

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION

City, Town, or Plantation: **PORTLAND, CUSHING ISLAND**
Street or Road: **31 SHORE ROAD**
Subdivision, Lot •

>> Caution: Permit Required - Attach in Space Below <<

PORTLAND PERMIT # 11071 TOWN COPY

Date Permit Issued: **9/25/09** \$ **1100** If Double Fee Charged

Local Plumbing Inspector Signature: *Thomas H. Marley* L.P.I. # **01744**

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **NOLAN JONATHAN** Owner
Mailing Address of: **181 CRAIGIE STREET PORTLAND, ME 04102**
 Owner Applicant
Daytime Tel. •: **450-1897**

106A
1007-6003

Municipal Tax Map • **106A** Lot • **EQ0101**

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: **9/21/09**

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: _____ (1st) Date Approved: _____
Local Plumbing Inspector Signature: _____ (2nd) Date Approved: _____

PERMIT INFORMATION

TYPE OF APPLICATION (Check only one item) 1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: UNKNOWN Year Installed: UNKNOWN 3. <input type="checkbox"/> Expanded System 4. <input type="checkbox"/> Experimental System	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	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)
SIZE OF PROPERTY 1.637 <input type="checkbox"/> sq. ft. <input checked="" 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)	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:
SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK 1. <input type="checkbox"/> Concrete a. <input type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input checked="" type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY 1000 gallons EXISTING	DISPOSAL FIELD TYPE & SIZE 1. <input type="checkbox"/> Stone Bed <input type="checkbox"/> 2. Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input checked="" type="checkbox"/> Linear b. <input type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE 1344 sq. ft. <input type="checkbox"/> lin. ft. 28 ELJEN IN-DRAIN UNITS	GARBAGE DISPOSAL UNIT 1. <input checked="" type="checkbox"/> No 2. <input type="checkbox"/> Yes If 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 360 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 4 BEDROOMS AT 90 GALLONS PER DAY EACH = 360 GPD
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN 12 / C / 1 AT Observation Hole • TP 1 Depth 42 " Elevation -43 " OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING 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 (Item numbers are used for data entry purposes)	EFFLUENT/EJECTOR PUMP 1. <input type="checkbox"/> Not required 2. <input checked="" type="checkbox"/> Required Specify only for engineered systems: DOSE: _____ Gallons	LATITUDE AND LONGITUDE at center of disposal area Lat. 43 d 38 m 45 s Lon. 70 d 12 m 19 s if g.p.s., state margin of error

SITE EVALUATOR STATEMENT

I certify that on **9/4/09** (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 § 41).

Site Evaluator Signature: *Albert Frick*

163
SE •

Date: **9/16/2009**

ALBERT FRICK

(207) 839-5563

AFA@MAINEERR.COM

Site Evaluator Name Printed
ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator

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Town, City, Plantation
PORTLAND, CUSHING ISLAND

