

2004-6008

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION
City, Town, or Plantation: PEAKS ISLAND
Street or Road: WHALEBACK ROAD
Subdivision, Lot #: LOT 5

>> Caution: Permit Required - Attach In Space Below <<
PORTLAND Date Permit Issued: 7/8/04
8993 \$ 1110.00 TOWN COPY FEE
Local Plumbing Inspector Signature: [Signature] L.P.I. # 011312

OWNER/APPLICANT INFORMATION
Name (last, first, MI): FREUDENBERGER DALE
Mailing Address of: 10 ALLEN AVE EXT. FALMOUTH, ME
Daytime Tel. #: 878-3696

Municipal Tax Map # Lot #

Owner or Applicant Statement
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.
Signature of Owner/Applicant: [Signature] Date: 5-5-04

Caution: Inspections Required
I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.
Local Plumbing Inspector Signature: [Signature] (1st) Date Approved: (2nd) Date Approved:

PERMIT INFORMATION

TYPE OF APPLICATION
1. [X] First Time System
2. [ ] Replacement System
Type Replaced: Year Installed:
3. [ ] Expanded System
a. [ ] Minor Expansion b. [ ] Major Expansion
4. [ ] Experimental System
5. [ ] Seasonal Conversion
SIZE OF PROPERTY: 5 ACRES +/- 3174 sq. ft.
SHORELAND ZONING: [ ] Yes [X] No

THIS APPLICATION REQUIRES
1. [X] No Rule Variance
2. [ ] First Time System Variance
a. [ ] Local Plumbing Inspector Approval
b. [ ] State & Local Plumbing Inspector Approval
3. [ ] Replacement System Variance
a. [ ] Local Plumbing Inspector Approval
b. [ ] State & Local Plumbing Inspector Approval
4. [ ] Minimum Lot Size Variance
5. [ ] Seasonal Conversion Approval
DISPOSAL SYSTEM TO SERVE
1. [X] Single Family Dwelling Unit, No. of Bedrooms: 3
2. [ ] Multiple Family Dwelling, No. of Units:
3. [ ] Other: SPECIFY
Current Use [ ] Seasonal [ ] Year Round [X] Undeveloped

DISPOSAL SYSTEM COMPONENTS
1. [X] Complete Non-Engineered System
2. [ ] Primitive System (graywater & alt toilet)
3. [ ] Alternative Toilet, specify:
4. [ ] Non-Engineered Treatment Tank (only)
5. [ ] Holding Tank, Gallons
6. [ ] Non-Engineered Disposal Field (only)
7. [ ] Separated Laundry System
8. [ ] Complete Engineered System (2000 gpd+)
9. [ ] Engineered Treatment Tank (only)
10. [ ] Engineered Disposal Field (only)
11. [ ] Pre-treatment, specify:
12. [ ] Miscellaneous components
TYPE OF WATER SUPPLY
1. [X] Drilled Well 2. [ ] Dug Well 3. [ ] Private
4. [ ] Public 5. [ ] Other:

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
1. [X] Concrete
a. [X] Regular b. [ ] Low Profile
2. [ ] Plastic
3. [ ] Other: CAPACITY 1000 gallons
SOIL DATA & DESIGN CLASS
PROFILE 2 / CONDITION A / DESIGN 2
AT Observation Hole: TP A
Depth 18"
OF MOST LIMITING SOIL FACTOR

DISPOSAL FIELD TYPE & SIZE
1. [ ] Stone Bed 2. [ ] Stone Trench
3. [X] Proprietary Device
a. [ ] Cluster array c. [X] Linear
b. [X] Regular d. [ ] H-20 loaded
4. [ ] Other:
SIZE 1152 sq. ft. [ ] lin. ft.
24 ELJEN IN DRAIN UNITS
DISPOSAL FIELD SIZING
1. [ ] Small - 2.0 sq.ft./gpd
2. [ ] Medium - 2.6 sq.ft./gpd
3. [X] Medium-Large - 3.3 sq.ft./gpd
4. [ ] Large - 4.1 sq.ft./gpd
5. [ ] Extra-Large - 5.0 sq.ft./gpd

