

**NOTICE OF PUBLIC HEARING
SUDBURY CONSERVATION COMMISSION
Monday, October 2, 2023 at 7:00 PM
Virtual Meeting**

The Sudbury Conservation Commission will hold a public hearing to review the Notice of Intent filing to replace the septic system within the 100-foot Buffer Zone, pursuant to the Wetlands Protection Act and Sudbury Wetlands Administration Bylaw, at 26 Alta Road, Sudbury, MA. Jin Ma, Applicant. The hearing will be held on Monday, October 2, 2023 at 7:00 pm, via remote participation.

Please see the Conservation Commission web page for further information.

<https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-october-2-2023/>

SUDBURY CONSERVATION COMMISSION
9/12/23

MATTHEW S. MARRO ENVIRONMENTAL CONSULTING

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www.marro-consulting.com

**A Notice of Intent
26 Alta Road
Sudbury, MA 01776**

Environmental Analysis Submitted on Behalf of Tim Crowley

Matthew S. Marro
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(MSMEC)
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Leominster, MA
01453
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September 2023

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Introduction

Summary

26 Alta Road is a single-family home sitting on a 0.92-acre lot. The project proposal is for the replacement of a septic within the 100-foot buffer zone. Analysis of the lot reveals some excavation and minimal grading to accommodate a leach field and components are within the limits of the 100-foot buffer zone. No work is proposed within the limits of a bordering vegetated wetland. There will be no trees to be removed in the buffer zone. Work will take place within a lawn area within the buffer zone for the leach field and tank. This proposal of a septic replacement within the buffer zone/riverfront necessitates the filing of a Notice of Intent.

Specifics of the lot

The lot is a 0.92-acre lot with approximately 50% of the lot being developed. The lot does contain flood plain and does not contain certified vernal pools, an area of Critical Environmental Concern nor rare species habitat. It does not contain river front. The system and components have been optimally sited to allow for compliance with Title V. The total disturbance is 830 square feet. It is noted that work will take place within the existing lawn area and will remain as lawn area.

Table of buffer zone Impacts in square feet:

Component	Buffer Zone	TOTAL
Tanks and Force Main	350	
Leach Field	480	830

Commencement of Construction Activities and Timelines:

All proposed construction is estimated to be completed through to stabilization in a four-week maximum construction schedule. This schedule of course, may be adjusted due to weather related conditions.

Proposed Construction Mitigation and Sequencing

The formal plan submitted with this Notice of Intent is entitled "3 Brookside Circle. "by Innovative Septic Design dated 8.10.2023, 1 inch = 20 feet scale.

The plan details outline a sequence of work as follows:

- Placement of erosion controls proposed in a manner to maximize protection to the resource area.
- Limited Vegetation (lawn area) removal in the area of the septic and its components. Lawn area will be replanted.
- Excavate site for placement of tank, main and leach field.
- Restore disturbed lawn areas.
- Remove erosion controls once areas are stabilized.

Mitigation Measures:

The following mitigation measures are proposed and noted on the accompanying plans:

- Minimize newly disturbed areas to limit of work area.
- Erosion control installed prior to ground disturbance.
- Minimize construction duration to within four weeks as a maximum.

Conclusion.

With the considerations of a limited and minimized work area, optimally located and proposed mitigation for the protection of the resource areas, it is the opinion of MSMEC, the proposal protects the resource areas from permanent alteration. It is noteworthy, the work is within a limited area of the lot and the remainder of the lot will remain in the same condition as pre development, a standard Order of Conditions, adopting the construction sequence and mitigation noted on the accompanying plans is, in our opinion, sufficient to protect the interests of the resource areas and we hope the commission will agree with this assertion and, respectfully on behalf of Tim Crowley, will approve a standard Order of Conditions.

Thank you for your consideration of this Notice of Intent.

Respectfully Submitted,



Matthew S. Marro,
Consulting Agent/Principal
Cc: File
Client file
Mass DEP

GIS EXHIBITS

26 Alta Road



- Q3 Flood Zones (from Paper FIRMs, where NFHL Unavailable)
 - A
 - AE
 - AE Floodway
 - AH
 - AO
 - C
 - VE
 - Area Not Included
 - 05.00
- FEMA National Flood Hazard Layer Polygons
 - 1% Annual Chance Flood Hazard
 - Regulatory Floodway
 - Area of Undetermined Flood Hazard
 - 0.2% Annual Chance Flood Hazard
 - Area with Reduced Risk Due to Levee
 - Area Not Included
- Potential Vernal Pools
 - 6
- NHESP Priority Habitats of Rare Species
 -
- NHESP Natural Communities
 -
- NHESP Estimated Habitats of Rare Wildlife
 -
- NHESP Ecoregions
 -
- NHESP Certified Vernal Pools
 - *
- Property Tax Parcels

