

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
SOILS								
Soil Profile 12	Ground Water Table			to 7"			20 inches	
Soil Condition from HHE-200	Restrictive Layer			to 7"			inches	
	Bedrock			to 12"			inches	
SETBACK DISTANCES (in feet)	Disposal Fields (total design flow)			Septic Tanks (total design flow)			Disposal Fields	Septic Tanks
From	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft [a]	300 ft [a]	300 ft [a]	100 ft [a]	100 ft [a]	100 ft [a]		
Owner's wells	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft	90'	Ex.
Neighbor's wells	100 down to 60 ft [b]	200 down to 120 ft [b]	300 down to 180 ft [b]	100 down to 50 ft [b]	100 down to 75 ft [b]	100 down to 75 ft [b]		
Water supply line	10 ft [a]	20 ft [a]	25 ft [a]	10 ft [a]	10 ft [a]	10 ft [a]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft	35'	
Water course, minor	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Edge of fill extension - Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]		
Slopes greater than 3:1	10 ft	18 ft	25 ft	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Property lines	10 down to 5 ft [c]	18 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]		
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		

OTHER

1. Fill extension Grade - to 3:1

2. Install system on filled site (38YRS) 24" separation over interpreted GWT. Placement further from lake places fill adjacent to home

3. creating drainage issues. Existing system terminates closer to lake than proposed system.

Footnotes: [a.] Single-family well setbacks may be reduced as prescribed in Section 701.2.

[b.] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction.

[c.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[d.] Additional setbacks may be required by local Shoreland zoning.

[e.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.

[f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.

[g.] The fill extension shall reach the existing ground before the 3:1 slope, or within 100 feet of the disposal field.

[h.] See Section 1402.10 for special procedures when these minimum setbacks cannot be achieved.

David C. Jones

 SITE EVALUATOR'S SIGNATURE

11/25/06

 DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (does does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

 SIGNATURE OF THE DEPARTMENT

 DATE

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

TOWN: Augusta

LOCATION: Rte 105

APPLICANT'S NAME: Elbridge Lacasse

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.
-) 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.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION		>>Caution: Permit Required - Attach in Space Below<<	
City, Town or Plantation	AUGUSTA	AUGUSTA	PERMIT # 5914 TOWN COPY
Set or Road	RTE 105/182 So. Wilbur Ave	Date Permit Issued: 12/26/06	\$ 9500 <input type="checkbox"/> Double Fee FEE Charged
Subdivision Lot #		<i>Yvonne R. Feath</i> Local Plumbing Inspector Signature	L.P.I. # 850
OWNER/APPLICANT INFORMATION			
NAME (last, first, MI)	LACASSE, ELBRIDGE <input checked="" type="checkbox"/> OWNER <input type="checkbox"/> APPLICANT		
MAILING ADDRESS of OWNER/APPLICANT	BOX 113 WINDSOR, ME. 04363		
Daytime Tel. #	207-622-3390	Municipal Tax Map # 64	Lot # 18 LR

<p style="text-align: center;">OWNER OR APPLICANT STATEMENT</p> <p>I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit</p> <p><i>Elbridge Lacasse</i> Signature of Owner or Applicant 12-7-06 Date</p>	<p style="text-align: center;">Caution: Inspection Required</p> <p>I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application</p> <p><i>Yvonne R. Feath</i> Local Plumbing Inspector Signature 12/19/07 (1st) Date Approved 2/14/07 (2nd) Date Approved</p>
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PERMIT INFORMATION

