

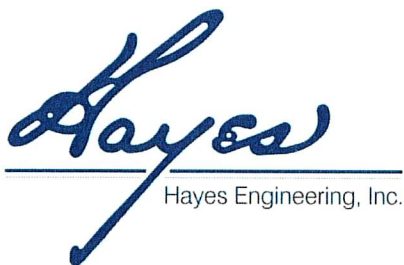
Applicant:
Elizabeth and Daniel Kent
#813 Summer Street
Lynnfield, MA 01940

Project File: LYF-1461

Notice of Intent Application

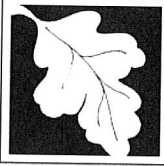
Proposed Additions
#34 Edgemere Road
Lynnfield, Massachusetts

September 2023



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

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



Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username: **HAYESWALLIS**

Transaction ID: **1611927**

Document: **WPA Form 3 - NOI**

Size of File: **275.32K**

Status of Transaction: **Submitted**

Date and Time Created: **9/28/2023:9:48:59 AM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to "Download a Copy" from the Current Submittals page.

**TABLE OF CONTENTS
NOTICE OF INTENT
#34 EDGEMERE ROAD
LYNNFIELD, MASSACHUSETTS**

September 25, 2023

| <u>Identifying Number / Letter</u> | <u>Title / Date</u> |
|------------------------------------|--|
| SECTION A | WPA Form 3- Notice of Intent and NOI Wetland Fee Transmittal Form – Proposed Additions, #34 Edgemere Road, Lynnfield, MA (including USGS Locus Map, Certified List of Abutters (September 2023), Abutter Notification letter, and Affidavit of Service). |
| SECTION B | Project Narrative, Proposed Additions, #34 Edgemere Road, Lynnfield, MA; September 25, 2023. |
| SECTION C | Erosion and Sedimentation Control, #34 Edgemere Road, Lynnfield, MA; September 25, 2023. |
| PLAN | Plan to Accompany Notice of Intent, Lynnfield, Mass. Showing Additions, #34 Edgemere Road; Hayes Engineering, Inc.; Scale: 1"= 20'; Dated: September 19, 2023 (1 Sheet). |



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1611927
City/Town:LYNNFIELD

A.General Information

1. Project Location:

| | | | |
|-------------------|------------------|----------------|-----------|
| a. Street Address | 34 EDGEMERE ROAD | | |
| b. City/Town | LYNNFIELD | c. Zip Code | 01940 |
| d. Latitude | 42.52712N | e. Longitude | 71.01972W |
| f. Map/Plat # | 42 | g.Parcel/Lot # | 337 |

2. Applicant:

Individual Organization

| | | | |
|--------------------|----------------------|--------------|-----------------------|
| a. First Name | ELIZABETH AND DANIEL | b. Last Name | KENT |
| c. Organization | | | |
| d. Mailing Address | 813 SUMMER STREET | | |
| e. City/Town | LYNNFIELD | f. State | MA |
| g. Zip Code | 01940 | j. Email | danielskent@gmail.com |
| h. Phone Number | 781-771-3811 | i. Fax | |

3. Property Owner:

more than one owner

| | | | |
|--------------------|----------------------|--------------|-----------------------|
| a. First Name | THEODORE AND CLAUDIA | b. Last Name | D'AMATO |
| c. Organization | | | |
| d. Mailing Address | 6 MURPHY WAY | | |
| e. City/Town | LYNNFIELD | f. State | MA |
| g. Zip Code | 01940 | j. Email | cmdamato1@verizon.net |
| h. Phone Number | 781-334-6250 | i. Fax | |

4. Representative:

| | | | |
|--------------------|-------------------------|--------------|----------------------|
| a. First Name | PETER | b. Last Name | OGREN |
| c. Organization | HAYES ENGINEERING, INC. | | |
| d. Mailing Address | 603 SALEM STREET | | |
| e. City/Town | WAKEFIELD | f. State | MA |
| g. Zip Code | 01880 | j. Email | lvallis@hayeseng.com |
| h. Phone Number | 781-246-2800 | i. Fax | 781-246-7596 |

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

| | | | | | |
|-------------------|--------|-------------------|-------|-----------------------|-------|
| a. Total Fee Paid | 110.00 | b. State Fee Paid | 42.50 | c. City/Town Fee Paid | 67.50 |
|-------------------|--------|-------------------|-------|-----------------------|-------|

6. General Project Description:

THE APPLICANT PROPOSES CONSTRUCTION OF A GARAGE AND OTHER ADDITIONS TO THE EXISTING SINGLE-FAMILY HOUSE. WORK WILL BE LOCATED WITHIN THE 100-FOOT BUFFER ZONE AS SHOWN ON THE ACCOMPANYING PLAN AND FURTHER DESCRIBED IN THE ATTACHED DOCUMENTS.

7a. Project Type:

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Single Family Home | 2. <input type="checkbox"/> Residential Subdivision |
| 3. <input type="checkbox"/> Limited Project Driveway Crossing | 4. <input type="checkbox"/> Commercial/Industrial |
| 5. <input type="checkbox"/> Dock/Pier | 6. <input type="checkbox"/> Utilities |
| 7. <input type="checkbox"/> Coastal Engineering Structure | 8. <input type="checkbox"/> Agriculture (eg., cranberries, forestry) |
| 9. <input type="checkbox"/> Transportation | 10. <input type="checkbox"/> Other |



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

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

8. Property recorded at the Registry of Deeds for:

| | | | |
|-------------------|------------------------|-----------------|-----------------|
| a. County: | b. Certificate: | c. Book: | d. Page: |
| SOUTHERN ESSEX | | 6239 | 407 |

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

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

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

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

| Resource Area | Size of Proposed Alteration | Proposed Replacement (if any) |
|--|---|--|
| <hr/> | | |
| a. <input type="checkbox"/> Bank | 1. linear feet | 2. linear feet |
| b. <input type="checkbox"/> Bordering Vegetated Wetland | 1. square feet | 2. square feet |
| c. <input type="checkbox"/> Land under Waterbodies and Waterways | 1. Square feet | 2. square feet |
| | 3. cubic yards dredged | |
| d. <input type="checkbox"/> Bordering Land Subject to Flooding | 1. square feet | 2. square feet |
| | 3. cubic feet of flood storage lost | 4. cubic feet replaced |
| e. <input type="checkbox"/> Isolated Land Subject to Flooding | 1. square feet | |
| | 2. cubic feet of flood storage lost | 3. cubic feet replaced |
| f. <input type="checkbox"/> Riverfront Area | 1. Name of Waterway (if any) | |
| 2. Width of Riverfront Area (check one) | <input type="checkbox"/> 25 ft. - Designated Densely Developed Areas only | |
| | <input type="checkbox"/> 100 ft. - New agricultural projects only | |
| | <input type="checkbox"/> 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. |