Street, Road Subdivision
31 SHORE ROAD

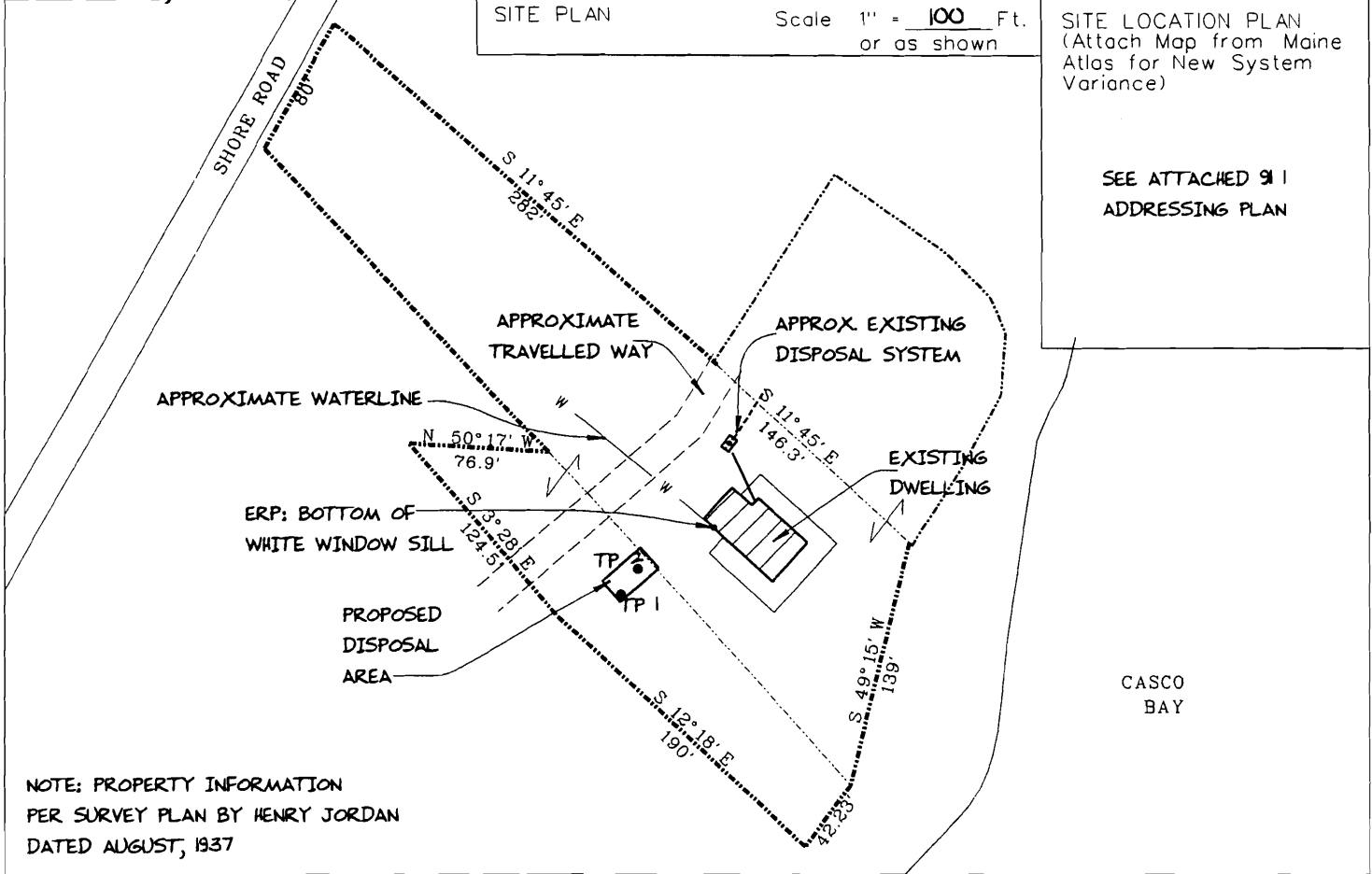
Owner's Name
JONATHAN NOLAN

SITE PLAN

Scale 1" = 100 Ft.
 or as shown

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

SEE ATTACHED #1
 ADDRESSING PLAN



NOTE: PROPERTY INFORMATION
 PER SURVEY PLAN BY HENRY JORDAN
 DATED AUGUST, 1937

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				
0-10	SANDY LOAM		BROWN	
10-20	LOAMY SAND & SAND	FRIABLE	YELLOWISH BROWN	
20-40				
40-50		FIRM		

Soil Classification: Profile 12, Condition C, Slope 0-3%, Limiting Factor 42"
 Ground Water, Restrictive Layer, Bedrock

Observation Hole TP 2 Test Pit Boring
 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
0-10	SANDY LOAM		BROWN	
10-20		FRIABLE		
20-30				
30-40	LOAMY SAND & SAND		YELLOWISH BROWN	
40-50				
50	(LIMIT OF EXCAVATION @ 54")			

Soil Classification: Profile 12, Condition B, Slope 0-3%, Limiting Factor -
 Ground Water, Restrictive Layer, Bedrock