National Flood Hazard Layer FIRMette



71°25'27"W 42°21'12"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, X, AE
		With BFE or Depth Zone A, X, AE, VE, AP
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with average depth less than one foot, or with drainage areas of less than one square mile. Zone C
		Future Conditions 1% Annual Chance Flood Hazard. Zone C
		Area with Reduced Flood Risk due to Levee. See Note. Zone C
		Area with Flood Risk due to Levee. Zone D
OTHER AREAS		Area of Minimal Road Hazard. Zone E
		Effective IOMs
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Roadwall
OTHER FEATURES		Cross Sections with 1% Annual Chance
		Weaver Surface, Boundary
		Casual Traversal
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
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 updated on 09/07/2023 at 3:35 PM and does not reflect changes or annotations subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map/imagery is void if the site or portion of the following map elements do not apply: basemap imagery, flood zone labels, legend, scale bar, map location data, coordinate identifiers, FIRM panel numbers, and FIRM effective date. Map/imagery for unmapped and unrefreshed areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 Feet 1:6,000 71°24'24"W 42°20'45"N
 Basemap Imagery Source: USGS National Map 2023



26 Alta Road



September 6, 2023

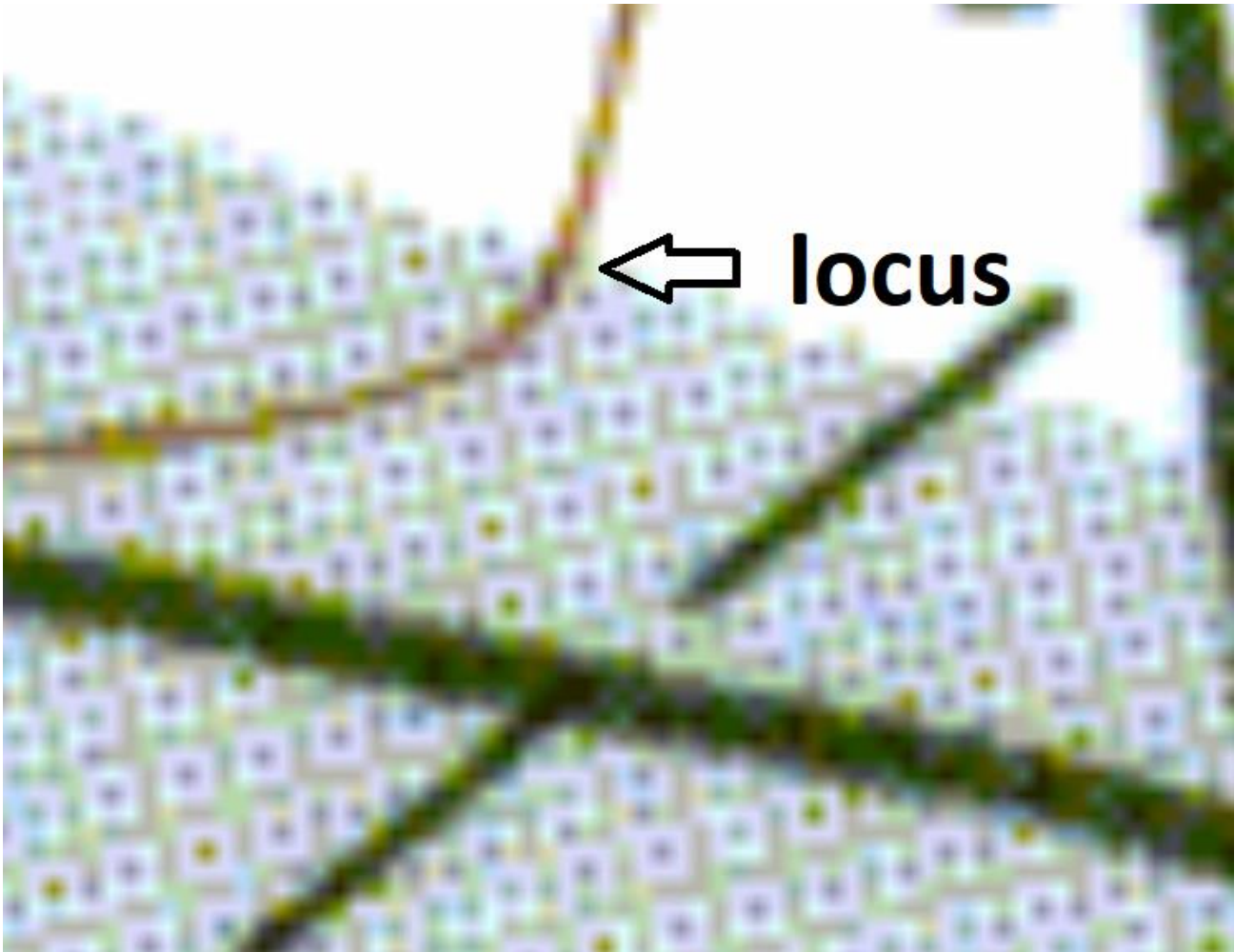
Wetlands

- | | | |
|--------------------------------|-----------------------------------|-------|
| Estuarine and Marine Deepwater | Freshwater Emergent Wetland | Lake |
| Estuarine and Marine Wetland | Freshwater Forested/Shrub Wetland | Other |
| Freshwater Pond | Riverine | |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NW mapper

USGS LOCUS



WPA FORM 3



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
Sudbury
City/Town

A. General Information (continued)

6. General Project Description:
 Refer to 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)

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	
a. County	b. Certificate # (if registered land)
82000	270
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
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B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____	2. square feet _____
	3. cubic feet of flood storage lost _____	4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____	
	2. cubic feet of flood storage lost _____	3. cubic feet replaced _____
f. <input checked="" type="checkbox"/> Riverfront Area	inland Fort Pond Brook	
	1. Name of Waterway (if available) - specify coastal or inland _____	