<p>TYPE OF APPLICATION:</p> <p><input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type Replaced <u>TRENCH</u> Year Installed <u>1968</u> <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. minor expansion <input type="checkbox"/> b. major expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion</p> <p>SIZE OF PROPERTY 15,750 <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> acres</p> <p>SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>THIS APPLICATION REQUIRES:</p> <p><input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector approval <input type="checkbox"/> b. State & Local Plumbing Inspector approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector approval <input type="checkbox"/> b. State & Local Plumbing Inspector approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Approval</p> <p>DISPOSAL SYSTEM TO SERVE:</p> <p><input checked="" type="checkbox"/> 1. Single Family Dwelling Unit No. of Bedrooms <u>2</u> <input type="checkbox"/> 2. Multiple Family Dwelling: Number of Units _____ <input type="checkbox"/> 3. Other _____ (Specify) Current Use: <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped</p>	<p>DISPOSAL SYSTEM COMPONENT(S)</p> <p><input type="checkbox"/> 1. Non-Engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-Engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank _____ Gallons <input checked="" type="checkbox"/> 6. Non-Engineered Disposal Area (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Area (only) <input type="checkbox"/> 11. Pretreatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous components</p> <p>TYPE OF WATER SUPPLY</p> <p><input type="checkbox"/> 1. Drilled Well <input checked="" type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other</p>
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DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

<p>TREATMENT TANK</p> <p><input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other _____</p> <p>CAPACITY <u>EXISTING</u> Gallons</p>	<p>DISPOSAL FIELD TYPE & SIZE</p> <p><input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. Cluster Array <input checked="" type="checkbox"/> c. Linear <input type="checkbox"/> b. Regular Load <input type="checkbox"/> d. H-20 <input type="checkbox"/> 4. Other _____</p> <p>Size <u>150</u> <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> lin. ft.</p>	<p>GARBAGE DISPOSAL UNIT</p> <p><input checked="" type="checkbox"/> 1. NO <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. Multi-compartment tank <input type="checkbox"/> b. _____ Tanks in series <input type="checkbox"/> c. Increase in tank capacity <input type="checkbox"/> d. Filter on tank outlet</p>	<p>DESIGN FLOW</p> <p><u>180</u> Gallons per day Based On: <input checked="" type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) Show Calculations -- for other facilities--</p>
<p>SOIL DATA & DESIGN CLASS</p> <p>PROFILE <u>12</u> • CONDITION <u>C</u> • DESIGN <u>3</u></p> <p>at Observation Hole # _____ Depth <u>20</u> _____ OF MOST LIMITING SOIL FACTOR <u>N/R</u></p>	<p>DISPOSAL AREA SIZING</p> <p><input type="checkbox"/> 1. Small --- 2.00 sq. ft. /gpd <input checked="" type="checkbox"/> 2. Medium --- 2.60 sq. ft. /gpd <input type="checkbox"/> 3. Medium-Large --- 3.30 sq. ft. /gpd <input type="checkbox"/> 4. Large --- 4.10 sq. ft. /gpd <input type="checkbox"/> 5. Extra-Large --- 5.00 sq. ft. /gpd</p>	<p>EFFLUENT/EJECTOR PUMP</p> <p><input type="checkbox"/> 1. Not required <input type="checkbox"/> 2. May Be Required <input checked="" type="checkbox"/> 3. Required >> Specify Only for Engineered or Experimental Systems</p> <p>DOSE _____ Gallons</p>	<p><input type="checkbox"/> 3. Section 503.0 (meter readings) ATTACH WATER-METER DATA</p> <p>LATITUDE AND LONGITUDE at center of disposal area Lat. <u>N44</u> d. <u>18</u> m. <u>02</u> s Lon. <u>W69</u> d. <u>39</u> m. <u>90</u> s If g.p.s., state margin of error: <u>9ft</u></p>

SITE EVALUATOR'S STATEMENT

I CERTIFY that on 11/24/06 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241)

<i>Paul A. Beers</i> Site Evaluator Signature	# <u>56</u> SE #	<u>11/25/06</u> Date
PAUL A. BEERS Site Evaluator Name Printed	<u>207-582-7400</u> Telephone Number	<u>decaycvr@msn.com</u> E-Mail Address

Note: Changes to or deviations from design should be confirmed with the Site Evaluator
 HHE-200 Rev. 4/05

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
RTE 105.

Owner's or Applicant Name
ELBRIDGE LACASSE

SITE PLAN Scale 1" = 50' Ft.

