

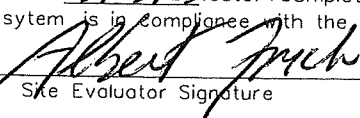
# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, Station 10 SHS  
(207) 287-5672 FAX (207) 287-4172

PROPERTY LOCATION		>> Caution: Permit Required - Attach In Space Below <<	
City, Town, or Plantation	PEAKS ISLAND	The Subsurface Wastewater Disposal System <b>shall not</b> be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.	
Street or Road	ISLAND AVE/ OCEAN AVE		
Subdivision, Lot *			
OWNER/APPLICANT INFORMATION			
Name (last, first, MI)	ROBERTS CHRIS Owner Applicant		
Mailing Address of <input type="checkbox"/> Owner <input type="checkbox"/> Applicant	379 ISLAND AVE PEAKS ISLAND, ME		
Daytime Tel. *		Municipal Tax Map * 90	Lot * 11213
Owner or Applicant Statement		Caution: Inspections Required	
I state and acknowledge 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.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.	
Signature of Owner/Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (1st) Date Approved _____ (2nd) Date Approved _____	

PERMIT INFORMATION			
<b>TYPE OF APPLICATION</b> 1. <input checked="" type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: _____ Year Installed: _____ 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	<b>THIS APPLICATION REQUIRES</b> 1. <input checked="" type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. <input type="checkbox"/> Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	<b>DISPOSAL SYSTEM COMPONENTS</b> 1. <input checked="" type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ Gallons 6. <input type="checkbox"/> Non-Engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000gpd+) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Field (only) 11. <input type="checkbox"/> Pre-treatment, specify: 12. <input type="checkbox"/> Miscellaneous components	
<b>SIZE OF PROPERTY</b> 13,362 SQ. FT. <input type="checkbox"/> sq. ft. <input type="checkbox"/> acres	<b>DISPOSAL SYSTEM TO SERVE</b> 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>2</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY _____ Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	<b>TYPE OF WATER SUPPLY</b> 1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other:	
<b>SHORELAND ZONING</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
<b>TREATMENT TANK</b> 1. <input checked="" type="checkbox"/> Concrete a. <input checked="" type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY <u>1000</u> gallons	<b>DISPOSAL FIELD TYPE &amp; SIZE</b> 1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input checked="" type="checkbox"/> Linear b. <input checked="" type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: SIZE <u>720</u> sq. ft. <input type="checkbox"/> lin. ft. <b>15 ELJEN IN DRAIN UNITS</b>	<b>GARBAGE DISPOSAL UNIT</b> 1. <input checked="" type="checkbox"/> No 3. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi-compartment tank b. <input type="checkbox"/> _____ tanks in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet	<b>DESIGN FLOW</b> <u>180</u> gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS - for other facilities -  <b>2 BEDROOMS AT 90 GALLONS PER DAY EACH</b>  3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE CONDITION DESIGN <u>3</u> / <u>D</u> / <u>3</u> AT Observation Hole * <u>TP 1</u> Depth <u>14</u> " OF MOST LIMITING SOIL FACTOR	<b>DISPOSAL FIELD SIZING</b> 1. <input type="checkbox"/> Small - 2.0 sq.ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq.ft./gpd 3. <input checked="" type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	<b>PUMPING</b> 1. <input type="checkbox"/> Not required 2. <input checked="" type="checkbox"/> May be required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: _____ Gallons	

SITE EVALUATOR STATEMENT		
I certify that on <u>5/25/05</u> (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 (10-144A CMR 241).		
 Site Evaluator Signature	<u>163</u> SE *	<u>10/25/2005</u> Date
<u>ALBERT FRICK</u> Site Evaluator Name Printed ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563 Note: Changes to or deviations from the design should be confirmed with the Site Evaluator	<u>(207) 839-5563</u> Telephone Number	<u>AFA@MAINERR.COM</u> E-mail Address

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Town, City, Plantation  
**PEAKS ISLAND**

Street, Road Subdivision  
**ISLAND AVE/ OCEAN AVE**

Owner's Name  
**CHRIS ROBERTS**

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

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

APPROXIMATE PROPOSED DWELLING LOCATION (WITH BASEMENT)

APPROXIMATE PROPOSED GARAGE LOCATION

APPROX. PROPOSED DRIVEWAY

PROPOSED DISPOSAL AREA

APPROX. PROPOSED PORCH (ON POSTS)

ERP: UTILITY POLE

ISLAND AVE

OCEAN AVE

OCEAN

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

Observation Hole TP 1  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0			DARK BROWN	
10	SANDY LOAM	FRIABLE	DARK YELLOW BROWN	
20		FIRM	OLIVE BROWN	FREE WATER COMMON, DISTINCT
30				
40				
50				

Soil Classification: 3 Profile, D Condition

Slope: \_\_\_\_\_ %

Limiting Factor: 14 "  Ground Water,  Restrictive Layer,  Bedrock,  Pit Depth

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: \_\_\_\_\_ Profile, \_\_\_\_\_ Condition

Slope: \_\_\_\_\_ %

Limiting Factor: \_\_\_\_\_  Ground Water,  Restrictive Layer,  Bedrock,  Pit Depth

*Albert Frick*  
 Site Evaluator Signature

163  
 SE \*

10/25/2005  
 Date

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## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.