2. Width of Riverfront Area (check one):
 - 25 ft. - Designated Densely Developed Areas only
 - 100 ft. - New agricultural projects only
 - 200 ft. - All other projects
3. Total area of Riverfront Area on the site of the proposed project: _____ square feet
4. Proposed alteration of the Riverfront Area:
 - a. total square feet _____
 - b. square feet within 100 ft. _____
 - c. square feet between 100 ft. and 200 ft. _____
5. Has an alternatives analysis been done and is it attached to this NOI? Yes No
6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

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

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



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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. <input type="checkbox"/> 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. <input type="checkbox"/> Project Involves Stream Crossings		
	a. number of new stream crossings _____	b. number of replacement stream crossings _____



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C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. Yes No **If yes, include proof of mailing or hand delivery of NOI to:**

Sept 2023 Mass
GIS

**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*

1. Percentage/acreage of property to be altered:
 - (a) within wetland Resource Area _____ percentage/acreage
 - (b) outside Resource Area _____ percentage/acreage
2. Assessor's Map or right-of-way plan of site
2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/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.



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

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

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

D. Additional Information

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

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

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

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



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D. Additional Information (cont'd)

- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

26 Alta Road	
a. Plan Title	
Innovative Septic Design	Evan Carloni
b. Prepared By	c. Signed and Stamped by
8.10.2023	20
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:

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



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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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.

Timothy J. Marro

1. Signature of Applicant

10/10/23
2. Date

MS Marro

3. Signature of Property Owner (if different)

4. Date
10/10/23

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:

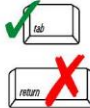
If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

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



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

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



A. Applicant Information

1. Location of Project:

26 Alta Road _____ Sudbury _____
a. Street Address b. City/Town
42.50 _____
c. Check number d. Fee amount

2. Applicant Mailing Address:

Tim _____ Crowley _____
a. First Name b. Last Name
c. Organization _____
26 Alta Road _____
d. Mailing Address
Sudbury _____ MA _____ 01776 _____
e. City/Town f. State g. Zip Code
617-850-2175 _____ tcrowley1277@gmail.com _____
h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

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

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

B. Fees

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

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

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

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

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

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

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



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

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Cat 1 Septic replacement	1	110	110
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Step 5/Total Project Fee: _____

Step 6/Fee Payments:

Total Project Fee:	110
State share of filing Fee:	a. Total Fee from Step 5 42.50
City/Town share of filing Fee:	b. 1/2 Total Fee less \$12.50 67.50
	c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

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

Department of Environmental Protection
 Box 4062
 Boston, MA 02211
- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.
- To MassDEP Regional Office** (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