Albert Frick
 Site Evaluator Signature

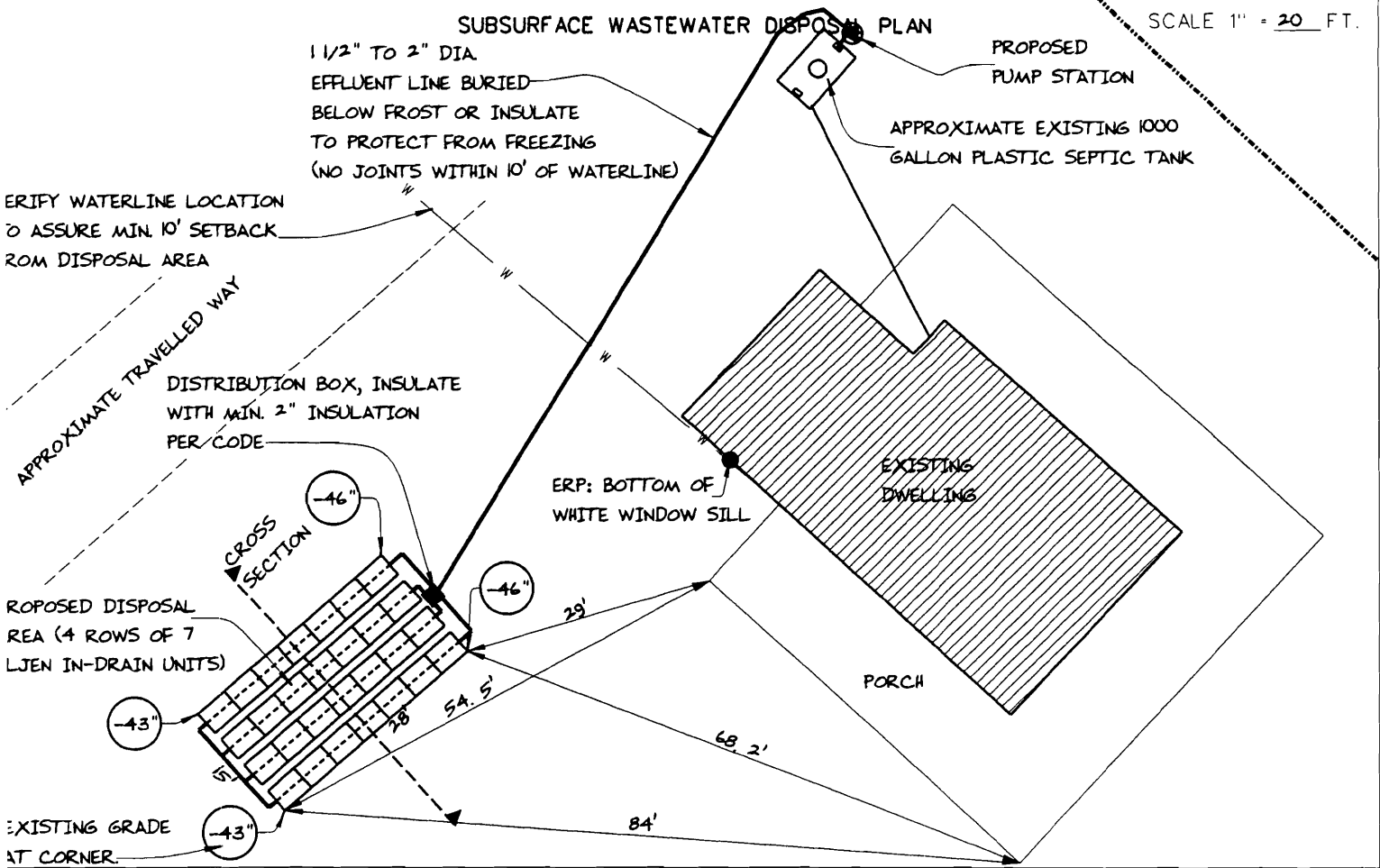
163
 SE

9/16/2009
 Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

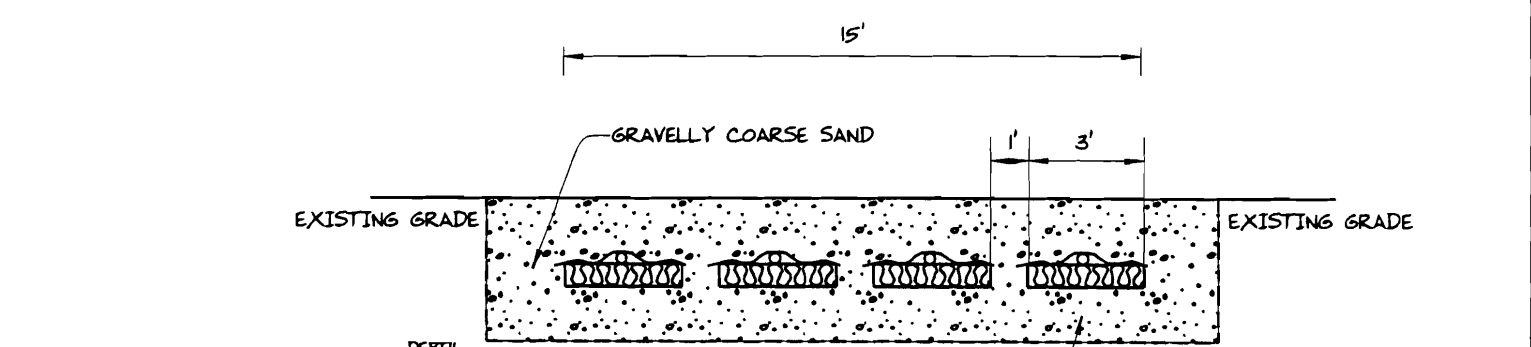
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 Owner's Name: **JONATHAN NOLAN**



BACKFILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT
Depth of Backfill (Upslope) : 0"	Finished Grade Elevation	Location & Description BOTTOM OF WHITE WINDOW SILL, 56" ABOVE GRADE
Depth of Backfill (Downslope) : 0"	Top of Proprietary Device	Reference Elevation is: 0.0" or -----
DEPTHS AT CROSS-SECTION (shown below)	Bottom of Disposal Field	

DISPOSAL FIELD CROSS SECTION
 SCALE: VERTICAL: 1" = 5 FT, HORIZONTAL: 1" = 5 FT



SEOTEXTILE FABRIC	DEPTH BELOW ERP	
PER 4" DIA PERF. PIPE	-58"	
LIVEN IN-DRAIN UNIT	-62"	
	-69"	
	-81"	

REMOVE ALL PORTIONS OF FILL MATERIAL ENCOUNTERED TO A MINIMUM DEPTH OF 1' UNDERNEATH AND 2' ALONGSIDE DISPOSAL AREA AND REPLACE WITH CLEAN GRAVELLY COARSE SAND FILL

Site Evaluator Signature: *Albert Frick*
 SE: 163
 Date: 9/16/2009



Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04038

(207) 839-5563

PORTLAND, CUSHING ISLAND

31 SHORE ROAD

JONATHAN NOLAN

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.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND, CUSHING ISLAND

31 SHORE ROAD

JONATHAN NOLAN

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.

