

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION		PORTLAND Date Permit Issued: <u>2/21/97</u> 6015 \$ _____ Local Plumbing Inspector Signature: <u>[Signature]</u> L.P.I. # <u>0124</u> S.S.D.S. TOWN COPY <input type="checkbox"/> If Double Fee Charged
Town or Plantation	PORTLAND (PEAKS ISLAND)	
Street Subdivision Lot #	SEASHORE AVENUE 091-G-015	
PROPERTY OWNERS NAME		
Last: <u>CALLOW</u>	First: <u>RICHARD &amp; MARTHA</u>	
Mailing Address of Owner	31 NEW ISLAND AVENUE PEAKS ISLAND, ME. 04108	
Daytime Tel. #	Municipal Tax Map # <u>919</u>	Lot # <u>15</u>

**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.

Martha K. Callow 2/21/97  
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.

D. E. [Signature] 8-16-99  
Local Plumbing Inspector Signature Date Approved

**PERMIT INFORMATION**

<b>THIS APPLICATION IS FOR:</b> 1. <input type="checkbox"/> First Time System 2. <input type="checkbox"/> Multi-User System 3. <input checked="" type="checkbox"/> Replacement System 4. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> One-time exempted b. <input type="checkbox"/> Non-exempted 5. <input type="checkbox"/> Experimental System 6. <input checked="" 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 (Municipal) 3. <input type="checkbox"/> First Time System Variance (State) 4. <input type="checkbox"/> Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector approval b. <input type="checkbox"/> State & Local Plumbing Inspector approval 5. <input type="checkbox"/> Minimum Lot Size Variance 6. <input type="checkbox"/> Seasonal Conversion Variance	<b>DISPOSAL SYSTEM COMPONENT(S)</b> 1. <input checked="" type="checkbox"/> Non-Engineered System 2. <input type="checkbox"/> Primitive System 3. <input type="checkbox"/> Alternative Toilet Specify _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank 5. <input type="checkbox"/> Holding Tank _____ Gallons 6. <input type="checkbox"/> Non-Engineered Disposal Area (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Engineered System (+2000 gpd) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Area (only)
<b>SIZE OF PROPERTY</b> _____	<b>DISPOSAL SYSTEM TO SERVE:</b> 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit 2. <input type="checkbox"/> Multiple Family Dwelling Unit Number of Units _____ 3. <input type="checkbox"/> Other _____ SPECIFY _____	<b>TYPE OF WATER SUPPLY</b> <u>SEASONAL PUBLIC WATER W/ PROPOSED DRILLED WELL</u>

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

<b>TREATMENT TANK</b> 1. <input checked="" type="checkbox"/> Concrete <u>012</u> <input type="checkbox"/> Regular <input type="checkbox"/> Low Profile 2. <input checked="" type="checkbox"/> Plastic SIZE <u>1000</u> Gallons	<b>DISPOSAL AREA TYPE/SIZE</b> 1. <input type="checkbox"/> Stone Bed _____ Sq.Ft. 2. <input checked="" type="checkbox"/> Proprietary Device <u>900</u> Sq.Ft. <input type="checkbox"/> Clustered <input checked="" type="checkbox"/> Linear <input checked="" type="checkbox"/> Regular <input type="checkbox"/> H-20 3. <input type="checkbox"/> Trench _____ Lin. Ft. 4. <input type="checkbox"/> Other _____ <u>18 PLASTIC CHAMBERS</u> <b>DISPOSAL AREA SIZING</b> 1. <input type="checkbox"/> Small 2.0 2. <input type="checkbox"/> Medium 2.60 3. <input checked="" type="checkbox"/> Medium-Large 3.30 4. <input type="checkbox"/> Large 4.10 5. <input type="checkbox"/> Extra-Large 5.00	<b>GARBAGE DISPOSAL UNIT</b> 1. <input checked="" type="checkbox"/> No 2. <input type="checkbox"/> Yes <input type="checkbox"/> Multi-compartment tank <input type="checkbox"/> Tank in series <input type="checkbox"/> Increase in tank capacity <input type="checkbox"/> Filter on tank outlet	<b>CRITERIA USED FOR DESIGN FLOW</b> (Show Calculations) <u>SINGLE FAMILY DWELLING (3 BED ROOMS)</u> <u>SEASONAL TO YR-ROUND USE</u> DESIGN FLOW: <u>270</u> (Gallons/Day)
<b>PROFILE &amp; DESIGN CLASS</b> PROFILE <u>2</u> DESIGN <u>A</u> DEPTH TO MOST LIMITING FACTOR <u>32</u> "	<b>PUMPING</b> 1. <input checked="" type="checkbox"/> Not Required 2. <input type="checkbox"/> May Be Required 3. <input type="checkbox"/> Required DOSE _____ Gallons SEE NOTE PG. #3		