VERIFY WATERLINE LOCATION TO ASSURE MIN. 10' SETBACK FROM DISPOSAL AREA

APPROXIMATE PROPOSED DWELLING LOCATION (20' MIN. FROM DISPOSAL AREA)

PORCH (ON POSTS)

NEW 1000 GALLON CONCRETE SEPTIC TANK LOCATE WHERE FEASIBLE, 8' MIN. FROM BUILDING STRUCTURE SET AT HIGH ENOUGH ELEVATION TO PROVIDE GRAVITY FLOW

APPROXIMATE TOE OF FILL

DISTRIBUTION BOX

APPROXIMATE PROPOSED GARAGE (ON SLAB)

ERP: UTILITY POLE

PROPOSED DISPOSAL AREA (15 ELJEN IN-DRAIN UNITS)

EXISTING GRADE AT CORNER

CROSS SECTION

APPROXIMATE PROPOSED DRIVEWAY

OCEAN AVE

I.P.F.

100'

I.P.F.

### FILL REQUIREMENTS

Depth of Fill (Upslope) : 34"  
 Depth of Fill (Downslope) : 34" - 35"  
 DEPTHS AT CROSS-SECTION (shown below)

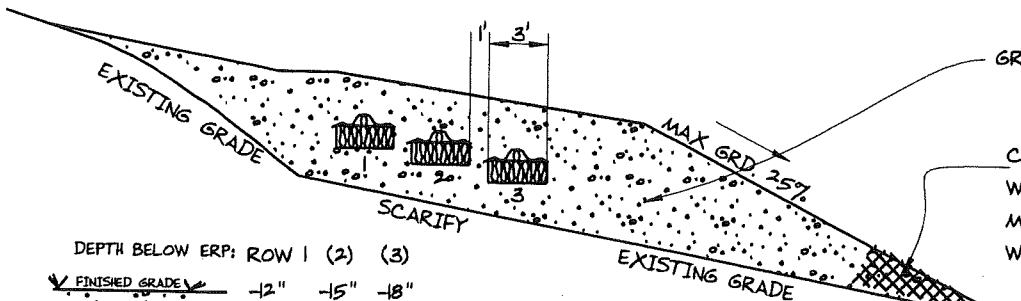
### CONSTRUCTION ELEVATIONS

Finished Grade Elevation  
 Top of Distribution Pipe or Proprietary Device  
 Bottom of Disposal Area

SEE  
 DETAIL  
 BELOW

ELEVATION REFERENCE POINT  
 Location & Description NAIL 17" ABOVE  
 BASE OF UTILITY POLE  
 Reference Elevation is: 0.0" or -----

### DISPOSAL AREA CROSS SECTION



SCALE:  
 VERTICAL: 1" = 5 FT  
 HORIZONTAL: 1" = 10 FT

GRAVELLY COARSE SAND

CAP TOE OF FILL WITH SANDY LOAM MATERIAL TO PREVENT WASTEWATER BREAKOUT

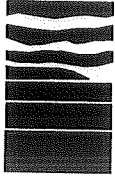
DEPTH BELOW ERP: ROW 1 (2) (3)

Layer	Row 1	Row 2	Row 3
FINISHED GRADE	-12"	-15"	-18"
CLEAN FILL	-24"	-27"	-30"
GEOTEXTILE FABRIC	-28"	-31"	-34"
OVER 4" DIA. PERF. PIPE	-35"	-38"	-41"
ELJEN IN-DRAIN UNIT	-41"	-44"	-47"

*Albert Frick*  
 Site Evaluator Signature

163  
 SE #

10/25/2005  
 Date



**Albert Frick Associates, Inc.**

**Soil Scientists & Site Evaluators**

95A County Road Gorham, Maine 04038  
(207) 839-5563

LONG ISLAND

ISLAND AVE/ OCEAN AVE

CHRIS ROBERTS

TOWN

LOCATION

APPLICANT'S NAME

- 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 Albert Frick Associates, Inc. 839-5563, 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.
- 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 or Code Enforcement Officer shall inform the owner/applicant and Albert Frick Associates, Inc 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. Albert Frick Associates, Inc.'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 Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
- 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 shall 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 units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.
- 6) 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 every three years. All septic tank, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

LONG ISLAND

ISLAND AVE/ OCEAN AVE

CHRIS ROBERTS

TOWN

LOCATION

APPLICANT'S NAME

- 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 cu. ft. (gallons per cu. ft.) divided by the # of days in period).
- 8) The general minimum setbacks 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 requirement. 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, by sealing/grouting all seams and connections, and by placement of a riser and lid at or above grade. An alarm device warning of a pump failure shall be installed. Also, when pumping is required of a chamber system, install a "T" connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. 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 before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential setting). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off proprietary devices. Divert the surface water away from the disposal area by ditching or shallow landscape 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. Alternatively, bark or permanent landscape mulch may be used to cover system, Woody trees or shrubs are not permitted on the disposal area or fill extensions.



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