

2010 6005

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Division of Environmental Health - SHE 11
(207) 287-5689 FAX (207) 287-3165

PROPERTY LOCATION		>> Caution: Permit Required - Attach in Space Below <<	
City, Town, or Plantation	PORTLAND		
Street or Road	42 PENRITH ROAD		
Subdivision, Lot *			
OWNER/APPLICANT INFORMATION		PORTLAND Date Permit Issued: 6-22-10 PERMIT # 11317 TOWN COPY \$ 100 FEE L.P.I. # 360	
Name (Last, First, MI)	N/F HEWES RICHARD & MARGARET	Local Plumbing Inspector Signature	
Mailing Address of	ERIC GRIFFIN 54 KENWOOD STREET PORTLAND, ME 04102		
Owner			
Applicant			
Daytime Tel *		Municipal Tax Map * 219 Lot * A-28	
Owner or Applicant Statement		Caution: Inspections Required	
I state and acknowledge that the information submitted is correct to the best of my knowledge and understanding. 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		Local Plumbing Inspector Signature	
Date		Date	

PERMIT INFORMATION	
TYPE OF APPLICATION (Check only one item)	THIS APPLICATION REQUIRES
1 <input type="checkbox"/> First Time System	1 <input checked="" type="checkbox"/> No Rule Variance
2 <input checked="" type="checkbox"/> Replacement System	2 <input type="checkbox"/> First Time System Variance
Type Replaced	a <input type="checkbox"/> Local Plumbing Inspector Approval
Year installed: PRE-1974	b <input type="checkbox"/> State & Local Plumbing Inspector Approval
3 <input type="checkbox"/> Expanded System	3 Replacement System Variance
4 <input type="checkbox"/> Experimental System	a <input type="checkbox"/> Local Plumbing Inspector Approval
	b <input type="checkbox"/> State & Local Plumbing Inspector Approval
SIZE OF PROPERTY	DISPOSAL SYSTEM TO SERVE
22,500 sq. ft.	1 <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: 4
acres	2 <input type="checkbox"/> Multiple Family Dwelling, No. of Units:
SHORELAND ZONING	3 <input type="checkbox"/> Other (specify):
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	DISPOSAL SYSTEM COMPONENTS
	1 <input type="checkbox"/> Complete Non-Engineered System
	2 <input type="checkbox"/> Primitive System (graywater & alt toilet)
	3 <input type="checkbox"/> Pit Privy
	5 <input type="checkbox"/> Holding Tank, Gallons
	6 <input checked="" type="checkbox"/> Non-Engineered Disposal Field (only)
	7 <input type="checkbox"/> Graywater System
	8 <input type="checkbox"/> Complete Engineered System (2000 gpd)
	10 <input type="checkbox"/> Engineered Disposal Field (only)
	11 <input type="checkbox"/> Pre-treatment, specify:
	(Item numbers are used for data entry purposes)
	TYPE OF WATER SUPPLY
	1 <input type="checkbox"/> Drilled Well 2 <input type="checkbox"/> Dug Well 3 <input type="checkbox"/> Spring
	4 <input checked="" type="checkbox"/> Public 5 <input type="checkbox"/> Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK EXISTING	DISPOSAL FIELD TYPE & SIZE	GARBAGE DISPOSAL UNIT	DESIGN FLOW
1 <input checked="" type="checkbox"/> Concrete	1 <input type="checkbox"/> Stone Bed 2 <input type="checkbox"/> Stone Trench	1 <input type="checkbox"/> No 2 <input checked="" type="checkbox"/> Yes	360 gallons per day
a <input checked="" type="checkbox"/> Regular	3 <input checked="" type="checkbox"/> Proprietary Device	If Yes, Specify one below	BASED ON:
b <input type="checkbox"/> Low Profile	a <input type="checkbox"/> Cluster array c <input checked="" type="checkbox"/> Linear	a <input type="checkbox"/> Multi-compartment tank	1 <input checked="" type="checkbox"/> Table 501.1 (dwelling units)
2 <input type="checkbox"/> Plastic	b <input checked="" type="checkbox"/> Regular d <input type="checkbox"/> H-20 loaded	b <input type="checkbox"/> _____ tanks in series	2 <input type="checkbox"/> Table 501.2 (other facilities)
3 <input type="checkbox"/> Other	4 <input type="checkbox"/> Other	c <input checked="" type="checkbox"/> Increase in tank capacity	SHOW CALCULATIONS for other facilities
CAPACITY 1500 gallons	SIZE 1296 sq. ft. lin. ft.	d <input type="checkbox"/> Filter on tank outlet	
CHECK CONDITION OF TANK AND BAFFLES, REPLACE IF NECESSARY	27 ELJEN IN-DRAIN UNITS	RECOMMENDED	
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP	4 BEDROOMS AT 90 GALLONS PER DAY EACH
PROFILE CONDITION DESIGN	2 <input type="checkbox"/> Medium - 2.6 sq. ft. / gpd	1 <input type="checkbox"/> Not required	3 <input type="checkbox"/> Section 503.0 (meter readings)
12 C I	3 <input checked="" type="checkbox"/> Medium-Large - 3.3 sq. ft. / gpd	2 <input type="checkbox"/> Required	ATTACH WATER-METER DATA
(7 C CONDITIONS)	4 <input type="checkbox"/> Large - 4.1 sq. ft. / gpd	SEE SEPTIC TANK NOTE ON PAGE 3	LATITUDE AND LONGITUDE
AT Observation Hole * TP 1	5 <input type="checkbox"/> Extra-Large - 5.0 sq. ft. / gpd	Specify only for engineered systems	at center of disposal area
Depth 26" Elevation -6	(Item numbers are used for data entry purposes)	DOSE: _____ Gallons	Lat N 43 d 39 m 38.9 s
OF MOST LIMITING SOIL FACTOR			Lon W 70 d 18 m 50.5 s

