

called 2-7-96

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# REPLACEMENT SYSTEM VARIANCE REQUEST

## THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application for the proposed replacement system which does not comply with the Rules. The LPI shall review the Replacement System Variance Request and Application and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

1. The proposed design meets the definition of a Replacement System from the rules.
2. A system cannot be designed and installed in total compliance with the Rules.
3. The design flow is less than 500 GPD.
4. There will be no change in use of the structure.
5. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.

TOWN COPY

### GENERAL INFORMATION

Permit No. 3399 E Town of Augusta  
 Date Permit Issued 2/6/96 MONTH/DAY/YEAR  
 Property Owner's Name: Brian Curtis Tel. No. 594-4071  
 System's Location: Albee Rd. STREET  
Augusta TOWN Maine 04330 ZIP  
 Property Owner's Address: HC 32, Box 221A STREET  
 (if different from above) Owls Head TOWN Maine STATE 04854 ZIP

### SPECIFIC INSTRUCTIONS TO THE:

**LPI:**  
 If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, they you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

**SITE EVALUATOR:**  
 If after completing the Application, you find that a variance for the proposed replacement system is needed, then complete the Replacement Variance Request with your signature on reverse side of form.

**PROPERTY OWNER:**  
 It has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in total compliance with the Rules is not possible.

The OWNER shall sign this statement. Therefore, having read both this Replacement Variance Request and the attached Application, I understand that the proposed system is not in total compliance with the Rules and hereby release all those concerned with this Variance, provided they have performed their duties in a reasonable and proper manner.

Brian Curtis PROPERTY OWNER'S SIGNATURE 1-31-96 DATE

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS	Ground Water Table	to 6"		11"	Inches
	Restrictive Layer	to 6"			Inches
	Iron HHE-200	to 10"			Inches
SETBACK DISTANCES (IN FEET)	FROM:	TREATMENT TANK	DISPOSAL AREA	TREATMENT TANK	DISPOSAL AREA
Potable Water Supplies	1. Well: > 2000 gal/day	100'	300'		
	2. Well: < 2000 gal/day				
	a. Neighbor's	50' <sup>b</sup>	60' <sup>b</sup>		
	b. Property Owner's	25'	50'		
	3. Water Supply Line	See note 'a'			
Waterbodies	1. Perennial <u>pond</u>	50' <sup>*</sup>	60'	75'(min)	
	2. Intermittent	15'	20'		
	3. Manmade drainage ditch	10'	15'		
Downhill Slope	Greater than 3:1 (33%)	5' <sup>c</sup>	10' <sup>c</sup>		
Buildings	1. With Basement	5'	10'		
	2. Without Basement	5'	10'		
Property Line		4'	5'		

\*25' if certified watertight by LPI

**OTHER**

1. Fill extension Grade—to 3:1

2.

3.

**Footnotes:**

- a. This setback distance cannot be reduced by variance. See Table 6-2.
- b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 feet but closer to that well than the system it is replacing.
- c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope.

Houglan W. Messervey  
SITE EVALUATOR'S SIGNATURE

1-25-96  
DATE

**LPI STATEMENT**

I, Hay R. Lulka, LPI for the Town of Augusta have conducted an on-site inspection for the proposed replacement system and have determined to the best of my knowledge, that it cannot be installed in total compliance with the Rules, applicable Municipal Wastewater Disposal Ordinances, or the Local Shoreland Zoning Ordinance. As a result of my review of the Replacement System Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

a. (  approve,  disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in Comments Section below and return to the applicant.

—OR—

b. find that one or more of the requested Variances exceeds my approval authority as LPI. I (  recommend  do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, he shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments:

Hay R. Lulka  
LPI'S SIGNATURE

2/6/96  
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

594-4071

m74 41

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering  
(207) 287-5672 FAX (207) 287-4172

PROPERTY LOCATION	
1 or 2 Station	Augusta
Street	Albee Road
Subdivision Lot #	
PROPERTY OWNERS NAME	
Last: Curtis	First: Brian
Mailing Address of Owner	HC 32, Box 221A Owls Head, ME 04854
Daytime Tel. #	(207) 594-4071

AUGUSTA	3399	TOWN COPY
Date Permitted Issued: 8/6/96	\$ 80.00	<input type="checkbox"/> FEE Double Fee Charged
Local Plumbing Inspector Signature: <i>Mary R. Fuller</i>		L.P.I. # 850

**Owner Statement**

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.