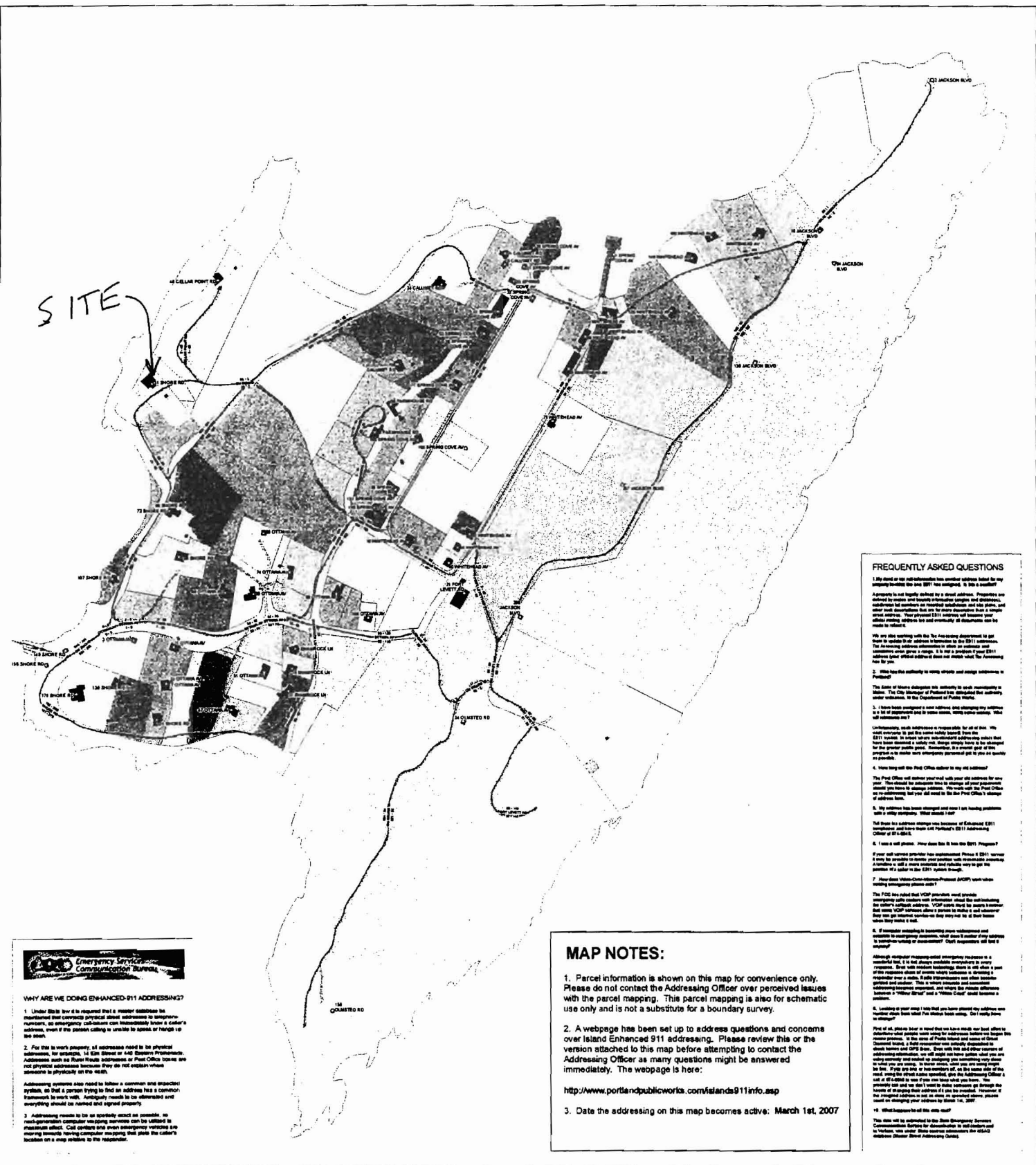
14) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover system. Woody trees or shrubs are not permitted on the disposal area or fill extensions.

15) If an advanced wastewater treatment unit is part of the design, the system shall be operated and maintained per manufacturer's specifications.



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FREQUENTLY ASKED QUESTIONS

1. Why need or use enhanced 911 addresses for my property? The 911 system, as you know, is a radio system. It does not have a visual display. It only has a radio signal. It does not have a visual display. It only has a radio signal. It does not have a visual display. It only has a radio signal.

2. Why has the authority to name streets and assign addresses in Portland?

3. How do I know if my address is correct?

4. How long will the Post Office take to mail my address?

5. How do I know if my address is correct?

6. How do I know if my address is correct?

7. How do I know if my address is correct?

8. How do I know if my address is correct?

9. How do I know if my address is correct?

10. How do I know if my address is correct?

MAP NOTES:

1. Parcel information is shown on this map for convenience only. Please do not contact the Addressing Officer over perceived issues with the parcel mapping. This parcel mapping is also for schematic use only and is not a substitute for a boundary survey.

2. A webpage has been set up to address questions and concerns over Island Enhanced 911 addressing. Please review this or the version attached to this map before attempting to contact the Addressing Officer as many questions might be answered immediately. The webpage is here: <http://www.portlandpublicworks.com/islands911info.asp>

3. Date the addressing on this map becomes active: March 1st, 2007

WHY ARE WE DOING ENHANCED 911 ADDRESSING?

1. Under 2006 it is required that a master database be maintained that connects physical street addresses to telephone numbers, so emergency call-takers can immediately know a caller's address, even if the person calling is unable to speak or hangs up too soon.

2. For the safety of all, addresses need to be physical addresses, for example, 14 Elm Street or 440 Eastern Promenade. Addresses such as Pine Trade addresses or Post Office boxes are not physical addresses because they do not exist where someone is physically on the street.

3. Addressing needs to be as accurate as possible, so next-generation computer mapping services can be utilized to maximum effect. Call centers and other emergency services are moving towards having computer mapping that plots the caller's location on a map relative to the responder.



Enhanced 911 Addressing Plan, Cushing Island, Maine

Map prepared by the City of Portland Dept. of Public Works, January 2007