July 16, 2019

Sudbury Conservation Commission Department of Public Works Building 275 Old Lancaster Road Sudbury, MA 01776

Re: Notice of Intent Application 604 Peakham Road, Sudbury MA

1. Introduction

Goddard Consulting, LLC (GC) is pleased to submit this Notice of Intent (NOI) on behalf of Michael Audette of Nu-Home Contractors of for the proposed single-family home and septic system to a parcel known as 604 Peakham RD, MA (Map H08, Lot 0017). This application is a joint filing under the MA Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw.

Three hard copies of the NOI application are enclosed, and the titles of all the documents enclosed are as follows:

- WPA Form 3 with Wetland Fee Transmittal Form
- Copy of Checks
- Abutter's list and Map
- Notification to Abutters, Affidavit of Service
- Wetland Border Report, Goddard Consulting LLC, 06/11/19
- Septic System Design for Applicant: Nu-Home Remodeling 604 Peakham RD, Sudbury Mass, Capstone Design Build, INC, 06/07/19

1. Existing Conditions

The northern side of the property is currently developed into a single-family home with an associated driveway. The on-site sewer waste management system consists of a non- Title V compliant and failing cess-pool. There are no wetland resources located on-site, however, the southern end of the property is located within the 100' and 50' buffer zones to an off-site BVW.

According to Mass GIS Data Layers for NHESP, the site is not located within an Estimated Habitat of Rare Wildlife / Priority Habitat of Rare Species. FEMA 100-year floodplain (Zone A or AE) is not mapped within the property.

The off-site wetland resources were delineated by Goddard Consulting on June 11, 2019. The wetland border was flagged using the criteria in the most recent edition of the MA Wetlands Protection Act (WPA) and Regulations (310 CMR 10.00 et al.) and Sudbury Wetlands Administration Bylaw. Hydric soil indicators, vegetational changes, hydrological indicators, and topography were all considered for delineation purposes. For more information refer to the attached Wetland Border Report.

3. Proposed Conditions

The applicant proposes to demolish and existing house and built a new single-family home, with an associated deck and Title V compliant septic system. The Title V compliant septic system, which is an improvement to the non-compliant cess-pool, will be built within the 100' buffer zone while only ± 30 s.f of the proposed house structure will be built within the 100' buffer zone. The proposed work will mostly take place within the current limit of lawn (see attached plan) and the footprint of the area of a former garage. No work is being proposed within BVW. An erosion control barrier will be constructed around the proposed construction to prevent runoff into the off-site BVW.

4. Resource Area Performance Standards Analysis

4.1 Under the WPA:

The proposed work will occur in Buffer Zone to BVW only and will fall under standard 310 CMR 10.02(3) of the WPA, which states the following:

"3. Activities within the buffer zone which do not meet the requirements of 310 CMR 10.02(2)(b)1. and 2. are subject to preconstruction review through the filing of a Determination of Applicability to clarify jurisdiction or a Notice of Intent under the provisions of 310 CMR 10.05(4) and 10.53(1)."

This submittal is a Notice of Intent application.

The septic system will be the closest structure to the off-site BVW system, and the septic will not be located within 50 feet of the BVW. The proposed septic system is in compliance with Title V, and therefore in compliance with the interests of the Wetland Protection Act. As stated under 310 CMR 10.03(3)'s presumption of protection standard, which outlines the following:

"A subsurface sewage disposal system that is to be constructed in compliance with the requirements of 310 CMR 15.000: The State Environmental Code, Title 5: Standard Requirements for the Siting, Construction, Inspection, Upgrade and Expansion of On-site Sewage Treatment and Disposal Systems and for the Transport and Disposal of Septage, or more stringent local board of health requirements, shall be presumed to protect the eight interests identified in M.G.L. c. 131, § 40, but only if none of the components of said system is located within... resource areas."

4.2 Under the Bylaw:

Section 7.2 of the Bylaw Regulations provides performance standards for work within the AURA.

The Character of the Work and Alternatives

The proposed project consists of the re-development of an already developed single family lot including the replacement of a non- Title V-compliant cess-pool sewage system with a Title V compliant septic system. The proposed project has been designed to minimize and limit disturbance to the already developed areas of the lot to the greatest extend feasible. Minor grading and expansion of lawn, associated with the proposed septic, will take place within the 50' buffer zone. All of the proposed structures will be built outside of the 50' buffer zone to the off-site BWV. Erosion and sediment controls will be placed at the limit of work.

Setting Disturbance Restrictions

Portions of the project will be located within the Buffer Zone/AURA. However, the majority of the proposed work will take place within the existing limit of lawn and already disturbed areas. The vast majority of the 50' buffer zone will remain undeveloped with only ± 85 sf of disturbance occurring within the 50' buffer zone. An erosion control barrier will be placed around the proposed construction to protect the BVW.

No Significant Adverse Impact of Wildlife Habitat

The project will not have an adverse impact to wildlife. The site consists of a developed single-family lot and the site is not located within an Estimated Habitat of Rare Wildlife / Priority Habitat of Rare Species. There are no potential or mapped vernal pools on site. The majority of the proposed work will take place within the already developed portion/limit of lawn of the buffer zone. The limit of lawn will be expanded in the southern end of the lot, extending ± 85 ft in to the 50' buffer zone.

5-Conclusions

Goddard Consulting believes that the proposed project meets all regulatory compliance standards under the WPA and the local Bylaw and the project will not have an adverse impact on the onsite resource areas. No work is being proposed within the BVW. Erosions and sediment controls will be placed at the limit of work. As such, GC respectfully requests that the Commission issues an Order of Conditions (OOC) approving the project.

Please feel free to contact us if you have any questions.

Very truly yours,

Scott Goddard, Principal & PWS

CC: Michael Audette, Nu-Home Contractors, 140 Hopkinton Road, Upton MA, 01568

MassDEP, NERO, 205B Lowell Street, Wilmington, MA 01887



WPA Form 3 - Notice of Intent

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

And Sudbury Wetland Protection Bylaw

Provided by MassDEP: MassDEP File Number Document Transaction Number Sudbury

City/Town

Important:

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





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

| A. General Infor | mation |
|------------------|--------|
|------------------|--------|

