

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-3165

Town, City, Plantation
AUGUSTA

Street, Road, Subdivision
67 HAYDEN RD.

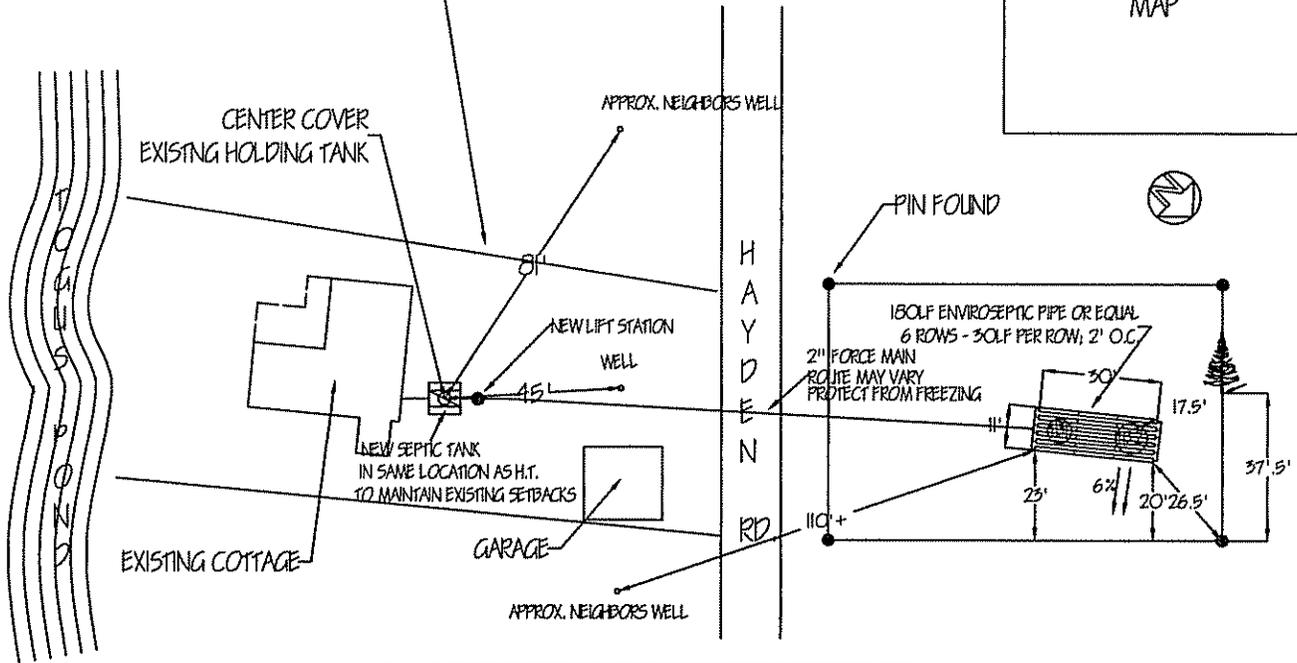
Owner's or Applicant Name
BRIAN HEATH

SITE PLAN Scale $1" = 50'$ Ft.
or as shown

SITE LOCATION PLAN
(Attach map from Maine Atlas for First Time System Variance)

NO SURVEY AVAILABLE
LOT LINES ARE APPROX.
CONFIRM BY SURVEY IF REQ'D

SEE
ATTACHED
MAP



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TB1 Test Pit Boring

Depth of Organic Horizon Above Mineral Soil _____

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	FINE SANDY LOAM	FRIABLE	DK BRN.	
10			REDDISH BROWN	FEW FAINT @ 15"
20	SILT LOAM	FIRM	OLIVE GRAY	
30				
40				
50				

Soil Classification	Slope	Limiting Factor	Ground Water
7 Profile	C Condition	6% Percent	15" Depth
			<input type="checkbox"/> Restrictive Layer
			<input type="checkbox"/> Bedrock