**SITE EVALUATOR'S STATEMENT**

On 1, 22, 97 (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.

Albert Frick 163 1/28/97  
Site Evaluator Signature SE # Date

ALBERT FRICK ASSOCIATES, INC. 839-5563  
Print Name Telephone

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HHE-200 Rev. 5/95

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Town, City or Plantation

PORTLAND (PEAKS ISLAND)

Street, Road or Subdivision

SEASHORE AVE.

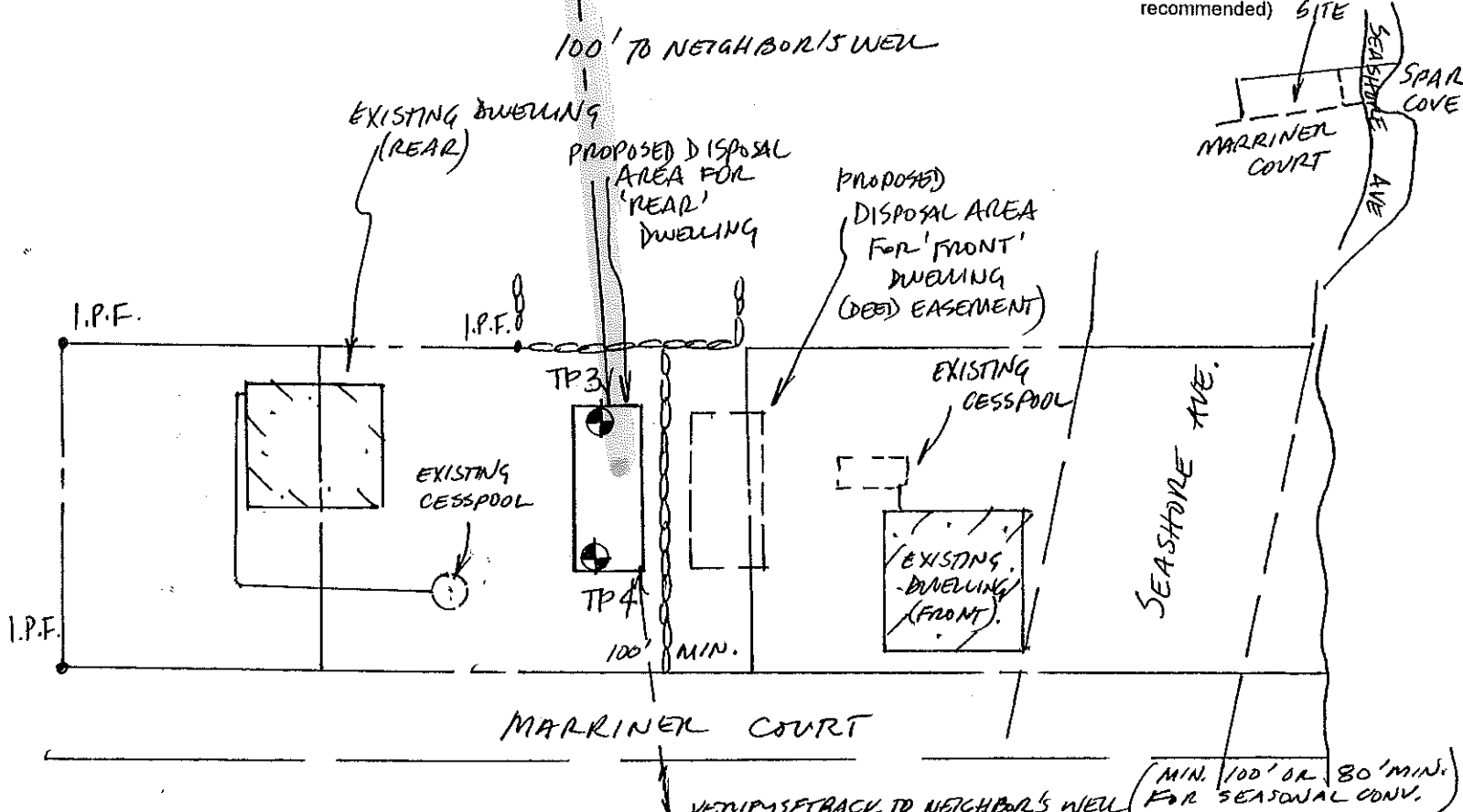
Name of Owner

CALLOW, RICHARD & MARTHA

SITE PLAN

Scale: 1" = 40± Ft.  
or as shown

SITE LOCATION PLAN  
(Map from The Maine Atlas recommended)



## SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole TP3  Test Pit  Boring

" Depth of Organic Horizon Above Mineral Soil BACK HOE

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0			DARK BROWN	
6		FROZEN		
10	CHANNERY			
15	SANDY		DARK	NONE
20	WARM	FRIABLE	YELLOWISH BROWN	EVIDENT
30	FRACTURED BEDROCK			
40	FRACTURED BEDROCK			
50	FRACTURED BEDROCK			

Soil Profile <u>2</u>	Class <u>A</u>	Slope _____ %	Limiting Factor <u>32"</u>	<input type="checkbox"/> Ground Water
			<input type="checkbox"/> Restrictive Layer	<input checked="" type="checkbox"/> Bedrock

Observation Hole TP4  Test Pit  Boring

" Depth of Organic Horizon Above Mineral Soil BACK HOE

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0			DARK BROWN	
6		FROZEN		
10	CHANNERY			
15	FINE		DARK	
20	SANDY	FRIABLE	YELLOWISH BROWN	NONE
25	WARM			EVIDENT
30	FRACTURED BEDROCK			
40	FRACTURED BEDROCK			
50	FRACTURED BEDROCK			

Soil Profile <u>2</u>	Class <u>A</u>	Slope _____ %	Limiting Factor <u>32"</u>	<input type="checkbox"/> Ground Water
			<input type="checkbox"/> Restrictive Layer	<input checked="" type="checkbox"/> Bedrock

*Albert Freid*  
Site Evaluator Signature

163  
SE #

1/28/97  
Date

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Name of Owner

PORTLAND (PEAKS ISLAND)