| 604 Peakham Road | Sudbury | 01776 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------|
| a. Street Address | b. City/Town | c. Zip Code |
| Latitude and Langitude: | 42.381588 | -71.416824 |
| Latitude and Longitude: | d. Latitude | e. Longitude |
| H-08 | 17 | |
| f. Assessors Map/Plat Number | g. Parcel /Lot Nu | mber |
| Applicant: | | |
| Michael | Audette | |
| a. First Name | b. Last Name | |
| Nu-Home Contractors | | |
| c. Organization | | |
| 140 Hopkinton Road | | |
| d. Street Address | | 04500 |
| Upton e. City/Town | MA f. State | <u>01568</u> g. Zip Code |
| | | |
| 508-560-8900 h. Phone Number i. F | michael@nu-hom j. Email Address | e.com |
| Property owner (required i | f different from applicant): | k if more than one owner |
| | ** * | |
| Maryl | Thompson | |
| Maryl a. First Name c. Organization | Thompson b. Last Name | |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury | b. Last Name | 01776 |
| a. First Name c. Organization 604 Peakham Road d. Street Address | b. Last Name | 01776 g. Zip Code |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town | b. Last Name | |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town | b. Last Name | |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number i. F | b. Last Name | |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number i. F Representative (if any): | b. Last Name MA f. State j. Email address | |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number Representative (if any): Scott | b. Last Name MA f. State j. Email address Goddard | |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number Representative (if any): Scott a. First Name Goddard Consulting, LLC c. Company | b. Last Name MA f. State j. Email address Goddard | |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number Representative (if any): Scott a. First Name Goddard Consulting, LLC c. Company 291 Main Street Suite #8 | b. Last Name MA f. State j. Email address Goddard | |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number Representative (if any): Scott a. First Name Goddard Consulting, LLC c. Company 291 Main Street Suite #8 d. Street Address | b. Last Name MA f. State j. Email address Goddard b. Last Name | g. Zip Code |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number Representative (if any): Scott a. First Name Goddard Consulting, LLC c. Company 291 Main Street Suite #8 d. Street Address Northborugh | b. Last Name MA f. State j. Email address Goddard b. Last Name | g. Zip Code |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number i. F Representative (if any): Scott a. First Name Goddard Consulting, LLC c. Company 291 Main Street Suite #8 d. Street Address Northborugh e. City/Town | b. Last Name MA f. State j. Email address Goddard b. Last Name MA f. State | g. Zip Code 01532 g. Zip Code |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number Representative (if any): Scott a. First Name Goddard Consulting, LLC c. Company 291 Main Street Suite #8 d. Street Address Northborugh e. City/Town (508) 393-3784 | b. Last Name MA f. State j. Email address Goddard b. Last Name MA f. State scott@goddardco | g. Zip Code 01532 g. Zip Code |
| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number Representative (if any): Scott a. First Name Goddard Consulting, LLC c. Company 291 Main Street Suite #8 d. Street Address Northborugh e. City/Town (508) 393-3784 | b. Last Name MA f. State j. Email address Goddard b. Last Name MA f. State | g. Zip Code 01532 g. Zip Code |
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| a. First Name c. Organization 604 Peakham Road d. Street Address Sudbury e. City/Town h. Phone Number Representative (if any): Scott a. First Name Goddard Consulting, LLC c. Company 291 Main Street Suite #8 d. Street Address Northborugh e. City/Town (508) 393-3784 h. Phone Number i. F | b. Last Name MA f. State j. Email address Goddard b. Last Name MA f. State scott@goddardco j. Email address | g. Zip Code 01532 g. Zip Code |

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WPA Form 3 – Notice of Intent

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

And Sudbury Wetland Protection Bylaw

| Provided by MassDEP: | | |
|----------------------|-----------------------------|--|
| | MassDEP File Number | |
| | Document Transaction Number | |
| | Sudbury | |
| | City/Town | |

| Α. | A. General Information (continued) | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|--|
| 6. | General Project Description: | | | |
| | Construction of a single family house and replacement of an existing cess-pool with a Title V compliant septic system on a previously developed single family house lot. | | | |
| | | | | |
| 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 Ecologic Restoration Limited Project) subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)? | | | | |
| | If yes, describe which limite | ed project applies to this project. (See 310 CMR plete 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 South | | | |
| | a. County 12548 | b. Certificate # (if registered land) 362 | | |
| | c. Book | d. Page Number | | |
| В. | Buffer Zone & Resource Area Impa | acts (temporary & permanent) | | |
| 1. | _ | | | |
| •• | Vegetated Wetland, Inland Bank, or Coastal Resource Area. | | | |
| 2. | | | | |
| | | | | |

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

Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

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| | Sudbury | | |
| _ | City/Town | | |

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

| Resource Area | | Size of Proposed Alteration | Proposed Replacement (if any) | |
|-----------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------|--------------------------------------------|--|
| a. 🗌 | Bank | 1. linear feet | 2. linear feet | |
| b. 🗌 | Bordering Vegetated Wetland | 1. square feet | 2. square feet | |
| c. 🗌 | Land Under Waterbodies and | 1. square feet | 2. square feet | |
| | Waterways | 3. cubic yards dredged | | |
| Resour | ce Area | Size of Proposed Alteration | Proposed Replacement (if any) | |
| d. 🗌 | Bordering Land Subject to Flooding | 1. square feet | 2. square feet | |
| | looleted Lond | 3. cubic feet of flood storage lost | 4. cubic feet replaced | |
| e. 🔲 | Isolated Land Subject to Flooding | 1. square feet | | |
| | | 2. cubic feet of flood storage lost | 3. cubic feet replaced | |
| f | Riverfront Area | 1. Name of Waterway (if available) - spec | cify 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: | | | | |
| 4. Proposed alteration of the Riverfront Area: | | | | |
| | | | | |
| | otal square feet | b. square feet within 100 ft. | c. square feet between 100 ft. and 200 ft. | |
| 5. l | Has an alternatives analysi | s been done and is it attached to th | is NOI? | |
| 6. \ | Was the lot where the activ | ity is proposed created prior to Aug | ust 1, 1996? | |
| ☐ Coastal Resource Areas: (See 310 CMR 10.25-10.35) | | | | |

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

3.



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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. |
| |

4.

5.

| Resource Area Si | | Size of Propose | d Alteration | Proposed Replacement (if any) |
|------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------|------------------------------------------------------------------|
| a. 🗌 | Designated Port Areas | Indicate size under Land Under the Ocean, below | | |
| b. 🗌 | Land Under the Ocean | 1. square feet | | |
| | | 2. cubic yards dredg | jed | |
| c. 🗌 | Barrier Beach | Indicate size und | der Coastal Bea | ches and/or Coastal Dunes below |
| d. 🗌 | Coastal Beaches | 1. square feet | | 2. cubic yards beach nourishment |
| e. 🗌 | Coastal Dunes | 1. square feet | | 2. cubic yards dune nourishment |
| | | Size of Propose | d Alteration | Proposed Replacement (if any) |
| f | Coastal Banks | 1. linear feet | | |
| g. 🗌 | Rocky Intertidal Shores | 1. square feet | | |
| h. 🗌 | Salt Marshes | 1. square feet | | 2. sq ft restoration, rehab., creation |
| i. 🗌 | Land Under Salt Ponds | 1. square feet | | |
| | | 2. cubic yards dredg | jed | |
| j. 🗌 | Land Containing Shellfish | 1. square feet | | |
| k. 🗌 | Fish Runs | Indicate size und | | ks, inland Bank, Land Under the er Waterbodies and Waterways, |
| | | 1. cubic yards dredg | ued | |
| I. 🗌 | Land Subject to Coastal Storm Flowage | 1. square feet | | |
| If the p | estoration/Enhancement project is for the purpose of the footage that has been enti | restoring or enhar | | resource area in addition to the ve, please enter the additional |
| | | | Salt March | |
| | | einge | b. square feet of S | pail iviai 511 |
| | oject Involves Stream Cros | siiiys | | |
| a. numb | er of new stream crossings | | b. number of repla | acement stream crossings |



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| Provid | Provided by MassDEP: | | |
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| N | MassDEP File Number | | |
| | | | |
| | Document Transaction Number | | |
| 9 | Sudbury | | |
| (| City/Town | | |

C. Other Applicable Standards and Requirements This is a proposal for an Ecological Restoration Limited Project. Skip Section C and

S

| | (310 CMR 10.11). | | | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Stı | reamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review | | | |
| ۱. | 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 <i>Massachusetts Natural Heritage Atlas</i> or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm . | | | |
| | a. Yes No If yes, include proof of mailing or hand delivery of NOI to: | | | |
| | Natural Heritage and Endangered Species Program Division of Fisheries and Wildlife 1 Rabbit Hill Road Westborough, MA 01581 | | | |
| | If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); OR complete Section C.2.f, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below). | | | |
| | c. Submit Supplemental Information for Endangered Species Review* | | | |
| | Percentage/acreage of property to be altered: | | | |
| | (a) within wetland Resource Area percentage/acreage | | | |
| | (b) outside Resource Area percentage/acreage | | | |
| | 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 | | | |
| | | | | |

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

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



3.