Observation Hole TB2 Test Pit Boring

Depth of Organic Horizon Above Mineral Soil _____

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	FINE SANDY LOAM	FRIABLE	DK BRN.	
10			REDDISH BROWN	FEW FAINT @ 15"
20	SILT LOAM	FIRM	OLIVE GRAY	
30				
40				
50				

Soil Classification	Slope	Limiting Factor	Ground Water
7 Profile	C Condition	6% Percent	15" Depth
			<input type="checkbox"/> Restrictive Layer
			<input type="checkbox"/> Bedrock

Paul A. Beers
Site Evaluator Signature

56
SE#

7/4/05
Date

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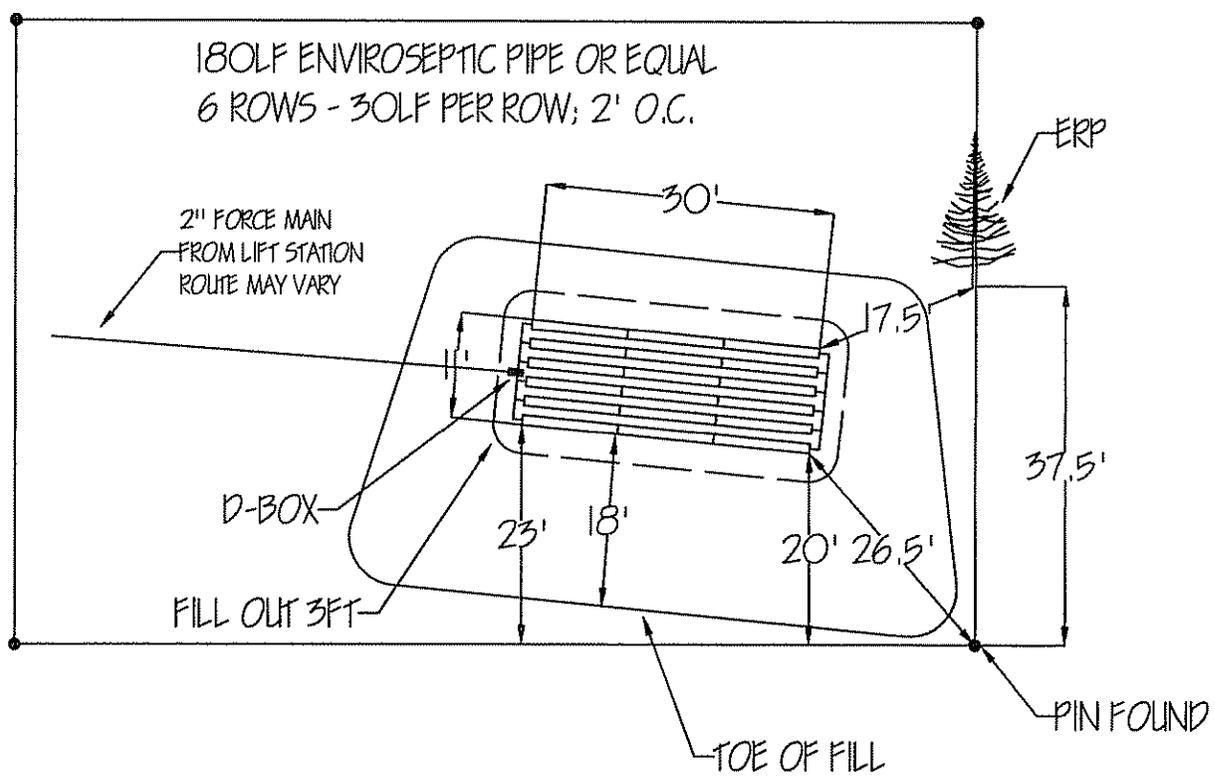
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AUGUSTA

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Owner or Applicant Name
BRIAN HEATH