Massachusetts Department of Environmental Protection

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Provided by MassDEP:
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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)

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

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

4.Restoration/Enhancement

Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please entered the additional amount here.

a. square feet of BVW b. square feet of Salt Marsh

5.Projects Involves Stream Crossings

Project Involves Streams Crossings



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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

Provided by MassDEP:
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City/Town:LYNNFIELD

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

a. number of new stream crossings

b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

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

a. Yes No

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

Natural Heritage and Endangered Species

Program

Division of Fisheries and Wildlife

1 Rabbit Hill Road

Westborough, MA 01581

b. Date of map:AUGUST 1, 2017

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

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

1. Percentage/acreage of property to be altered:

(a) within Wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

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

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

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

b. Photographs representative of the site

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

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

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

d. Vegetation cover type map of site

e. Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing.

a. NHESP Tracking Number

b. Date submitted to NHESP



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

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

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3. Separate MESA review completed.

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

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

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

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

b. Yes No

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

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

North Shore - Hull to New Hampshire:

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

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

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

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

a. Yes No

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

b. ACEC Name

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

a. Yes No

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

a. Yes No

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

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

1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook

Vol.2, Chapter 3)

2. A portion of the site constitutes redevelopment

3. Proprietary BMPs are included in the Stormwater Management System

b. No, Explain why the project is exempt:

1. Single Family Home

2. Emergency Road Repair



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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City/Town:LYNNFIELD

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

D. Additional Information

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

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

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

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

PLAN TO
ACCOMPANY
NOTICE OF INTENT
IN LYNNFIELD,
MASS., #34
EDGEMERE ROAD
SHOWING
PROPOSED
ADDITIONS
PROPOSED
ADDITIONS, #34
EDGEMERE ROAD,
LYNNFIELD, MA.
EROSION AND
SEDIMENTATION
CONTROL, #34
EDGEMERE RD,
LYNNFIELD, MA

HAYES
ENGINEERING, INC.

PETER J. OGREN, P.E.

September 19, 2023

1" = 20'

HAYES
ENGINEERING, INC.

September 25, 2023

HAYES
ENGINEERING, INC

September 25, 2023

- 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.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1611927
City/Town:LNNFIELD

E. Fees

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

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

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

F. Signatures and Submittal Requirements

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

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

| | |
|--|-----------|
| Elizabeth Kent | 9/28/2023 |
| 1. Signature of Applicant | 2. Date |
| 3. Signature of Property Owner(if different) | 4. Date |
| Elizabeth Wallis | 9/28/2023 |
| 5. Signature of Representative (if any) | 6. Date |

For Conservation Commission:

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

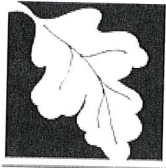
For MassDEP:

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

Other:

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

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



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1611927
City/Town:LYNNFIELD

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:

| | |
|---|--|
| 1. Municipal Check Number <u>388</u> | 3. Check date <u>9/25/23</u> |
| 2. State Check Number <u>387</u> | 4. Check date <u>9/25/23</u> |
| 4. Payer name on check: First Name <u>Daniel S. Kent + Elizabeth D. Kent</u> | 5. Payer name on check: Last Name _____ |

F. Signatures and Submittal Requirements

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

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

| | |
|---|---|
| <input checked="" type="checkbox"/> <u>Elizabeth Kent</u> 1. Signature of Applicant | <input checked="" type="checkbox"/> <u>26 sep 2023</u> 2. Date |
| <input checked="" type="checkbox"/> <u>Theodore Olmato</u> 3. Signature of Property Owner (if different) | <input checked="" type="checkbox"/> <u>9-26-23</u> 4. Date |
| <u>Elizabeth Wallis Hayes Engineering, Inc.</u> 5. Signature of Representative (if any) | <u>9/26/23</u> 6. Date |

For Conservation Commission:

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

For MassDEP:

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

Other:

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

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Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Wetland Fee Transmittal
Form

Provided by MassDEP:
 MassDEP File #:
 eDEP Transaction #:1611927
 City/Town:LYNNFIELD

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

A. Applicant Information

1. Applicant:

a. First Name ELIZABETH AND DANIEL b. Last Name KENT
 c. Organization
 d. Mailing Address 813 SUMMER STREET
 e. City/Town LYNNFIELD f. State MA g. Zip Code 01940
 h. Phone Number 7817713811 i. Fax j. Email danielskent@gmail.com

2. Property Owner:(if different)

a. First Name THEODORE AND CLAUDIA b. Last Name D'AMATO
 c. Organization
 d. Mailing Address 6 MURPHY WAY
 e. City/Town LYNNFIELD f. State MA g. Zip Code 01940
 h. Phone Number 7813346250 i. Fax j. Email cmdamato1@verizon.net

3. Project Location:

a. Street Address 34 EDGEMERE ROAD b. City/Town LYNNFIELD

Are you exempted from Fee? (YOU HAVE SELECTED 'NO')