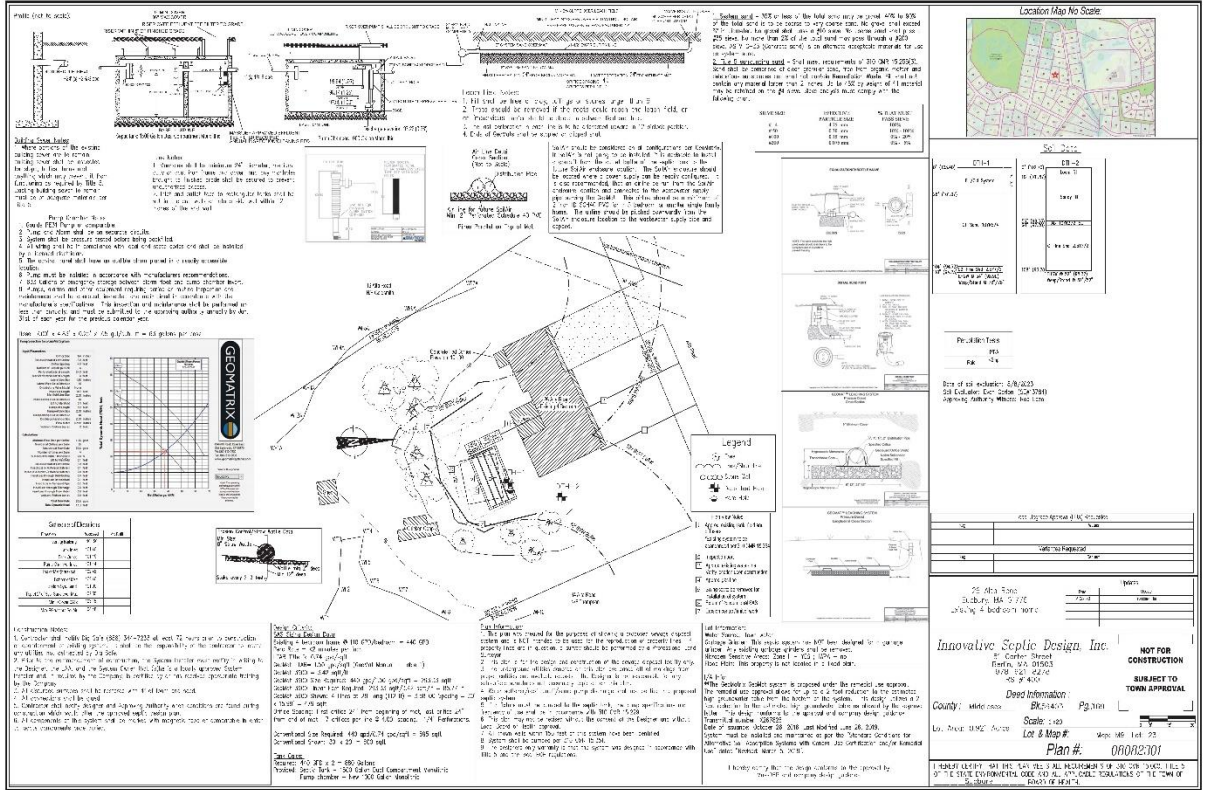
Assessor Record

M09-0230 MA JIN & LIU YANG 26 ALTA RD SUDBURY MA 01776 59403-169 26 ALTA RD

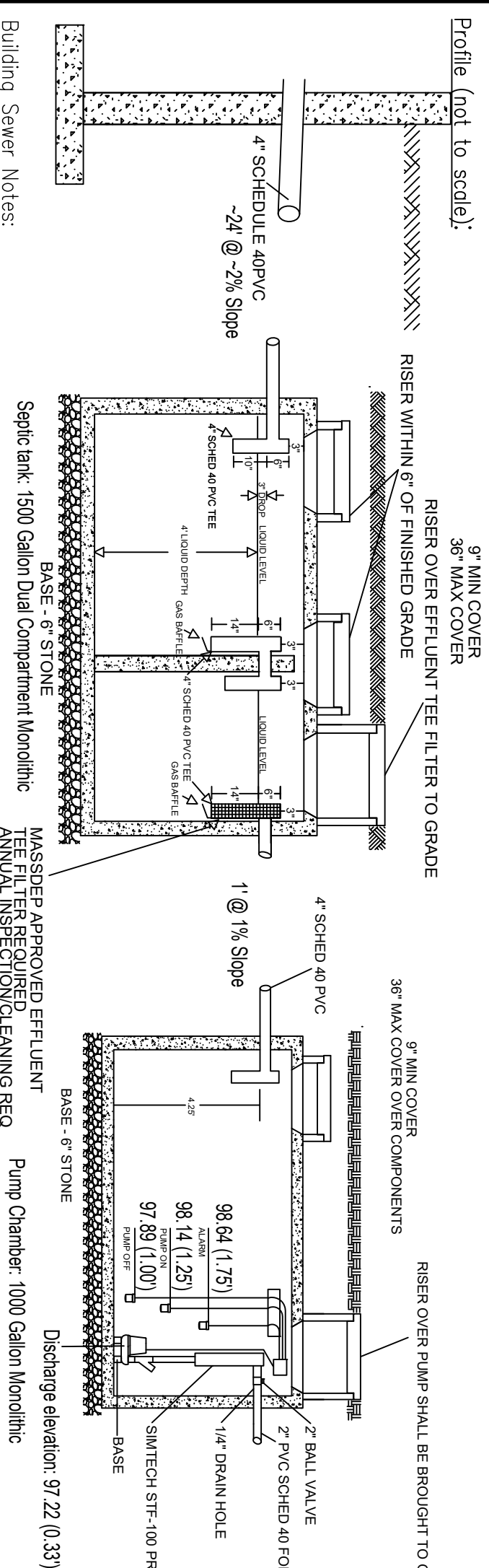
abutters_id	field	abutters_owner1	abutters_own	abutters_address	abutters_town	abutters_state	abutters_zip	abutters_bookpage	abutters_location
L09-0231		PAPA KENNETH J & FARO LAUREN		17 WRIGHT RD	SUDBURY	MA	01776	58017-592	17 WRIGHT RD
L09-0237		DESANTIS PHILIP & SANTAJEAN		7 DANIELS RD	FRAMINGHAM	MA	01701	13880-228	CLIFFORD RD
M09-0210		ASTMAN ERIK W & SARAH G		15 ALTA RD	SUDBURY	MA	01776	72618-335	15 ALTA RD
M09-0211		CAHILL JOHN & MARIE		23 ALTA RD	SUDBURY	MA	01776	30603-328	23 ALTA RD
M09-0212		VITALE FRANK P & GRACE B		33 ALTA RD	SUDBURY	MA	01776	21403-224	33 ALTA RD
M09-0229		GOLDSMITH HOWARD N & BARBARA A TRS		16 ALTA RD	SUDBURY	MA	01776	68770-444	16 ALTA RD
M09-0238		THOMPSON ANTHONY R & ANNETTE M		34 ALTA RD	SUDBURY	MA	01776	13690-674	34 ALTA RD

100' Abutters
 Cynthia W Henry
 8/10/2023

ABUTTER NOTIFICATION



Profile (not to scale):