Massachusetts Department of Environmental ProtectionBureau of Resource Protection - Wetlands

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And Sudbury Wetland Protection Bylaw

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| City/Town | | | |

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

| (c) MESA filing fee (fee information available at http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm). Make check payable to "Commonwealth of Massachusetts - NHESP" and <i>mail to NHESP</i> at above address | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|--|--|--|
| Project | s altering 10 or more acres of land, also subr | mit: | | | | | |
| (d) | Vegetation cover type map of site | | | | | | |
| (e) | Project plans showing Priority & Estimated Habitat boundaries | | | | | | |
| (f) Ol | R Check One of the Following | | | | | | |
| 1. 🗌 | Project is exempt from MESA review. Attach applicant letter indicating which http://www.mass.gov/dfwele/dfw/nhesp. the NOI must still be sent to NHESP if the 310 CMR 10.37 and 10.59.) | /regulatory_review/mesa/ | mesa exemptions.htm, | | | | |
| 2. 🗌 | Separate MESA review ongoing. | a. NHESP Tracking # | b. Date submitted to NHESP | | | | |
| 3. 🗌 | Separate MESA review completed. Include copy of NHESP "no Take" determit with approved plan. | rmination or valid Conser | vation & Management | | | | |
| For coasta | Il projects only, is any portion of the propo fish run? | osed project located below | w the mean high water | | | | |
| a. Not | applicable – project is in inland resource | area only b. Yes | ☐ No | | | | |
| If yes, incl | ude proof of mailing, hand delivery, or ele | ctronic delivery of NOI to | either: | | | | |
| South Shor the Cape & | e - Cohasset to Rhode Island border, and Islands: | North Shore - Hull to New | Hampshire border: | | | | |
| Southeast I Attn: Enviro 836 South I New Bedfol | Marine Fisheries - Marine Fisheries Station Inmental Reviewer Rodney French Blvd. Ind. MA 02744 F.EnvReview-South@state.ma.us | Division of Marine Fisheric North Shore Office Attn: Environmental Revie 30 Emerson Avenue Gloucester, MA 01930 Email: <u>DMF.EnvReviev</u> | wer | | | | |
| | | | | | | | |

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

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2.

Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

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

And Sudbury Wetland Protection Bylaw

| ⊃rov | ided by MassDEP: |
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| | Sudbury |
| | City/Town |

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

| | 4. | Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)? |
|-------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Online Users: Include your document | | 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. |
| transaction number | | b. ACEC |
| (provided on your receipt page) with all | 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? |
| supplementary information you | | a. 🗌 Yes 🔀 No |
| submit to the Department. | 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: |
| | | 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. Subject to 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.) |

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to the boundaries of each affected resource area.

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



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And Sudbury Wetland Protection Bylaw

| Provided by MassDEP: | |
|-----------------------------|--|
| MassDEP File Number | |
| Document Transaction Number | |
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D

| D. | Add | itional Information (cont'd) | | | | | | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| | 3. A Identify the method for BVW and other resource area boundary delineations (MassDEP BVN 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 oth | ner materials submitted with this NOI. | | | | | |
| | | | Remodeling 604 Peakham Rd Sudbury Mass" | | | | | |
| | | Plan Title | | | | | | |
| | | pstone Design Build, Inc | Cinnad and Otamand h. | | | | | |
| | | Prepared By | c. Signed and Stamped by | | | | | |
| | | 7/2019 Final Revision Date | 1=20' e. Scale | | | | | |
| | u. i | IIIai Nevision Date | c. ocaic | | | | | |
| | f. A | dditional Plan or Document Title | g. Date | | | | | |
| | 5. | If there is more than one property owner, plisted on this form. | lease attach a list of these property owners not | | | | | |
| | 6. | Attach proof of mailing for Natural Heritage | and Endangered Species Program, if needed. | | | | | |
| | 7. | Attach proof of mailing for Massachusetts E | Division of Marine Fisheries, if needed. | | | | | |
| | 8. Attach NOI Wetland Fee Transmittal Form | | | | | | | |
| | 9. | Attach Stormwater Report, if needed. | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| E. | Fees | | | | | | | |
| | | | | | | | | |
| | 1. 📙 | | d for projects of any city, town, county, or district Indian tribe housing authority, municipal housing portation Authority. | | | | | |
| | Annlica | ants must submit the following information (in | addition to pages 1 and 2 of the NOI Wetland | | | | | |
| | | ansmittal Form) to confirm fee payment: | raddition to pages I and 2 of the NOT Welland | | | | | |
| | 473 | , | 07/16/19 | | | | | |
| | | ipal Check Number | 3. Check date | | | | | |
| | 475 | | 07/1619 | | | | | |
| | | Check Number | 5. Check date | | | | | |
| | Michae | el | Audette | | | | | |
| | | name on check: First Name | 7. Payor name on check: Last Name | | | | | |

wpaform3.doc • rev. 2/8/2018 Page 8 of 9



WPA Form 3 - Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number Sudbury 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).

fur her certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 124 § 40. Notice must be made by Certificate of Mailing or in writing by and delivery prepartitied procedure receipt requested) to all abutters within 100 feet of the property line of the project position.

| Michael A. Andete | 7/11/19 |
|-------------------------------------------------------------------------|----------------------------------------------|
| (20) A plicant (Picar of Attorney Fox Mary L Thomas | 2. Date |
| 3 Signature of Property Owner () | 4. Date //////////////////////////////////// |
| 5. Signature of Representative (Scott Goddard, Goddard Consulting, LLC) | 6. Dale |

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.



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



2.



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

And Sudbury Wetland Protection Bylaw

A. Applicant Information

1. Location of Project:

| 604 Peakham Road | Sudbury | | | |
|----------------------------|---------------|--|--|--|
| a. Street Address | b. City/Town | | | |
| 475 | \$237.50 | | | |
| c. Check number | d. Fee amount | | | |
| Applicant Mailing Address: | | | | |
| Michael | Audette | | | |

b. Last Name

Nu-Home Remodeling

c. Organization

a. First Name

140 Hopkinton Road d. Mailing Address

 Upton
 MA
 01568

 e. City/Town
 f. State
 g. Zip Code

(508) 560-8900 michael@nu-home.com

h. Phone Number i. Fax Number j. Email Address

3. Property Owner (if different):

| Mary | | Thompson | | | | |
|--------------------|---------------|--------------------|----------|-------------|--|--|
| a. First Name | | b. Last Name | | | | |
| c. Organization | | | | | | |
| 604 Peakham Road | | | | | | |
| d. Mailing Address | | | | | | |
| Sudbury | | | MA | 01776 | | |
| e. City/Town | | | f. State | g. Zip Code | | |
| h. Phone Number | i. Fax Number | i. Email Addre | ess | | | |

B. Fees

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

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

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

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

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

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

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

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



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

NOI Wetland Fee Transmittal Form

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

And Sudbury Wetland Protection Bylaw

| D. I CC3 (COIIIIIIUCU) | B. Fees | continue | d) |
|------------------------|---------|----------|----|
|------------------------|---------|----------|----|

| Step 1/Type of Activity | Step 2/Number of Activities | Step 3/Individual Activity Fee | Step 4/Subtotal Activity Fee |
|-------------------------|-----------------------------|--------------------------------------|--------------------------------------------------|
| | 1 | \$500 | <u>\$500</u> |
| | | | |
| | | | |
| | Step 5/To | otal Project Fee | \$500 |
| | Step 6 | /Fee Payments: | |
| | Total | Project Fee: | \$500 a. Total Fee from Step 5 |
| | State share | e of filing Fee: | \$237.50 b. 1/2 Total Fee less \$12.50 |
| | City/Town share | e of filling Fee: | \$262.50 c. 1/2 Total Fee plus \$12.50 |

