre-existing dirt driveway and house, the driveway culvert pipe, and old fill disturbances are still evident. The land at #0 Slayton is predominantly forested upland along the street side with the remainder occupied by wetlands. The applicant's intent is to proceed with development of the combined parcels as described below.

Resource Areas

Both parcels contain freshwater marsh and swamp-type bordering vegetated wetlands (BVW), bordering land subject to flooding associated with a FEMA Zone A Special Flood Hazard Zone (BLSF - no base flood elevation), and inland bank resource areas, and 100-foot buffer zones subject to protection under the Wetlands Protection Act Regulations (310 CMR 10.00) and the city of Melrose Wetlands Protection Ordinance (Chapter 231), and their respective promulgated regulations.

Previous Permitting by Conservation Commission

These parcels were included as two single family house lots in a 4-lot subdivision previously permitted under an Order of Conditions (D.E.P. file #217-0119) issued by the Melrose Conservation Commission in January of 2002 (now expired). Subdivision Lot 2 included the driveway crossing shown in the current house design. These parcels are the only remaining undeveloped lots of that subdivision, with the others having been developed with single family houses and no longer owned by the applicant.

Previous Court Action

It is noted that the subdivision design for Lot 2 was the subject of Superior Court Civil Action No. 93-04142-B which allowed the applicant to proceed with development of that lot as designed.

Proposed Activities

The proposed project is the construction of a single-family house with permeable pavement driveway at existing grade, grassed yard, roof runoff infiltration system, and combined wetland replication area and flood compensation area, as shown on the accompanying Hayes Engineering, Inc. plan titled "Topographic Plan of Land in Melrose, Mass.". Lot development work will consist of erosion control installation along the perimeter of the work, vegetation clearing, and removal of existing structures as needed, driveway grading and paving, foundation installation, structure construction, utility trenching and installation filling, replication area /flood compensation

construction, and stormwater chamber installation as described in the paragraphs below. Implementation of erosion control procedures outlined in the accompanying "Erosion and Sedimentation Control" report and additional provision of vegetation buffers will serve to protect adjacent resource areas from any unplanned encroachment. Any activity within the buffer zone or resource area requires that certain performance standards be met by the project.

New House

A single-family house of 1,300± s.f. will be constructed within the vicinity of the previously existing house in Lot 2 as shown on the above-referenced plan. Activities associated with this work will occur within the buffer zone include house construction, paved driveway, utilities, sewer pump station and tank, roof runoff infiltration chamber system, grass swale, and grassed yard. The limit of driveway construction will be kept at least 20 feet way from the wetland boundary and grading work will be kept at least 15 feet away from the wetland boundary as much as practicable.

Driveway

The new house will be accessed along a 500± long, 15-foot wide paved driveway entering from Slayton Road and predominantly located within the previous dirt driveway location. Activities associated with this work will occur within buffer zone and resource areas and include vegetation clearing, sewer force main and utility structure installation, grading as needed to cover the utilities and provide a stable driveway base while preserving the existing elevations as much as possible, paving, and reflective post installation, and loaming and seeding of temporarily disturbed areas. Approximately 2,360 s.f. of BVW and 3,227 s.f. of BLSF will be temporarily and permanently disturbed as a result of clearing, grading, and paving activities for the driveway crossing. Impacts will be mitigated by the construction of a compensatory area and installation of wildlife habitat plantings as further described below. This crossing qualifies as a limited project under the Massachusetts Wetlands Protection Act Regulation provision at 310 CMR 10.53(3).

Compensatory Area Construction

The project includes construction of a 1,430± s.f. compensatory area located on Lot 1 to provide required BVW replication and flood water storage resulting from driveway construction. Activities associated with this work include excavating the upland location along wetland flags #S28 through #S36 to an elevation of 99.0', loaming the area bottom, and planting the area with wildlife friendly tree, shrub and ground cover species. This action will ensure that the replacement area will re-establish itself as part of the existing wetland community and flood zone, and ultimately function in a similar manner. Refer to the Topographic plan for detailed replacement area planting information. Erosion of bare soils will be prevented by the installation of siltation barriers at the limit of the replacement area and by seeding bare areas within the replacement areas with red top grass.

