

**NOTICE OF PUBLIC MEETING  
SUDBURY CONSERVATION COMMISSION  
Monday, October 30, 2023 at 7:00 PM  
Virtual Meeting**

The Sudbury Conservation Commission will hold a public meeting to review the Request for Determination of Applicability filing under the Wetlands Protection Act and the Sudbury Wetlands Administration Bylaw to within the 100-foot Buffer Zone at 11 Hunt Road, in Sudbury, MA. Doug Schow, Applicant. The meeting will be held on Monday, October 30, 2023 at 7:00 pm, via Zoom.

Copies of the application may be reviewed on the Conservation Department web page at:

<https://sudbury.ma.us/conservationcommission/meeting/conservation-commission-meeting-monday-october-30-2023/>

Please contact the Conservation Office with any questions at 978-440-5470.

SUDBURY CONSERVATION COMMISSION  
10/17/2023



## CONNORSTONE ENGINEERING, INC.

10 SOUTHWEST CUTOFF, SUITE #1  
NORTHBOROUGH, MASSACHUSETTS 01532  
T: (508) 393-9727

121 BOSTON POST ROAD  
SUDBURY, MASSACHUSETTS 01716  
T: (978) 443-9566

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

October 2, 2023

**Subject: Request for Determination of Applicability – 11 Hunt Road  
Proposed Septic System Repair**

Dear Members of the Commission:

On behalf of the applicant (Doug Schow), please find the enclosed WPA Form 1 Request for Determination of Applicability for the proposed septic system repair at 11 Hunt Road, including:

1. Copies of the RDA application package and signed WPA Form 1
2. Wetland Report by Goddard Consulting;
3. Copies of the plans "Proposed Sewage Disposal System" for 11 Hunt Road, Sudbury, MA, prepared by Connorstone Engineering, Inc. dated 09/21/2023.

**Existing Conditions:** The site is located at 11 Hunt Road, and consists of a 0.9-acre parcel currently developed with a single-family dwelling. Areas around the house include lawn/landscaped areas with a paved driveway off of Hunt Road leading to the rear / side of the house. There are wooded areas with Bordering Vegetated Wetlands (BVW) associated with the intermittent stream located along the rear property line.

The home is serviced by an on-site septic system located to the front of the house near Hunt Road. This system has been evaluated and determined to be in failure requiring replacement.

**Wetland Resource Areas:** Regulated wetland resource areas were delineated along the rear property line consisting of Bordering Vegetated Wetlands (BVW) and an intermittent stream that runs in a northeasterly direction leading to a stone culvert. The delineation was performed by Goddard Consulting in September of 2023, and a copy of the 'Wetland Border Report' is attached for reference.

**Proposed work:** The proposed project includes the replacement of the existing failed septic system. The existing system is in failure mostly likely due to the overall age of the system and must be replaced per the Board of Health and Title 5 regulations. The proposed design would locate the system in the same general location and the existing leach field, but at a higher elevation to provide greater separation to groundwater. The leach field and septic system components would be maintained outside the 100-foot buffer zone. The work within the buffer zone would include the excavation and grading adjacent to the leach field, and the poly barrier (to reduce grading). The work area is separated from the wetland by the existing driveway and the overall limit of work would be maintained 65 feet or greater from the edge of wetlands. Erosion controls including straw wattles and silt fence has been proposed along the limit of grading and upgradient edge of existing driveway.

Should you have any questions or require any additional information please contact this office at (508) 393-9727.

Sincerely,  
Connorstone Engineering, Inc.

Vito Colonna, P.E.

cc. MassDEP Central Regional Office



**Massachusetts Department of Environmental Protection  
Bureau of Water Resources - Wetlands**

**WPA Form 1- Request for Determination of Applicability** Sudbury

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

Municipality

**A. General Information**

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



1. Applicant:

<u>Doug</u>	<u>Schow</u>
First Name	Last Name
<u>11 Hunt Road</u>	
Address	
<u>Sudbury</u>	<u>Ma</u>
City/Town	State
<u>(978)460-0339</u>	<u>01776</u>
Phone Number	Zip Code
	<u>dougschow100@gmail.com</u>
	Email Address

2. Property Owner (if different from Applicant):

<u>Daniel &amp; Catherine</u>	<u>Hession</u>
First Name	Last Name
<u>11 Hunt Road</u>	
Address	
<u>Sudbury</u>	<u>Ma</u>
City/Town	State
	<u>01776</u>
	Zip Code
<u></u>	<u></u>
Phone Number	Email Address (if known)

3. Representative (if any)

<u>Vito</u>	<u>Colonna</u>
First Name	Last Name
<u>Connorstone Engineering Inc.</u>	
Company Name	
<u>10 Southwest Cutoff, Suite #7</u>	
Address	
<u>Northborough</u>	<u>Ma</u>
City/Town	State
<u>(508)393-9727</u>	<u>01532</u>
Phone Number	Zip Code
	<u>vc@csei.net</u>
	Email Address (if known)

**B. Project Description**

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

<u>11 Hunt Road</u>	<u>Sudbury</u>
Street Address	City/Town
<u>42.40097</u>	<u>-71.40905</u>
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)	Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)
<u>Map E 09</u>	<u>Parcel 128</u>
Assessors' Map Number	Assessors' Lot/Parcel Number

b. Area Description (use additional paper, if necessary):

0.9 acre single family house lot with Bordering Vegetated Wetland and Intermittent Stream to the rear of the site.

c. Plan and/or Map Reference(s): (use additional paper if necessary)

<u>"Proposed Sewage Disposal System" of 11 Hunt Road in Sudbury, Ma</u>	<u>09/21/23</u>
Title	Date
<u></u>	<u></u>
Title	Date

[How to find Latitude and Longitude](#)

[and how to convert to decimal degrees](#)



**B. Project Description (cont.)**

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

The proposed project includes the replacement of the existing failed septic system. The existing system is in failure mostly likely due to the overall age of the system and must be replaced per the Board of Health and Title 5 regulations. The proposed design would locate the system in the same general location and the existing leach field, but at a higher elevation to provide greater separation to groundwater. The leach field and septic system components would be maintained outside the 100-foot buffer zone. The work within the buffer zone would include the excavation and grading adjacent to the leach field, and the poly barrier (to reduce grading). The work area is separated from the wetland by the existing driveway and the overall limit of work would be maintained 65 feet or greater from the edge of wetlands. Erosion controls including straw wattles and silt fence has been proposed along the limit of grading and upgradient edge of existing driveway.

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)



Massachusetts Department of Environmental Protection  
Bureau of Water Resources - Wetlands

**WPA Form 1- Request for Determination of Applicability** Sudbury  
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Municipality

**C. Determinations**

1. I request the Sudbury Conservation Commission make the following determination(s). Check any that apply:

- a. whether the area depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the boundaries of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
- c. whether the Activities depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
- d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any municipal wetlands' ordinance or bylaw of:

Sudbury

Name of Municipality

- e. whether the following scope of alternatives is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

**D. Signatures and Submittal Requirements**

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

[Signature]  
Signature of Applicant

10/11/23  
Date

[Signature]  
Signature of Representative (if any)

10/11/23  
Date

## **Wetland Border Report**

Site Locus: 11 Hunt Road, Sudbury MA

Prepared for: Connorstone Engineering, Inc.

Prepared by: Goddard Consulting LLC, 291 Main St, Suite 8, Northborough MA 01532

Date: 9/18/2023

### **INTRODUCTION**

On September 12, 2023, wetland resources were delineated for Connorstone Engineering, Inc. on land located on or near 11 Hunt Road, Sudbury MA (refer to enclosed locus maps). 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. Hydric soil indicators, vegetation changes, hydrological indicators, and topography were all considered for delineation purposes.

The titles of attached documents are as follows:

- DEP Bordering Vegetated Wetland Determination Form
- Orthophoto of Locus Site, Goddard Consulting LLC, 8/29/2023
- Orthophoto with NRCS Soil Survey, Goddard Consulting LLC, 8/29/2023
- Orthophoto with DEP Mapped Wetlands, Goddard Consulting LLC, 8/29/2023
- USGS of Locus Site, Goddard Consulting LLC, 8/29/2023

### **SUMMARY OF FINDINGS**

The boundary of the Bordering Vegetated Wetland (BVW) partially on and off-site was delineated with flag series GCA1-GCA14. The sampling point for the BVW determination took place near flag GCA5. Vegetation upgradient of the BVW consists of red maple, white pine, glossy buckthorn, pachysandra, and multiflora rose. Vegetation downgradient of the BVW consists of red maple, glossy buckthorn, winterberry, cinnamon fern, and royal fern.

Soils identified on the property include sandy loams. In the wetland soil sample, fine sandy loam (FSL) with matrix color 10YR2/1 was found from 0-16", and FSL (10YR5/1) was found from 16-24". In the upland soil sample, FSL (10YR2/2) was found from 0-2", FSL (10YR3/4) was found from 2-8", and FSL (10YR5/6) was found from 8-24". More detailed information about soils is included in the attached NRCS Soil Map and the DEP Bordering Vegetated Wetland Determination Forms.