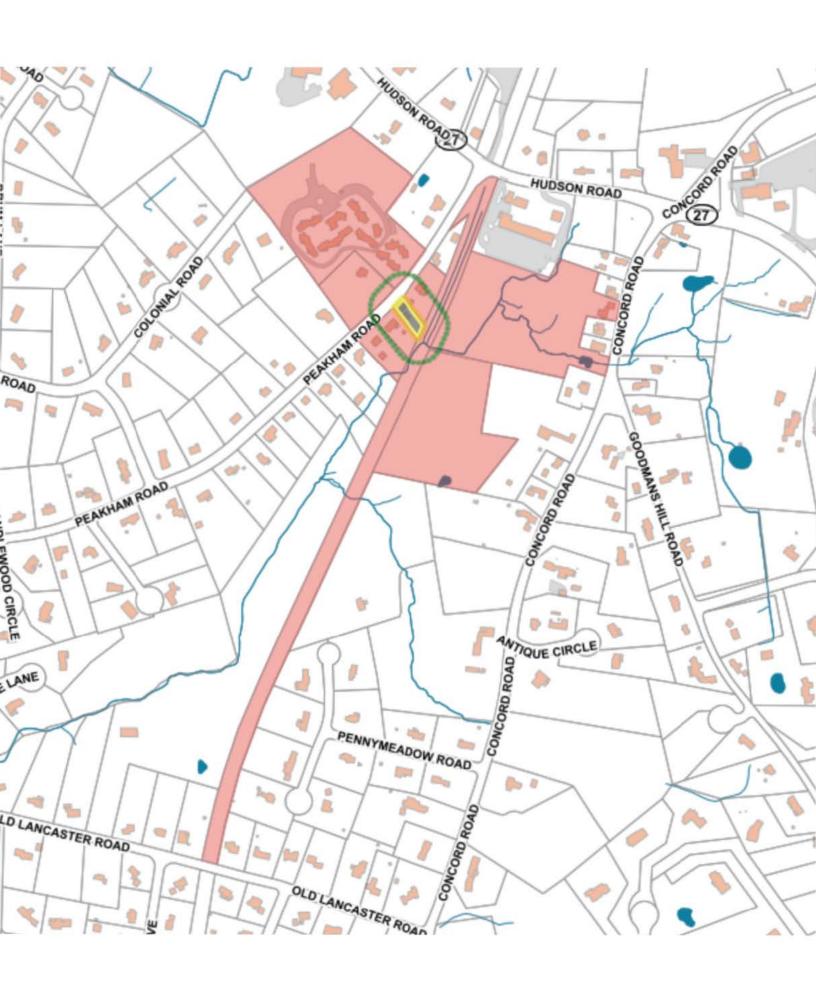
C. Submittal Requirements

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.)



| abutters_id_field | abutters_owner1 | abutters_owner2 | abutters_address | al abutters_town | abutters_sta | te abutters_zip | abutters_bookpage | abutters_location |
|-------------------|-------------------------------|-------------------------|------------------|------------------|--------------|-----------------|-------------------|-------------------|
| H08-0015 | ENSLEY MICHAEL T & LAURIE A | | 598 PEAKHAM RD | SUDBURY | MA | 01776 | 32069-415 | 598 PEAKHAM RD |
| H08-0016 | HART JON L & BRENDA K | | 602 PEAKHAM RD | SUDBURY | MA | 01776 | 71382-371 | 602 PEAKHAM RD |
| H08-0017 | THOMPSON MARY L | | 604 PEAKHAM RD | SUDBURY | МА | 01776 | 12548-362 | 604 PEAKHAM RD |
| H08-0018 | NUSINOW DAVID P & | NEUMAN NICOLE A | 610 PEAKHAM RD | SUDBURY | MA | 01776 | 72671-130 | 610 PEAKHAM RD |
| H08-0040 | STEVENSON BENJAMIN D & JANE K | | 601 PEAKHAM RD | SUDBURY | MA | 01776 | 41495-422 | 601 PEAKHAM RD |
| H08-0041 | SUDBURY HOUSING AUTHORITY | | 55 HUDSON RD | SUDBURY | MA | 01776 | 12956-456 | 55 HUDSON RD |
| H09-0007 | ANDREWS JAMES & ELIZABETH | · | 293 CONCORD RD | SUDBURY | MA | 01776 | 58928-173 | 293 CONCORD RD |
| H09-0012 | SUDBURY VALLEY TRUSTEES INC | | 18 WOLBACH RD | SUDBURY | MA | 01776 | 14337-1 | 0 CONCORD RD |
| H08-5100 | EOT | MASS BAY TRANSPORTATION | 10 PARK PLAZA | BOSTON | MA | 02116 | 13117-113 | RAILWAY |

9/16/2019

Notification to Abutters Under the Massachusetts Wetlands Protection Act and the Town of Sudbury Wetlands Administration Bylaw

In accordance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40 and the Town of Sudbury Wetlands Administration Bylaw you are hereby notified of the following:

The Applicant: Michael Audette of Nu-Home Contractors.

Address: 140 Hopkinton Road, Upton MA 01568

Has filed a Notice of Intent with the **Sudbury Conservation Commission** seeking permission to remove, fill, dredge, or alter an Area Subject to Protection under the Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw.

Applicant's Representative: Scott Goddard, Goddard Consulting LLC.

Address: 291 Main Street, Suite 8, Northborough, MA 01532 Phone: (508) 393-3784

The address of the property where the activity is proposed: 604 Peakham Road, Sudbury, MA.

Town Atlas Plat/Map: <u>H-08</u> Parcel/Lot: <u>17</u>

Project description: <u>Construction of new single family dwelling</u>, and the replacement of a cesspool with a new, Title V compliant, septic system.

Copies of the Notice of Intent may be examined at the Conservation Office, Department of Public Works Building, 275 Old Lancaster Road, Sudbury between the hours of 9:00am to 2:00pm Monday through Wednesday, 10:00am to 4:00pm on Thursdays, and 9:00am to 2:00pm on Fridays. For more information, please call the Conservation office at (978) 440-5471 or email at concom@sudbury.ma.us.

NOTE: Notice of the public hearing, including its date, time, and place, will be published at least five (5) days in advance in the **Sudbury Town Crier**.

NOTE: Notice of the public hearing, including the date, time, and place, will be posted in the Dept. of Public Works Building not less than forty-eight (48) hours in advance.

NOTE: You may also contact your local conservation commission or the nearest Department of Environmental Protection Regional Office* for the information about this application or, the Wetlands Protection Act. Sudbury is in the Northeast Region of DEP. To contact DEP, call:

*DEP Northeast Region: (978) 694-3200 205B Lowell Street, Wilmington, MA 01887

AFFIDAVIT OF SERVICE

Under the Massachusetts Wetlands Protection Act and the Town of Sudbury Wetlands Administration Bylaw

I, Valovia Costa hereby certify under the pains and penalties of perjury that on 27/17/19 I gave notification to abutters in Compliance with the second paragraph of Massachusetts General Law Chapter 131, Section 40, and the DEP Guide to Abutter Notification dating April 8, 1994 in connection with the following matter:

A Notice of Intent was filed under the Massachusetts Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw by Michael Audette of Nu- Home Contractors with the Sudbury Conservation Commission on July 16, 2019 for a property located at 604 Peakham Road, Sudbury MA.