Stormwater Management

Stormwater management is not required to be provided under the Massachusetts Wetlands Protection Act Regulations since this is a single-family house project. Nonetheless, the project has been designed to include a chamber infiltration system to manage roof runoff and a grassed water quality swale to receive and infiltrate runoff from the paved driveway turn around adjacent to the house pursuant to the Melrose Wetlands Ordinance performance standards.

Erosion and Sedimentation Control

Erosion control procedures and sediment barrier controls will be implemented as outlined in the accompanying Hayes Engineering Inc. document titled "Erosion and Sedimentation Control and as shown on the site plan.

Impact Avoidance

Although the project was designed to avoid adverse impacts, it was not possible to entirely avoid wetland filling. This proposed driveway is the only means of access to the rear (eastern) portion of the property where the house is proposed. No other access is available to that land from adjacent properties due to the presence of the Mt. Hood golf course along the easterly and northerly lot lines, and residential properties along the southerly and westerly lot lines. The extent of wetlands prevents any alternative locations for the driveway that would reduce or avoid wetlands within Lots 1 And 2 or provide access from adjacent lots in the subdivision. The locations of proposed activities were chosen to utilize areas of the site occupied by the pre-existing house and driveway.

Melrose Wetlands Protection Ordinance

Construction activities associated with the project are proposed within buffer zone and resource areas jurisdictional under the Melrose Wetlands Protection Ordinance. The project has been designed to comply as much as is practicable with the Ordinance requirements, as detailed below.

Section 231-6 Standards

Section 231-6(A) - Setbacks

Subsection 6 (A)(1)(a.) - 15-Foot No-Disturbance Zone (NDZ)

Buffer zone work related to house and driveway construction will be kept at least 15 feet away from the wetland boundary as much as practicable. Paving and grading activities associated with construction of the driveway, replication area and yard will necessarily be located within the 15-foot No Disturbance Zone due to the proposed wetland crossing access to the rear upland area. As such, those activities do not comply with this performance standard and will require a waiver to be granted by the Conservation Commission. Refer to the "Requested Waivers" section below.

Subsection 6 (A)(1)(b.) - 20-Foot No Construction Zone (NCZ)

Portions of the driveway will be constructed within the 20-foot No Construction Zone due to the proposed driveway crossing access to the rear upland area. This work is allowed within the No Construction Zone pursuant to Ordinance Section 231-6(A)(3) – "Upland Access" since there is no other reasonable alternative access to that portion of the site.

Subsection 231-6(B) - Floodplain

The project proposes approximately 3,227 s.f. of permanent and temporary floodplain disturbance due to driveway construction. The proposed compensatory area will provide flood storage as mitigation for that disturbance.

Subsection 231-6(C) – Wildlife Habitat

A review of the MassGIS online Massachusetts Natural Heritage and Endangered Species Program mapping revealed that this site does not contain any Estimated Habitat of Rare and Endangered Species or Priority Habitat. No areas of exceptional wildlife habitat were observed on this property. Wildlife friendly shrubs suitable for buffer zone areas, such as silky dogwood and highbush blueberry will be planted within the compensatory area as well as between the edge of lawn and wetland boundary. A landscape plan showing the number, type, and location of buffer zone plantings will be submitted to the Melrose Conservation Commission prior to commencement of site construction.

Subsection 231-6(D) – Stormwater Management

Stormwater runoff will be treated by the Low Impact Development method as specified in Subsection 231-6(D)(1)(c and f) to ensure maintenance of site water quality. Runoff from the portion of driveway near the house will be directed into a grass swale to capture particulates and reduce velocity, and then allowed to infiltrate into the ground through sheet flow over the lawn into the naturally vegetated buffer. Roof runoff will be directed into Cultec infiltrator units as shown on the plan.

Section 231-9 – Waiver Request

The applicant requests the Conservation Commission to grant a waiver from the requirements of Subsection 6 (A)(1)(a.) allowing driveway construction, utility installation and grading to proceed within the 15-foot No Disturbance Zone. This intrusion into the regulatory setback zone is necessary due to the necessity to access the upland at the rear of the property for the project purpose of constructing a single-family house. This work will occur within the areas of prior disturbance described in the above paragraphs.