GARBAGE DISPOSAL UNIT
1. [X] No 3. [ ] Maybe
2. [ ] Yes >> Specify one below:
a. [ ] Multi-compartment tank
b. [ ] tanks in series
c. [ ] Increase in tank capacity
d. [X] Filter on tank outlet
PUMPING
1. [ ] Not required
2. [X] May be required
3. [ ] Required >> Specify only for engineered or experimental systems:
DOSE: Gallons

DESIGN FLOW
270 gallons per day
BASED ON:
1. [X] Table 501.1 (dwelling unit(s))
2. [ ] Table 501.2 (other facilities)
SHOW CALCULATIONS - for other facilities -
3 BEDROOMS AT 90 GALLONS PER DAY EACH
3. [ ] Section 503.0 (meter readings)
ATTACH WATER-METER DATA

SITE EVALUATOR STATEMENT

I certify that on 11/20/03 (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).

Albert Frick
Site Evaluator Signature

163
SE

12/12/2003
Date

ALBERT FRICK
Site Evaluator Name Printed

(207) 839-5563
Telephone Number

ALBERTFRICK@WORLDNET.ATT.NET
E-mail Address

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



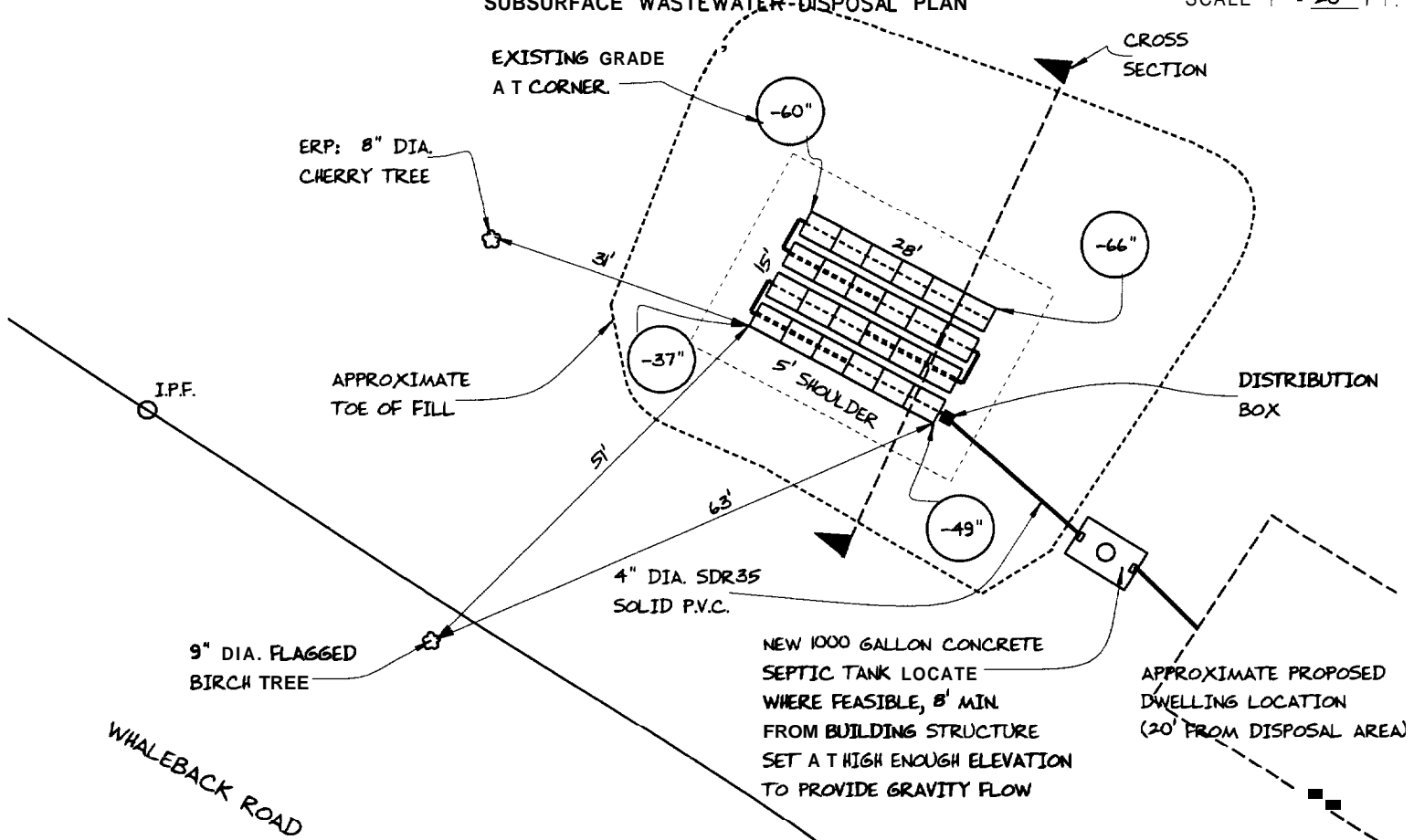
Town, City, Plantation  
**PEAKS ISLAND**