Additionally, the bank of a stream internal to the BVW system was flagged with series GCS1-20. This stream is identified on the USGS map of the area as being intermittent.

According to the MassGIS data layers for the Natural Heritage & Endangered Species Program (NHESP), the locus site is not located within Estimated and/or Priority Habitat of Rare Wildlife or an Area of Critical Environmental Concern (ACEC). The site is not located in an Outstanding Resource Waters Area (ORW). The site does not fall within a jurisdictional FEMA Flood Zone. There are no mapped certified or potential vernal pools on or abutting the site.

The MA Wetlands Protection Act and the Town of Sudbury takes jurisdiction over Bordering Vegetated Wetlands (BVW). The BVW partially on and off-site has a jurisdictional 100-foot Buffer Zone that casts onto the locus site.

Any work within these resource areas including the 100-foot Buffer Zones requires a Request for Determination (RDA) or Notice of Intent (NOI) to be filed with the Sudbury Conservation Commission.

**DESCRIPTION OF REGULATED INLAND RESOURCE AREA**

The table below provides the regulatory jurisdiction, flag numbers/colors, and wetland types and locations for the resource areas delineated.

<b>Resource Area</b>	<b>Regulatory Jurisdiction</b>	<b>Flag Numbers and Color</b>	<b>Wetland Types and Locations</b>
Bordering Vegetated Wetland (BVW)	BVW & 100-foot Buffer Zone	GCA1-GCA14 (Blue flags)	The boundary of BVW located in the east of the locus site.
Intermittent Stream	Intermittent Stream (Land Under Water)	GCS1-GCS20 (Pink flags)	The bank of the stream internal to the flagged BVW.

**SITE PHOTOS**



Photo 1. View of wetland and stream at rear of the locus site.



Photo 2. Upland soil sample pulled upgradient of flag GCA5.



Photo 3. Wetland soil sample pulled downgradient of flag GCA5.

Sincerely,  
Goddard Consulting, LLC



Chris Frattaroli  
Wetland Scientist



**BORDERING VEGETATED WETLAND DETERMINATION FORM**

Project/Site: 11 Hunt Road City/Town: Sudbury Sampling Date: 9/12/23  
 Applicant/Owner: Connorstone Engineering, Inc. Sampling Point or Zone: GCAS  
 Investigator(s): Chris Frattaroli Latitude/Longitude: 42.40112846043393, -71.40888167768091  
 Soil Map Unit Name: Freetown Muck, Hinckley Loamy Sand NWI or DEP Classification: Wooded Swamp Deciduous

**UPGRADIENT**

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? (If yes, explain in Remarks)  
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If yes, explain in Remarks)

**SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc**

Wetland vegetation criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Hydric Soils criterion met?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Wetlands hydrology present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>			
Remarks, Photo Details, Flagging, etc.:					

**HYDROLOGY**

<b>Field Observations:</b>			
Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (in) _____
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (in) _____
Saturation Present (including capillary fringe)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (in) _____
<b>Wetland Hydrology Indicators</b>			
<b>Reliable Indicators of Wetlands Hydrology</b>	<b>Indicators that can be Reliable with Proper Interpretation</b>	<b>Indicators of the Influence of Water</b>	
<input type="checkbox"/> Water-stained leaves	<input type="checkbox"/> Hydrological records	<input type="checkbox"/> Direct observation of inundation	
<input type="checkbox"/> Evidence of aquatic fauna	<input type="checkbox"/> Free water in a soil test hole	<input type="checkbox"/> Drainage patterns	
<input type="checkbox"/> Iron deposits	<input type="checkbox"/> Saturated soil	<input type="checkbox"/> Drift lines	
<input type="checkbox"/> Algal mats or crusts	<input type="checkbox"/> Water marks	<input type="checkbox"/> Scoured areas	
<input type="checkbox"/> Oxidized rhizospheres/pore linings	<input type="checkbox"/> Moss trim lines	<input type="checkbox"/> Sediment deposits	
<input type="checkbox"/> Thin muck surfaces	<input type="checkbox"/> Presence of reduced iron	<input type="checkbox"/> Surface soil cracks	
<input type="checkbox"/> Plants with air-filled tissue (aerenchyma)	<input type="checkbox"/> Woody plants with adventitious roots	<input type="checkbox"/> Sparsely vegetated concave surface	
<input type="checkbox"/> Plants with polymorphic leaves	<input type="checkbox"/> Trees with shallow root systems	<input type="checkbox"/> Microtopographic relief	
<input type="checkbox"/> Plants with floating leaves	<input type="checkbox"/> Woody plants with enlarged lenticels	<input type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)	
<input type="checkbox"/> Hydrogen sulfide odor			
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):			

This form is only for BVW delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

Sampling Point GCAS

VEGETATION – Use both common and scientific names of plants.

**Tree Stratum** Plot size 30'

	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)	% Dominant
1	Red maple	Acer rubrum	FAC	63.0%	X	X	85.7%
2	White pine	Pinus strobus	FACU	10.5%			14.3%
3							
4							
5							
6							
7							
8							
9							
				73.5%	=Total Cover		

**Shrub/Sapling Stratum** Plot size 15'

	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)	% Dominant
1	Glossy buckthorn	Frangula alnus	FAC	10.5%	X	X	50.0%
2	Multiflora rose	Rosa multiflora	FACU	10.5%	X		50.0%
3							
4							
5							
6							
7							
8							
9							
				21.0%	=Total Cover		

**Herb Stratum** Plot size 5'

	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)	% Dominant
1	Pachysandra	Pachysandra sp.	FACU	63.0%	X		73.7%
2	Oriental bittersweet	Celastrus orbiculatus	FACU	10.5%			12.3%
3	New York fern	Parathelypteris noveboracensis	FAC	3.0%		X	3.5%
4	Common cinquefoil	Potentilla simplex	FACU	3.0%			3.5%
5	Common dewberry	Rubus flagellaris	FACU	3.0%			3.5%
6	Eastern poison ivy	Toxicodendron radicans	FAC	3.0%		X	3.5%
7							
8							
9							
10							
11							
12							
				85.5%	=Total Cover		

VEGETATION – continued.

Woody Vine Stratum		Plot size 30'					
	Common Name	Scientific name	Indicator Status	Absolute % Cover	Dominant? (yes/no)	Wetland Indicator? (yes/no)	% Dominant
1							
2							
3							
4							
				0.0%	=Total Cover		

Rapid Test:		Do all dominant species have an indicator status of OBL or FACW?		Yes	No	X
Dominance Test:		Number of dominant species	Number of dominant species that are wetland indicator plants	Do wetland indicator plants make up ≥ 50% of dominant plant species?		
		4	2	Yes	X	No
Prevalence Index:		Total % Cover (all strata)		Multiply by:		
		OBL species	0%	x1	=	0%
		FACW species	0%	x2	=	0%
		FAC species	80%	x3	=	239%
		FACU species	101%	x4	=	402%
		UPL species	0%	x5	=	0%
		Column Totals (A)	180%		(B)	641%
		Prevalence Index	B/A=	3.56	Is the Prevalence Index ≤ 3.0?	
					Yes	No X
Wetland vegetation criterion met?		Yes	No	X		

Definitions of Vegetation Strata

- Tree: Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub/Sapling: Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb: All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines: All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.00%
6-15 %	10.50%
15-25 %	20.50%
26-50 %	38.00%
51-75 %	63.00%
76-95 %	85.50%
96-100 %	98.00%

SOIL

Sampling Point GCAS

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0-2	10YR2/2	100				FSL	
2-8	10YR3/4	100				FSL	
8-24	10YR5/6	100				FSL	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains <sup>2</sup> Location: PL=Pore Lining, M=Matrix							
Hydric Soil Indicators (Check all that apply)				Indicators for Problematic Hydric Soils			
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)			<input type="checkbox"/> 2 cm Muck (A10)			
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)			<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)			
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Polyvalue Below Surface (S8)			<input type="checkbox"/> Dark Surface (S7)			
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9)			<input type="checkbox"/> Polyvalue Below Surface (S8)			
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)			<input type="checkbox"/> Thin Dark Surface (S9)			
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)			<input type="checkbox"/> Iron-Manganese Masses (F12)			
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Matrix (F3)			<input type="checkbox"/> Mesic Spodic (A17)			
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Dark Surface (F7)			<input type="checkbox"/> Red Parent Material (F21)			
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Depleted Dark Surface (F8)			<input type="checkbox"/> Very Shallow Dark Surface (TF12)			
<input type="checkbox"/> Dark Surface (S7)				<input type="checkbox"/> Other (Include Explanation in Remarks)			
Restrictive Layer (if observed)		Type:	Depth (inches):				
Remarks							
Hydric Soils criterion met?      Yes      No      X							