**EROSION AND SEDIMENTATION CONTROL
#36 SLAYTON ROAD
MELROSE, MASSACHUSETTS**

April 26, 2021

PART I - GENERAL

- A. The applicant and site contractors shall be responsible for reviewing, and taking steps to meet, all requirements contained in the Order of Conditions issued by the Melrose Conservation Commission for this project.
- B. Follow siltation control methods as outlined below, shown on the plan and as directed by Engineer.
- C. Operations will be restricted to areas of work indicated on drawings (and clearly marked on site) and to areas that must be entered for construction of temporary or permanent facilities.
- D. Siltation controls along areas of grading and construction shall be checked frequently and maintained in functioning condition throughout the duration of site work so as to prevent encroachment upon adjacent resource areas. If siltation control barriers are damaged or washed away, contact the Conservation Commission and Engineer, and repair /remove materials and silt accumulations from fouled areas as directed.
- E. Conservation Commission has authority to direct immediate permanent or temporary pollution control measures to prevent contamination of wetlands, including construction of temporary berms, sediment basins, sediment traps, slope drains and use of temporary mulches, mats or other control devices or methods as necessary to control erosion.
- F. Temporary storage areas for demolition materials and mechanized equipment shall be kept as far away from adjacent resource areas as possible.
- G. Equipment and trucks shall be routed only over the areas of proposed activity and workers shall avoid foot traffic in vegetated areas adjacent to the work area.

PART 2 – EROSION CONTROL BARRIERS

Erosion barriers shall be installed along wetland boundaries as shown on the Notice of Intent Plan prior to commencement of any site work. Barriers specified on the plan shall be installed as specified below. Alternative types of barriers (i.e straw, coir or Filtrexx™ type logs) may be used with the approval of the Conservation Commission and Project Engineer and be installed per manufacturers instructions. The approved alternative barrier must be designed and sized specifically for conditions on this site. After initial barrier installation, site personnel shall perform weekly inspections of, and maintain, the siltation control barrier during construction. Inspections of the siltation control barrier shall also be performed prior to and immediately following major (>1") rainfall event. After all construction activities are completed, and the areas of bare soil are

vegetated and or stabilized, the siltation control barriers may be removed. It is important that the disturbed areas previously occupied by the siltation control barriers, as well as adjacent areas, be repaired and vegetated immediately after removal of the barriers.

A. MATERIALS

Staked Haybale Barrier

1. Hay or straw bales, enough to accomplish length specified on plan and 10 to be reserved for replacement or barrier re-enforcement use, as needed.
2. 2-inch by 2-inch by 3.5-foot wooden stakes for hay bales, two stakes per bale.

Filter Fences

A. Synthetic Filter Fabric

1. Synthetic filter fabric shall consist of a pervious sheet of propylene, nylon, polyester or ethylene filaments.
2. Certified by manufacturer or supplier as conforming to the following requirements:

<u>Physical Property</u>	<u>Minimum Requirements</u>
Filtering Efficiency	75 percent
Tensile Strength at 20% (maximum) Elongation	Extra Strength: 50 lbs./ linear inch Standard Strength: 30 lbs../ linear inch
Flow Rate	.3 gal./ sq.ft.

B. Non-synthetic Filter Fabric

1. Shall consist of burlap fabric weighing 10 ounces per square yard.

C. Filter Fabric Support

1. Posts or stakes for filter fences shall be of sufficient size and strength to support the fabric. Steel posts shall have projections for fastening wire to them.

B. INSTALLATION

1. Location

Install erosion controls prior to commencement of construction activities along limits of work area as specified on plan, surrounding bases of all deposits of stored fill material outside of disturbed area, and where directed by the Melrose Conservation Commission.

2. Barrier Installation

- A. Hay Bales
Hay bales, if specified, will be embedded in the soil a minimum of 4 inches. Hold bales in place with two 2-inch by 2-inch by 3.5-foot stakes so that each bale is butted tightly against adjoining bale, thereby precluding short-circuiting of erosion check. The first stake in each bale shall be driven toward the previously-laid bale to push the bales together.