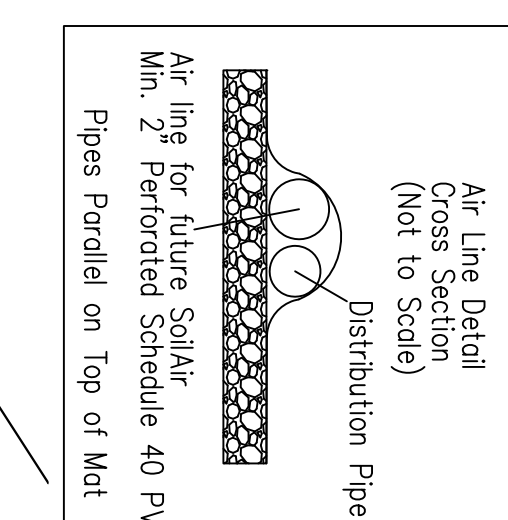
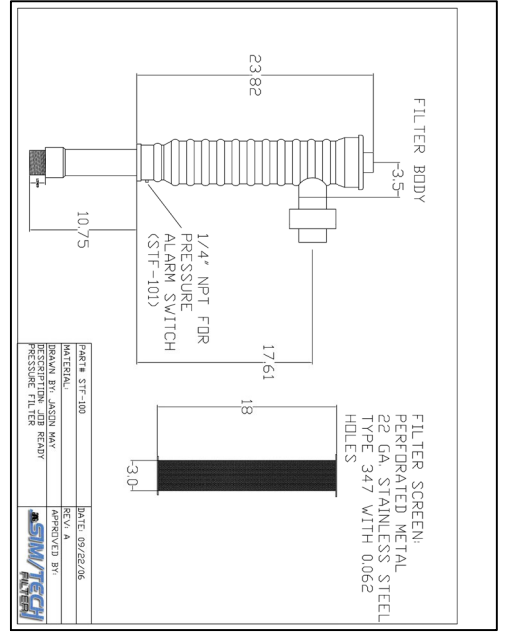
Building Sewer Notes:

- Where portions of the existing building sewer are to remain, building sewer shall be inspected for slope, bellies, turns and anything which may prevent it from functioning as required by Title 5. Existing building sewer to remain must be of adequate materials per Title 5.

Pump Chamber Notes:

- Goulds FC31 Pump or comparable.
- Pump and Alarm shall be on separate circuits.
- System shall be pressure tested before being backfilled.
- All wiring shall be in compliance with local and state codes and shall be installed by a licensed electrician.
- The control panel shall have an audible alarm placed in a readily accessible location.
- Pump must be installed in accordance with manufacturer's recommendations.
- 633 Gallons of emergency storage between alarm float and pump chamber invert.
- Pumps, alarms and other equipment requiring periodic routine inspection and maintenance shall be operated, inspected and maintained in accordance with the manufacturer's specifications. This inspection and maintenance shall be performed no less than annually, and must be submitted to the approving authority annually by Jan. 31st of each year for the previous calendar year.

Dose: 7.00' x 4.83' x 0.25' x 7.5 gal/cub. ft. = 63 gallons per dose



Solilar should be considered on all configurations per Geomatix. If Solilar is not going to be installed, it is advisable to install a conduit from the outlet bottle of the septic tank to the future Solilar enclosure location. The Solilar enclosure should be located where a power supply can be readily configured. It is also recommended, that an orifice be run from the Solilar pipe serving the Geomatix. This orifice should be a minimum of 2 inch ID SCH40 PVC for a 5 bedroom or smaller single family home. The orifice should be pitched downward from the Solilar enclosure location to the wastewater supply pipe and capped.

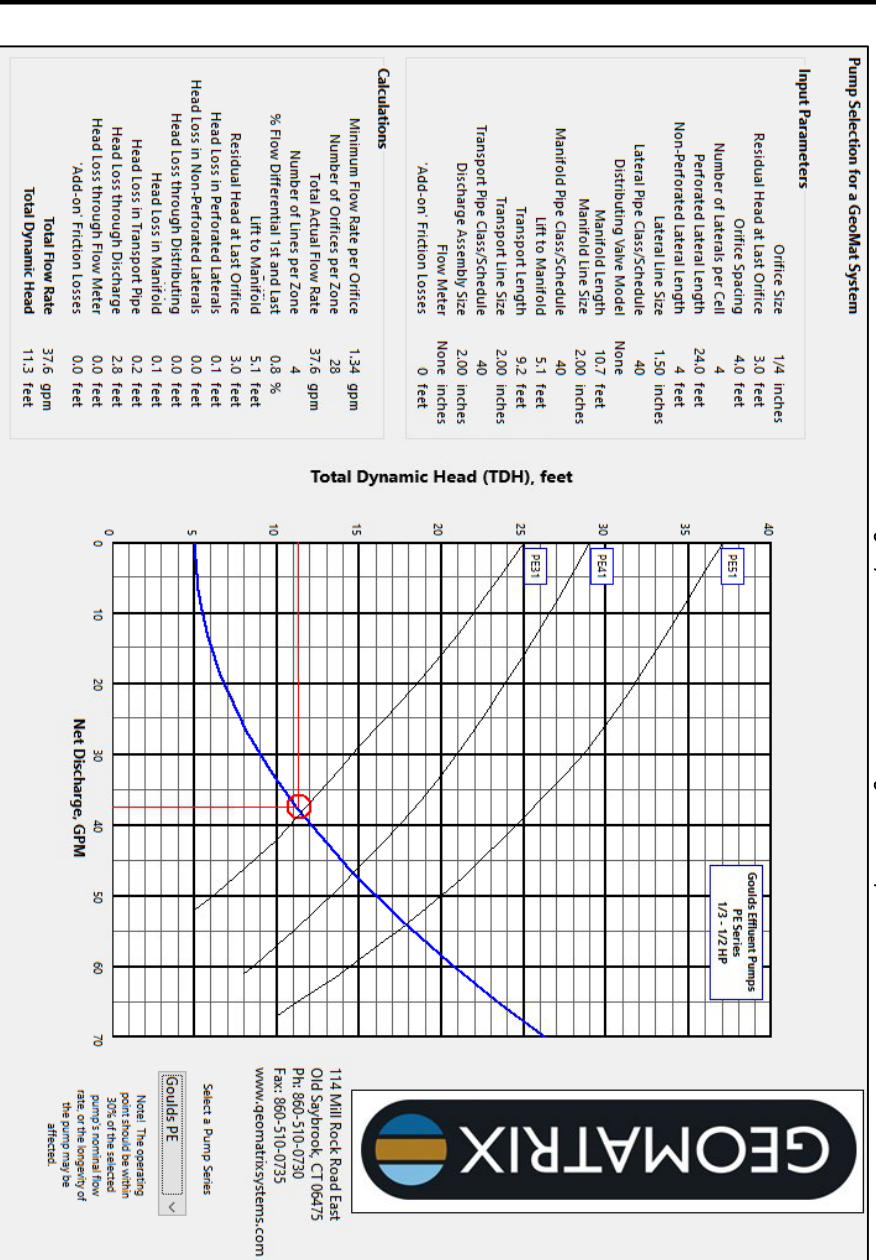
Leach Field Notes:

- Fill shall be free of clay, boulders or stones larger than 6\"/>
- Trees should be removed if the roots could reach the leach field, or on impervious barrier should be placed in between field and tree.
- The last perforation in each line is to be orientated upward in 12 o'clock position.
- Ends of Geolats shall be stapled or clipped shut.

**1. System sand - 35% or less of the total sand may be gravel. 40% to 90% of the total sand is to be coarse to very coarse sand. No gravel shall exceed 1/2\"/>

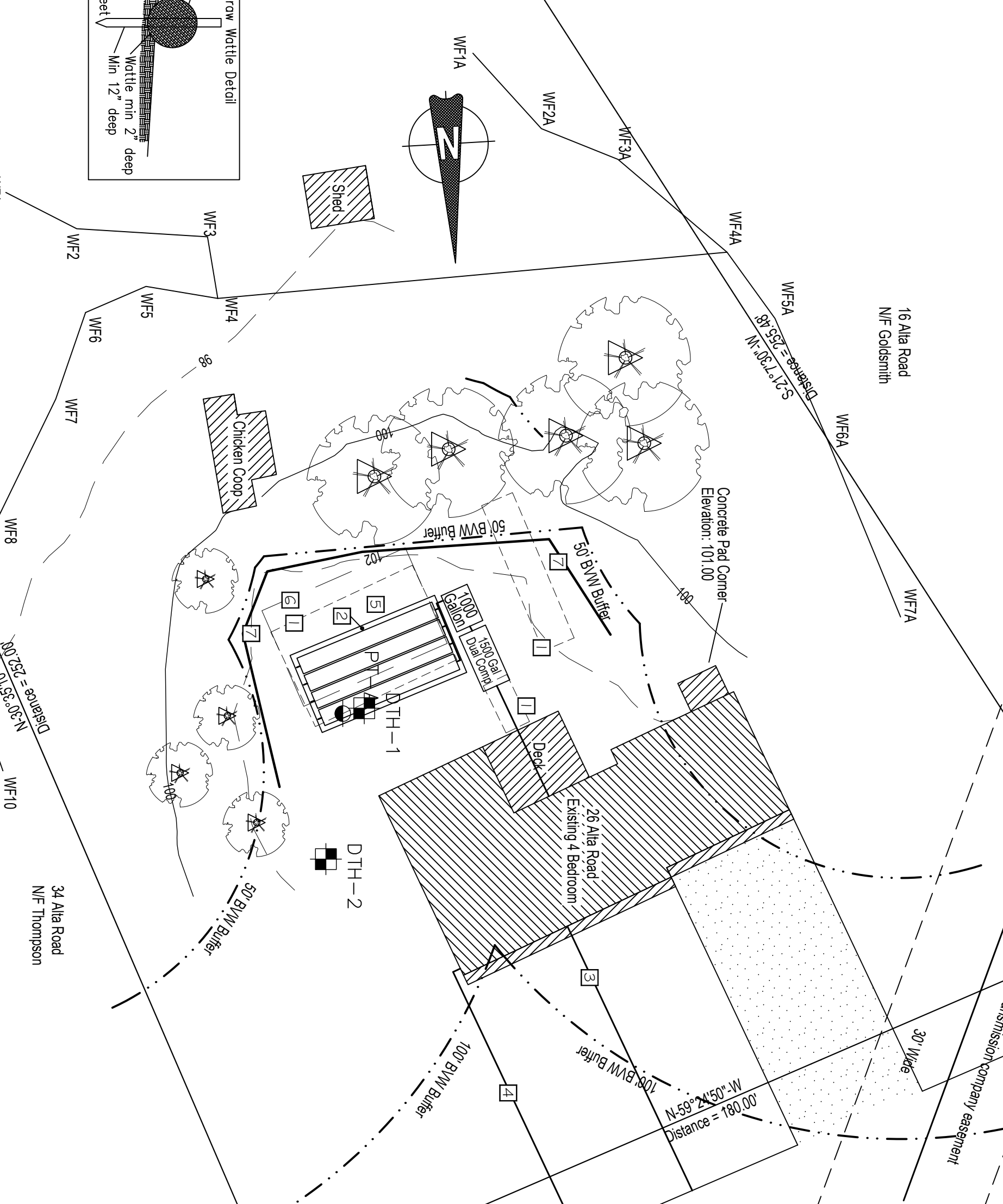
2. Title 5 surrounding sand - Shall meet requirements of 310 CMR 15.25(3). Sand shall be comprised of clean granular sand, free from organic matter and deleterious substances and shall not contain Remediation Waste. Fill shall not contain any material larger than 2 inches. Up to 45% by weight of fill material may be retained on the #4 sieve. Sieve analysis must comply with the following chart:

SIEVE SIZE	PARTICLE SIZE	% THAT MUST PASS SIEVE
# 4	4.75 mm	100%
# 10	0.75 mm	100%
# 20	0.85 mm	100%
# 40	0.425 mm	100%
# 60	0.25 mm	100%
# 100	0.15 mm	100%
# 200	0.075 mm	95% - 98%



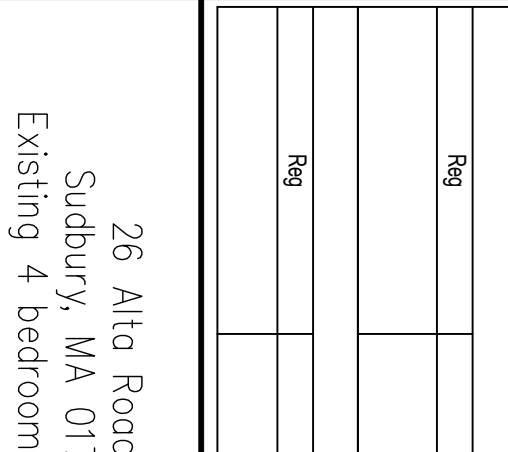
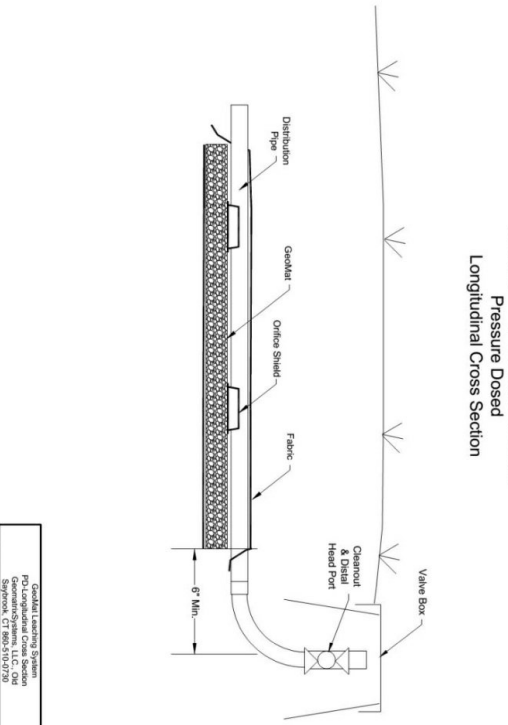
Schedule of Elevations

Elevation	Proposed	As-Built
Invert @ Building	-10.90	
Tank Inlet	101.40	
Tank Outlet	101.15	
Pump Chamber Inlet	101.14	
Top of Manhole (Inlet)	102.48	
Bottom of Manhole	102.40	
Bottom Pipe Inlet	101.90	
Top of 2\"/>		



Design Criteria:

SAS Sizing Design Date: Existing 4 bedroom home @ 110 GPD/bedroom = 440 GPD
 Existing 4 bedrooms per inch
 LIR Title 5: 0.74 gpd/sqft
 Geomat LIR= 1.50 gpd/sqft (Geomat Manual - Table 1)
 Geomat 3900 Size Required: 440 gpd/1.50 gpd/sqft = 293.33 sqft
 Geomat 3900 Linear Feet Required: 293.33 sqft/3.42 sqft/lf = 85.77 lf
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 Office Spacing: First offices 24\"/>



Plan View Notes:

- Approx. existing tank, field and leach field system to be abandoned per 310 CMR 15.35(4)
- Inspection port
- Approx. existing water-line
- Verify location upon construction
- Swing seal to be removed for installation of special SAS
- Extent of conventional SAS
- Erosion control/limit of work

Lab Information:

Water Source: Town water
 Gritting/Gritter: This septic system has NOT been designed for a gritting/gritter. Any existing gritting/gritters shall be removed.
 Nitrogen Sensitive Areas: Zone II - YES, WPA - no
 Flood Plain: This property is not located in a flood plain.