**DOWNGRADIANT**

Are climatic/hydrologic conditions on the site typical for this time of year? Yes   X   No        (if no, explain in Remarks)  
 Are Vegetation       , Soil       , or Hydrology        significantly disturbed? (if yes, explain in Remarks)  
 Are Vegetation       , Soil       , or Hydrology        naturally problematic? (if yes, explain in Remarks)

**SUMMARY OF FINDINGS – Attach site map and photograph log showing sampling locations, transects, etc**

Wetland vegetation criterion met?	Yes <u>  X  </u>	No <u>      </u>	Is the Sampled Area within a Wetland?	Yes <u>  X  </u>	No <u>      </u>
Hydric Soils criterion met?	Yes <u>  X  </u>	No <u>      </u>			
Wetlands hydrology present?	Yes <u>  X  </u>	No <u>      </u>			
Remarks, Photo Details, Flagging, etc.:					

**HYDROLOGY**

<b>Field Observations:</b>					
Surface Water Present?	Yes <u>  X  </u>	No <u>      </u>	Depth (in)	<u>  0  </u>	
Water Table Present?	Yes <u>  X  </u>	No <u>      </u>	Depth (in)	<u>  7  </u>	
Saturation Present (including capillary fringe)?	Yes <u>  X  </u>	No <u>      </u>	Depth (in)	<u>  4  </u>	
<b>Wetland Hydrology Indicators</b>					
<b>Reliable Indicators of Wetlands</b>	<b>Indicators that can be Reliable with</b>		<b>Indicators of the Influence of Water</b>		
<input checked="" type="checkbox"/> Water-stained leaves		Hydrological records	<input checked="" type="checkbox"/> Direct observation of inundation		
<input type="checkbox"/> Evidence of aquatic fauna	<input checked="" type="checkbox"/>	Free water in a soil test hole	<input type="checkbox"/> Drainage patterns		
<input type="checkbox"/> Iron deposits	<input checked="" type="checkbox"/>	Saturated soil	<input type="checkbox"/> Drift lines		
<input type="checkbox"/> Algal mats or crusts		Water marks	<input type="checkbox"/> Scoured areas		
<input type="checkbox"/> Oxidized rhizospheres/pore linings		Moss trim lines	<input type="checkbox"/> Sediment deposits		
<input type="checkbox"/> Thin muck surfaces		Presence of reduced iron	<input type="checkbox"/> Surface soil cracks		
<input type="checkbox"/> Plants with air-filled tissue (aerenchyma)		Woody plants with adventitious roots	<input type="checkbox"/> Sparsely vegetated concave surface		
<input type="checkbox"/> Plants with polymorphic leaves	<input checked="" type="checkbox"/>	Trees with shallow root systems	<input type="checkbox"/> Microtopographic relief		
<input type="checkbox"/> Plants with floating leaves		Woody plants with enlarged lenticels	<input checked="" type="checkbox"/> Geographic position (depression, toe of slope, fringing lowland)		
<input type="checkbox"/> Hydrogen sulfide odor					
Remarks (describe recorded data from stream gauge, monitoring well, aerial photos, previous inspections, if available):					

This form is only for BWV delineations. Other wetland resource areas may be present and should be delineated according to the applicable regulatory provisions.

Sampling Point GCAS

VEGETATION – Use both common and scientific names of plants.

**Tree Stratum** Plot size 30'

	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indicator?	% Dominant
1	Red maple	Acer rubrum	FAC	38.0%	X	X	61.8%
2	White pine	Pinus strobus	FACU	20.5%	X		33.3%
3	Black cherry	Prunus serotina	FACU	3.0%			4.9%
4							
5							
6							
7							
8							
9							

61.5% =Total Cover

**Shrub/Sapling Stratum** Plot size 15'

	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indicator?	% Dominant
1	Glossy buckthorn	Frangula alnus	FAC	20.5%	X	X	66.1%
2	Winterberry	Ilex verticillata	FACW	10.5%	X	X	33.9%
3							
4							
5							
6							
7							
8							
9							

31.0% =Total Cover

**Herb Stratum** Plot size 5'

	Common Name	Scientific name	Indicator	Absolute %	Dominant?	Wetland Indicator?	% Dominant
1	Cinnamon fern	Osmundastrum cinnamomeum	FACW	63.0%	X	X	76.4%
2	Royal fern	Osmunda spectabilis	OBL	10.5%		X	12.7%
3	Common cinquefoil	Potentilla simplex	FACU	3.0%			3.6%
4	Eastern poison ivy	Toxicodendron radicans	FAC	3.0%		X	3.6%
5	Starflower	Trientalis borealis	FAC	3.0%		X	3.6%
6							
7							
8							
9							
10							
11							
12							

82.5% =Total Cover

VEGETATION – continued.

Woody Vine Stratum		Plot size 30'					
	Common Name	Scientific name	Indicator	Absolute%	Dominant?	Wetland indicator?	% Dominant
1	Virginia creeper	Parthenocissus quinquefolia	FACU	3.0%	X		100.0%
2							
3							
4							
				3.0%	=Total Cover		

Rapid Test:		Do all dominant species have an indicator status of OBL or FACW?		Yes	No	X
Dominance Test:		Number of dominant species	Number of dominant species that are	Do wetland indicator plants make		
		6	4	Yes	X	No
Prevalence Index:			Total % Cover	Multiply by:	Result	
		OBL species	11%	x1	=	11%
		FACW species	74%	x2	=	147%
		FAC species	65%	x3	=	194%
		FACU species	30%	x4	=	118%
		UPL species	0%	x5	=	0%
		Column Totals (A)	178%		(B)	469%
Prevalence Index		B/A=	2.63		Is the Prevalence Index ≤ 3.0?	
					Yes	X No
Wetland vegetation criterion met?		Yes	X	No		

Definitions of Vegetation Strata

- Tree Woody plants 3 in. (7.62 cm) or more in diameter at breast height (DBH), regardless of height
- Shrub/Sapling Woody plants less than 3 in. (7.62 cm) DBH and greater than or equal to 3.3 ft. (1 m) tall
- Herb All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.3 ft. (1 m) tall
- Woody vines All woody vines greater than 3.3 ft. (1 m) in height

Cover Ranges	
Range	Midpoint
1-5 %	3.00%
6-15 %	10.50%
15-25 %	20.50%
26-50 %	38.00%
51-75 %	63.00%
76-95 %	85.50%
96-100 %	98.00%

SOIL

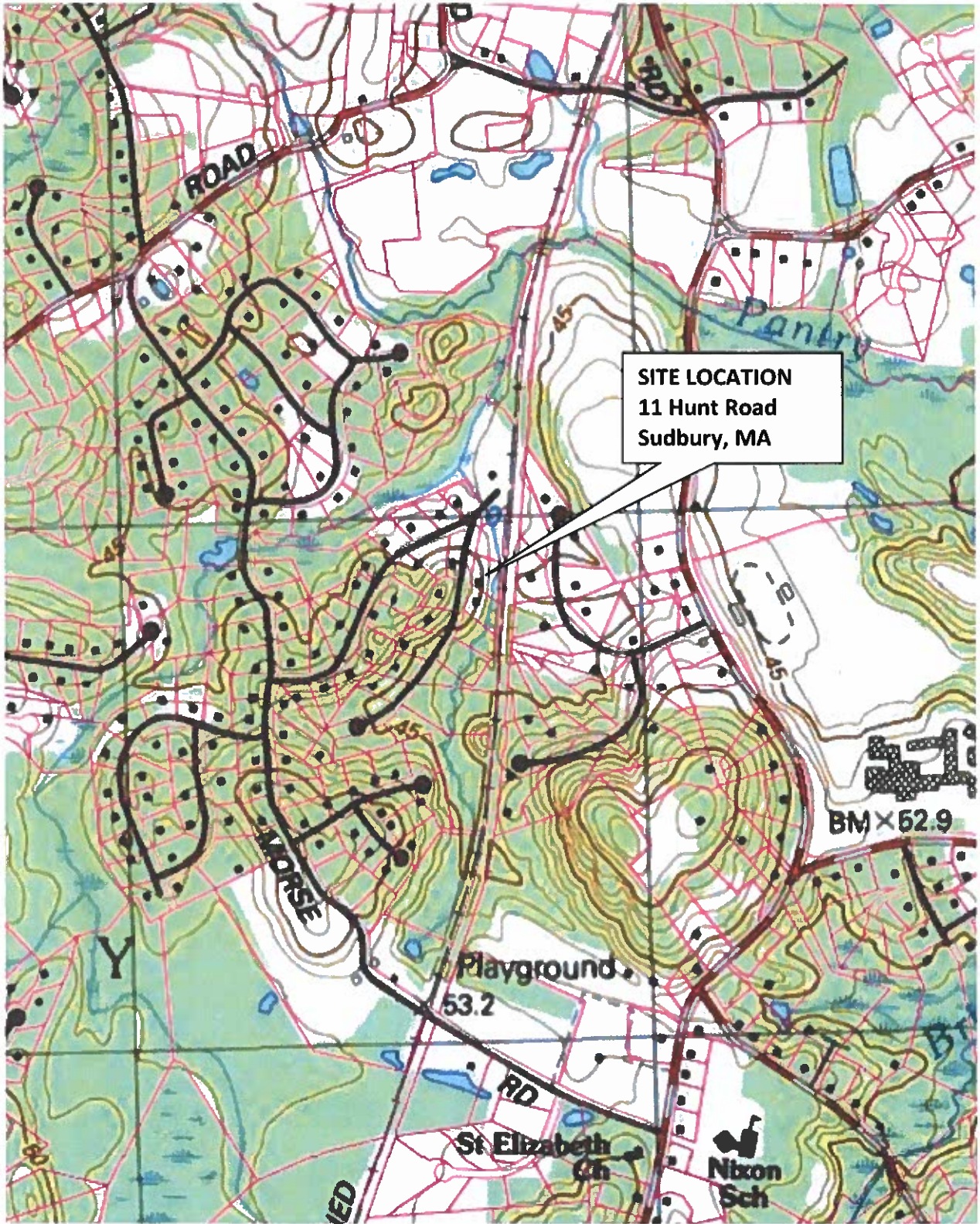
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)								
Depth (inches)	Matrix		Color (moist)		Redox Features		Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Location <sup>2</sup>		
0-16	10YR2/1	100					FSL	
16-24	10YR5/1	100					FSL	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains <sup>2</sup>Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators (Check all that apply)		Indicators for Problematic Hydric Soils	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)	
<input checked="" type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Polyvalue Below Surface (S8)	<input type="checkbox"/> Dark Surface (S7)	
<input type="checkbox"/> Hydrogen Sulfide (AA)	<input type="checkbox"/> Thin Dark Surface (S9)	<input type="checkbox"/> Polyvalue Below Surface (S8)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Thin Dark Surface (S9)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Mesic Spodic (A17)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Depleted Dark Surface (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Dark Surface (S7)		<input type="checkbox"/> Other (Include Explanation in Remarks)	
<b>Restrictive Layer (if observed)</b> Type:		Depth (inches):	
Remarks			
Hydric Soils criterion met?		Yes	X No