- B. Filter Fences
 - 1. Excavate trench along post line 6 inches wide and 6 inches deep on the upslope side of the barrier.
 - 2. Space posts a maximum of 10 feet apart and drive them a minimum of 12 inches into the ground. The posts should not be greater than 36 inches above the ground.
 - 4. Staple, wire or tie the standard strength filter fabric to the posts. The fabric should be pulled tight between posts. The fabric shall extend 8 inches into the trench and shall not extend more than 36 inches above the ground. Do not staple filter fabric to existing trees. Backfill trench and compact soil over filter fabric.
 - 4. Provide wildlife passage corridor with baffle for every 100' of fence installation. Passage shall be 18" wide between stakes, and baffle shall be installed parallel to fence, offset 18" from fenceline, and overlapping passage by 48" on either side of break.

PART 3 – POLLUTION CONTROL MEASURES

- A. Discharge silt-laden water from excavations onto filter fabric mat and/or baled hay or straw sediment traps to ensure that only sediment-free water is returned to wetland areas. Sediment traps, if needed, should be constructed by standard methods.
- B. Do not place soil backfill material adjacent to resource areas without proper siltation controls or otherwise preventing the soil from washing away by high water or runoff.
- C. Do not dump any materials into any streams, wetlands, surface waters or unspecified locations.
- D. Do not pump silt-laden water from trenches or excavations into surface waters, streams, wetlands or natural or man-made channels leading thereto.
- E. Do not dispose of trees, brush, debris, paints, chemicals, asphalt products, concrete curing compounds, fuels, lubricants, insecticides, washwater from concrete trucks or hydroseeders, or any other pollutant into any streams, wetlands, surface waters or natural or man-made channels leading thereto, or unspecified locations.

- F. No disturbance or alteration of any kind allowed between the specified limit of work and the wetland boundary or within adjacent wetlands.
- G. Prevent any operation of equipment outside the designated limit of work (silt fence).
- H. Take preventative measures to ensure that sediments generated by site work do not wash into catch basins and other components of the drainage system.

PART 4 – STABILIZATION TECHNIQUES

A. Protecting and Minimizing Exposed Areas

Steps shall be taken to minimize area of bare earth exposure by preserving existing vegetation and providing soil stabilization. Equipment and trucks shall be routed only over the proposed work areas and workers shall minimize foot traffic in vegetated areas adjacent to the work area as much as possible. During site work, utilization of stabilization techniques are necessary for controlling erosion on exposed areas, including grading, seeding and otherwise stabilizing the areas.

B. Sediment And Erosion Control

Prior to any construction occurring adjacent to identified resource areas (shown on the plan and/or marked in the field, proper erosion and siltation barriers will be installed so that throughout and until completion of construction, those areas will be afforded maximum protection. Temporary stockpiles of soil shall be surrounded with an erosion control barrier to prevent sediments from exiting the subject property. All erosion control barriers are to be maintained and periodically inspected until areas of bare soil (if any) are stabilized to ensure that they are in functioning condition. Mirafi (or equivalent fabric) fencing and haybales shall be installed along the limit of work as shown on the above-mentioned plan. Any accumulations of sediments present along erosion control barriers shall be removed as soon as possible after deposition in order to ensure the effectiveness of all sedimentation controls.

C. Vegetational Covers

1. Temporary Vegetational Cover

Any area proposed for removal of vegetation where soil will be exposed for more than 10 days shall be mulched or otherwise treated to prevent erosion. On sediment-producing areas in the buffer zone, where the period of exposure will be more than 30 days, the following procedures should be followed for a cover of annual rye. When bare soils are not completely graded and vegetated by September 30 of any year, winter rye shall be planted as specified in table and mulched with three (3) inches of hay or straw.

- a. Install needed surface water control measures.
- b. Perform all cultural operations at right angles to the slope.

- c. Establish grass or other ground cover species as recommended in the attached excerpt (pgs 144 -146) from Massachusetts Erosion and Sedimentation Guidelines for Urban and Suburban Areas, 2003.