Construction Notes:

- Contractor shall notify Dig Safe (888) 344-7233 at least 72 hours prior to construction or abandonment of existing system. It shall be the responsibility of the contractor to locate any utilities not delineated by Dig Safe.
- Prior to the commencement of construction, the System Installer must certify in writing to the Designer, the LIA, and the System Owner that (s)he is a locally approved System Installer and, if required by the Company, is certified by or has received appropriate training by the Company.
- All disturbed surfaces shall be restored with 4\"/>
- All connections shall be glued.
- Contractor shall notify Designer and Approving Authority when conditions are found during construction which would alter the approved septic design plan.
- All components of this system shall be marked with magnetic tape or comparable in order to locate components once buried.

Design Criteria:

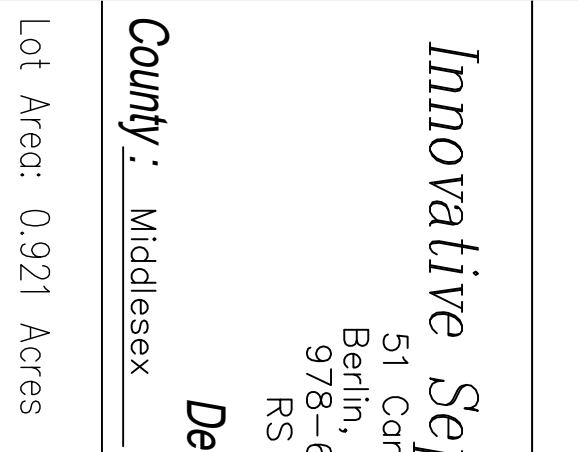
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Plan Information:

- This plan was created for the purposes of showing a proposed sewage disposal system and is NOT intended to be used for the reproduction of property lines. If property lines are in question, a survey should be performed by a Professional Land Surveyor.
- This plan is for the design and construction of the sewage disposal facility only. The underground utilities denoted on this plan are based off of markings from proper entries and available records. The Designer is not responsible for any subsurface structures not accurately depicted on this plan.
- Water softener/roof runoff/sump pump discharge shall not be tied into proposed septic system.
- If a fixture must be pumped to the septic tank, the pump specifications and frequency of use shall be in accordance with 310 CMR 15.229.
- This plan may not be revised without the consent of the Designer and without Lead Board of Health approval.
7. All known wells within 150 feet of this system have been identified.
8. System shall be installed and maintained as per the "Standard Conditions for Alternative Soil Absorption Systems with General Use Certification and/or Remedial Use" dated Revised: March 5, 2018".

**1. System sand - 35% or less of the total sand may be gravel. 40% to 90% of the total sand is to be coarse to very coarse sand. No gravel shall exceed 1/2\"/>

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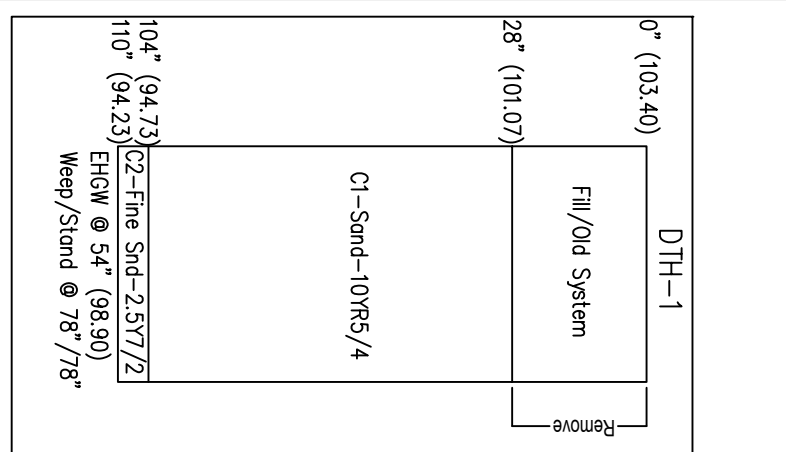


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Percolation Tests

Test	Rate	Comp.
PFA		
Comp		

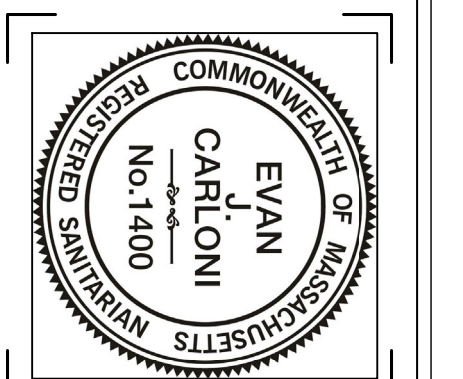
Date of soil evaluation: 8/8/2023
 Soil Evaluator: Evan Carloni (SE#3784)
 Approving Authority Witness: Rob Lazo

26 Alto Road
 Sudbury, MA 01776
 Existing 4 bedroom home

Innovative Septic Design, Inc.
 51 Corter Street
 Berlin, MA 01503
 978-621-8278
 RS #1400

Deed Information:
 BK:59403
 Pg:169

Scale: 1"=20'
 Lot & Map #: **Plan #: 08082301**



I HEREBY CERTIFY THAT THIS PLAN MEETS ALL REQUIREMENTS OF 310 CMR 15.000, TITLE 5 OF THE STATE EMPOWERMENT CODE AND ALL APPLICABLE REGULATIONS OF THE TOWN OF SUDBURY BOARD OF HEALTH.