Street, Road, Subdivision  
**WHALEBACK ROAD, LOT 5**

Owner's Name  
**DALE FREUDENBERGER**

**SUBSURFACE WASTEWATER-DISPOSAL PLAN**

SCALE 1" = 20 FT.



**FILL REQUIREMENTS**

Depth of Fill (Upslope) : 29" - 41"  
 : 37" - 43"  
 Depth of Fill (Downslope)  
 DEPTHS AT CROSS-SECTION (shown below)

**CONSTRUCTION ELEVATIONS**

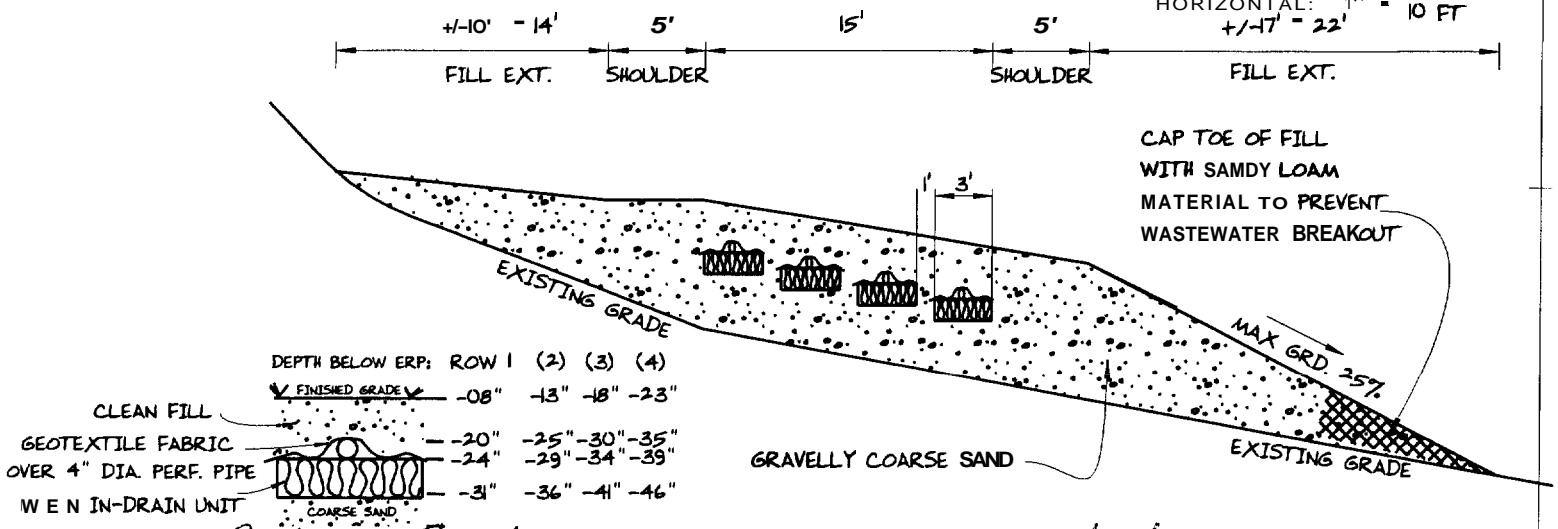
Finished Grade Elevation  
 Top of Distribution Pipe or Proprietary Device  
 Bottom of Disposal Area

SEE  
 DETAIL  
 BELOW

**ELEVATION REFERENCE POINT**  
 Location & Description NAIL IN 8" DIA. CHERRY TREE, 32" ABOVE BASE  
 Reference Elevation is: 0.0 or -----