2. Permanent Vegetational Cover

To reduce damages from the potential incidence of sedimentation and runoff to other properties, and to avoid erosion on the site itself, a permanent type cover shall be established in disturbed areas located adjacent to resource areas immediately upon completion of grading. Seeding herbaceous cover is usually the most economical and practical way to stabilize any large area. For this site, all disturbed areas where lawns are desired will be seeded in Fall during the period of August 1 to October 1; or in spring by May 15 with a commercial lawn mixture utilizing standard landscape methods and as recommended by the seed manufacturer. Grass sod or landscape plantings may be used instead of seed, if preferred.

In upland/ buffer zone areas, outside of lawn locations, where an erosion control - wildlife seed mixture is desired, prepare soil and use one of grass seed mixes #1 through #6 as recommended in the attached excerpts (pgs 136-137) from Massachusetts Erosion and Sedimentation Guidelines for Urban and Suburban Areas 2003, to establish a stable, permanent cover.

REFERENCES

Department of Environmental Protection, Bureau of Resource Protection and U.S. Environmental Protection Agency, Massachusetts Erosion and Sedimentation Guidelines for Urban and Suburban Areas: A Guide for Planners, Designers and Municipal Officials. Massachusetts Executive Office of Environmental Affairs, Boston, Massachusetts, Reprint: May 2003.

Use low-maintenance native species wherever possible.

Planting should be timed to minimize the need for irrigation.

Sheet erosion, caused by the impact of rain on bare soil, is the source of most fine particles in sediment. To reduce this sediment load in runoff, the soil surface itself should be protected. The most efficient and economical means of controlling sheet and rill erosion is to establish vegetative cover. Annual plants which sprout rapidly and survive for only one growing season are suitable for establishing temporary vegetative cover. Temporary seeding is effective when combined with construction phasing so bare areas of the site are minimized at all times.

Temporary seeding may prevent costly maintenance operations on other erosion control systems. For example, sediment basin clean-outs will be reduced if the drainage area of the basin is seeded where grading and construction are not taking place. Perimeter dikes will be more effective if not choked with sediment.

Proper seedbed preparation and the use of quality seed are important in this practice just as in permanent seeding. Failure to carefully follow sound agronomic recommendations will often result in an inadequate stand of vegetation that provides little or no erosion control.

Soil that has been compacted by heavy traffic or machinery may need to be loosened. Successful growth usually requires that the soil be tilled before the seed is applied. Topsoiling is not necessary for temporary seeding; however, it may improve the chances of establishing temporary vegetation in an area.

Planting Procedures

Time of Planting

Planting should preferably be done between April 1 and June 30, and September 1 through September 30. If planting is done in the months of July and August, irrigation may be required. If planting is done between October 1 and March 31, mulching should be applied immediately after planting. If seeding is done during the summer months, irrigation of some sort will probably be necessary.

Site Preparation

Before seeding, install needed surface runoff control measures such as gradient terraces, interceptor dike/swales, level spreaders, and sediment basins.

Seedbed Preparation

The seedbed should be firm with a fairly fine surface.

Perform all cultural operations across or at right angles to the slope. See **Topsoiling** and **Surface Roughening** for more information on seedbed preparation. A minimum of 2 to 4 inches of tilled topsoil is required.

Liming and Fertilization

Apply uniformly 2 tons of ground limestone per acre (100 lbs. per 1,000 Sq. Ft.) or according to soil test.

Apply uniformly 10-10-10 analysis fertilizer at the rate of 400 lbs. per acre (14 lbs. per 1,000 Sq. Ft.) or as indicated by soil test. Forty percent of the nitrogen should be in organic form.

Work in lime and fertilizer to a depth of 4 inches using any suitable equipment.

<i>Species</i>	Seedings for Temporary Cover		<i>Recommended Seeding Dates</i>
	<i>Seeding Rates lbs/sq.ft.</i>		
	<u>1,000 Sq.Ft.</u>	<u>Acre</u>	
Annual Ryegrass	1	40	April 1 to June 1 Aug. 15 to Sept. 15
Foxtail Millet	0.7	30	May 1 to June 30
Oats	2	80	April 1 to July 1 August 15 to Sept. 15
Winter Rye	3	120	Aug. 15 to Oct. 15

"Hydro-seeding" applications with appropriate seed-mulch-fertilizer mixtures may also be used.