Note: Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

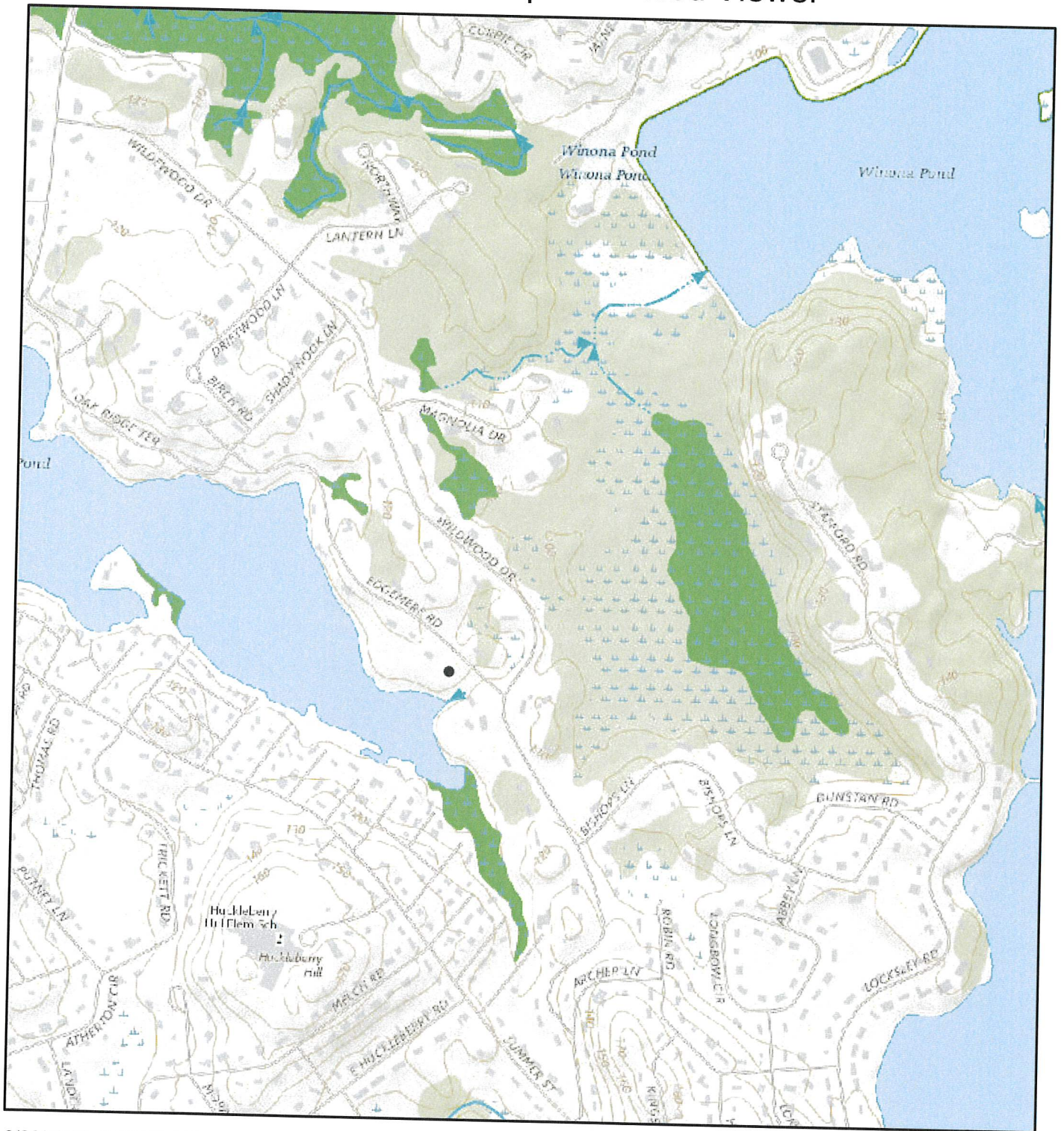
State agencies are only exempt if the fee is less than \$100

B. Fees

| Activity Type | Activity Number | Activity Fee | RF Multiplier | Sub Total |
|--|-----------------|--------------|---------------|-----------|
| A.) WORK ON SINGLE FAMILY LOT; ADDITION, POOL, ETC.; | 1 | 110.00 | | 110.00 |

| | | |
|-------------------------------|---------------------------|-------------------|
| City/Town share of filing fee | State share of filing fee | Total Project Fee |
| \$67.50 | \$42.50 | \$110.00 |

The National Map Advanced Viewer

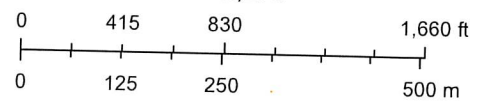


9/26/2023, 9:30:57 AM

Waterbody - Large Scale Area - Large Scale

- | | | |
|-------------|--------------------------|-----------------|
| Estuary | Area of Complex Channels | Flume |
| Ice Mass | Area to be Submerged | Foreshore |
| Lake Pond | Bay/Inlet | Hazard Zone |
| Playa | Bridge | Inundation Area |
| Reservoir | Canal/Ditch | Lock Chamber |
| Swamp Marsh | Dam/Weir | Rapids |
| | | Sea/Ocean |

1:12,276



USGS TNM - National Hydrography Dataset. Data Refreshed July, 2023.,
 USGS The National Map: National Hydrography Dataset. Data refreshed
 April, 2023., USGS The National Map: National Boundaries Dataset, 3DEP
 Elevation Program, Geographic Names Information System, National



100 feet Abutters List Report

Lynnfield, MA
September 14, 2023

Subject Property:

Parcel Number: 0042-0000-0337
CAMA Number: 0042-0000-0337
Property Address: 34 EDGEMERE RD

Mailing Address: DAMATO CLAUDIA M DAMATO
THEODORE A
6 MURPHY WAY
LYNNFIELD, MA 01940

Abutters:

| | |
|--|---|
| Parcel Number: 0035-0000-1955 CAMA Number: 0035-0000-1955 Property Address: PILLINGS POND RD | Mailing Address: LYNNFIELD TOWN OF PILLINGS POND TOWN HALL LYNNFIELD, MA 01940 |
| Parcel Number: 0036-0000-2491 CAMA Number: 0036-0000-2491 Property Address: 299 EDGEMERE RD | Mailing Address: DIAS MARLENA 299 EDGEMERE ROAD LYNNFIELD, MA 01940 |
| Parcel Number: 0042-0000-0325 CAMA Number: 0042-0000-0325 Property Address: 36 EDGEMERE RD | Mailing Address: ATSALES JAMES J T/E ATSALES KAREN A T/E 36 EDGEMERE ROAD LYNNFIELD, MA 01940 |
| Parcel Number: 0042-0000-0369 CAMA Number: 0042-0000-0369 Property Address: 32 EDGEMERE RD | Mailing Address: AYLWARD KATHRYN AYLWARD THOMAS 32 EDGEMERE RD LYNNFIELD, MA 01940 |
| Parcel Number: 0042-0000-0412 CAMA Number: 0042-0000-0412 Property Address: 297 EDGEMERE RD | Mailing Address: SHRIVASTAVA SHOVEN S J/T SHRIVASTAVA MEGHNA J/T 297 EDGEMERE ROAD LYNNFIELD, MA 01940 |
| Parcel Number: 0042-0000-0477 CAMA Number: 0042-0000-0477 Property Address: 30 EDGEMERE RD | Mailing Address: SAMPSON STEPHEN J 30 EDGEMERE ROAD LYNNFIELD, MA 01940 |
| Parcel Number: 0042-0000-1061 CAMA Number: 0042-0000-1061 Property Address: 100 REAR EDGEMERE RD | Mailing Address: LYNNFIELD TOWN OF TOWN HALL LYNNFIELD, MA 01940 |



www.cai-tech.com

9/14/2023

Data shown on this report is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this report.