*Brian M. Curtis* 1-31-96  
Signature of Owner/Applicant Date

**Caution: Inspection Required**

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

*Mary R. Fuller* 8/7/96  
Local Plumbing Inspector Signature Date Approved

### PERMIT INFORMATION

**THIS APPLICATION IS FOR:**

- First Time System
- Multi-User System
- Replacement System
- Expanded System
  - One-time exempted
  - Non-exempted
- Experimental System
- Seasonal Conversion

**THIS APPLICATION REQUIRES:**

- No Rule Variance
- First Time System Variance (Municipal)
- First Time System Variance (State)
- Replacement System Variance
  - Local Plumbing Inspector approval
  - State & Local Plumbing Inspector approval
- Minimum Lot Size Variance
- Seasonal Conversion Variance

**DISPOSAL SYSTEM COMPONENT(S)**

- Non-Engineered System
- Primitive System
- Alternative Toilet  
Specify \_\_\_\_\_
- Non-Engineered Treatment Tank
- Holding Tank \_\_\_\_\_ Gallons
- Non-Engineered Disposal Area (only)
- Separated Laundry System
- Engineered System (+2000 gpd)
- Engineered Treatment Tank (only)
- Engineered Disposal Area (only)

**SIZE OF PROPERTY**

2 ± AC

**DISPOSAL SYSTEM TO SERVE:**

- Single Family Dwelling Unit
- Multiple Family Dwelling Unit  
Number of Units \_\_\_\_\_
- Other \_\_\_\_\_  
SPECIFY \_\_\_\_\_

**SHORELAND ZONING**

Yes  No

(Lake TYPE OF WATER SUPPLY  
Drilled well proposed)

### DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

**TREATMENT TANK**

- Concrete
  - Regular
  - Low Profile
- Plastic

SIZE 1000 Gallons

**DISPOSAL AREA TYPE/SIZE**

- Stone Bed \_\_\_\_\_ Sq. Ft.
- Proprietary Device 27 Sq. Ft.
  - Clustered  Linear
  - Regular  H-20
- Trench \_\_\_\_\_ Lin. Ft.
- Other \_\_\_\_\_

**GARBAGE DISPOSAL UNIT**

- No
- Yes
  - Multi-compartment tank
  - Tank in series
  - Increase in tank capacity
  - Filter on tank outlet

**CRITERIA USED FOR DESIGN FLOW**  
(Show Calculations)

3 bedroom home

DESIGN FLOW: 270 (Gallons/Day)

**PROFILE & DESIGN CLASS**

PROFILE 9 DESIGN C/D

DEPTH TO MOST LIMITING FACTOR 11-18"

**DISPOSAL AREA SIZING**

- Small 2.0
- Medium 2.60
- Medium-Large 3.30
- Large 4.10
- Extra-Large 5.00

**PUMPING**

- Not required
- May be required
- Required

DOSE 90 ± Gallons

### SITE EVALUATOR'S STATEMENT

On 11/28/95 (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 Subsurface Wastewater Disposal Rules.

*Douglas W. Meservey*  
Site Evaluator Signature  
**DOUGLAS W. MESERVEY**  
Print Name

13  
SE #  
(207) 832-5114  
Telephone

1-22-96  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

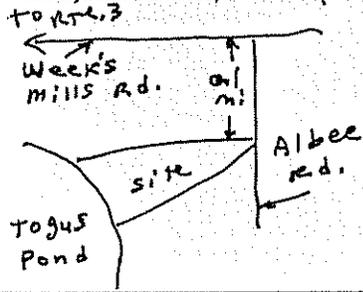
Department of Human Services  
Division of Health Engineering