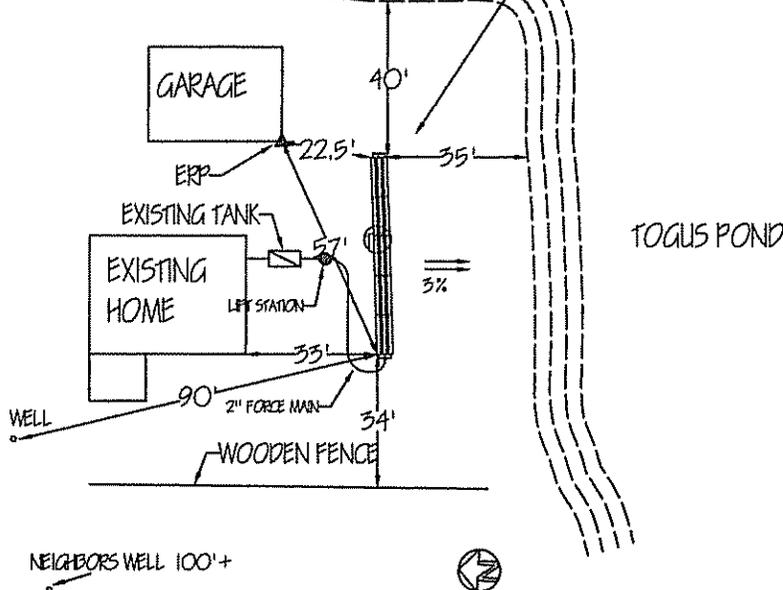
SITE LOCATION PLAN
(Attach map from Maine Atlas for First Time System Variance)

150LF ENVIROSEPTIC PIPE OR EQUAL
or as shown
3 ROWS - 50LF PER ROW; 1.5' O.C.

SEE
ATTACHED
MAP

R
T
E

1
0
5



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

Observation Hole Test Pit Boring
Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	SILT LOAM	FRIABLE	DK BRN.	
10	GR. MED. SAND (FILL)		BROWN	ASSUMED @ 20" FROM MAX. LAKE LEVEL
20				
30				
40				
50				

Observation Hole Test Pit Boring
Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water
12	4 %	20'	<input type="checkbox"/> Restrictive Layer
Profile	Condition	Percent	Depth
			<input type="checkbox"/> Bedrock