SITE EVALUATOR STATEMENT		
I certify that on 5/16/10 (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	63 SE *	5/16/10 Date
ALBERT FRICK	(207) 839-5563	AFA@MAINEERR.COM
Site Evaluator Name Printed	Telephone Number	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		

RECEIVED

JUN - 4 2010

Dept. of Building Inspections
City of Portland

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Division of Environmental Health - SHE 31
(207) 287-5689 Fax (207) 287-3165

Town, City, Plantation PORTLAND	Street, Road Subdivision 42 PENRITH ROAD	Owner's Name N/F HEWES (FOR ERIC GRIFFIN)
PROPERTY INFORMATION PER TOWN TAX MAP AND AERIAL PHOTOGRAPHY, VERIFY TO ASSURE SETBACKS SHOWN	SITE PLAN Scale 1" = <u>60</u> Ft or as shown	SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)

SITE LOCATION PLAN
 (Attach Map from Maine Atlas for New System Variance)
 Shows: STROUDWATER ROAD, WESTBROOK STREET, CONGRESS STREET, FORE RIVER, SITE #42, PENRITH RD.

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	Matting
0	SANDY		DARK	
10	LOAM (FILL)		BROWN	
20	LOAMY SAND (FILL)	FRIABLE		
30	COARSE SAND (FILL)		LIGHT YELLOW BROWN	
40				FEW, DISTINCT
50				FREE WATER
60	VERY FINE SANDY LOAM AND SILT	FIRM	OLIVE	COMMON, DISTINCT

Soil Classification 12 C	Slope 14	Limiting Factor 26	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
Profile (7 c conditions)	Condition		

Observation Hole _____ ☐ Test Pit ☐ Boring
 Depth of Organic Horizon Above Mineral Soil _____

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Matting
0				
10				
20				
30				
40				
50				

Soil Classification	Slope	Limiting Factor	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
Profile	Condition		