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

(Name)

Date)

June 11, 2019

Nu-Home Contractors 140 Hopkinton Road Upton, MA 01568

Re: 604 Peakham Road, Sudbury

Dear Mr. Audette

On June 11, 2019 the wetland resources were delineated on a portion of land located at the above referenced site. The wetland border was flagged using the criteria in the most recent edition of MA Wetland Protection Act (WPA) and Regulations 310 CMR 10.00 et al and the Town of Sudbury Wetland Bylaw. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The resources on/or near the site consist of two intermittent stream channels and associated Bordering Vegetated Wetland (BVW). The channels located closest to the site were flagged with series S1-8; where flags S1 and S2 delineate the top of bank of a mapped intermittent stream channel and S3-S8 delineates top of Bank of a non-mapped intermittent stream channel located along the back rail of the adjacent railroad bed which feeds into the mapped stream. The smaller of the two channels is located closest to the site (parallel) to the back-property line. The channel is 2-3 feet wide with 1-3 inches of flowing water and has 6-inch banks vegetated with touch-me-nots. The mapped stream channel corner (flagged with S1 and S2) which continues to flow south east away from the site is 3-6 feet wide, with 3-6 inches of flowing water and 6-12-inch banks.

Wetland up-gradient of both channels (located within the old railroad bed) was flagged with series GC1-6. The wetland was dominant in touch-me-nots, poison ivy, elm, red maple buckthorn and ilex. Department of Environmental Protection BVW field data forms were documented at wetland flag GC-3 (see attached forms).

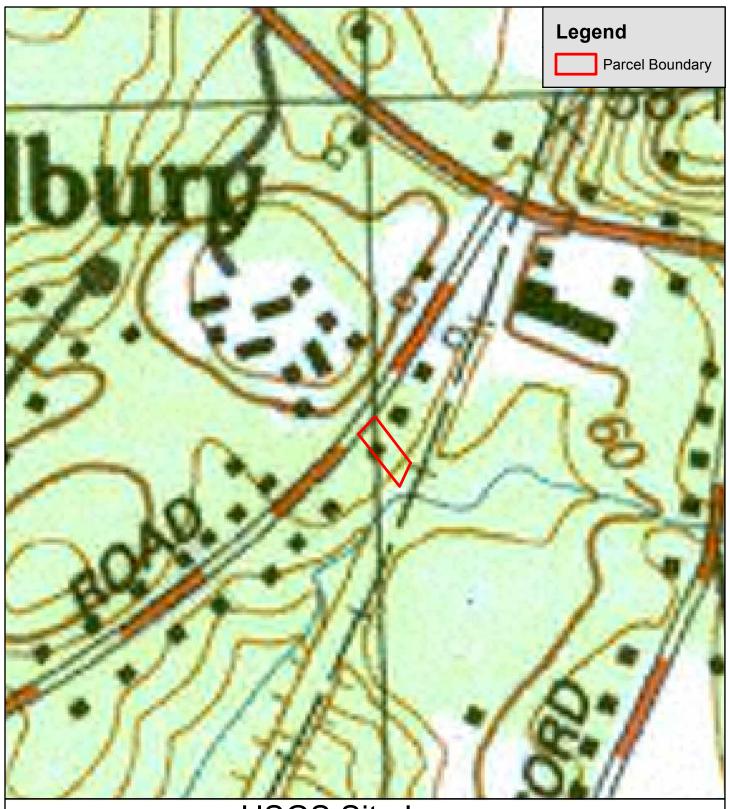
According to the Mass GIS data layers for NHESP, this site is not located within Estimated and/or Priority Habitat of Rare Wildlife, and no mapped vernal pools are located on or near the site. The site is not located in a jurisdictional FEMA Flood Zone or within 200-ft of a mapped perennial river.

The MA Wetlands Protection Act and the local bylaw takes jurisdiction over BVW and Bank resources and their jurisdictional 100-foot Buffer Zones.

Any work within the resource areas and/or 100-foot buffer zone requires a Request for Determination (RDA) or Notice of Intent (NOI) be filed with the Conservation Commission. If you need further assistance with permitting, please call us we would be happy to assist.

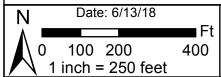
Very truly yours,

Scott Goddard, Principal & PWS



USGS Site Locus

604 Peakham Rd. - Sudbury, MA (PID: H08-0017)



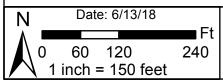
GIS Data Source: "Office of Geographic Information (MassGIS), Commonwealth of Massachusetts, MassIT"

GODDARD CONSULTING
Strategic Wetland Permitting



Orthophoto View of Site

604 Peakham Rd. - Sudbury, MA (PID: H08-0017)



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

GODDARD CONSULTING
Strategic Wetland Permitting

| Section I. Vegetation Sample Layer and Plant Species Free Layer Red Maple | Observation Plot Number: GC-3 Scientific name | Transect Num | | | ion: 11-Jun-19 |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------|----------------|----------------------------|-----------------------------|
| | Scientific name | % Cover | % Dominance | Dominant Plant (yes or no) | Wetland Indicator Category* |
| Pad Monla | | | | | |
| | Acer rubrum | 10% | 6.3% | No | FAC* |
| Black Oak | Quercus velutina | 36% | 22.8% | Yes | UPL |
| Vhite ash | Fraxinus americana | 20% | 12.7% | No | FACU |
| Norway Maple | Acer platanoides | 36% | 22.8% | Yes | UPL |
| ugar Maple | Acer saccharum | 36% | 22.8% | Yes | FACU |
| Eastern hemlock | Tsuga canadensis | 20% | 12.7% | No | OBL* |
| Sapling Layer | | | | | |
| Red Oak | Quercus rubra | 10% | 100.0% | Yes | FACU |
| <u>Chrub Layer</u> Honeysuckle Vinterberry | Lonicera sp. Ilex verticillata | 63% 10% | 86.3% 13.7% | Yes No | FACU FACW* |
| Climbing Woody Vine American bittersweet | Celastrus scandens | 36% | 100.0% | Yes | FACU |
| | | | | | |
| Ground Cover | | | | | |
| ale touch-me-not | Impatiens pallida | 10% | 25.0% | Yes | FACW* |
| American bittersweet | Celastrus scandens | 20% | 50.0% | Yes | FACU |
| Virginia-creeper | Parthenocissus quinquefolia | 10% | 25.0% | Yes | FACU |
| Remarks: $\frac{*}{0}$ An asterisk after Morphological Adaptations: | er common plant name indicates stunted growth; ** indicates extrer Description: | nely stunted growth | | | |