Seeding

Select adapted species from the accompanying table.

Apply seed uniformly according to the rate indicated in the table by broadcasting, drilling or hydraulic application.

Cover seeds with suitable equipment as follows:

- ☐ Rye grass ¼ inch
- ☐ Millet ½ to ¾ inch
- ☐ Oats 1 to 1-1/2 inches
- ☐ Winter rye 1 to 1-1/2 inches.

Mulch

Use an effective mulch, such as clean grain straw; tacked and/or tied down with netting to protect seedbed and encourage plant growth.

Common Trouble Points

Lime and fertilizer not incorporated to at least 4 inches

May be lost to runoff or remain concentrated near the surface where they may inhibit germination.

Mulch rate inadequate or straw mulch not tacked down

Results in poor germination or failure, and erosion damage. Repair damaged areas, reseed and mulch.

Annual ryegrass used for temporary seeding

Ryegrass reseeds itself and makes it difficult to establish a good cover of permanent vegetation.

Seed not broadcast evenly or rate too low

Results in patchy growth and erosion.

Maintenance

Inspect within 6 weeks of planting to see if stands are adequate. Check for damage after heavy rains. Stands should be uniform and dense. Fertilize, reseed, and mulch damaged and sparse areas immediately. Tack or tie down mulch as necessary.

Seeds should be supplied with adequate moisture. Furnish water as needed, especially in abnormally hot or dry weather or on adverse sites. Water application rates should be controlled to prevent runoff.

References

Massachusetts Department of Environmental Protection, Office of Watershed Management, Nonpoint Source Program, Massachusetts ***Nonpoint Source Management Manual***, Boston, Massachusetts, June, 1993.

North Carolina Department of Environment, Health, and Natural Resources, ***Erosion and Sediment Control Field Manual***, Raleigh, NC, February 1991.

U.S. Environmental Protection Agency, ***Storm Water Management For Construction Activities***, EPA-832-R-92-005, Washington, DC, September, 1992.

Washington State Department of Ecology, ***Stormwater Management Manual for the Puget Sound Basin***, Olympia, WA, February, 1992.

Silt Curtain

A temporary sediment barrier installed parallel to the bank of a stream or lake. Used to contain the sediment produced by construction operations on the bank of a stream or lake and allow for its removal.

Where Practice Applies

The silt curtain is used along the banks of streams or lakes where sediment could pollute or degrade the stream or lake.

Seeding Dates

Seeding operations should be performed as an early spring seeding (April 1-May 15) with the use of cold treated seed. A late fall early winter dormant seeding (November 1 - December 15) can also be made, however the seeding rate will need to be increased by 50%.

Seeding Methods

Seeding should be performed by one of the following methods:

- ☐ Drill seedings (de-awned or de-bearded seed should be used unless the drill is equipped with special features to accept awned seed).
- ☐ Broadcast seeding with subsequent rolling, cultipacking or tracking the seeding with small track construction equipment. Tracking should be oriented up and down the slope.
- ☐ Hydroseeding with subsequent tracking. If wood fiber mulch is used, it should be applied as a separate operation after seeding and tracking to assure good seed to soil contact.

Mulch

Mulch the seedlings with straw applied at the rate of ½ tons per acre. Anchor the mulch with erosion control netting or fabric on sloping areas.

Seed Mixtures for Permanent Cover

Recommended mixtures for permanent seeding are provided on the following pages. Select plant species which are suited to the site conditions and planned use. Soil moisture conditions, often the major limiting site factor, are usually classified as follows:

Dry - Sands and gravels to sandy loams. No effective moisture supply from seepage or a high water table.

Moist - Well drained to moderately well drained sandy loams, loams, and finer; or coarser textured material with moderate influence on root zone from seepage or a high water table.

Wet - All textures with a water table at or very near the soil surface, or with enduring seepage.