Albert Frick
 Site Evaluator Signature

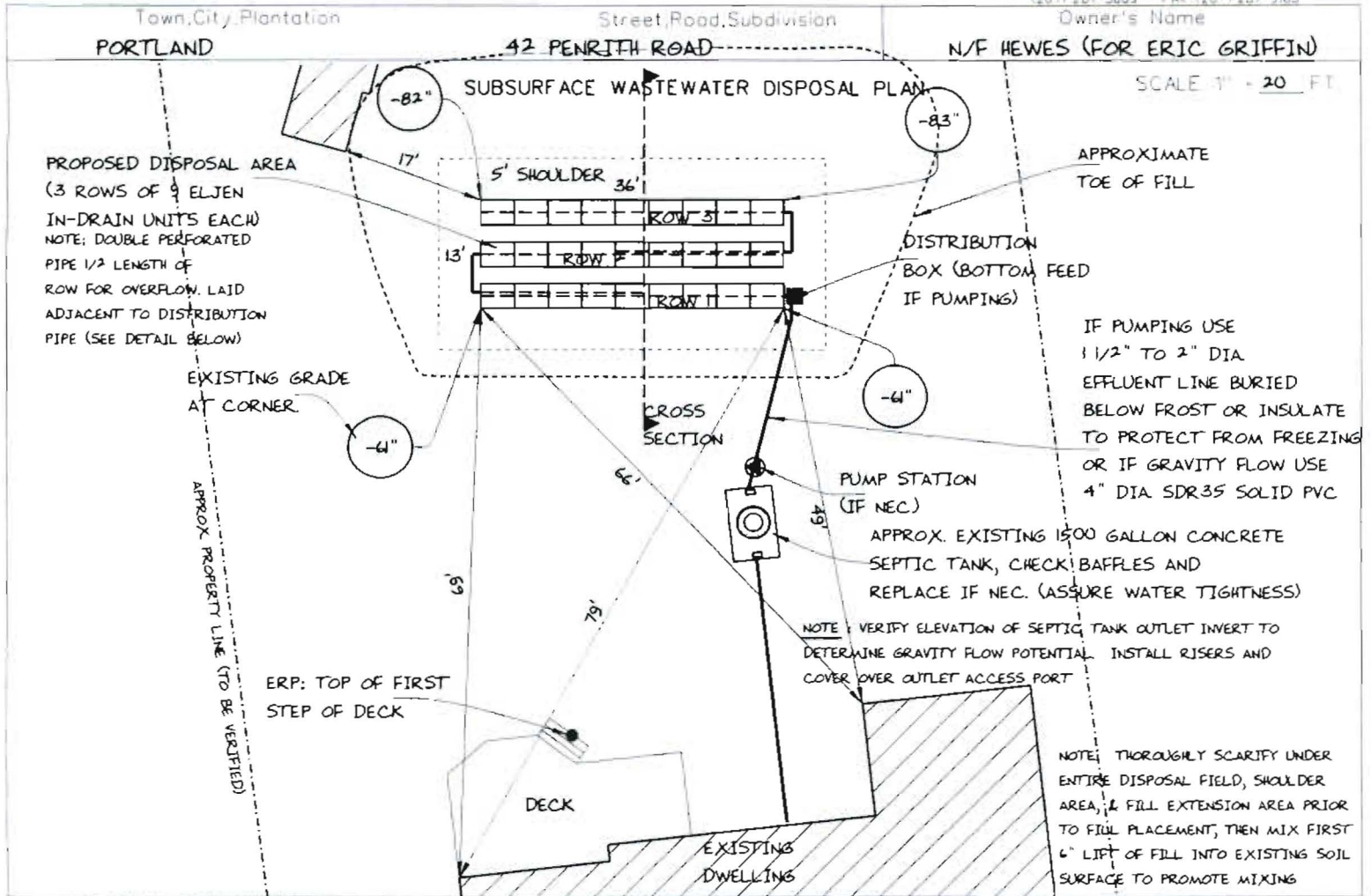
163
 SE *

5/16/10
 Date

Page 2 of 3
 HHE-200 Rev 08 09

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. of Health & Human Services
Division of Environmental Health SHS 11
(207) 287-5689 Fax: (207) 287-3165