Town, City, Plantation <b>Augusta.</b>	Street, Road, Subdivision <b>Albee Road</b>	Owners Name <b>Brian Curtis</b>
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## SITE PLAN

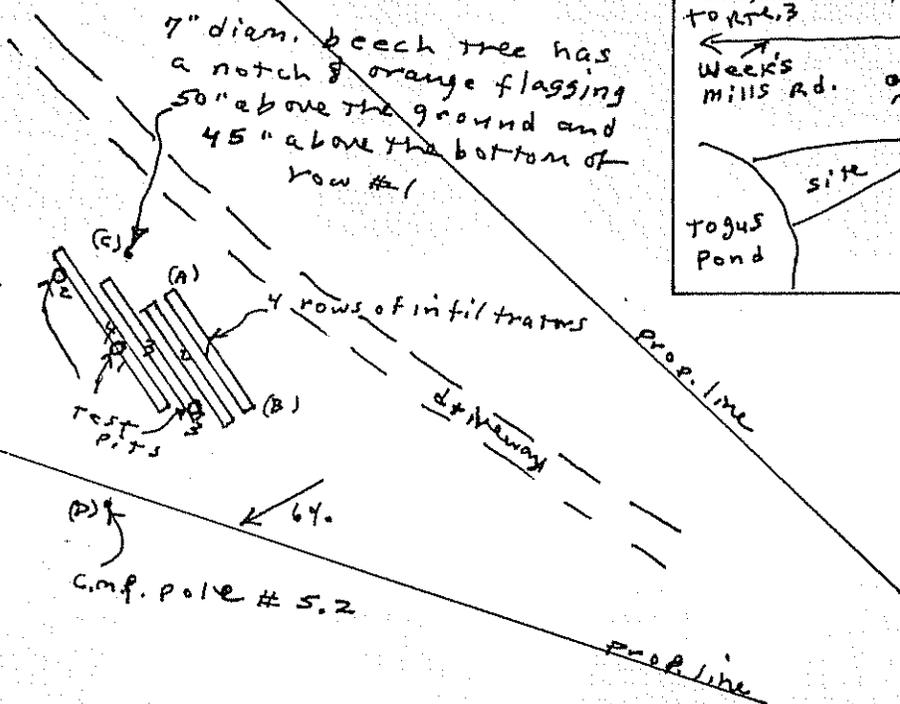
Scale 1" = 50 Ft.

SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)



NOTE: EXISTING house near the pond will be renovated or torn down with a new home build farther from the water.

PUMP & remove old septic tank; place new tank 75' min from pond high water line.



## TABLE OF MEASUREMENTS

AC = 14' ±  
AD = 57' ±  
BC = 51' ±  
BD = 45' ±

## SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

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

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

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	loam		DK. BRN.	
6			Brown to	
10	silt-loam	friable	Yel-brn	
15				
20	silt		olive-brn to	few, faint
25	silt+s		gray-brown	
30				
40				
50				

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
6				
10	NOTE: test pits 2 & 3 revealed mottling at 11" and 12" below the mineral soil surface			
15				
20				
30				
40				
50				

Soil Profile <b>9</b>	Classification Condition <b>C</b>	Slope <b>6 %</b>	Limiting Factor <b>18</b>	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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Soil Profile <b>9</b>	Classification Condition <b>D</b>	Slope <b>6 %</b>	Limiting Factor <b>11-12"</b>	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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*Hughes W. Meservey*  
Site Evaluator Signature