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, Elizabeth Kent, hereby certify under the pains and
penalties of perjury that on 25 Sep 2023 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:

Addition construction.

A Notice of Intent filed under the Massachusetts Wetlands Protection Act has been submitted by
Elizabeth and Daniel Kent with the Lynnfield Conservation Commission on _____
for property located at #34 Edgemere Road (Assessors Map 42, Lot 337)

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.

KENT.ELIZABETH.D.1268 086087 Digitally signed by
KENT.ELIZABETH.D.1268086087
Date: 2023.09.27 12:49:59 -04'00'

Name - Signature

Date

Notice to Abutters

Massachusetts Wetlands Protection Act

Notice of Intent (NOI) and/or Abbreviated Notice of Resource Area Delineation (ANRAD) Filings

As required by M.G.L. c. 131, s. 40 ("The Massachusetts Wetlands Protection Act"), an **APPLICANT** shall provide notification to all abutters and any property owner within 100 feet of the property line of the land where the activity is proposed, including if separated from that land by a public or private street.

The following applicant has filed a Notice of Intent with the Lynnfield Conservation Commission. A public hearing will be held as stated below.

Daniel and Elizabeth Kent
NAME OF APPLICANT

813 Summer St Lynnfield, MA 01940
ADDRESS OF APPLICANT

34 Edgemere Road Lynnfield MA 01940
PROJECT ADDRESS

ASSESSOR'S MAP# 42 PARCEL# 337

PROJECT DESCRIPTION: Addition for a garage and bedroom to an existing single family home.

Tuesday Oct 17, 2023 @ 6:30 pm
DATE AND TIME OF PUBLIC HEARING, AT TOWN HALL. (Subject to change. Please check website for updated information.)

The public hearing is advertised in The Lynnfield Villager.

Copies of the Notice of Intent & plans may be examined in the Conservation Commission Office on the lower level at Town Hall on Mondays-Thursdays from 9:00 A.M. – 4:00 P.M, however, an appointment in advance is encouraged. Please call Emilie Cademartori, Director of Planning & Conservation 81) 334-9495 to make an appointment, or for any other questions.

DANIEL S KENT
ELIZABETH D KENT
813 SUMMER ST
LYNNFIELD, MA 01940-2018

387

53-13/110 MA
26539

DATE 25 Sep 23

PAY TO THE ORDER OF Commonwealth of Massachusetts **\$** 42.50

forty-two 50/100 **DOLLARS**

BANK OF AMERICA
ACH R/T 011000138

FOR Elizabeth Kent



DANIEL S KENT
ELIZABETH D KENT
813 SUMMER ST
LYNNFIELD, MA 01940-2018

389

53-13/110 MA
26539

DATE 25 Sep 23

PAY TO THE ORDER OF Town of Lynnfield **\$** 67.50

sixty-seven 50/100 **DOLLARS**

BANK OF AMERICA
ACH R/T 011000138

FOR Elizabeth Kent



DANIEL S KENT
ELIZABETH D KENT
813 SUMMER ST
LYNNFIELD, MA 01940-2018

388

53-13/110 MA
26539

DATE 25 Sep 23

PAY TO THE ORDER OF The Lynnfield Villager **\$** 50

50 ty 00/100 **DOLLARS**

BANK OF AMERICA
ACH R/T 011000138

FOR Elizabeth Kent



**PROJECT NARRATIVE
PROPOSED ADDITIONS
#34 EDGEMERE ROAD
LYNNFIELD, MASSACHUSETTS**

September 25, 2023

Existing Conditions

General Description

The site locus is a 48,544± s.f. (1.114 ac.) developed residential property located southerly off Edgemere Road and adjacent to Pillings Pond. Property features include a single-family house with garage under, paved driveway, utilities, septic system, swimming pool with fencing and shed, walkways, grassed yards, and other landscaping. Trees and other natural vegetation are present along the easterly and southerly property edges. Wetland resource areas and associated buffer zones are present on this property as described below. Site features are shown on the accompanying September 2023 Hayes Engineering, Inc. plan titled "Plan to Accompany Notice of Intent in Lynnfield, Mass. showing Proposed Additions, #34 Edgemere Road".

Resource Areas

Bordering Vegetated Wetland

A bordering vegetated wetland resource area (BVW) protected under the Massachusetts Wetlands Protection Act and its promulgated Regulations is present on the easterly side of the property, thereby placing portions of the house, driveway, pool, and yards within the associated 100-foot buffer zone. The wetlands boundary was delineated by Hayes Engineering, Inc. on August 3, 2023 and is demarcated by flags #1-23 to 6-23 as shown on the Notice of Intent plan.

Bordering Land Subject to Flooding

The southern corner of the property is within an "Zone AE Special Flood Hazard Area" (elevation 98' NAVD88) associated with Pillings Pond. The boundary of the Zone AE is shown on the site plan and the reference FEMA Flood Insurance Rate Map. Portions of the property located outside of the flagged BVW boundary and below the 98' elevation are within the bordering land subject to flooding resource area (BLSF) protected under the Massachusetts Wetlands Protection Act and its promulgated Regulations.

Proposed Conditions

The project will consist of expanding the existing single-family house with several small additions, reconstructing the house entrance, and adding an attached garage structure as described below. All areas of bare soil resulting from this project will be loamed and seeded or otherwise stabilized. Construction and demolition debris will be placed in an appropriate disposal container for transport off of the site. Machine access to the work site will be gained from the street (Edgemere Road) and routed along the driveway. All work will be located within the 100-foot buffer zone.