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' FT



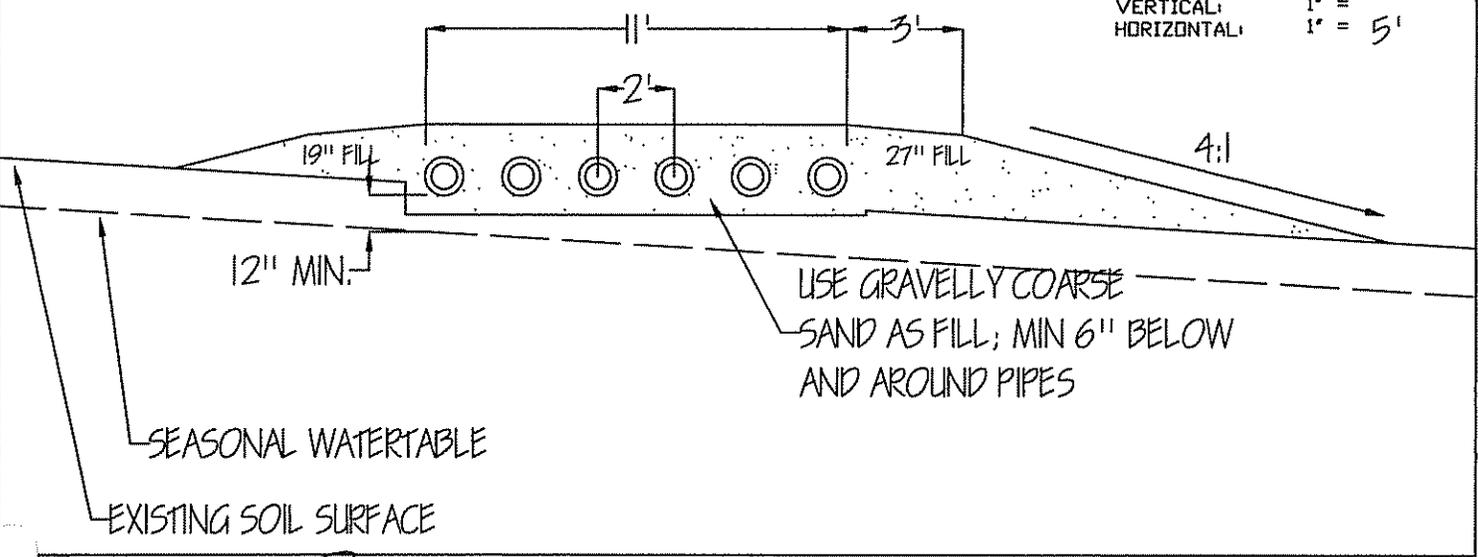
FILL REQUIREMENTS	
Depth of Fill (Upslope)	19"
Depth of Fill (Downslope)	27"
DEPTHS AT CROSS-SECTION (SHOWN BELOW)	

CONSTRUCTION ELEVATIONS	
Finished Grade Elevation	-38" + /
Top of Distribution Pipe or Proprietary Device	-48"
Bottom of Disposal Area	-60"

ELEVATION REFERENCE POINT
 Location & Description
 NAIL IN 8" PINE TREE
 46" UP FROM BASE
 Reference Elevation is 0.0"