BACKFILL REQUIREMENTS

Depth of Backfill (Upslope) : 16"
Depth of Backfill (Downslope) : 17" - 18"
DEPTHS AT CROSS SECTION (shown below)

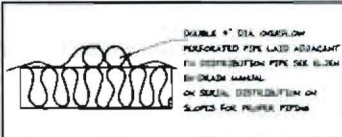
CONSTRUCTION ELEVATIONS

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

ELEVATION REFERENCE POINT

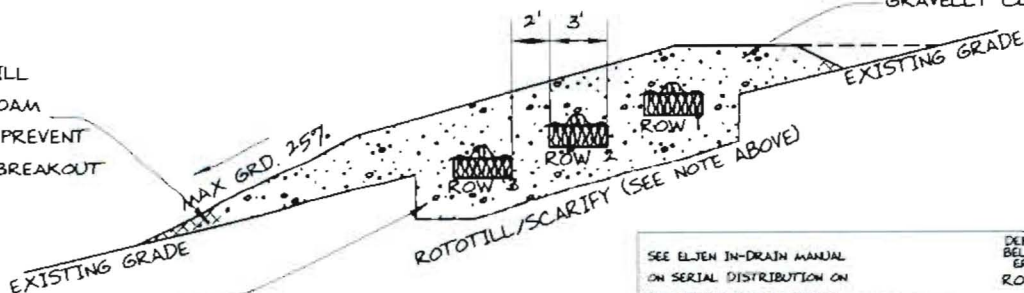
SEE DETAIL BELOW Location & Description TOP OF FIRST STEP OF DECK
Reference Elevation is: 0.0' or -----

DISPOSAL FIELD CROSS SECTION



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

REMOVE ALL PORTIONS OF EXISTING DISPOSAL AREA ENCOUNTERED TO A MINIMUM DEPTH OF 2' BENEATH AND 5' AROUND PROPOSED DISPOSAL AREA AND REPLACE WITH CLEAN GRAVELLY COARSE SANDY FILL



SEE ELJEN IN-DRAIN MANUAL ON SERIAL DISTRIBUTION ON SLOPES FOR PROPER PIPING

CLEAN FILL

GEOTEXTILE FABRIC OVER 4" DIA. PERF. PIPE

ELJEN IN-DRAIN UNIT

DEPTH BELOW ERP ROW 1	2	3
-45"	-55"	-65"
-57"	-67"	-77"
-64"	-74"	-84"
-68"	-78"	-88"
-74"	-84"	-94"

Site Evaluator Signature

163
SE

Date

Page 3 of 3
HNE-200 Rev 08/09



Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators

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

PORTLAND	42 PENRITH ROAD	N/F HEWES (FOR ERIC GRIFFIN)
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. Risers and covers should be installed over the septic tank outlet to allow for easy maintenance.

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 tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion.

PORTLAND	42 PENRITH ROAD	N/F HEWES (FOR ERIC GRIFFIN)
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.) ÷ (# of days in period) = gals per day].
- 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.
- 10) When an effluent pump is required: Provisions shall be made to make certain that surface and 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.
- 11) 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 or scarifying with teeth of backhoe 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.
- 12) Unless noted otherwise, fill shall be gravelly coarse sand which contains no more than 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process.
- 13) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 14) 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.
- 15) If an advanced wastewater treatment unit is part of the design, the system shall be operated and maintained per manufacturer's specifications.



Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators

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



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

June 4 2010

Received from Eric Griffin

Location of Work 44 South Road

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 110.00

Building (IL) _____ Plumbing (IS) ☒ Electrical (I2) _____ Site Plan (U2) _____

Other _____

CBL: 219 A 028

Check #: 4162 Total Collected \$ 110.00

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by: [Signature]

WHITE - Applicant's Copy

YELLOW - Office Copy

PINK - Permit Copy