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

Paul A. Beers
PAUL A. BEERS
Site Evaluator Signature

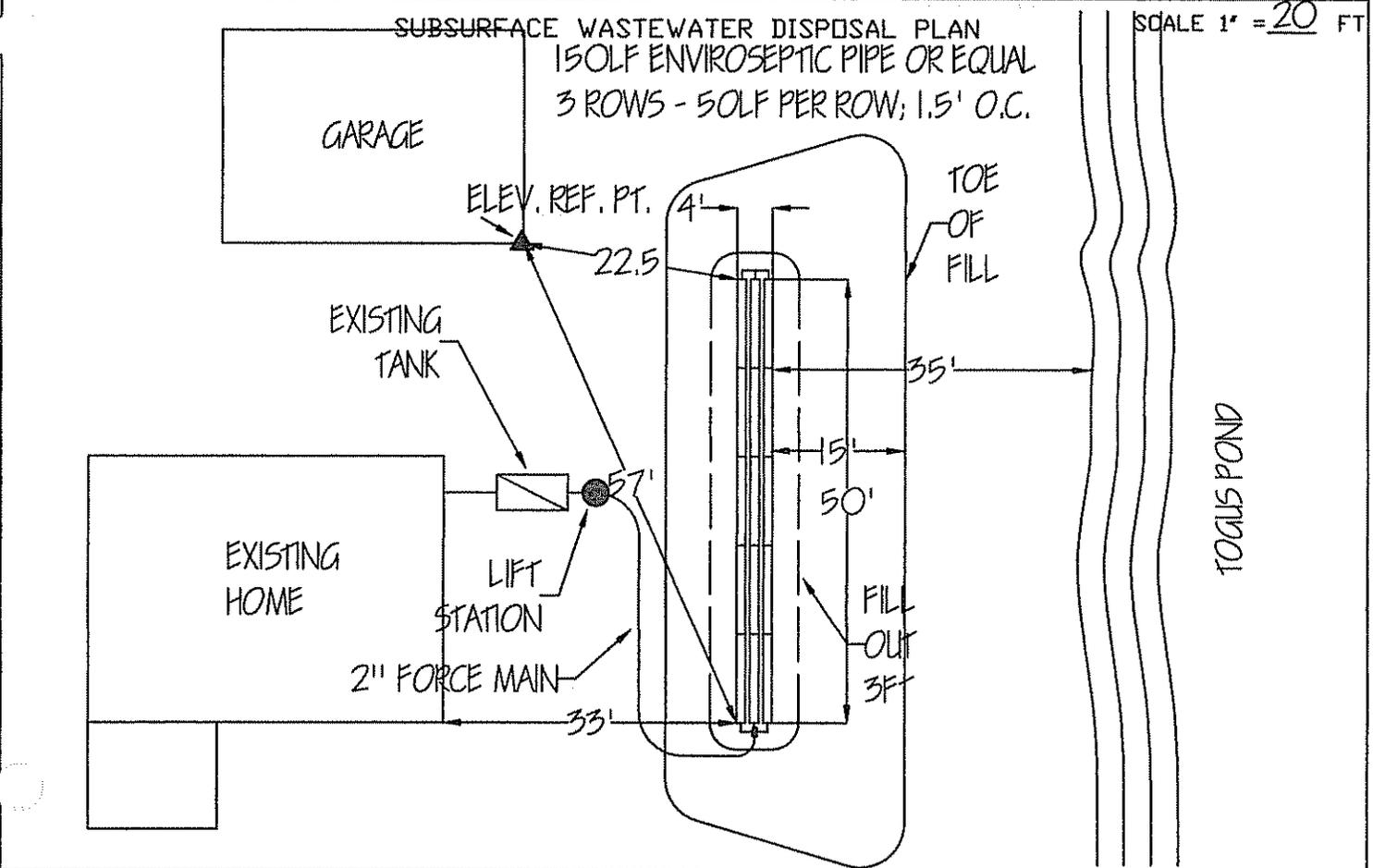
56
SE#

11/25/06
Date

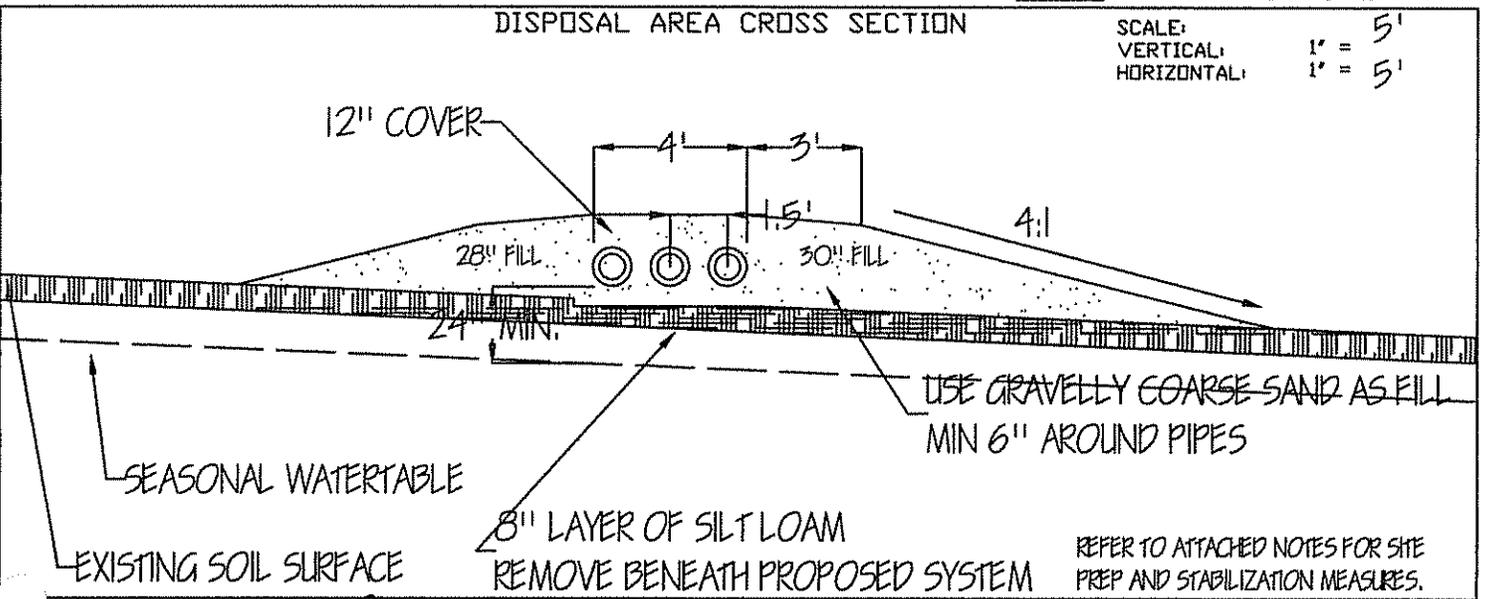
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation: **AUGUSTA** Street, Road, Subdivision: **RTE 105** Owner or Applicant Name: **ELBRIDGE LACASSE**