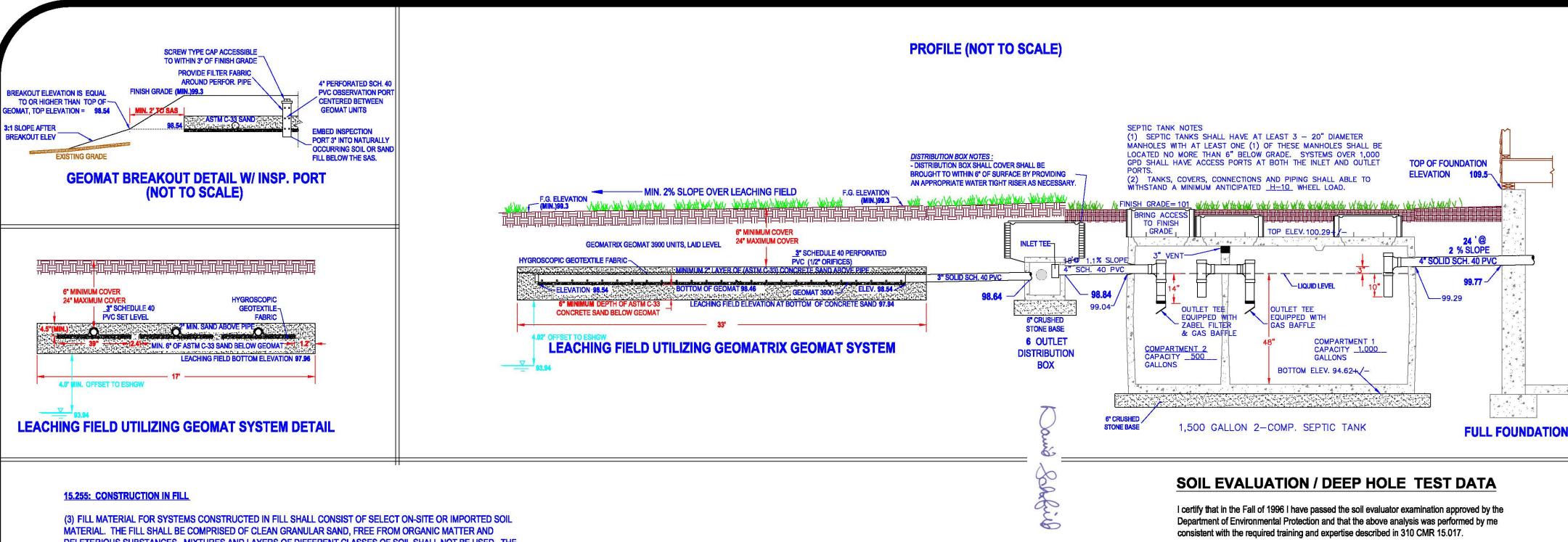
Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? no

| Section II. Indicators of Hydrology | Other Indicators of Hydrology: (check all that apply and describe) |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Hydric Soil Interpretation | Site inundated: |
| Soil Survey | Depth to free water in observation hole: |
| Is there a published soil survey for this site? | Depth to soil saturation in observation hole: |
| title/date: Interim Soil Survey of Middlesex County - 1991 (Maps map number: | 5 - 1989) Water marks: |
| soil type mapped: Deerfield Loamy sand hydric soil inclusions: | Drift Lines: |
| Are field observations consistent with soil survey? | Sediment deposits: |
| Remarks: | Drainage patterns in BVW: |
| | Oxidized rhizoshperes: |
| 2. Sail Danaistics | Water-stained leaves: |
| 2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color or Texture A 0-4" 10YR2/2 | Recorded data (stream, lake, or tidal gauge; aerial photo; other): |
| B 4-12" 10YR4/4 B2 12-20 10YR5/4 | Other: |
| | |
| | Vegetation and Hydrology Conclusion for Upgradient of GC-3 |
| | Number of wetland indicator plants |
| Remarks: | >= number of non-wetland plants X |
| | Wetland hydrology present: |
| | hydric soils present X |
| 3. Other: | other indicators of hydrology |
| | present X |
| | Sample location is in a BVW X |
| Conclusion: Is soil hydric? | Submit this form with the Request for Determination of Applicability or Notice of Intent |

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

| Method other | d other indicators of hydrology used to delineate BVW bounthan dominance test used (attach additional information) | | | | | |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------------------|--|
| Section I. Vegetation | Observation Plot Number: GC-3 | Transect Num | ber: Downgradient | Date of Delineat | Date of Delineation: 11-Jun-19 | |
| Sample Layer and Plant Species | Scientific name | % Cover | % Dominance | Dominant Plant (yes or no) | Wetland Indicator Category* | |
| Tree Layer Red Maple American elm | Acer rubrum Ulmus americana | 36% 20% | 64.3% 35.7% | Yes Yes | FAC* FACW* | |
| <u>Sapling Layer</u> Red Maple | Acer rubrum | 10% | 100.0% | Yes | FAC* | |
| <u>Shrub Layer</u> | | | | | | |
| Climbing Woody Vine | | | | | | |
| Climbing woody vine | | | | | | |
| <u>Ground Cover</u> Pale touch-me-not | Impatiens pallida | 63% | 100.0% | Yes | FACW* | |
| Remarks: * An asterisk af | ter common plant name indicates stunted growth; ** indicates extren | nely stunted growth | | | | |
| Morphological Adaptations: 0 | Description: | , 6 | | | | |
| * An asterisk after indicator status denotes wetland | s plants: plants listed in the Wetlands Protection Act (MGL c.131, s.40) | plants in the genus Sphagnum; | or plants listed as FAC, FACW, | or OBL. | | |

| Section II. Indicators of Hydrology | Other Indicators of Hydrology: (check all that apply and describe) Site inundated: |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydric Soil Interpretation 1. Soil Survey Is there a published soil survey for this site? Interim Soil Survey of Middlesex County - 1991 (Maps map number: soil type mapped: Deerfield loamy sand | Depth to free water in observation hole: Depth to soil saturation in observation hole: |
| Are field observations consistent with soil survey? Remarks: | Oxidized rhizoshperes: Water-stained leaves: |
| 2. Soil Description Horizon Depth (inches) Matrix Color Mottles Color or Texture O 0-12" 10YR2/1 C 12-20 10YR6/1 | Recorded data (stream, lake, or tidal gauge; aerial photo; other): Other: Streams |
| Remarks: | Vegetation and Hydrology Conclusion for Downgradient of GC-3 yes no Number of wetland indicator plants >= number of non-wetland plants X Wetland hydrology present: hydric soils present X |
| Conclusion: Is soil hydric? | other indicators of hydrology present X Sample location is in a BVW X Submit this form with the Request for Determination of Applicability or Notice of Intent |



DELETERIOUS SUBSTANCES. MIXTURES AND LAYERS OF DIFFERENT CLASSES OF SOIL SHALL NOT BE USED. THE FILL SHALL NOT CONTAIN ANY MATERIAL LARGER THAN TWO INCHES. A SIEVE ANALYSIS, USING A #4 SIEVE, SHALL BE PERFORMED ON A REPRESENTATIVE SAMPLE OF THE FILL. UP TO 45% BY WEIGHT OF THE FILL SAMPLE MAY BE RETAINED ON THE #4 SIEVE. SIEVE ANALYSES ALSO SHALL BE PERFORMED ON THE FRACTION OF THE FILL SAMPLE PASSING THE #4 SIEVE, SUCH ANALYSES MUST DEMONSTRATE THAT THE MATERIAL MEETS EACH OF THE

0% - 5%

PROPOSED

DRIVEWAY

BUSHON

BFE=101.5

MAP H-08 PARCEL 17 BLOCK

ID AREA 0.31 ACRES , PROPERTY L

GC-SERIES FLAGS-

(WETLAND)

S-SERIES

FLAGS-(DRAINAGE

DITCH)

-PROPOSED CRUSHED

STRIP (SEE DETAIL)

-100' OFFSET FROM WETLAND

STONE DRAINAGE DRIP

-TRADITIONAL SAS AREA (GALLEY CONFIG.,

> LEACHING FIELD UTILIZING GEOMAT 3900 UNITS (SEE

39.5'X17')

DETAIL)

50' OFFSET S-SERIES FLAGS

| FOLLOWING SP | ECIFICATIONS; | |
|--------------|---------------|-------------|
| | EFFECTIVE | % THAT MUST |
| SIEVE SIZE | PARTICLE SIZE | PASS SIEVE |
| #4 | 4.75 mm | 100% |
| #50 | 0.30 mm | 10% - 100% |
| #100 | 0.15 mm | 0% - 20 % |

0.075 mm

NOTE, ALL FEATURES SHOWN

PROPOSED 1,500

2-COMP. SEPTIC TANK

IN TAN ARE EXISTING

PROPOSED EDGE

BENCHMARK LOCATION.

