

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Maine Department of Health Services Division of Public Health Engineering Section 70-208
PROPERTY LOCATION		PORTLAND PERMIT # 8950 APPLICANTS COPY
City, Town, or Plantation	PORTLAND GREAT DIAMOND	Date Permit Issued: 6/11/04
Street or Road	DIAMOND COVE	Local Plumbing Inspector Signature:
Subdivision, Lot #	LOT 41	L.P.L.# 1-1-1
OWNER/APPLICANT INFORMATION		<p>THE WORK SPECIFIED IN THIS APPLICATION IS HEREBY AUTHORIZED TO BE INSTALLED IN ACCORDANCE WITH THE RULES. THIS PERMIT EXPIRES AFTER TWO YEARS FROM DATE ISSUED UNLESS WORK HAS COMMENCED.</p>
Name (last, first, MI)	TEAS SCOTT	
Mailing Address of	100 COMMERCIAL STREET SUITE 22	
Daytime Tel. #	755-441 EXT. 111	
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 _____		Signature of Local Plumbing Inspector _____ Date Approved: 4/27/04

PERMIT INFORMATION		
TYPE OF APPLICATION 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	THIS APPLICATION REQUIRES 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	DISPOSAL SYSTEM COMPONENTS 1. <input checked="" type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & all 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 (2000 gpd-) 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
SIZE OF PROPERTY 40,496 SQ. FT. <input type="checkbox"/> sq. ft. <input type="checkbox"/> acres	DISPOSAL SYSTEM TO SERVE 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: 4 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	TYPE OF WATER SUPPLY 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: _____
SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS SYSTEM LAYOUT SHOWN ON PAGE 3			
TREATMENT TANK 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: 1000 gallons	DISPOSAL FIELD TYPE & SIZE 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 a. <input checked="" type="checkbox"/> Linear b. <input type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE: 1440 sq. ft. <input type="checkbox"/> lin. ft. 20 ELTEN IN-DRAINS	GARBAGE DISPOSAL UNIT 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	DESIGN FLOW 240 gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (residential units) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS for other facilities. 4 BEDROOMS AT 90 GALLONS PER DAY EACH
SOIL DATA & DESIGN CLASS PROFILE: 2 / A / 2 CONDITION: _____ DESIGN: _____ AT Observation Hole # TB7 Depth: 20" OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING 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	PUMPING 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: _____ g. tons	3. <input type="checkbox"/> Section 503.6 (meter readings) ATTACH WATER-METER DATA

SITE EVALUATOR STATEMENT		
I certify that on 5/11/2004 (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 (10-144 & C.M.R. 241).		
 Site Evaluator Signature	Date: 4/16/2004	
ALBERT FRICK	(207) 898-5568	ALBERT.FRICK@MHS.DH.ME.GOV
Site Evaluator Name Printed	Telephone Number	E-mail Address
ALBERT FRICK ASSOCIATES - SEA COUNTY ROAD ROAD (BORHAM MAIN) 04088 - (207) 898-5562		
Notes: Changes to or deviations from the design should be confirmed with the Site Evaluator		

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation PORTLAND (GREAT DIAMOND)	Street, Road Subdivision DIAMOND COVE, LOT #41	Owner's Name SCOTT TEAS
SITE PLAN Scale 1" = 40 Ft. or as shown		SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)
TB 2 20" TO BEDROCK TB 3 28" TO BEDROCK TB 4 30" TO BEDROCK TB 5 20" TO BEDROCK		(Inset map showing location within Diamond Cove)