DISPOSAL AREA CROSS SECTION

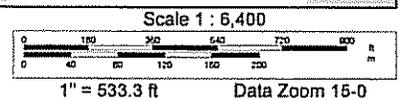
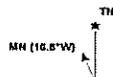
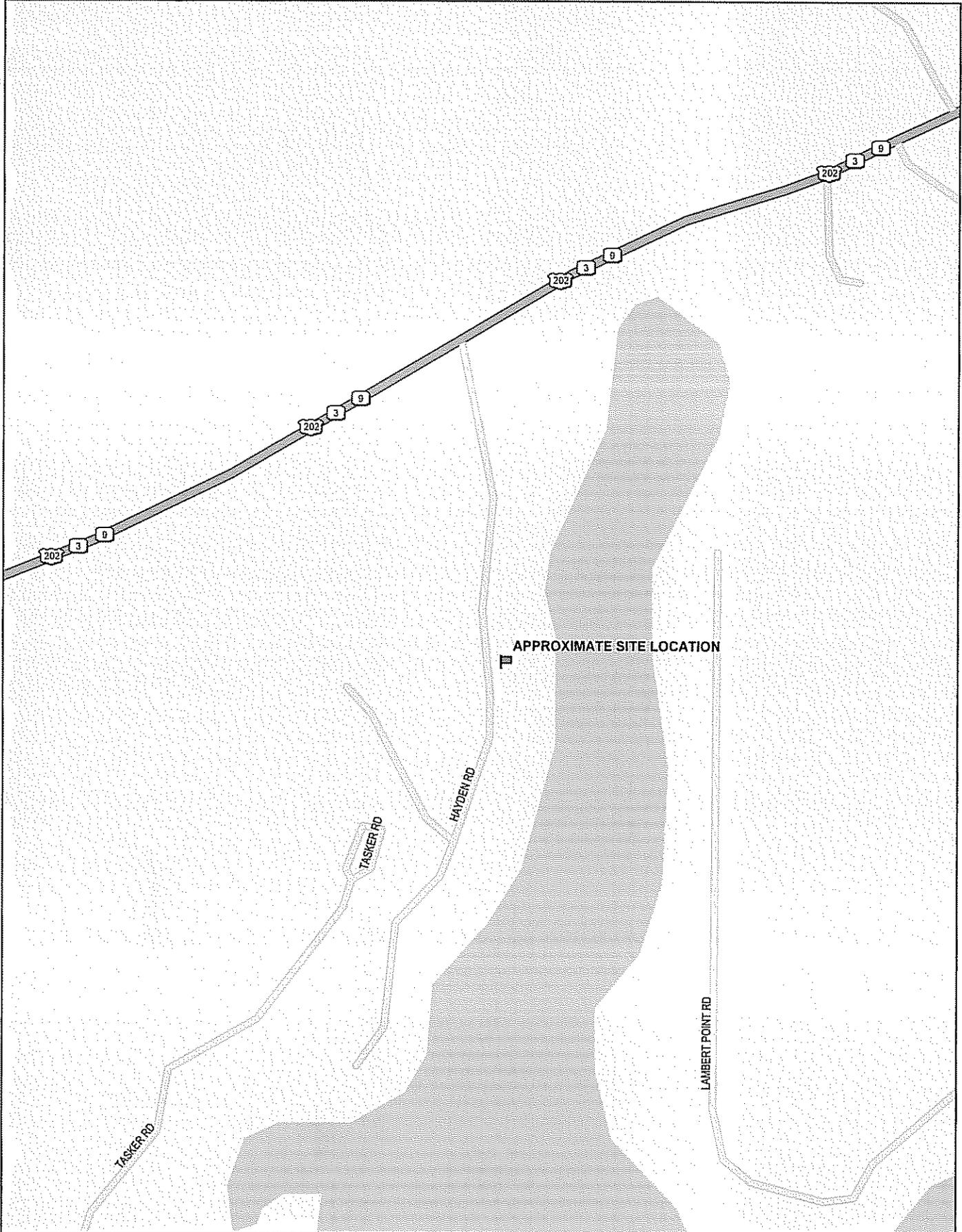
SCALE:
 VERTICAL: 1" = 5'
 HORIZONTAL: 1" = 5'



Jane C. Peters
 Site Evaluator Signature

56
 SE #

7/4/05
 Date



Paul A. Beers LSE, CSS
26 Fairview Street
Gardiner, ME. 04345
207-582-7400

August 2, 2005

Mr. Brian Heath
126 Western Ave. #260
Augusta, ME. 04330

Subject: Site Evaluation, Heath Property, 67 Hayden Rd., Augusta, Maine

Dear Mr. Heath:

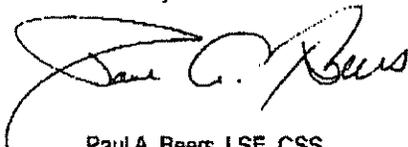
This to acknowledge a site evaluation conducted on the subject on July 2, 2005 by myself. The purpose of the evaluation was to determine the soil and site conditions and determine if the conditions meet the requirements for a seasonal conversion permit. The property consists of approximately 20,000 square feet that is the combined total of two parcels on opposite sides of the Hayden Road. The existing cottage is served by a holding tank and drilled well.