**DISPOSAL AREA CROSS SECTION**

SCALE:  
 VERTICAL: 1" = 5 FT  
 HORIZONTAL: 1" = 10 FT  
 +/- 47' = 22'



*Albert Frick*  
 Site Evaluator Signature

163  
 SE \*

12/12/2003  
 Date

Page 3 of 3  
 HHE-200 Rev. 10/02



**Albert Frick Associates, Inc.**  
**Soil Scientists & Site Evaluators**

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

PEAKS ISLAND

WHALEBACK ROAD, LOT 5

DALE FREUDENBERGER

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TOWN	LOCATION	APPLICANT'S NAME
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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 ~~ma&~~ 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.

PEAKS ISLAND

WHALEBACK ROAD, LOT 5

DALE FREUDENBERGER

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 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.) 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. 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 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



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**TABLE 1903.1  
SUMMARY OF REQUIREMENTS FOR MASONRY FIREPLACES AND CHIMNEYS**

**NOTE:** This table provides a summary of major requirements for the construction of masonry chimneys and fireplaces. Letter references are to Figure 1003.1, which shows examples of typical construction. This table does not cover all requirements, nor does it cover all aspects of the indicated requirements. For the actual mandatory requirements of the code, see the indicated section of text.

ITEM	LETTER	REQUIREMENTS		
		Summary	See Section	
Hearth and hearth extension thickness	A	4-inch minimum thickness for hearth.	1003.9.1	
		2-inch minimum thickness for hearth extension.	1003.9.2	
Hearth extension (each side of opening)	B	8 inches for fireplace opening less than 6 square feet.	1003.10	
		12 inches for fireplace opening greater than or equal to 6 square feet.		
Hearth extension (front of opening)	C	16 inches for fireplace opening less than 6 square feet.	1003.10	
		20 inches for fireplace opening greater than or equal to 6 square feet.		
Hearth and hearth extension reinforcing	D	Reinforced to carry its own weight and all imposed loads.	1003.9	
Firebox dimensions	E	20-inch minimum firebox depth.	1003.11	
		12-inch minimum firebox depth for Rumford fireplaces.		
Thickness of wall of firebox	F	10 inches solid masonry or 8 inches where firebrick lining is used.	1003.5	
Distance from top of opening to throat	G	8 inches minimum.	1003.7	
Smoke chamber	H	6 inches lined; 8 inches unlined.	1003.8	
Dimensions		Not taller than opening width; walls not inclined more than 45 degrees from vertical for prefabricated smoke chamber linings or 30 degrees from vertical for corbeled masonry.	1003.8.1	
Chimney vertical reinforcing <sup>a</sup>	I	Four No. 4 full-length bars for chimney up to 40 inches wide. Add two No. 4 bars for each additional 40 inches or fraction of width, or for each additional flue.	1003.3.1	
Chimney horizontal reinforcing <sup>a</sup>	J	1/4-inch ties at each 18 inches, and two ties at each bend in vertical steel.	1003.3.2	
Fireplace lintel	K	Noncombustible material with 4-inch load-bearing length of each side of opening.	1003.7	
Chimney walls with flue lining	L	4-inch-thick solid masonry with liner.	1001.7;	
		1/2-inch grout or airspace between liner and wall.	1001.9	
Effective flue area (based on area of fireplace opening and chimney)	M	See Section 1001.12.	1001.12	
Clearances	N	From chimney	1001.15	
From fireplace		2 inches interior, 1 inch exterior.	1003.12	
Combustible trim or materials		2 inches front, back or sides.	1003.13	
Above roof		6 inches from opening.	1001.6	
Anchorage <sup>a</sup>	O	3 feet above roof penetration, 2 feet above part of structure within 10 feet.	1003.4	
		Strap		3/16 inch by 1 inch.
		Number		Two.
		Embedment into chimney		12 inches hooked around outer bar with 6-inch extension.
		Fasten to		Four joists.
Bolts	Two 1/2-inch diameter.			
Roofing	P	12-inch minimum.	1003.2	
Thickness		6 inches each side of fireplace wall.		
Width				

<sup>a</sup> Required only in Seismic Zones 3 and 4.