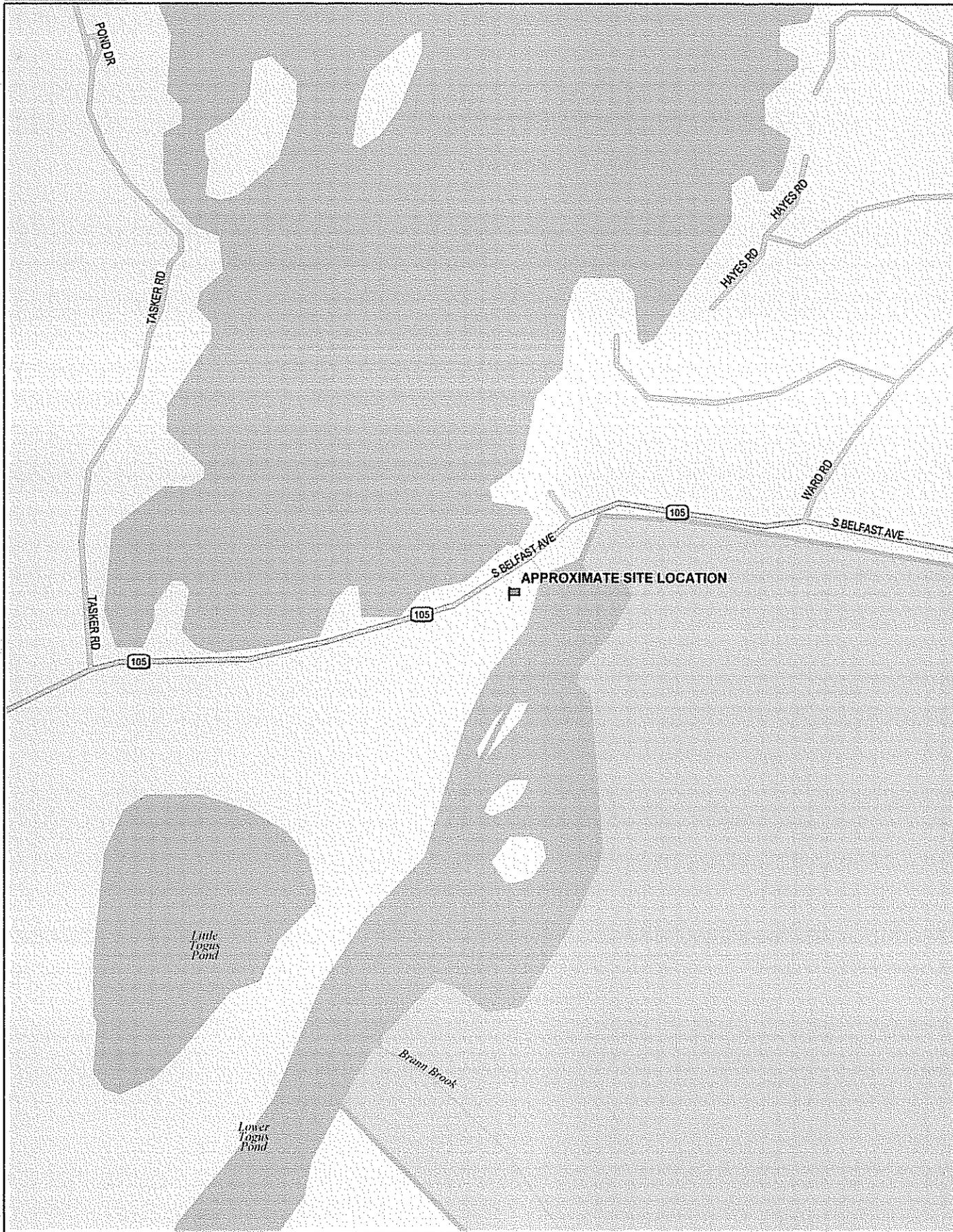
FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT
Depth of Fill (Upslope) <u>28"</u>	Finished Grade Elevation <u>-32" + /</u>	Location & Description
Depth of Fill (Downslope) <u>30"</u>	Top of Distribution Pipe or Proprietary Device <u>-44"</u>	NAIL IN CORNER TRIM
DEPTHS AT CROSS-SECTION (SHOWN BELOW)	Bottom of Disposal Area Device <u>-56"</u>	4" UP FROM BOTTOM
		Reference Elevation is 0.0"