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)																																																					
Observation Hole <u>TP91</u> <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring Depth of Organic Horizon Above Mineral Soil _____ TEST PIT BY DAVID KAMILLA DATED 10/28/05 Texture Consistency Color Mottling	Observation Hole <u>TP91A</u> <input type="checkbox"/> Test Pit <input type="checkbox"/> Boring Depth of Organic Horizon Above Mineral Soil _____ TEST PIT BY DAVID KAMILLA DATED 4/23/07 Texture Consistency Color Mottling																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>0</td><td></td><td>DARK BROWN</td><td></td></tr> <tr><td>1</td><td>FINE</td><td></td><td></td></tr> <tr><td>2</td><td>SANDY</td><td></td><td></td></tr> <tr><td>3</td><td>CLAY</td><td>REDDISH</td><td>NONE</td></tr> <tr><td>4</td><td>VERY ROAMY</td><td>BROWN</td><td>EXCESS</td></tr> <tr><td>5</td><td>50% CAGLES</td><td></td><td></td></tr> <tr><td>6</td><td colspan="3" style="text-align: center;">BEDROCK</td></tr> </table>	0		DARK BROWN		1	FINE			2	SANDY			3	CLAY	REDDISH	NONE	4	VERY ROAMY	BROWN	EXCESS	5	50% CAGLES			6	BEDROCK			<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>0</td><td></td><td>DARK BROWN</td><td></td></tr> <tr><td>1</td><td>FINE</td><td>FRAGILE</td><td></td></tr> <tr><td>2</td><td>SANDY</td><td></td><td></td></tr> <tr><td>3</td><td>LOAM</td><td></td><td>LIGHT</td></tr> <tr><td>4</td><td>30% CLAY</td><td>LOOSE</td><td>REDDISH</td></tr> <tr><td>5</td><td></td><td></td><td>BROWN FEW</td></tr> </table>	0		DARK BROWN		1	FINE	FRAGILE		2	SANDY			3	LOAM		LIGHT	4	30% CLAY	LOOSE	REDDISH	5			BROWN FEW
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Soil Classification: <u>2</u> Profile <u>A</u> Condition Slope: <u>2</u> Limiting Factor: <u>30"</u>	Soil Classification: <u>2</u> Profile <u>C</u> Condition Slope: <u>X</u> Limiting Factor: <u>24"</u>																																																				

Albert Frick
Site Evaluator Signature

SE

6/7/2000
Date

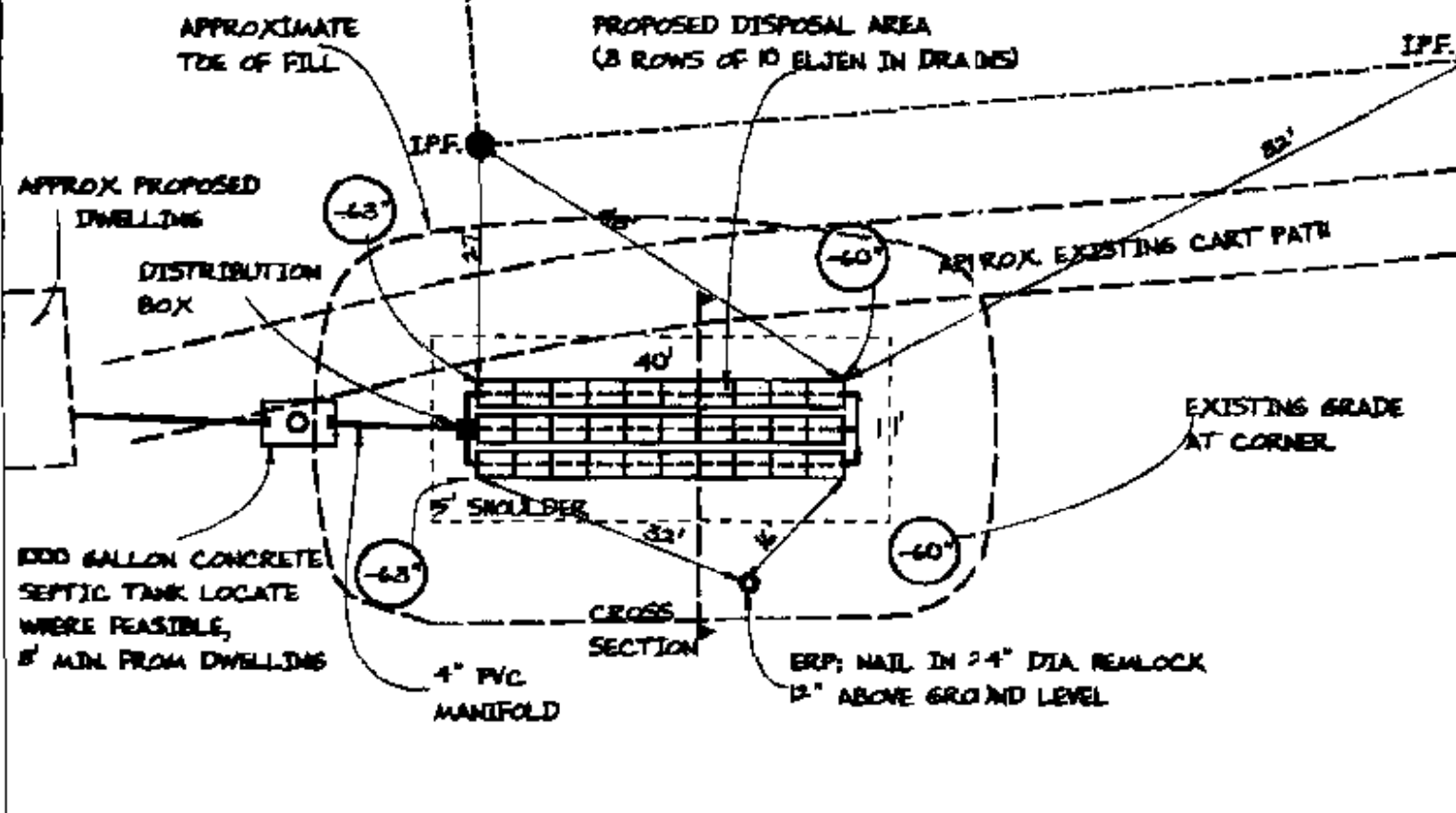
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation: **PORTLAND (GREAT DIAMOND)** Street, Road, Subdivision: **DIAMOND COVE, LOT #41** Owner's Name: **SCOTT TEAS**