NAIL IN MAPLE TREE

ELEVATION = 100.02

(ASSUMED DATUM)

OF LAWN-

100' OFFSET S-SERIES_ FLAGS

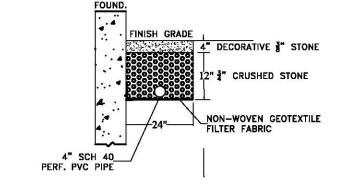
EXISTING LAWN-

50' OFFSET FROM

WETLAND

LIMIT OF

#200



DRAINAGE DRIP STRIP DETAIL <u>(not to scale)</u>



310 CMR 15.354 Abandonment of Systems

for the operation of the sanitary sewer system.

in writing by the Approving Authority.

(1) Whenever the use of a system is discontinued following connection to a municipal or private sanitary sewer or shared on-site system or following condemnation or demolition of a building served by the system, the system shall be considered abandoned and any further use of the system for any purpose shall be prohibited unless, after inspection, the Approving Authority determines the system is in compliance or can be brought into compliance with 310 CMR 15.000. (2) Continued use of a septic tank where the tank is to become an integral part of a sanitary sewer system requires the prior written approval from the local municipal authority responsible

The following procedure shall be used to abandon a system: Within 14 days prior to discontinuance of use of a system, the facility owner shall apply to the Approving Authority to abandon the existing system citing the reason(s) abandonment is necessary, and where connection to municipal or private sanitary sewer has been made, a copy of the sewer connection permit shall be submitted with the application;

Upon receipt of the Approving Authority's written approval to abandon the system, the septic tank shall be pumped of its entire contents by a licensed septage hauler; and (c) The tank shall be excavated and removed from the site, or the bottom of the tank shall be opened or ruptured after being pumped of its content so as to prevent retainage of water and the tank shall be completely filled with clean sand or other suitable material approved

310 CMR 15.246: EXCAVATION AND FLAGGING OF SOIL ABSORPTION SYSTEM

(1) EXCAVATION FOR CONSTRUCTION OF A SOIL ABSORPTION SYSTEM MAY BE BY MECHANICALS MEANS, PROVIDED CARE IS TAKEN TO ASSURE THAT THE SOIL AT THE BOTTOM OF THE EXCAVATION IS NOT COMPACTED OR SMEARED. THE BOTTOM AND SIDES OF THE EXCAVATION SHALL BE LEVEL AND SCARIFIED. VEHICULAR TRAFFIC AND PARKING OF VEHICLES OR EQUIPMENT IN OR ON THE AREA OF THE SOIL ABSORPTION SYSTEM SHOULD BE AVOIDED AT ALL TIMES PRIOR, DURING AND AFTER CONSTRUCTION OF THE SYSTEM.

(2) PRIOR TO THE INSTALLATION OF THE SOIL ABSORPTION SYSTEM AND UNTIL THE RECEIPT OF A CERTIFICATE OF COMPLIANCE FROM THE APPROVING AUTHORITY IN ACCORDANCE WITH 310 CMR 15.021, THE PERIMETER OF THE SAS SHALL BE STAKED AND FLAGGED TO IDENTIFY THE LOCATION OF THE SOIL ABSORPTION SYSTEM AND PREVENT THE USE OF SUCH AREA FOR ALL ACTIVITIES WHICH MIGHT DAMAGE THE SOIL ABSORPTION SYSTEM. SUCH FLAGGING IS NOT INTENDED TO PRECLUDE FINAL GRADING AND LANDSCAPING OF THE AREA OF THE SOIL ABSORITION SYSTEM. STOCKPILING OF MATERIALS OR EQUIPMENT WITHIN THE AREA IS PROHIBITED.



I certify that in the Fall of 1996 I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me

| Signature | L | ate o///2019 | |
|-----------------------------------|-----------------------|-----------------------------|--|
| DAVID A. SCHOFIELD (S | SE#: 3241) | <u> </u> | |
| 4 | Date: <u>5/23/201</u> | 9 | |
| Performed by: <u>JAY THRASHER</u> | | | |
| Witnessed by: BILL MURPHY | Health Age | ent, Town of <u>SUDBURY</u> | |
| Surface Elevation: 98.04 | | | |

| Depth from Surface | Soil Horizon | Soil Texture (USDA) | Soil Color (Munsell) | Soil Mottling | Other (Structure, Consistence (Loose, Friable, Firm), % Gravel, Stones, Boulders) |
|--------------------------|-----------------|------------------------|-------------------------|------------------|-----------------------------------------------------------------------------------|
| 0-12 | Ap | SANDY LOAM | 10YR3/2 | | GRANULAR, V. FRIABLE, 5% GRAVEL |
| 12-48 | В | SANDY LOAM | 7.5YR5/6 | - | MASSIVE, V. FRIABLE, 10% GRAVEL |
| 48-96 | С | LOAMY SAND | 10YR6/1 | >5%@62" | MASSIVE, LOOSE, 20% GRAVEL, LARGE BLDRS. |
| | | | | | |
| | | | | | |
| | | | | | |

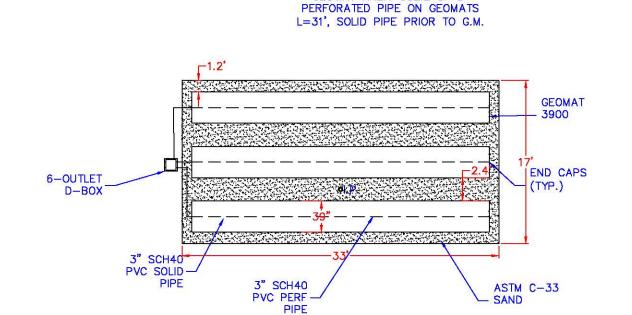
Parent Material (geologic): Depth to Bedrock: >96 Depth to Groundwater Standing Water Depth: Weeping from Pit Face: 80" Estimated Seasonal High Ground Water: 62". ELEVATION = 92.87

Deep Hole Number: <u>05-19-02</u> Date: <u>5/23/2019</u> Performed by: JAY THRASHER Witnessed by: BILL MURPHY _ Health Agent, Town of <u>SUDBURY</u>

Surface Elevation: 99.11

| Depth from Surface | Soil Horizon | Soil Texture (USDA) | Soil Color (Munsell) | Soil Mottling | Other (Structure, Consistence (Loose, Friable, Firm), % Gravel, Stones, Boulders) |
|--------------------------|-----------------|------------------------|-------------------------|------------------|--------------------------------------------------------------------------------------|
| 0-10 | Ар | SANDY LOAM | 10YR3/2 | | GRANULAR, V. FRIABLE, 5% GRAVEL |
| 10-24 | В | SANDY LOAM | 7.5YR5/6 | | MASSIVE, V. FRIABLE, 10% GRAVEL |
| 24-98 | С | LOAMY SAND | 10YR6/1 | >5%@80" | MASSIVE, LOOSE, 15% GRAVEL |
| | | | | | |
| | | | | | |
| | | | | | |

Depth to Bedrock: >96" Weeping from Pit Face: 80"