# USGS LOCUS MAP

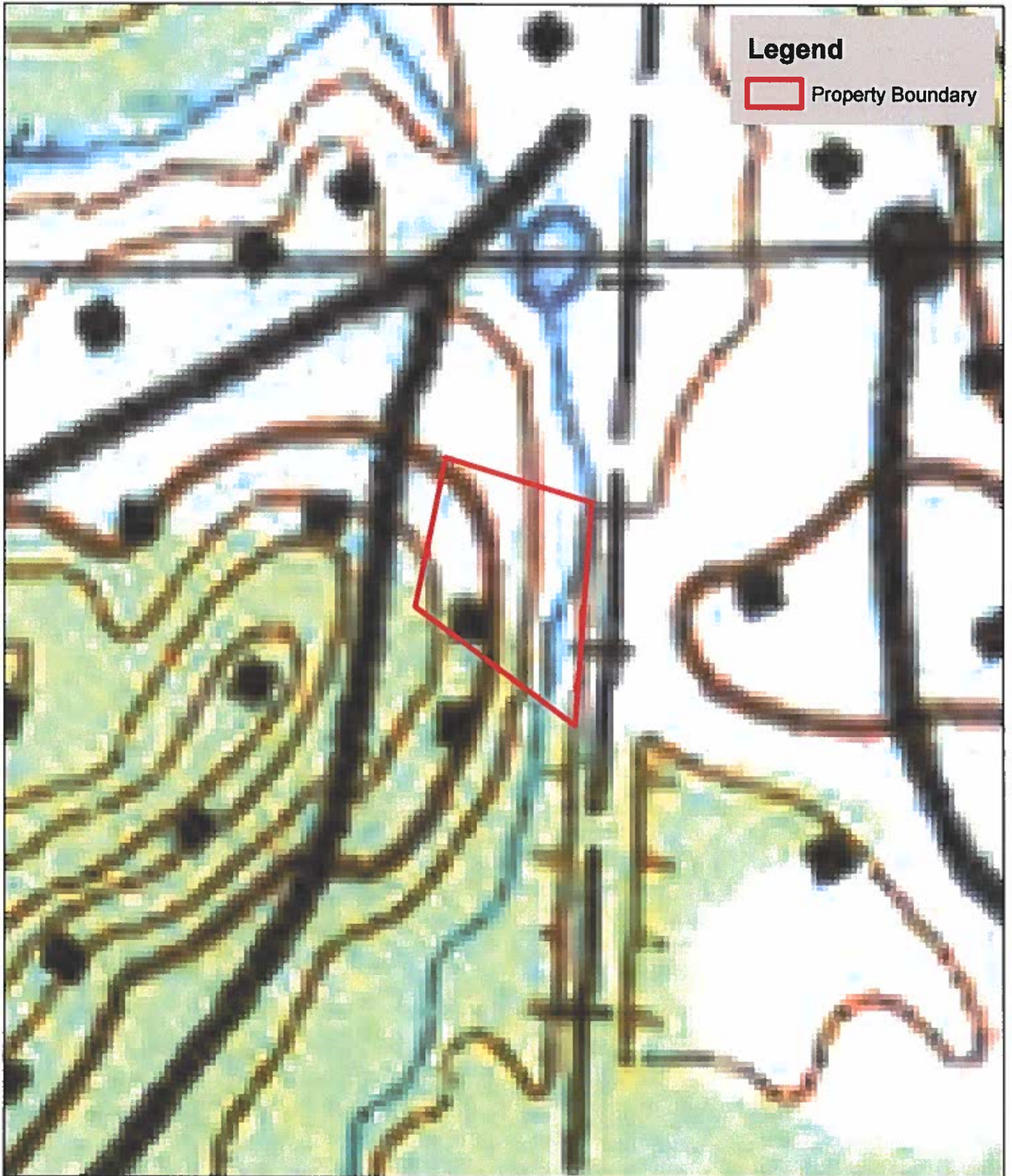




**Legend**

 Property Boundary

Date: 8/29/2023	GC Job Number: 288-110	<p align="center"><b>Wetland Border Report</b> <b>Orthophoto of Locus Site</b></p>	<p align="center">0      25      50   Feet</p>	
 <p><b>GODDARD CONSULTING</b> Strategic Ecological Consulting</p>			1 in = 50 ft	
<p align="center">11 Hunt Road Sudbury, MA</p>		<p>Map: E09, Lot: 128</p>		



**Legend**

Property Boundary

Date: 8/29/2023

GC Job Number:  
288-110

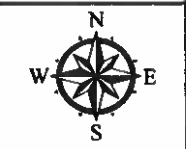
**Wetland Border Report  
USGS of Locus Site**



**GODDARD  
CONSULTING**  
Strategic Ecological Consulting

11 Hunt Road  
Sudbury, MA

1 in = 150 ft  
Map: E09, Lot: 128



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***CERTIFIED LIST OF ABUTTER & FORMS***

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abutters_id_ field	abutters_owner1	abutters_owner2	abutters_address	abutters_town	abutters_state	abutters_zip	abutters_location
E09-0113	BARDIS CONSTANTINE S &	OSTLUND PEGGY J	61 RIDGE HILL RD	SUBBURY	MA	01776	61 RIDGE HILL RD
E09-0114	CASTRO ALFREDO A & MARIA ANA		20 HUNT RD	SUBBURY	MA	01776	20 HUNT RD
E09-0127	WHITE GERALD KIMBER &	WHITE MEREDITH KIMBER	19 HUNT RD	SUBBURY	MA	01776	19 HUNT RD
E09-0128	SCHOW JOAN M		11 HUNT RD	SUBBURY	MA	01776	11 HUNT RD
E09-0129	ALBEE RICHARD S		5 HUNT RD	SUBBURY	MA	01776	5 HUNT RD
E09-0509	BLOOM JEFFREY & TIFFANY		53 THOMPSON DRIVE	SUBBURY	MA	01776	53 THOMPSON DR
E09-0510	WRY CHARLES A JR & RUTHANIN		45 THOMPSON DRIVE	SUBBURY	MA	01776	45 THOMPSON DR
F09-0218	CRARY MINER A & HELEN H TRS	THE 1 HUNT ROAD NOMINEE TRUST	1 HUNT RD	SUBBURY	MA	01776	1 HUNT RD
E09-S100	EOT	MASS BAY TRANSPORTATION	10 PARK PLAZA	BOSTON	MA	02116	RAILWAY

*Gyrodine Hunt*  
9/22/2023

11 Hunt Rd  
100' Abutters

**AFFIDAVIT OF SERVICE**  
**Under the Massachusetts Wetlands Protection Act**  
**&**  
**Sudbury Wetlands Administration Bylaw**

I, Vito Colonna of Connorstone Engineering, Inc., hereby certify under the pains and penalties of perjury that on October 12, 2023 I gave notification to abutters in compliance with the second paragraph of Massachusetts General Laws Chapter 131, Section 40, and the DEP Guide to Abutter Notification dated April 8, 1994, in connection with the following matter:

A Request for Determination of Applicability filed under the Sudbury Wetlands Administration Bylaw and Massachusetts Wetlands Protection Act by Doug Schow with the Sudbury Conservation Commission on October 12, 2023 for property located at 11 Hunt Road in Sudbury Ma.