New Garage Addition

This activity consists of constructing a 912± s.f., 2-car garage addition onto the eastern side of the house and includes driveway reconfiguration to accommodate the new garage door locations and creation of a car parking space/turnaround, removal of two (2) trees, and all associated site work. The existing garage (292± s.f.) will be incorporated into the house as living space, and as such the owners desire a new garage (912±) for car storage. Proposed work will include siltation control barrier installation between the wetland boundary and work perimeter; pavement tree, and vegetation

removal; excavation; concrete slab installation; structure construction, electric utility installation; paving; applying loaming and seeding or other landscaping. Structure construction will occur at least 18 feet from the wetland boundary. Trees will be cut as close to the ground as possible with the intention of grinding the stumps in place. That work will occur 5-10 feet away from the wetland boundary. Proposed work will include siltation control barrier installation between the wetland boundary and work perimeter, pavement; tree, and vegetation removal; excavation; concrete slab installation; structure construction, electric utility installation; paving; applying loaming and seeding or other landscaping. These activities will be located within existing pavement, lawn areas, and other areas of man-made disturbances.

House Expansion

This activity consists of constructing small additions and reconfiguring existing house structures as part of whole house renovation (e.g. Expanding house front and west sides; reconfiguring the house entrance to include a portico and new path; enlarging the rear deck with addition of screen porch under; and reconfiguring the second floor and roof to accommodate dormers). Proposed work will include vegetation removal; excavation; concrete foundation installation; structure construction, utility relocation; applying loaming and seeding or other landscaping. With the exception of the garage, addition construction will occur at least 50 feet from the wetland boundary and will be located within areas of existing lawn, deck structures, and other areas of man-made disturbances. Note that the west side addition will be outside of the buffer zone.

Project Impacts

Buffer Zone

Buffer zone soil disturbances will occur due to addition foundation construction and paving activities described above. No adverse effect on the buffer zone habitat will result from the project since proposed construction activities are located within areas containing existing pavement, structures, lawn, and other manmade disturbances. Additionally, the design provides at least an eighteen-foot wide (18') vegetated buffer between the proposed structural work and the wetland boundary. On-site perimeter sediment control procedures will include installation of siltation control barriers (compost sock, wattle, or other similar device) along the limit of work prior to commencement of project activities to protect adjacent buffer zone areas and nearby wetland from accidental encroachment during activities, and reseeded or landscaping any bare soil areas resulting from temporary disturbances for stabilization upon completion of work. Additional siltation control procedures will be implemented as described in the attached document, "Erosion and Sedimentation Control" to protect adjacent wetland resource area and buffer zone areas from sediment and personnel encroachment.

Stormwater Management

The MassDEP Stormwater Management Policy does not apply to this project under State regulations and, as such there are no stormwater runoff treatment devices proposed. Erosion and sedimentation procedures will be implemented as part of this project as noted above.

Lynnfield Environmental Bylaw

This project is within an existing single-family house lot and as such the proposed project is not subject to the Environmental Bylaw performance standards.

**EROSION AND SEDIMENTATION CONTROL
#34 EDGEMERE ROAD
LYNNFIELD, MASSACHUSETTS**

September 25, 2023

PART I - GENERAL

QUALITY ASSURANCE

- A. The applicant and all site contractors shall be responsible for reviewing, and taking steps to meet, all requirements contained in the Order of Conditions issued by the 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 area which must be entered for construction of temporary or permanent facilities.
- D. Conservation Commission has authority to limit surface area of erodible earth material exposed by clearing and grubbing, excavation, borrow and fill operations, and 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.
- E. Temporary stockpiles of soil shall be located in an upland area (not to exceed the limit of construction as demarcated by siltation fencing shown on the plan) and be surrounded with an erosion control barrier to prevent sediments from encroaching upon adjacent resource areas.

PART 2 – EROSION CONTROL BARRIERS

Erosion barriers shall be installed along wetland boundaries as shown on the Plan prior to commencement of any site work. Straw wattle barriers specified on the plan shall be installed as detailed on the plan. Alternative types of barriers (i.e coir or Siltsoxx™ type logs) may be used with the approval of the Conservation Commission and Project Engineer and be installed per manufacturer's instructions. The approved alternative barrier must be designed and sized specifically for conditions on this site. It is recommended that the log-type barrier not be used for siltation control on moderate or steep slopes. 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.

Barrier Installation

(Log –Type Barriers –Appropriate for Sites with Level Areas and Very Gentle Slopes)

A. Filtrexx Siltsox, Coir, or Straw Wattle

1. Location

Install Filtrexx Siltsoxx, Coir, or Straw Wattle shown on plan and **as specified by manufacturer**. The applicant shall maintain extra Siltsoxx™ or wattle on site until the site is properly stabilized against erosion.

2. Installation

Siltsoxx™ or Straw wattle Installation

Install erosion controls prior to commencement of clearing and 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 Town of Wakefield.

1. Place Siltsoxx™ or Straw wattle on level contours to assist in dissipating flow into sheet flow rather than concentrated flows. Sheet flow of water should be perpendicular to the erosion barrier at impact and relatively unconcentrated.
2. When possible, place Filtrexx Siltsox or Straw Wattle at a 5' or greater distance away from the toe of the slopes in order for the water coming from the slopes to maximize space available for sediment deposit. When this 5' distance is not available due to construction restrictions, a second row of Siltsoxx™ or Straw wattle may be required.
3. In order to prevent water flowing around the ends of Siltsoxx™ or Straw wattle the ends of the Siltsoxx™ must be constructed pointing upslope so the ends are at a higher elevation. Be sure to stake the ends of the Siltsoxx™ or Straw wattle to prevent movement during high flow events.
4. When construction is completed on site, the Siltsoxx™ or Straw wattle may be cut open and the straw or filter material dispersed with a loader, rake, bulldozer or other device to be incorporated in the soil or left on top of the soil for final seeding to occur. The mesh netting material will be collected and disposed of in normal trash container or removed by the Contractor. In cases where biodegradable or photodegradable products are used, they may be left on site at the direction of the engineer.
5. Erosion Control Diameter Design:

| Slope | | Perimeter Maximum Drainage Area Based on Slope Length and Recommended Diameter Soxx | | | |
|-----------|-------------------|---|-----|-----|-----|
| | | 8" | 12" | 18" | 24" |
| 0% - 2% | Flatter Than 50:1 | 125 | 250 | 300 | 350 |
| 2% - 10% | 50:1 - 10:1 | 100 | 125 | 200 | 250 |
| 10% - 20% | 10:1 - 5:1 | 75 | 100 | 150 | 200 |
| 20% - 33% | 5:1 - 2:1 | 50* | 50 | 75 | 100 |
| >50% | >2:1 | 25* | 25 | 50 | 75 |

Replaces Type "A" Silt Fence
 Replaces Type "B" Silt Fence
 Replaces Type "C" Silt Fence
 See Individual Specs for Proper Use
 * Only to be used in conjunction with Compost Blankets

B. INSPECTION & MAINTENANCE

Straw Wattle should be regularly inspected to make sure they hold their shape and are producing adequate flow through. If ponding becomes excessive, and sediment reaches the top of the Straw wattle, additional Straw wattle should be added in the areas without disturbance of soil or collected sediment.