SAS SPECIFICATION SAS

FOOTPRINT AREA=561 SF

GEOMAT AREA=302.2 SF 3"

GEOMAT SAS DETAIL SCALE: 1"=10"

INLINE INVERT ELEVATIONS PROPOSED A.B. **TOP OF CONCRETE BUILDING SEWER @ FOUNDATION** (MIN.)99.77 SEPTIC TANK INLET SEPTIC TANK OUTLET 99.04 **PUMP CHAMBER INLET** PUMP CHAMBER OUTLET 98.84 **DISTRIBUTION BOX INLET** DISTRIBUTION BOX OUTLET 98.64 **SOIL ABSORPTION SYSTEM (SAS) ORIGIN** 98.54 **SOIL ABSORPTION SYSTEM (SAS) END** 98.54 **SOIL ABSORPTION (SAS) BOTTOM** PROPOSED F.G. ELEVATION OVER SAS SEE PLAN **DEEP TEST HOLE ELEVATIONS:** 98.04, 99.11 99.11 **ESHGW ELEVATION**

DESIGN CRITERIA

1. FLOW: 4 BDRMS @ 110GPD / BDRM = 440 GPD 2. SEPTIC TANK DESIGN CRITERIA: (MIN. CAPACITIES) A. COMPARTMENT 1 CAPAC. 880 GALLONS

B. COMPARTMENT 2 CAPAC. 440 GALLONS C. TOTAL CAPACITY: **1,500 GALLONS**

GEOMAT FIELD 3. SAS DESIGN CRITERIA: A. DESIGN PERCOLATION RATE: 5 MPI MIN / IN B. EFFLUENT LOADING RATE: **0.74** GPD/SF

891.9 SF C. NEC. LEACHING AREA D. BOTTOM AREA PROVIDED: **935** SF E. SIDEWALL PROVIDED: 935 SF F. TOTAL AREA PROVIDED:

G. DESIGN CAPACITY: (MA) 461.5 GPD SYSTEM IS DESIGNED FOR GARBAGE

GRINDER. THE USE OF A GARBAGE **GRINDER MAY SHORTEN THE LIFE OF THE** SEPTIC SYSTEM.

PERC HOLE TEST DATA

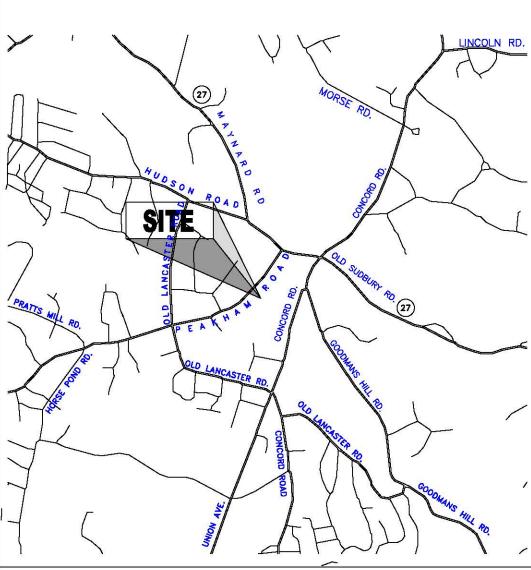
PERC TESTING

PERFORMED BY: JAY THRASHER WITNESS: BILL MURPHY , SUDBURY BOARD OF HEALTH AGENT(S)

DATE(S): 5/23/2019

4.33 MPI 0.74

LOCUS MAP



VARIANCES REQUESTED

PERCOLATION TEST DEEP HOLE TEST

-NONE REQUESTED

LEGEND EXISTING CONTOUR

1"=20'

General Notes

All utility locations shown are to be verified by contractor prior to work commencement. Contractor shall call Digsafe (811) a minimum of 7 hours, excluding weekends and holidays, prior to commencing any excavation activities on site. 2. Inspections by Design Engineer and Board of Health are as required by the Board of Health. This plan was prepared for the design of the subsurface sewage disposal system only and is base n the subsurface exploration and percolation tests

4. System was designed only to accommodate sanitary sewage associated with normal domestic usage, consisting of water carried putrescible waste and for flows indicated in the design criteria. The system must be vented through the uildings plumbing in accordance with state building

Owner shall verify effective zoning regulations ior to construction Plans show only those features that were visual apparent on the date of topographic survey, and th bsence of subsurface structures, utilities, etc. is r Contractor to determine if site conditions are

suitable for construction of proposed system at nobilization, and must promptly notify the Design Ingineer and Owner, in writing, of any plan deficiencies, unforeseen subsurface conditions, or required changes. There are no wells located within 100' of the

proposed SAS or within 50' of the proposed septic There are no wetlands located within 100' of t

proposed leaching area or within 100' of the proposed septic tank. The subject propertyIS NOT located within a Zone II of a public drinking water supply well.

Technical Notes: Building sewer shall be in accordance with state plumbing code and have a minimum of 4" of cover in landscaped areas. A minimum of 12" of cover and/or appropriate sleeving utilized in areas subject

All tanks, including septic tanks, distribution boxes, dosing chambers, and grease traps shall be either watertight through manufacturer's specification and warranty; or made watertight by the manufacturer or other individual by means and persons as approved in 310 CMR 15.221. Septic tank shall be constructed and placed in accordance with 310 CMR 15.223 through 310 CMR 15.228. Septic Tanks shall have at least three (3) 20" man holes with at least one (1) of these manholes shall be located no more than 6" below finish grade (Systems over 1,000 gpd shall have access ports at ooth the inlet and outlet tees.)

4. Distribution box ('d-box') shall be of water tight construction, installed level on a firm base, and nstalled in accordance with 310 CMR 15.232. D-box outlet lines shall be installed level for a minimum of the first 2' in order to equalize flow t the distribution lines. The minimum inside dimension of the d-box shall

be 12" with a minimum wall thickness of 2" for reinforced concrete units. Septic Tank covers and d-box to be brought to within 6" of finish grade by the use of watertight

When an effluent pump is utilized or the slope of the d-box inlet pipe exceeds 8%, an inlet tee, baffl or splash plate extending to one inch above the outlet invert elevation shall be provided. When the SAS is installed within unsuitable soil layers or above natural grade, all unsuitable bsoil shall be removed below and laterally for a minimum of 5' surrounding the SAS. Removed material shall be replaced with clean granular material in

accordance with 310 CMR 15.255(3). D. All disturbed areas shall be loamed, seeded, and maintained so as to prevent erosion. All native soil interfaces which will contact SAS shall be scarified prior to placement of SAS sand or

-MARK ALL SYSTEM COMPONENTS WITH MAGNETIC MARKING TAPE OR FUTURE LOCATION PURPOSES.
SYSTEM DESIGNED UNDER THE GEOMATRIX REMEDIAL USE PROVAL, TRANSMITTAL #: X267826, Date of Issuance: Revised July

SYSTEM ALSO SUBJECT TO DEP'S "STANDARD CONDITIONS FOR ALTERNATIVE SOIL ABSORPTION SYSTEMS..." REVISED 3/5/2018).
-INSTALLER MUST BE TRAINED BY GEOMATRIX FOR THE INSTALLATION OF THE GEOMAT SYSTEM.

| No. | Revision/Issue | Date |
|-----|----------------|------|

Firm Name and Address

Capstone Design Build, Inc. Wayland, MA 01778 (508) 358 - 5763

Project Name and Address SEPTIC SYSTEM DESIGN FOR: APPLICANT: NU-HOME REMODELING 604 PEAKHAM RD SUDBURY, MASS

19 - 1226/7/2019