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



Name

10-12-23

Date

***Notification to Abutters Under the  
Massachusetts Wetlands Protection Act  
Sudbury Wetlands Administration Bylaw***

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

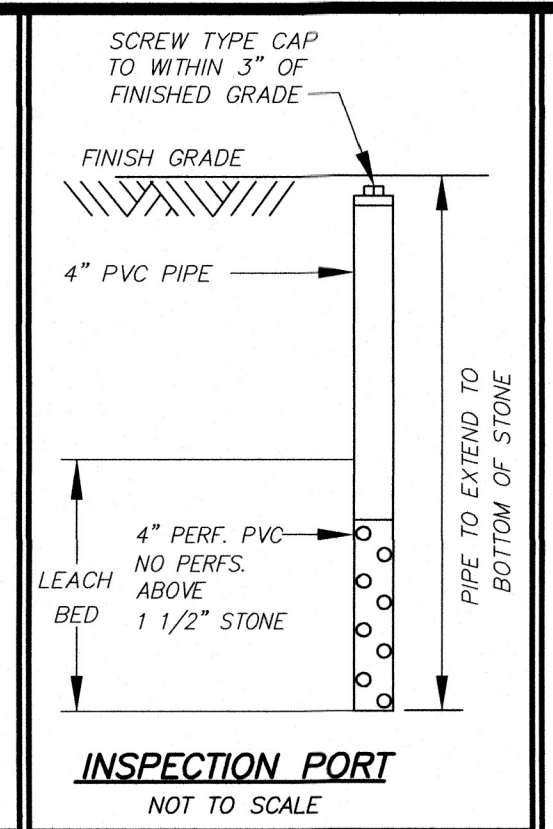
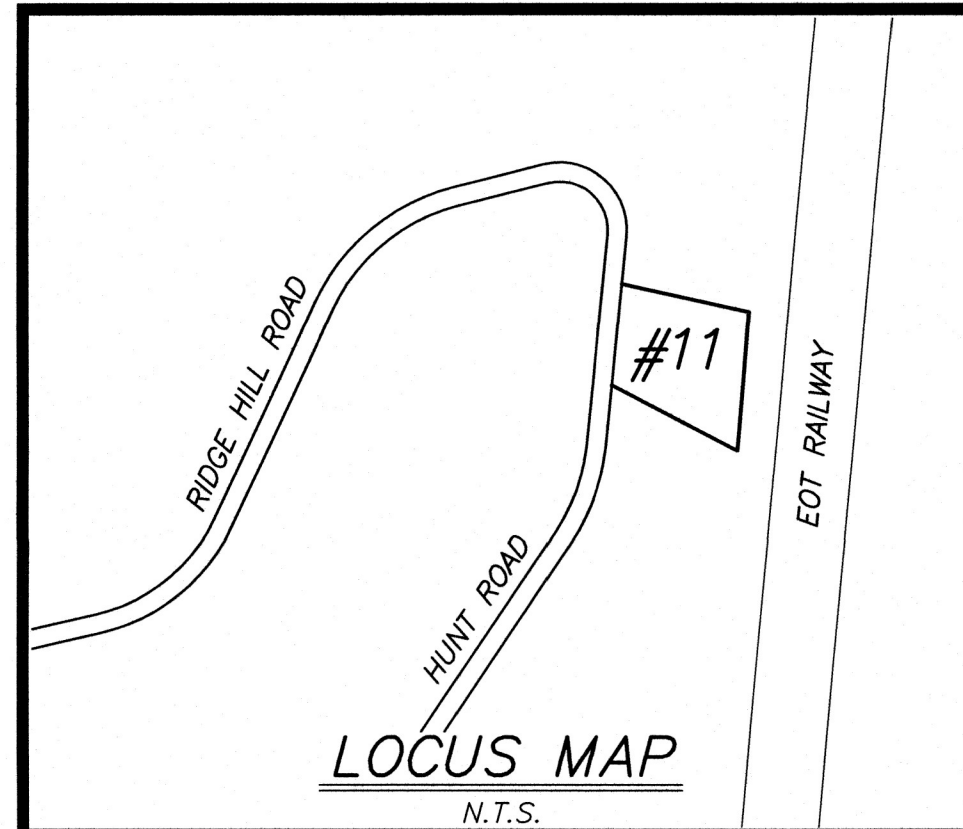
- A. The name of the Applicant is **Doug Schow**.
- B. The Applicant has filed a Request for Determination of Applicability with the Conservation Commission of the Town of **Sudbury** seeking permission to discharge to, remove, fill, dredge or alter an Area Subject to Protection (Wetland Resource Area and/or Buffer Zone) Under the Massachusetts Wetlands Protection Act (General Laws Chapter 131, Section 40) and Sudbury Wetlands Administration Bylaw.
- C. The address of the lot where the activity is proposed: **11 Hunt Road in Sudbury Ma.**
- D. The activity consists of: **Repair of an existing septic system.**
- E. Copies of the Request for Determination of Applicability may be examined at **Sudbury Conservation Commission Office** between the hours of **10:00 am and 3:00 pm on Monday through Friday.** For more information, call: **978-440-5471**. Check One: This is the Applicant\_\_\_, representative\_\_\_, or other **X** (Conservation Commission Office).
- F. Copies of the Request for Determination of Applicability may be obtained (upon payment of reproduction cost) from the **Applicant's representative (Connorstone Engineering)**, by calling this telephone number **(508) 393-9727** between the hours of **10 am – 4 pm** on the following days of the week: **Mon. – Fri.**
- G. Information regarding the date, time, and place of the public hearing may be obtained from **Sudbury Conservation Commission Office** by calling this telephone number **978-440-5471** between the hours of **10:00 am and 3:00 pm on Monday through Friday.** This is the Applicant\_\_\_, representative\_\_\_, or other **X** (Conservation Commission Office).
- H. **Public Participation will be via Virtual Means Only** - In light of the ongoing COVID-19 coronavirus outbreak, Governor Baker issued an emergency Order on March 12, 2020, allowing public bodies greater flexibility in utilizing technology in the conduct of meetings under the Open Meeting Law. The Town of Sudbury Conservation Commission greatly values the participation of its citizens in the public meeting process, but given the current circumstances and recommendations at both the state and federal levels to limit or avoid public gatherings, including Governor Baker's ban on gatherings of more than 10 people, together with the present closure of Sudbury Town Hall and other public buildings to the public, the Town has decided to implement the "remote participation" procedures allowed under Governor Baker's emergency Order for all boards, committees, and commissions.

Note: Public Hearing Notice, including its date, time, and place, will be published at least five (5) days in advance in the

**MetroWest Daily News**  
(name of newspaper)

Note: Notice of the public hearing, including its date, time, and place, will be posted in the Town Hall not less than forty-eight (48) hours in advance.

Note: You also may contact your local Conservation Commission or the nearest Department of Environmental Protection (DEP) for more information about this application or the Wetlands Protection Act. To contact DEP, call **Northeast region: 978-661-7600**



**PLAN NOTES:**

1. THIS PLOT PLAN IS PREPARED FROM LINES OF OCCUPATION. THE TIES TO THE LOT LINES ARE NOT TO BE USED IN THE SETTING OF FENCES, HEDGES, ETC. AND IS NOT TO BE CONSIDERED A PROPERTY LINE SURVEY.