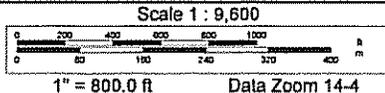
Jane C. Rogers
 Site Evaluator Signature

56
 SE #

11/25/06
 Date



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 www.delorme.com





John Elias Baldacci
Governor

Maine Department of Health and Human Services

Maine Center for Disease Control and Prevention
286 Water Street, 3rd Floor
11 State House Station
Augusta, ME 04333-0011

Brenda M. Harvey,
Commissioner

Dora Anne Mills, MD, MPH
Public Health Director
Maine CDC Director

December 26, 2006

Elbridge Lacasse
Box 113
Windsor, ME 04363

Subject: Approval, Replacement System Variance Request, Lacasse Property, Route 105, Augusta

Dear Mr. Lacasse:

We have completed our review of an HHE-200 Form dated 11/125/06 by Paul A. Beers, S.E. for your property at Togus Pond. You are proposing to replace a trench system, with a disposal area comprised of three rows fabric wrapped pipe, 50 feet long, each. An existing septic tank would continue to be used. The following variances to the Maine Subsurface Wastewater Disposal Rules, CMR 241 are requested:

Variances within the authority of the Local Plumbing Inspector:

1. To install a disposal area set back 90 feet from the owner's well.

Variances beyond the authority of the Local Plumbing Inspector:

1. To install a disposal area set back 35 feet from the normal high water mark of a major water body pursuant to Section B.2.b of the Division's *Policy Regarding Replacement System Variances in Close Proximity to Waterbodies/Courses and/or Wells*.

By copy of this letter we hereby authorize the Local Plumbing Inspector to issue a permit for the replacement system installation as proposed on the above referenced HHE-200 Form, with the following conditions:

1. The existing septic tank shall be inspected for volume, condition, and due to proximity to the pond, water-tightness prior to use of the proposed disposal area. If found lacking in any of these criteria, a new septic tank conforming to the Rules shall be installed
2. The fill extensions shall be immediately stabilized with coco-mat or a similarly effective material, and silt fence shall be installed between the fill extensions and the normal high water mark in conformance with industry accepted practices.

Work must be completed within two years of permit issue and you or your installer are responsible to notify the local plumbing inspector when you are ready for the necessary construction inspections. In all aspects beyond those noted in this letter the installation shall conform to the requirements of the Rules.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of the system.

Should you or others have any questions, please feel free to contact me at 287-5695.

Sincerely,

James A. Jacobsen, Environmental Specialist IV
Subsurface Wastewater Program
Division of Environmental Health
e-mail: james.jacobsen@maine.gov

/jaj

xc: File
Gary R. Fuller, LPI
Paul Beers, SE via e-mail

Our vision is Maine people enjoying safe, healthy and productive lives.