SILTATION CONTROL BARRIER INSPECTION, MAINTENANCE & REMOVAL

Bi-weekly inspections of the siltation control barrier and removal of accumulated silt should be performed after the initial installation of the barrier.

Inspections of the siltation control barrier shall also be performed prior to and immediately following major (>1") rainfall events.

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.

POLLUTION CONTROL MEASURES

- A. Discharge silt-laden water from excavations onto filter fabric mat and/or baled 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. Siltation control materials shall be installed and maintained at all catch basins during construction so as to prevent sediments from entering into the drainage system.

- 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 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.
- E. No disturbance or alteration of any kind allowed between the specified limit of work and the wetlands.
- F. Prevent any operation of equipment outside the designated limit of work (erosion control barrier).
- G. Prevent indiscriminate, arbitrary or capricious operation of equipment in surface waters.

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 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.
- E. No disturbance or alteration of any kind allowed between the specified limit of work and the flagged wetland boundary.
- F. Prevent any operation of equipment outside the designated limit of work (erosion control barrier).
- G. Prevent indiscriminate, arbitrary or capricious operation of equipment in surface waters.

PART 5 – EQUIPMENT STORAGE AND REFUELING

- A. All equipment refueling shall take place as far away as possible from wetlands as possible.
- B. All equipment shall be parked as far away as possible from the on-site wetland boundary or removed from the site at the end of the workday.
- C. No permanent or temporary storage of fuel and / or lubricants allowed on the site.

PART 6 – STABILIZATION TECHNIQUES

A. Protecting and Minimizing Exposed Areas

Steps shall be taken to minimize area of bare soil exposure by preserving existing vegetation and providing soil stabilization. Equipment and trucks shall be routed only over areas of proposed work 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 is necessary for controlling erosion on exposed areas, including grading, seeding and otherwise stabilizing the areas.

B. Sediment And Erosion Control / Soil Stabilization

- i) 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 are stabilized to ensure that they are in functioning condition. 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.
- ii) On sites where grading or other work will occur on moderately steep slopes (3:1 and greater) located immediately upgradient of wetlands, the contractor shall work on one portion of the slope at a time, ensuring the stability of the disturbed soil by immediately loaming and seeding the slope, or otherwise vegetating the slope as desired, and installing erosion control mats (straw or cocoanut fiber designed for the slope steepness). If work is interrupted and the slope is to be left bare or otherwise unstabilized for duration of a day or more, a series of erosion control fences oriented parallel to the slope contours shall be installed along the length of slope.

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 -139) 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.

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 seedings 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 | | | | | |
|----------------------------|-------------|--------------------|-------------------|----------|---|
| Mix | Site | Seed Mixture | Seed, Pounds per: | | Remarks |
| | | | Acre | 1,000 sf | |
| 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 | * Rates for this mix are for PLS. * 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 Bluestem 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 | |

| Permanent Seeding Mixtures | | | | | |
|----------------------------|--------|---|--------------------|----------|--|
| Mix | Site | Seed Mixture | Seed, Pounds per: | | Remarks |
| | | | Acre | 1,000 sf | |
| 8 | Moist | Creeping Bentgrass | 5 | 0.10 | * Use Cool Season planting procedures. * Pond Banks * Waterways/ditch banks |
| | | Wet | Fringed Bromegrass | 5 | |
| | | Fowl Meadowgrass | 5 | 0.10 | |
| | | Bluejoint Reedgrass or Rice Cutgrass | 2 | 0.10 | |
| | | Perennial Ryegrass | 10 | 0.25 | |
| 9 | Moist | Red Fescue | 5 | 0.10 | *Salt Tolerant * Fescue and Bentgrass provide low growing appearance, while Switchgrass provides tall cover for wildlife. |
| | Wet | Creeping Bentgrass | 2 | 0.10 | |
| | | Switchgrass | 8 | 0.20 | |
| | | Perennial Ryegrass | 10 | 0.25 | |
| 10 | Moist | Red Fescue | 5 | 0.10 | * Use Cool Season planting procedure. * Trefoil requires inoculation with nitrogen fixing bacteria. * Suitable for forest access roads, skid trails and other partial shade situations. |
| | Wet | Creeping Bentgrass | 5 | 0.10 | |
| | | Virginia Wild Rye | 8 | 0.20 | |
| | | Wood Reed Grass* | 1 | 0.10 | |
| | | Showy Tick Trefoil* | 1 | 0.10 | |
| 11 | Moist | Creeping Bentgrass | 5 | 0.10 | * Use Cool Season planting procedure. * Suitable for waterways, pond or ditch banks. * Trefoil requires inoculation with nitrogen fixing bacteria. |
| | Wet | Bluejoint Reed Grass | 1 | 0.10 | |
| | | Virginia Wild Rye | 3 | 0.10 | |
| | | Fowl Meadow Grass | 10 | 0.25 | |
| | | Showy Tick Trefoil* | 1 | 0.10 | |
| | | Red Top | 1 | 0.10 | |
| 12 | Wet | Blue Joint Reed Grass | 1 | 0.10 | * Use Cool Season planting procedure. * OK to seed in saturated soil conditions, but not in standing water. * Suitable as stabilization seeding for created wetland. * All species in this mix are native to Massachusetts. |
| | | Canada Manna Grass | 1 | 0.10 | |
| | | Rice Cut Grass | 1 | 0.10 | |
| | | Creeping Bent Grass | 5 | 0.10 | |
| | | Fowl Meadow Grass | 5 | 0.10 | |
| 13 | Dry - | American Beachgrass 18" | 18' | 18' | *Vegetative planting with dormant culms, 3-5 culms per planting centers |
| | Moist | | | centers | |
| 14 | Inter- | Smooth Cordgrass 12-18" | 12-18" | 12-18" | * Vegetative planting with transplants. centers |
| | Tidal | Saltmeadow Cordgrass | centers | centers | |

Notes:

* Species such as Tumble Lovegrass, Fringed Bromegrass, Wood Reedgrass, Bush Clover and Beach Pea, while known to be commercially available from specific seed suppliers, may not always be available from your particular seed suppliers. The local Natural Resources Conservation Service office may be able to help with a source of supply. In the event a particular species listed in a mix can not be obtained, however, it may be possible to substitute another species.