**LOCAL UPGRADE APPROVALS REQUIRED:**

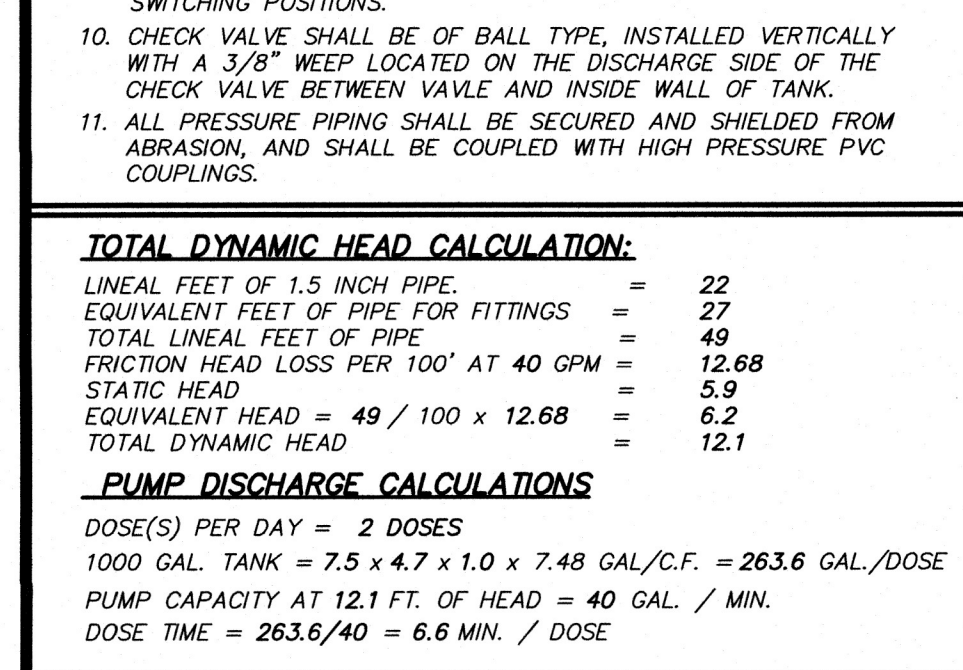
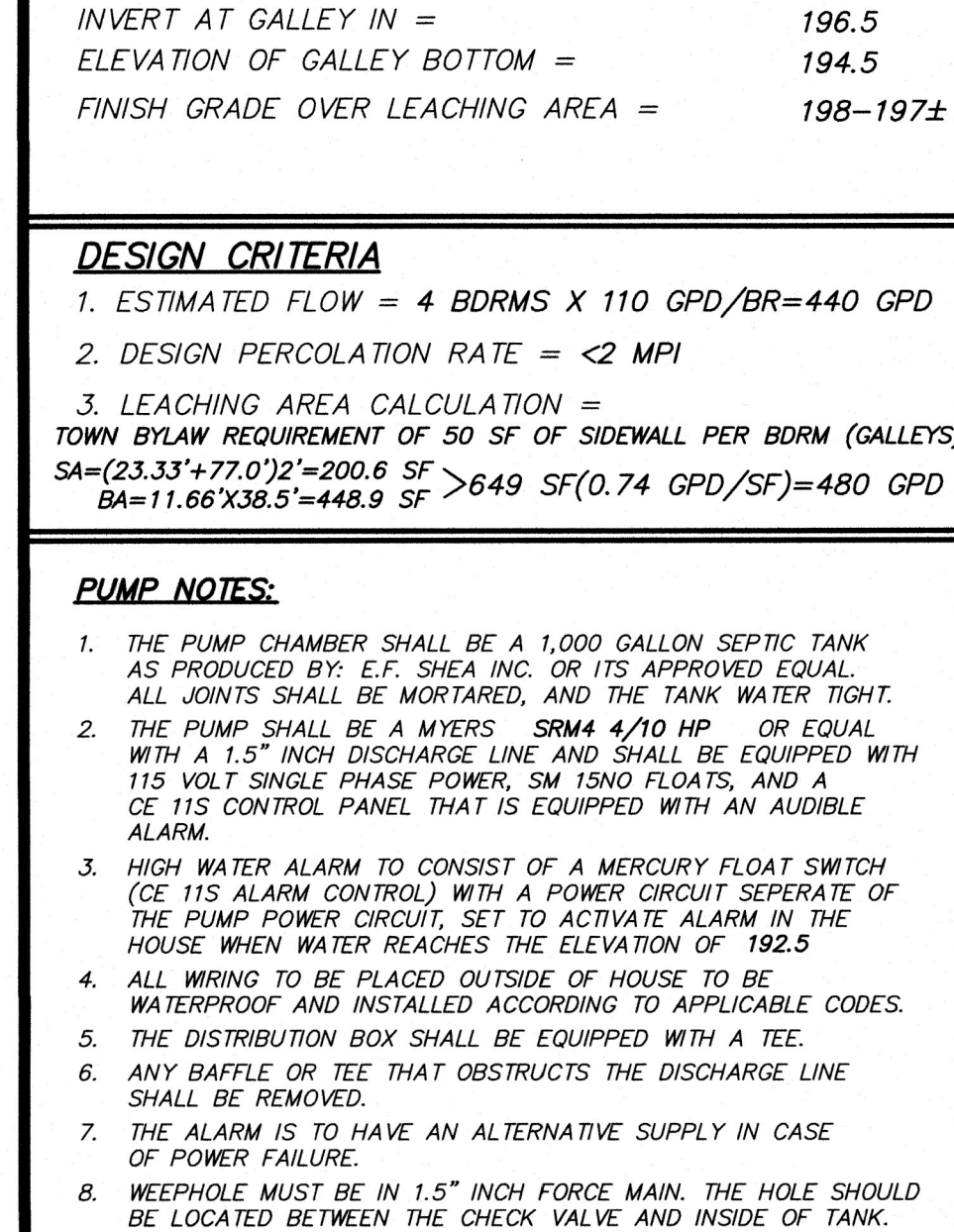
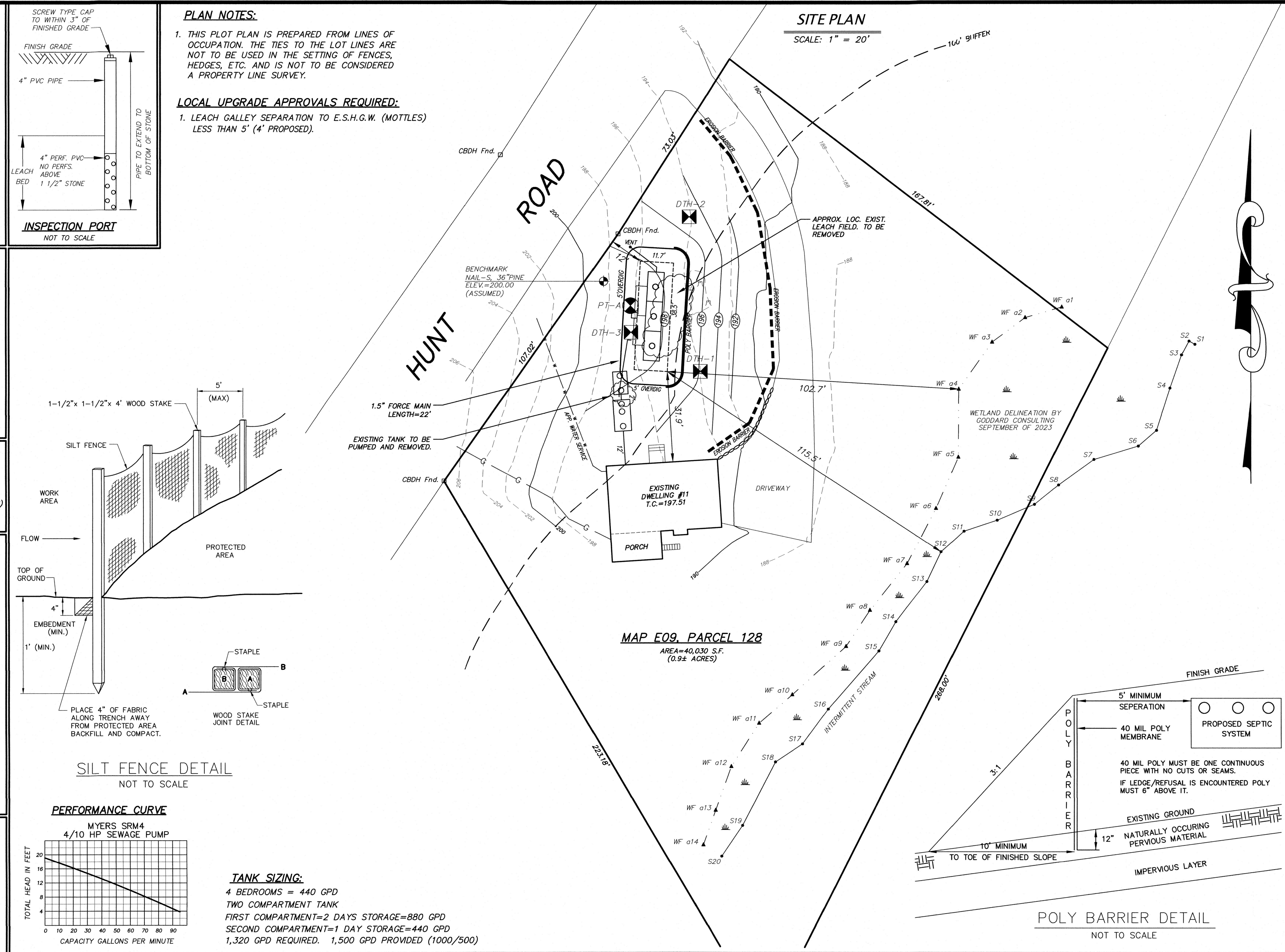
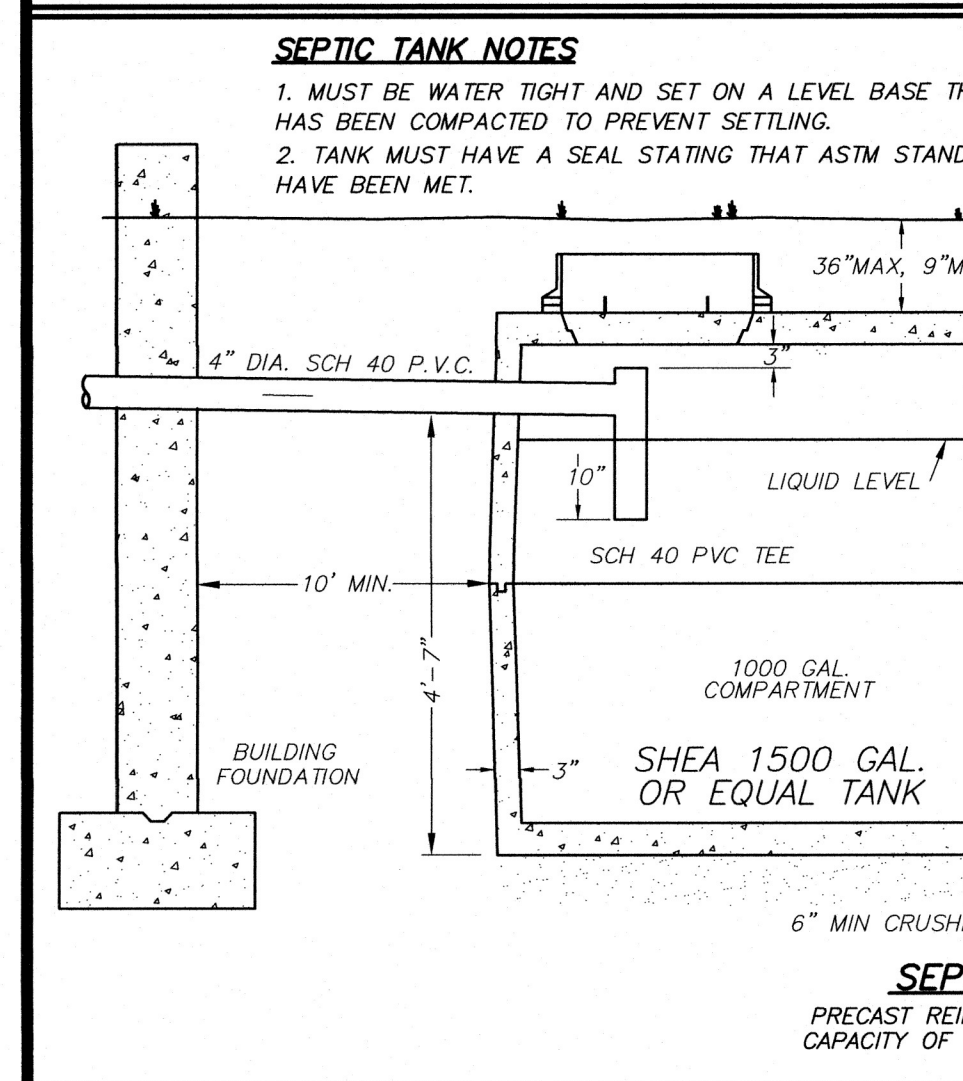
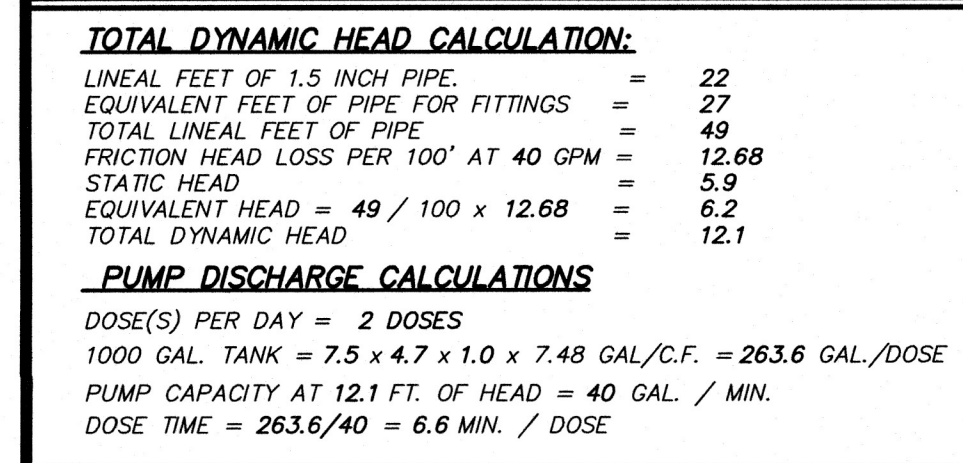
1. LEACH GALLEY SEPARATION TO E.S.H.G.W. (MOTTLES) LESS THAN 5' (4' PROPOSED).