My investigation finds that the soils and site conditions meet the requirements for the installation of a subsurface wastewater disposal system on the portion of the property farthest from Togus Pond. The location of the existing holding tank is less than 100 ft from two of your neighbors wells and less than 50ft from your own well. Table 4 of CMR 242 establishes the minimum setbacks between a septic tank and owners and abutters wells. Notation b indicates that the setback to your own well can be reduced to down to 25ft if the septic tank is of monolithic construction. Notation f indicates that the septic tank cannot be closer to a neighbors well than an existing tank. My design calls for the installation of the new septic tank in the same location as the existing holding tank therefore no variances are required because the installation is no closer to the existing wells. This applies to setbacks to Togus Pond as well. Telephone conversations with the Division of Health Engineering confirm this as being correct. As an alternative, the existing holding tank may be converted into a septic tank with the installation of baffles if the tank is found to be in good condition and of monolithic construction.

At the time of my visit, a survey of the property was not available. Setbacks are as dimensioned. The distance from the tank to one neighbor's well was not indicated due to obstructions between the two. Again, the new tank will not be closer to this well than the existing holding tank. There are no setback issues between the proposed disposal system and the existing wells because they are greater than 100ft from the proposed installation.

I hope this provides you with the information desired. If you or others have any questions, please feel free to contact me.

Sincerely,



Paul A. Beers, LSE, CSS

Paul A. Beers LSE, CSS
26 Fairview Street
Gardiner, ME. 04345
207-582-7400

TOWN: **Augusta**

LOCATION: **67 Hayden Rd.**

APPLICANT'S NAME: **Brian Heath**

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system Installer and/or building contractor for further construction details and material specifications. The system installer should contact Paul A. Beers 582-7400, if there are any questions concerning materials, procedures or designs. The system Installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems. **Paul A. Beers does not have a financial interest in any proprietary product that may be specified as part of the attached design.**

2) This application is intended to represent facts pertinent to the Rules only. **It shall be the responsibility of the owner/applicant, system installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and minimum lot size laws) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations.**

Prior to the commencement of construction/installation, the local plumbing inspector shall inform the owner/applicant and Paul A. Beers of any local ordinances, which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Paul A. Beers's liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations In effect at the time of preparation of this application.

3). All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as, utility lines, drains, septic systems, water lines, etc.) are based solely upon information provided by the owner/applicant and has been relied upon by Paul A. Beers in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information.

4). Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter should be connected in series to the proposed septic tank.

5). The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment) and controlled or hazardous substances shall not be disposed of in this system.

) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than once every three years.

7) The actual water flow or number of bedrooms **shall not exceed the design criteria indicated on this application** without a re-evaluation of the system as proposed. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption (water usage (cu.ft.) x 7.48. (gallons per cu. ft.) .

8) The general minimum setback between a well and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.

9) When a gravity system is proposed: **BEFORE CONSTRUCTION/INSTALLATION BEGINS**, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum slope requirements. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area. When an effluent pump is required, provisions shall be made to make certain that surface ground water does not enter the septic tank or pump station. An alarm device warning of a pump failure shall be installed. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.

10) On all systems, remove the vegetation; organic duff and old fill material from under the disposal area and any fill extension. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact thoroughly before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off plastic chambers, leaching pipe or In-drains. Divert the surface water away from the disposal area by ditching or shallow swales.

11). Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5 % fines (silt and clay).

12). Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.

13). Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion.

Paul A. Beers LSE, CSS

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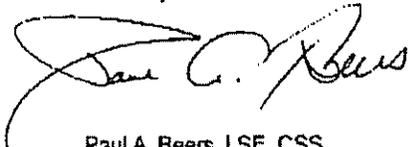
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