13  
SE#

1-22-96  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Owners Name

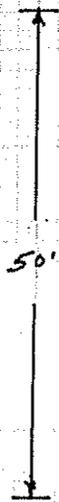
Augusta

Albee Road

Brian Curtis

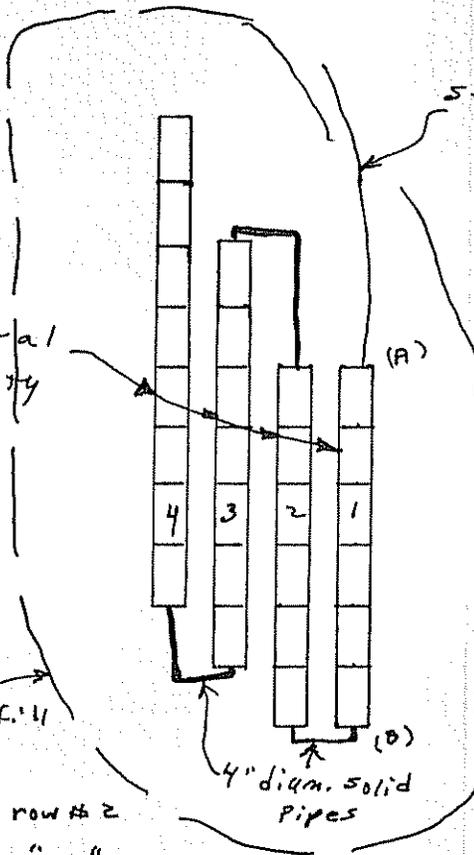
## SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.



4 rows with a total of 27 high capacity 16" infiltrators.

Limit of fill



NOTE: ROW # 3 is set in 6 1/4' from row # 2.  
Row # 4 " " " 12 1/2' " " "

Row #	1	2	3	4	5
Bottom of Infil.	-45"	-49"	-53"	-57"	X
Top of Infil.	-29"	-33"	-37"	-41"	X

### FILL REQUIREMENTS

Depth of Fill (Upslope) 32"  
Depth of Fill (Downslope) 37"

### CONSTRUCTION ELEVATIONS

Reference Elevation is 0  
Bottom of Disposal Area       
Top of Distribution Lines or Chambers     

### ELEVATION REFERENCE POINT LOCATION & DESCRIPTION

Notch in a beech tree  
(pt. 'c' in site plan)

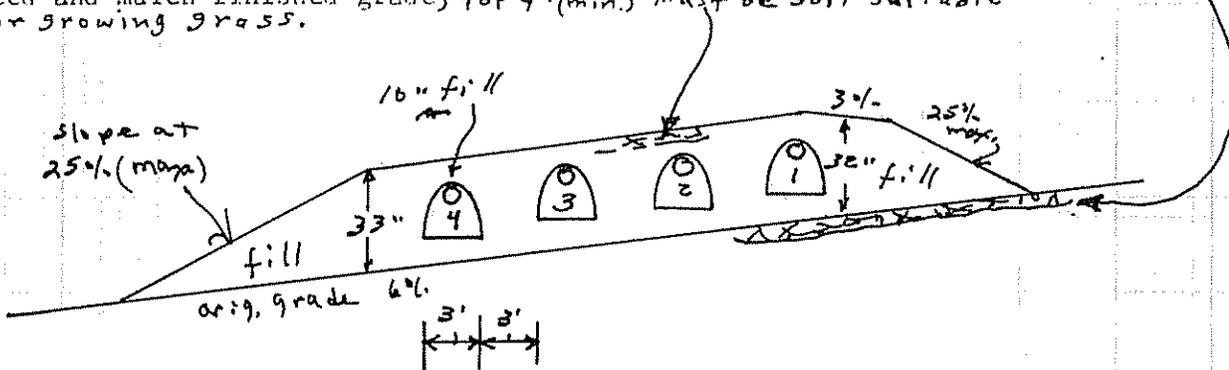
Scale:

Vertical: 1 inch = 5 Ft.  
Horizontal: 1 inch = 10 Ft.

### Notes:

- 1) Use Coarse Sand or Gravelly Coarse Sand fill (clean, free of debris).
- \* 2) Use ditch or fill upslope to divert surface water.
- 3) Bottom of infiltrators must be 18" (min.) above mottling.
- 4) Remove vegetation and scarify soil beneath disposal area; mix fill into top 4" (min.) of existing soil.
- 5) Seed and mulch finished grade; top 4" (min.) must be soil suitable for growing grass.

### DISPOSAL AREA CROSS SECTION



Walter W. Meservey  
Site Evaluator Signature

13  
SE#

1-25-96  
Date