**SCHEDULE OF ELEVATIONS**

TOP OF FOUNDATION T.C. =	197.51
CONTRACTOR TO CONFIRM INVERTS PRIOR TO CONSTRUCTION	
INVERT OF PIPE AT FOUNDATION =	195.4
INVERT AT SEPTIC TANK INLET =	195.0
INVERT AT SEPTIC TANK OUTLET =	194.75
INVERT AT PUMP TANK INLET =	194.5
INVERT AT PUMP TANK OUTLET =	194.25
INVERT AT DISTRIBUTION BOX INLET =	196.9
INVERT AT DISTRIBUTION BOX OUTLET =	196.7
INVERT AT GALLEY IN =	196.5
ELEVATION OF GALLEY BOTTOM =	194.5
FINISH GRADE OVER LEACHING AREA =	198-197±

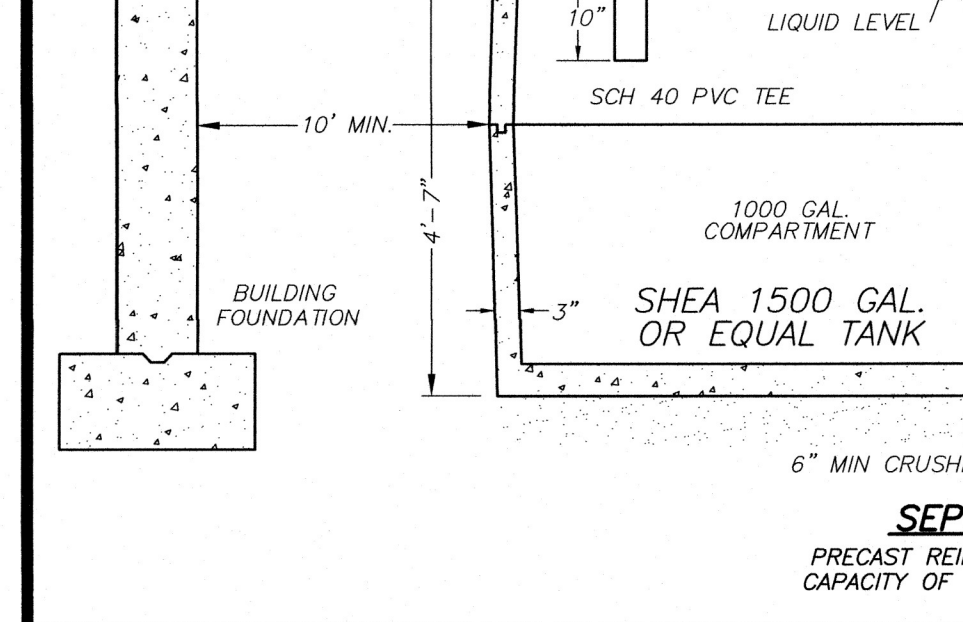
- DESIGN CRITERIA**
1. ESTIMATED FLOW = 4 BDRMS X 110 GPD/BR=440 GPD
  2. DESIGN PERCOLATION RATE = <2 MPI
  3. LEACHING AREA CALCULATION = TOWN BYLAW REQUIREMENT OF 50 SF OF SIDEWALL PER BORM (GALLEYS) SA=(23.33+77.0')<sup>2</sup>=200.6 SF >649 SF(0.74 GPD/SF)=480 GPD BA=11.66'X38.5'=449.9 SF

- PUMP NOTES:**
1. THE PUMP CHAMBER SHALL BE A 1,000 GALLON SEPTIC TANK AS PRODUCED BY: E.F. SHEA INC. OR ITS APPROVED EQUAL. ALL JOINTS SHALL BE MORTARED, AND THE TANK WATER TIGHT.
  2. THE PUMP SHALL BE A MYERS SRM4 4/10 HP OR EQUAL WITH A 1.5" INCH DISCHARGE LINE AND SHALL BE EQUIPPED WITH 115 VOLT SINGLE PHASE POWER, SM 15NO FLOATS, AND A CE 115 CONTROL PANEL THAT IS EQUIPPED WITH AN AUDIBLE ALARM.
  3. HIGH WATER ALARM TO CONSIST OF A MERCURY FLOAT SWITCH (CE 115 ALARM CONTROL) WITH A POWER CIRCUIT SEPARATE OF THE PUMP POWER CIRCUIT, SET TO ACTIVATE ALARM IN THE HOUSE WHEN WATER REACHES THE ELEVATION OF 192.5
  4. ALL WIRING TO BE PLACED OUTSIDE OF HOUSE TO BE WATERPROOF AND INSTALLED ACCORDING TO APPLICABLE CODES.
  5. THE DISTRIBUTION BOX SHALL BE EQUIPPED WITH A TEE.
  6. ANY BAFFLE OR TEE THAT OBSTRUCTS THE DISCHARGE LINE SHALL BE REMOVED.
  7. THE ALARM IS TO HAVE AN ALTERNATIVE SUPPLY IN CASE OF POWER FAILURE.
  8. WEEPHOLE MUST BE IN 1.5" INCH FORCE MAIN. THE HOLE SHOULD BE LOCATED BETWEEN THE CHECK VALVE AND INSIDE OF TANK.
  9. CONTROL PANEL TO BE EQUIPPED WITH ON-OFF AND MANUAL SWITCHING POSITIONS.
  10. CHECK VALVE SHALL BE OF BALL TYPE, INSTALLED VERTICALLY WITH A 3/8" WEEP LOCATED ON THE DISCHARGE SIDE OF THE CHECK VALVE BETWEEN VALVE AND INSIDE WALL OF TANK.
  11. ALL PRESSURE PIPING SHALL BE SECURED AND SHIELDED FROM ABRASION, AND SHALL BE COUPLED WITH HIGH PRESSURE PVC COUPLINGS.