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' FT.



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

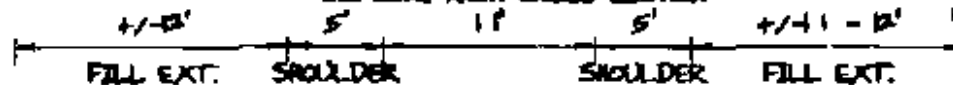
ELEVATION REFERENCE POINT

Depth of PE (Schedule 40)
Depth of PE (Schedule 80)

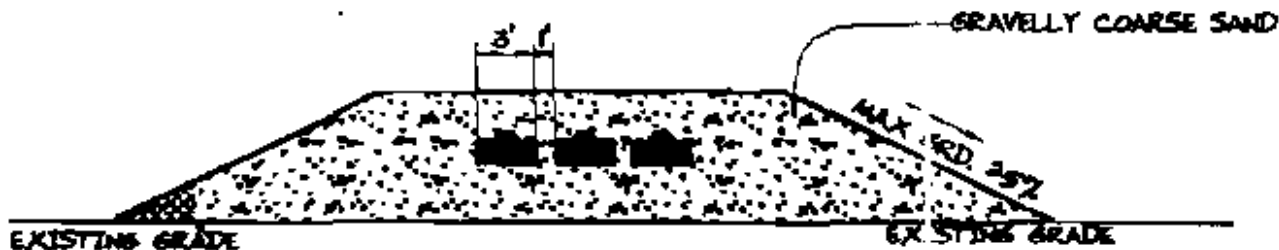
+35" - 36" Finished Grade Elevation
+35" - 36" Top of Distribution Pipe or Proprietary Ductile
+35" - 36" Bottom of Disposal Area

SEE DETAIL BELOW
Location & Depth of 2" DIA. NAILLOCK
NAIL 12" ABOVE BASE
Schedule 40

DISPOSAL AREA CROSS SECTION



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



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

CLEAN FILL -37"
GEOTEXTILE FABRIC -38"
OVER 4" DIA. PERF. PIPE -43"
ELVEN IN-TRAM UNIT -50"
SCHEDULE 40 PE -56"

Albert Frick
Site Evaluator Signature

SE *

6/5/2000
Date

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HE-200 Rev. 7/97

ALBERT FRICK ASSOCIATES - 154 COUNTY ROAD 1000 GORHAM, MAINE 04038 - (207) 688-6888

4/16/2004

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND	DIAMOND COVE, LOT #41 GREAT DIAMOND ISLANDS	
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.) \times 7.48 cu.ft. (gallons per cu.ft.) \div # 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 owner 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 drains and septic tank tower 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 perching 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 rototilling 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.




Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators
 95A County Road Carham, Maine 04030
 (207) 874-5563

DIAMOND COVE, LOT #4

PORTLAND TOWN LOCATION APPLICANT'S NAME
 GREAT DIAMOND

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.