When other factors strongly influence site conditions, the plants selected must also be tolerant of these conditions.

Permanent Seeding Mixtures					
Seed, Pounds per:					
Mix	Site	Seed Mixture	Acre	1,000 sf	Remarks
1	Dry	Little Bluestem	10	0.25	* Use Warm Season planting procedure. * Roadsides * Sand and Gravel Stabilization * Clover requires inoculation with nitrogen-fixing bacteria * Rates for this mix are for PLS.
		or Broomsedge	1	0.10	
		Tumble Lovegrass*	10	0.25	
		Switchgrass	2	0.10	
		Bush Clover*	1	0.10	
2	Dry	Deertongue	15	0.35	* Use Warm Season planting procedures. * Acid sites/Mine spoil * Clover requires inoculation with nitrogen-fixing bacteria. *Rates for this mix are for PLS.
		Broomsedge	10	0.25	
		Bush Clover*	2	0.10	
		Red Top	1	0.10	
3	Dry	Big Bluestem	10	0.25	* Use Warm Season planting procedures. * Eastern Prairie appearance * Sand and Gravel pits. * Golf Course Wild Areas * Sanitary Landfill Cover seeding * Wildlife Areas *OK to substitute Poverty Dropseed in place of Red Top/Ryegrass. *Rates for this mix are for PLS.
		Indian Grass	10	0.25	
		Switchgrass	10	0.25	
		Little Bluestem	10	0.25	
		Red Top or	1	0.10	
		Perennial Ryegrass	10	0.25	
4	Dry	Flat Pea	25	0.60	* Use Cool Season planting procedures * Utility Rights-of-Ways (tends to suppress woody growth)
		Red Top or	2	0.10	
		Perennial Ryegrass	15	0.35	
5	Dry	Little Bluestem	5	0.10	* Use Warm Season planting procedures. * Coastal sites * Rates for Bluestein and Switchgrass are for PLS.
		Switchgrass	10	0.25	
		Beach Pea*	20	0.45	
		Perennial Ryegrass	10	0.25	
6	Dry - Moist	Red Fescue	10	0.25	* Use Cool Season planting procedure. * Provides quick cover but is non-aggressive; will tend to allow indigenous plant colonization. * General erosion control on variety of sites, including forest roads, skid trails and landings.
		Canada Bluegrass	10	0.25	
		Perennial Ryegrass	10	0.25	
		Red Top	1	0.10	
7	Moist- Wet	Switchgrass	10	0.25	* Use Warm Season planting procedure. * Coastal plain/flood plain * Rates for Bluestem and Switchgrass are for PLS.
		Virginia Wild Rye	5	0.10	
		Big Bluestem	15	0.35	
		Red Top	1	0.10	



36 Slayton Melrose



Available Data Layers

Search data layers

- Elevation with Shaded Rel
- Impervious Surface
- Aerial Photos (Ortho Imag
- 2015 WorldView Ortho
- 2019 Color Orthos (US
- 2013-2014 Color Ortho
- 2011-2012 Digital Glob
- 2008/2009 Color Ortho
- 2005 Color Orthos

Active Data Layers

Check all | Uncheck all

- 2013-2014 Color Ortho
- 2011-2012 Digital Glob
- 1990s Black and White
- 2008/2009 Color Ortho
- 2005 Color Orthos
- Tax Parcels for Query
- Detailed Features
- Tax Parcels for Display
- Structures

Legend

Tax Parcels for Query



20 m | 100 ft

Scale = 1:2,257

237,809.11m 911,902.57m

MassGIS Topographic Features BaseMap

0 m



36 Slayton Melrose

Zoom to a town



Available Data Layers

Search data layers

- Elevation with Shaded Rel
- Impervious Surface
- Aerial Photos (Ortho Imag
- 2015 WorldView Ortho
- 2019 Color Orthos (US
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Legend