**TANK SIZING:**

- 4 BEDROOMS = 440 GPD  
 TWO COMPARTMENT TANK  
 FIRST COMPARTMENT=2 DAYS STORAGE=880 GPD  
 SECOND COMPARTMENT=1 DAY STORAGE=440 GPD  
 1,320 GPD REQUIRED. 1,500 GPD PROVIDED (1000/500)



**PERCOLATION TESTS**

HOLE NO. & DATE	TOP ELEVATION	DEPTH (In.)	SATURATION (Min.)	12"-9" DROP (Min.)	9"-6" DROP (Min.)	PERC. RATE (Min./In.)
PT-A 09/13/23	197.8	58"		COULD NOT SATURATE		<2 MIN/IN

**DEEP OBSERVATION HOLE LOG**

NO. & DATE	DEPTH (In.)	SOIL HORIZON	TEXTURE (USDA)	COLOR (MUNSELL)	SOIL MOTTLING	OTHER
DTH-1 09/13/23	0-25"		FILL			
	25-40"	Bw	LOAMY SAND	10YR6/8		
	40-70"	C1	FINE-MED. SAND	10YR6/3	59"	
	70-110"	C2	SANDY LOAM	2.5Y5/4		
DEPTH TO BEDROCK: - STANDING WATER: - WEEPING FROM PIT FACE: - ESHWT: 189.1						
DTH-2 09/13/23	0-9"	Ap	SANDY LOAM	10YR3/2		
	9-23"	Bw	LOAMY SAND	10YR6/8		
	23-75"	C1	FINE-MED. SAND	10YR6/3	64"	
	75-100"	C2	SANDY LOAM	2.5Y5/4		
DEPTH TO BEDROCK: - STANDING WATER: - WEEPING FROM PIT FACE: - ESHWT: 189.1						
DTH-3 09/13/23	0-20"		FILL			
	20-40"	Bw	COURSE SAND	10YR3/2		HEAVY IN FE
	40-85"	C1	FINE-MED. SAND	10YR6/3	66"	
	85-112"	C2	SANDY LOAM	2.5Y5/4		
DEPTH TO BEDROCK: - STANDING WATER: - WEEPING FROM PIT FACE: - ESHWT: 190.5						

TESTS CONDUCTED BY: MIKE SULLIVAN  
 TESTS OBSERVED BY: ROB LAZZO  
 DATE: 09/13/2023

I certify that I have passed the examination approved by the department of Environmental Protection and that the above analysis has been performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.01(2)

Certified: 2314

**GENERAL NOTES:**

1. Contractor shall call Digsafe at (888) 344-7233 a minimum of 72 hours prior to commencing any construction activities on site.
2. Inspections by Design Engineer and Board of Health are as required by the Board of Health.
3. This plan was prepared for the design of the subsurface sewage disposal system only and is based on the subsurface explorations and percolation tests listed below.
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.
5. The system must be vented through the buildings plumbing in accordance with the state building code.
6. Plans show only features that were visually apparent on the date of the topographic survey, and the absence of subsurface structures, utilities, etc. is not guaranteed.
7. Contractor to determine if site conditions are suitable for construction of proposed system, and must promptly notify the Design Engineer and Owner, in writing, of any plan deficiencies, unforeseen subsurface conditions, or required changes.
8. There are no wells located within 100 feet of the proposed leaching area or within 300 feet of the proposed septic tank (except as shown).
9. The subject property 19.003 located within a Zone II of a public drinking water supply well.
10. All construction is to conform to the requirements of the Massachusetts Environmental Code, Title V, and the town of SUDBURY Board of Health regulations.
11. There are no bordering vegetated wetlands, inland banks, or surface waters within 100' of the proposed system.
12. There are no surface or subsurface drains which are used to lower the ground water.
13. All elevations refer to TBM NAIL-S-36 PINE ELEV.=200
14. For proper performance, septic tank should be pumped annually.
15. System cannot be backfilled or concealed until design firm and board of health have inspected the system and permission to backfill has been given.
16. Design firm must prepare and submit "As-Built" plan to Board of Health. This plan must certify that the system was installed in accordance with state and local regulations and that it complies with the proposed plan.
17. Property lines are approximate and are not to be used for boundary survey purposes. Surface features and topography outside of work area are approximate.
18. System is not designed to accommodate a garbage grinder.

**TECHNICAL NOTES:**

1. 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 shall be used in areas subject to vehicular traffic.
2. 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.
3. Septic tanks shall have at least three (3) 20" manholes with at least one (1) of these manholes located no more than 6" below finish grade. (Systems over 1,000 gpd shall have access ports at both the inlet and outlet tees.)
4. Distribution box ("d-box") shall be of watertight construction, installed level on a firm base, and installed in accordance with 310 CMR 15.232.
5. Septic tank covers and d-box are to be brought within 6" and 9" of finish grade respectively by the use of riser sections.
6. When the soil observation system (SAS) is to be dosed or the slope of the inlet pipe exceeds 0.08 feet per foot, an inlet tee, baffle or splash plate extending to one inch above the outlet invert elevation shall be provided to dissipate velocity of the influent.
7. When the SAS is installed within the top and subsoil layers or above natural grade, all topsoil and subsoil shall be removed below and laterally a minimum of 5 feet surrounding the SAS. Removed material shall be replaced with clean granular material in accordance with 310 CMR 15.255(3).
8. All disturbed areas shall be loamed, seeded, and maintained so as to prevent erosion.
9. All native soil interfaces which will contact the SAS shall be scarified prior to placement of stone.

**FINAL GRADING NOTES:**

1. 2% SLOPE MUST BE PROVIDED OVER AND AROUND SYSTEM.
2. SURFACE DRAINAGE MUST BE AWAY FROM SYSTEM.
3. GRADING MUST BE DONE TO PREVENT PONDING.

**BUILDING SEWER NOTES:**

1. SEWER LINE MUST BE LAID ON A FIRM COMPACTED BASE.
2. PIPE MUST BE SLOPED AT A MIN. OF 1% (2% PREFERRED).
3. PIPE MUST BE LAID ON A CONTINUOUS UNIFORM GRADIENT.

**DISTRIBUTION BOX NOTES:**

1. COVER MUST BE WATER TIGHT.
2. ALL OUTLET PIPES SHALL BE LEVEL FOR THE FIRST 2' OUT OF THE D-BOX. ALL OUTLET PIPES TO BE AT THE SAME ELEVATION.
3. SOIL MUST BE COMPACTED UNDER "D" BOX TO PREVENT SETTLING.
4. MINIMUM INSIDE DIMENSION SHALL BE 12".

**LEACH FIELD NOTES:**

1. SIDES AND BOTTOM OF LEACHING FACILITY TO BE SCARIFIED.
2. BOTTOM OF LEACHING FACILITY MUST BE LEVEL.
3. PIPING MUST BE SCH 40 P.V.C. WITH TIGHT JOINTS.

**APPLICANT:** DOUG SCHOW

**LOCATION:** 11 HUNT ROAD SUDBURY, MA ASSESSORS MAP E09 & PARCEL 0128

NO.	DATE	REVISION	BY

**PROPOSED SEWAGE DISPOSAL SYSTEM**  
**CONNORSTONE ENGINEERING**  
 CONSULTING CIVIL ENGINEERS AND LAND SURVEYORS  
 10 SOUTHWEST CUTOFF, SUITE 7  
 NORTHBOROUGH, MASSACHUSETTS 01532  
 PHONE: 508-393-9727 WWW.CSEI.NET  
 121 BOSTON POST RD. SUDBURY, MA 01776  
 PHONE: 978-443-9566 WWW.SULLIVANCONNORS.COM  
 DATE: 09/21/23 SHEET 1 OF 1