Seed mixtures by courtesy of Natural Resources Conservation Service, Amherst, MA.

(PLS) Pure Live Seed

Warm Season grass seed is sold and planted on the basis of pure live seed. An adjustment is made to the bulk rate of the seed to compensate for inert material and non-viable seed. Percent of pure live seed is calculated by multiplying the percent purity by the percent germination; $(\% \text{ purity}) \times (\% \text{ germination}) = \text{percent PLS}$.

For example, if the seeding rate calls for 10 lbs./acre PLS and the seed lot has a purity of 70% and germination of 75%, the PLS factor is:

$$(.70 \times .75) = .53$$

10 lbs. divided by .53 = approx. 19 lbs.

Therefore, 19 lbs of seed from the particular lot will need to be applied to obtain 10 lbs. of pure live seed.

Special Note

Tall Fescue, Reed Canary Grass, Crownvetch and Birdsfoot Trefoil are no longer recommended for general erosion control use in Massachusetts due to the invasive characteristics of each. If these species are used, it is recommended that the ecosystem of the site be analyzed for the effects species invasiveness may impose. The mixes listed in the above mixtures include either species native to Massachusetts or non-native species that are not perceived to be invasive, as per the Massachusetts Native Plant Advisory Committee.

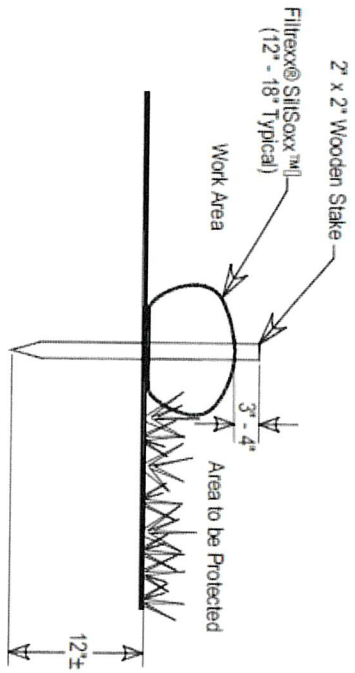
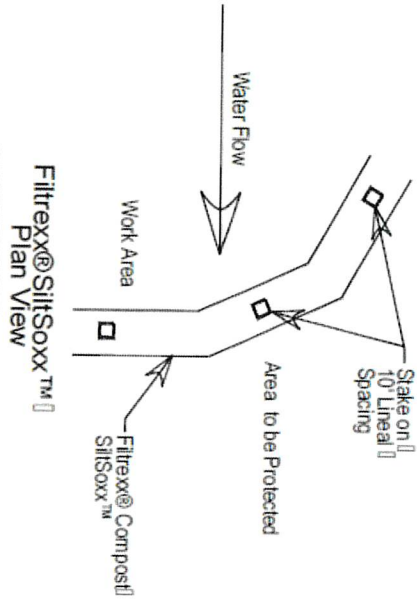
Wetlands Seed Mixtures

For newly created wetlands, a wetlands specialist should design plantings to provide the best chance of success. Do not use introduced, invasive plants like reed canarygrass (*Phalaris arundinacea*) or purple loosestrife (*Lythrum salicaria*). Using plants such as these will cause many more problems than they will solve.

The following grasses all thrive in wetland situations:

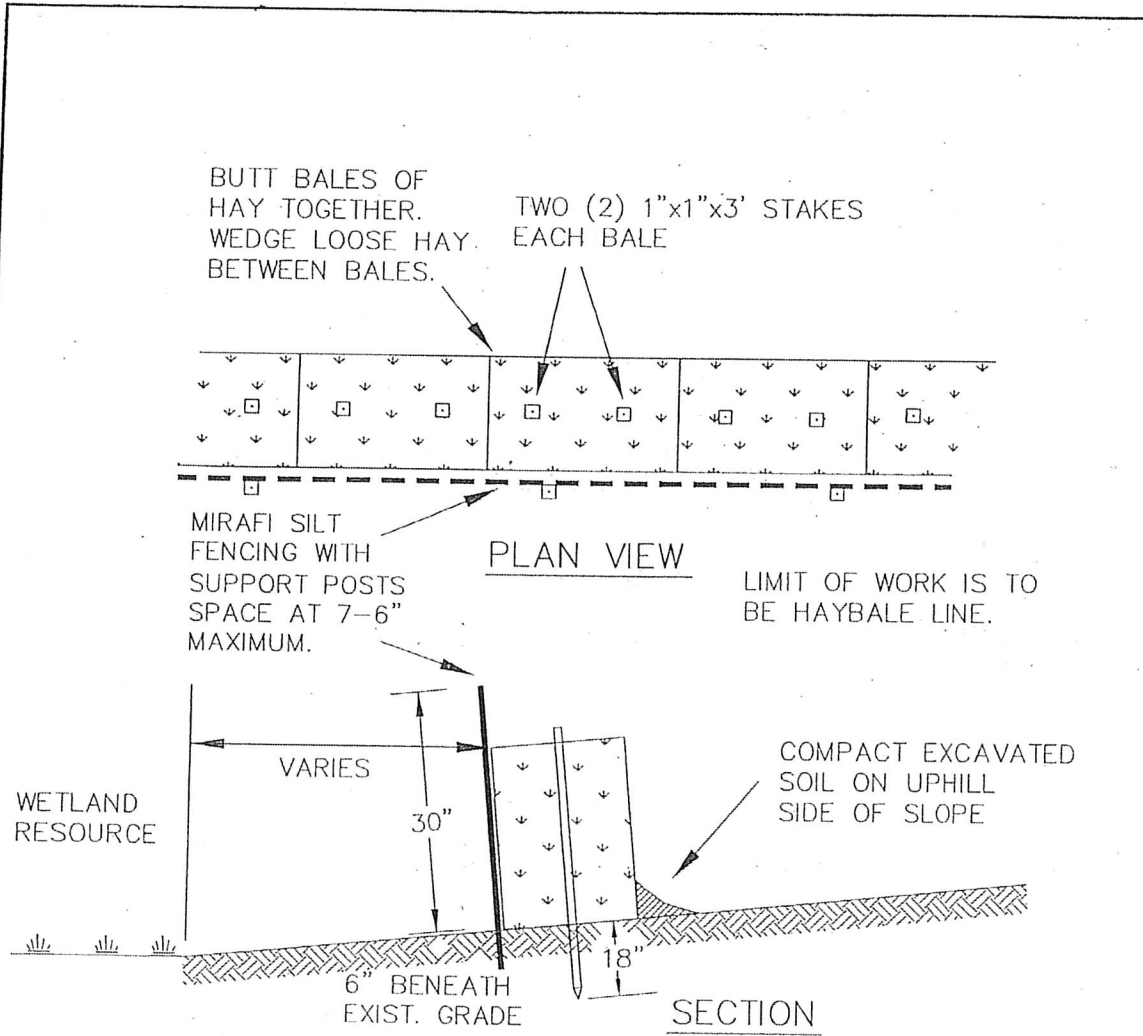
- ☞ Fresh Water Cordgrass (*Spartina pectinata*)
- ☞ Marsh/Creeping Bentgrass (*Agrostis stolonifera*, var. *Palustris*)
- ☞ Broomsedge (*Andropogon virginicus*)
- ☞ Fringed Bromegrass (*Bromus ciliatus*)
- ☞ Blue Joint Reed Grass (*Calamagrostis canadensis*)
- ☞ Fowl Meadow Grass (*Glyceria striata*)
- ☞ Riverbank Wild Rye (*Elymus riparius*)
- ☞ Rice Cutgrass (*Leersia oryzoides*)
- ☞ Stout Wood Reed (*Cinna arundinacea*)
- ☞ Canada Manna Grass (*Glyceria canadensis*)