Tax Parcels for Query



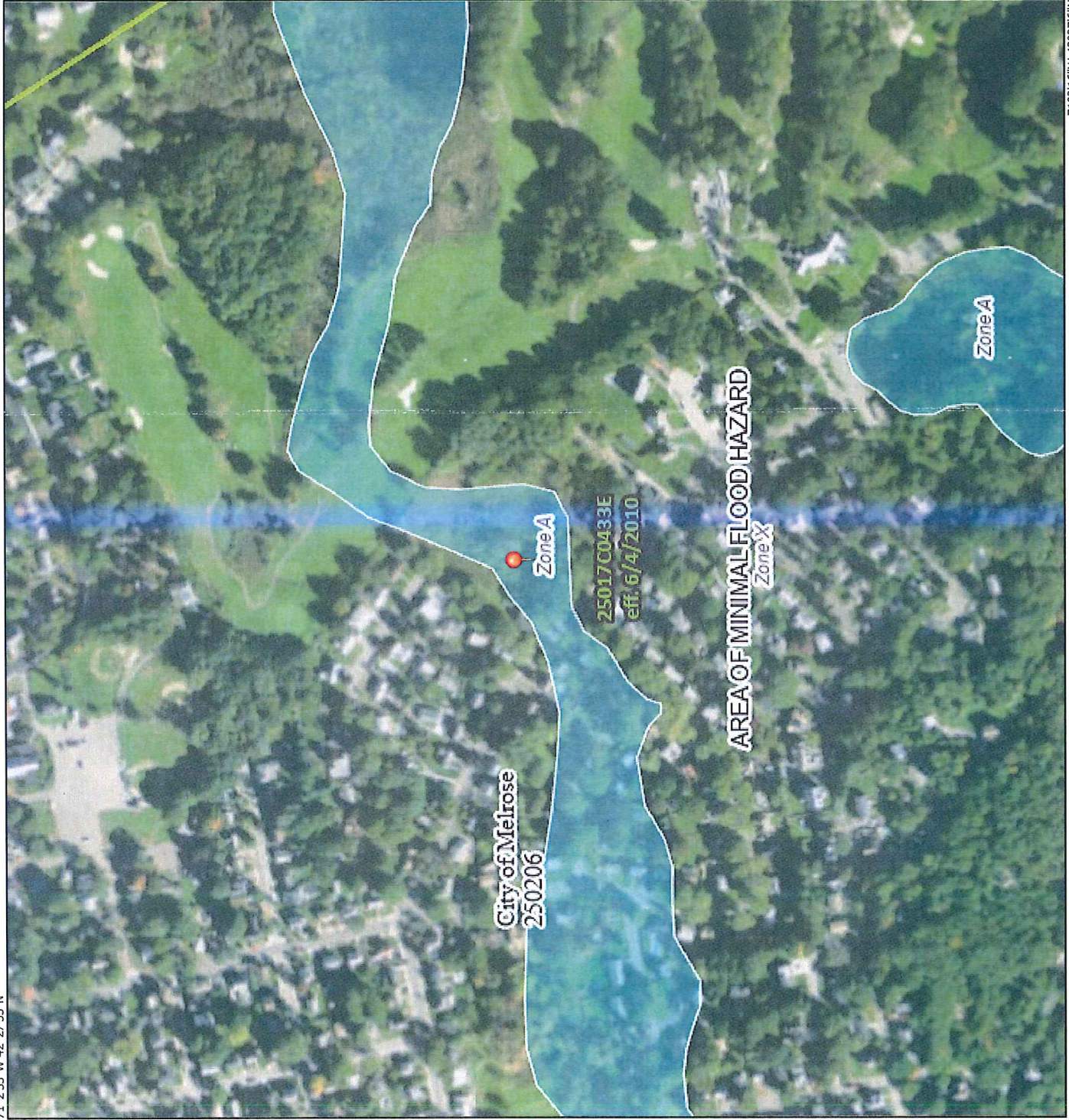
Scale = 1:1,128
237,710.52m 911,773.00m
MassGIS Topographic Features Basemap

0 m

National Flood Hazard Layer FIRMette



71°2'53"W 42°27'33"N



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

71°2'16"W 42°27'6"N

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, Area 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 LOMRPs
- Area of Undetermined Flood Hazard (Zone X)

GENERAL STRUCTURES

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

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- 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

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/3/2021 at 4:09 PM 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.