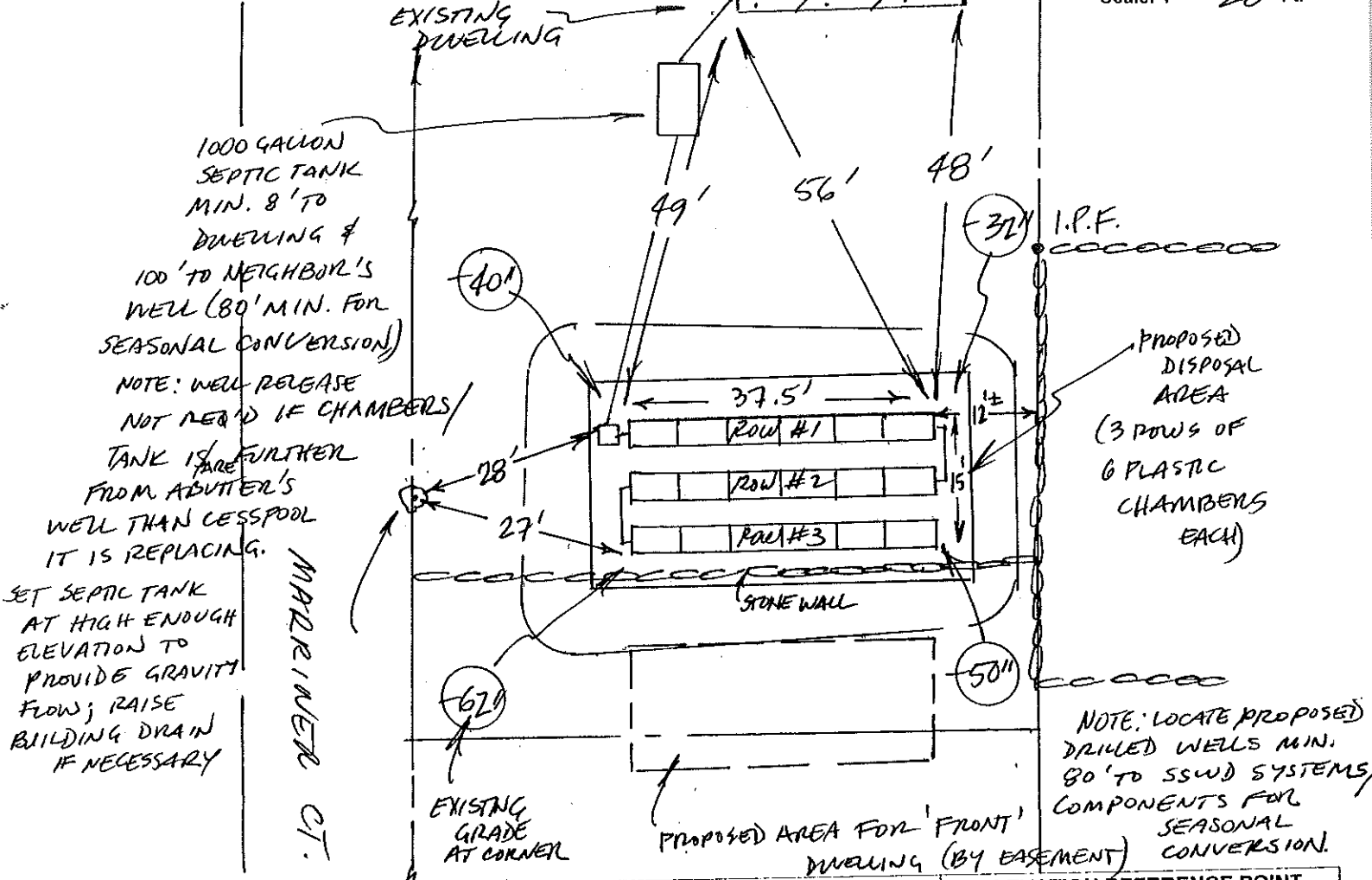
SEASHORE AVENUE

CALLOW,

RICHARD & MARTHA

## SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20 Ft.



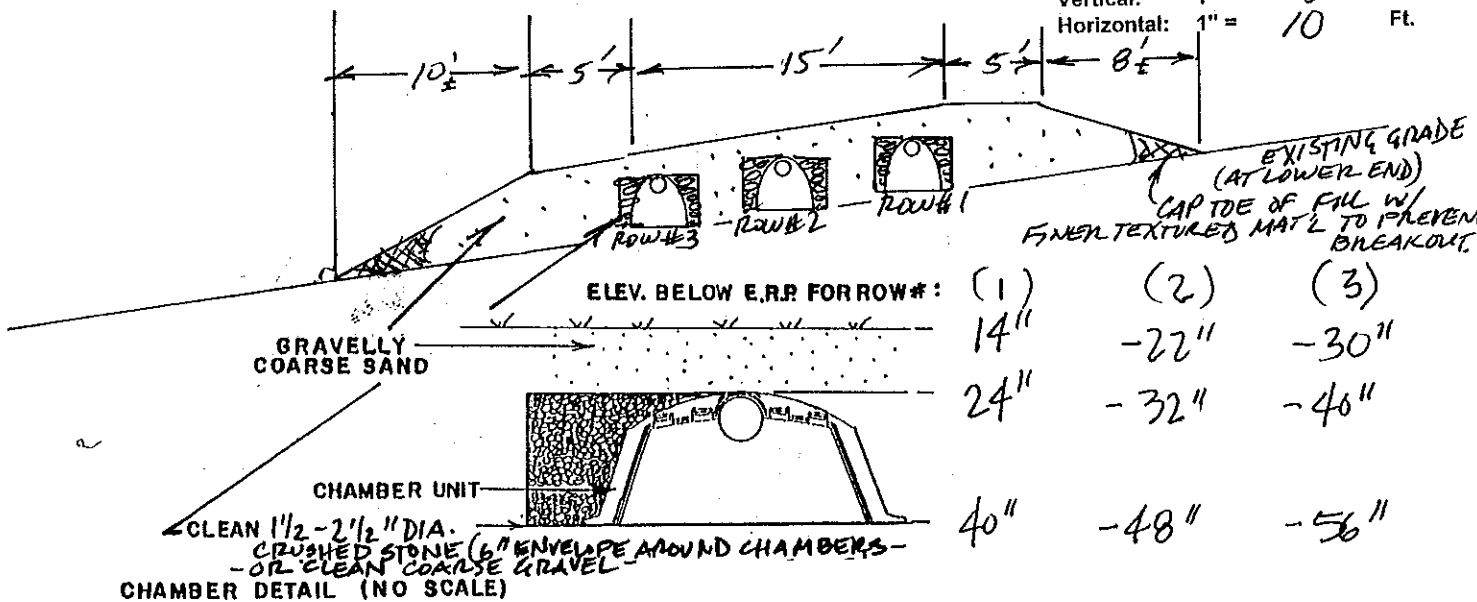
1000 GALLON SEPTIC TANK MIN. 8' TO DWELLING & 100' TO NEIGHBOR'S WELL (80' MIN. FOR SEASONAL CONVERSION)  
 NOTE: WELL RELEASE NOT REQ'D IF CHAMBERS/TANK IS FURTHER FROM ADJUTER'S WELL THAN CESSPOOL IT IS REPLACING.  
 SET SEPTIC TANK AT HIGH ENOUGH ELEVATION TO PROVIDE GRAVITY FLOW; RAISE BUILDING DRAIN IF NECESSARY  
 MADRIENER CT.

PROPOSED DISPOSAL AREA (3 ROWS OF 6 PLASTIC CHAMBERS EACH)  
 I.P.F.  
 NOTE: LOCATE PROPOSED DRILLED WELLS MIN. 80' TO SSWD SYSTEMS/COMPONENTS FOR SEASONAL CONVERSION.

FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT
Depth of Fill (Upslope) 18-26"	Finished Grade Elevation SEE DETAIL BELOW	Location & Description NAIL IN 8" DIA. WHITE BIRCH, 45" ABOVE BASE
Depth of Fill (Downslope) 20-32"	Top of Distribution Pipe or Proprietary Device	Reference Elevation 00"
	Bottom of Disposal Area	

### DISPOSAL AREA CROSS SECTION

Scale:  
 Vertical: 1" = 5 Ft.  
 Horizontal: 1" = 10 Ft.



Albert Frick  
 Site Evaluator Signature

163  
 SE #

1/28/97  
 Date



**Albert Frick Associates, Inc.**

**Soil Scientists & Site Evaluators**

95A County Road Gorham, Maine 04038  
(207) 839-5563 FAX (207) 839-5564

Albert Frick SS, SE  
James Logan SS, SE  
Matthew Logan SE

PORTLAND (PEAKS ISLAND) SEASHORE AVE. CALLOW, RICHARD & MARTHA  
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 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.

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.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND (PEAKS ISLAND) SEASHORE AVE. CALLOW, RICHARD & MARTHA  
TOWN LOCATION APPLICANT'S NAME

- 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 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 cu.ft.(gallons per cu.ft.) ÷ # 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 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. Also, when pumping is required to 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 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 the chambers. 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.