Filtrexx® SiltSoxx™ Details



Notes:

1. All material to meet Filtrexx® specifications.
2. SiltSoxx™ compost/soil/rock/seed fill to meet application requirements.
3. SiltSoxx™ depicted is for minimum slopes. Greater slopes may require larger socks per the Engineer.
4. Compost material to be dispersed on site, as determined by Engineer.



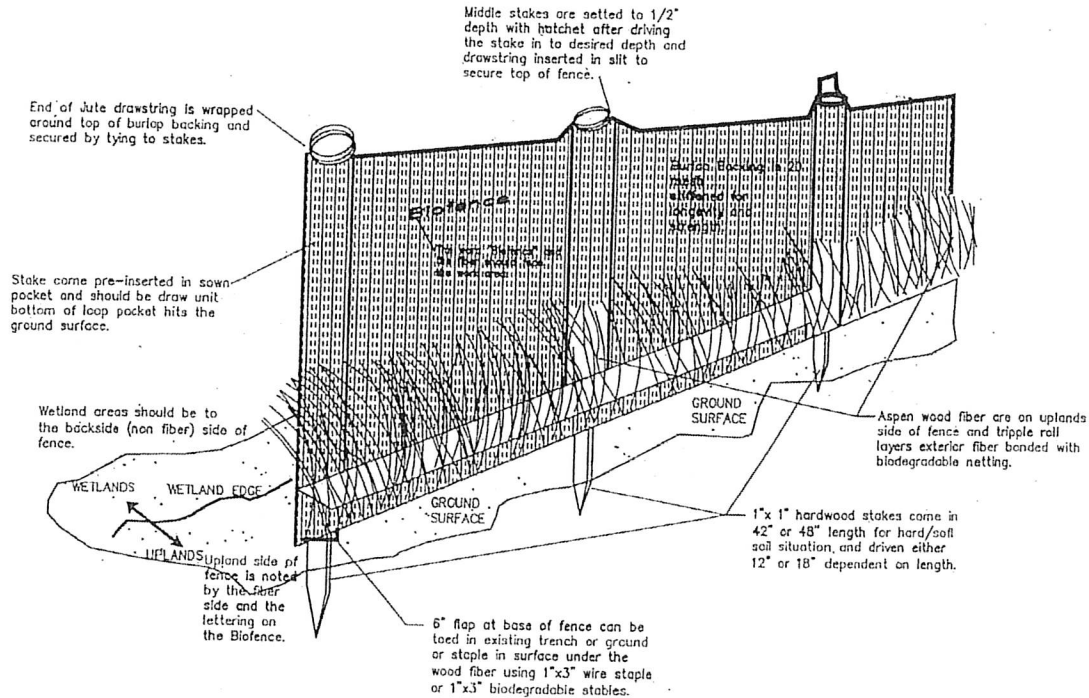
STRAW BALE/SILT FENCE (T.E.C.)
TEMPORARY EROSION CONTROL (T.E.C.)

STORMWATER

STRAW BALE/SILT FENCE

#SHEET

BIOFENCE SPECS & TYPICAL INTSTALLATION
 N.T.S



1. Biofence is shipped in 50 foot rolls with either 42" or 48" stakes
2. Unroll Biofence with point of stakes facing uplands
3. Drive stakes in until bottom of burlap loop meets ground insuring that material between stakes is stretched as taut as possible, and ensure burlap seam is spaced evenly on the stake. Stake should be driven 18" min for 48" stake, 12" for 42".
4. Tighen drawstring after all stakes driven, securing top of burlap seam to top of stake by inserting drawstring into a hatchet created slit in to of stake, and/or, stapling top of burlap to top of stakes over the drawstring creating a "no sag" appearance. From behind the fence, kick bottom of fence forward so that the flap on base is facing the uplands and can be secured.
5. Secure bottom of Biofence by inserting the 6 inch flap at bottom of fence into a created trench or secure via erosion blanket staples in rough terrain as conditions merit. Let wood fibers settle down over flap.
6. Adjacent second roll of Biofence uses end of drawstrings to tie abutting end stakes together.
7. Fence is allowed to biodegrade in place. Some maintenance of drawstring may be required after storm events. After work period, burlap may be allow to settle to base of stakes to accelerate the biodegrading period.