

090-D-003

Revised

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

**PROPERTY LOCATION**

Town or Plantation: **PORTLAND, PEAKS ISLAND**

Street Subdivision Lot #: **SARGENT ROAD**

**PROPERTY OWNER'S NAME**

Last: **JOHNSON** First: **SHEPARD**

Applicant's Name: \_\_\_\_\_

Mailing Address of Owner: **5 SARGENT ROAD  
PEAKS ISLAND, PORTLAND ME, 04108**

Daytime Tel. #: **766-5640**

*No fee Paid on previous permit*  
**Caution: Permit Required**

The Subsurface Wastewater Disposal System shall not be installed until a Permit is attached here by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

**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

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

Local Plumbing Inspector Signature: *[Signature]* Date Approved: \_\_\_\_\_

## PERMIT INFORMATION

**TYPE OF APPLICATION:**

- First Time System
- Replacement System  
Type Replaced \_\_\_\_\_  
Year Installed \_\_\_\_\_
- Expanded System  
 a. one time exempted  
 b. non exempted
- Experimental System
- Seasonal Conversion

**THIS APPLICATION REQUIRES:**

- No Rule Variance
- New System Variance (Municipal-soil condition)
- First Time System Variance (State)
- Replacement System Variance  
 a. Local Plumbing Inspector approval  
 b. State & Local Plumbing Inspector approval
- Minimum Lot Size Variance
- Seasonal Conversion Approval

**DISPOSAL SYSTEM COMPONENT(S)**

- Non-Engineered System
- Primitive System (graywater & all toilet)
- Alternative Toilet \_\_\_\_\_
- Non-Engineered Treatment Tank
- Holding Tank \_\_\_\_\_ Gallons
- Non-Engineered Disposal Area (only)
- Separated Laundry System
- Engineered System (+2000 gpd)
- Engineered Treatment Tank (only)
- Engineered Disposal Area (only)
- Pretreatment

**SIZE OF PROPERTY**

± \_\_\_\_\_

**SHORELAND ZONING**

Yes  No

**DISPOSAL SYSTEM TO SERVE:**

- Single Family Dwelling Unit
- Multiple Family Dwelling: Number of Units \_\_\_\_\_
- Other \_\_\_\_\_

**TYPE OF WATER SUPPLY**

**PUBLIC WATER**

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

**TREATMENT TANK**

- Concrete  
 a. Regular  
 b. Low Profile
- Plastic
- Other \_\_\_\_\_

SIZE 1000 Gallons

**DISPOSAL AREA TYPE / SIZE**

- Bed \_\_\_\_\_ Sq. Ft.
- Proprietary Device 960 Sq. Ft.  
 Cluster  Linear  
 Regular  H-20
- Trench
- Other \_\_\_\_\_

**20 ELGEN IN-DRAINS**

**GARBAGE DISPOSAL UNIT**

- No
- Yes  
 Multi-compartment tank  
 Tank in series  
 Increase in tank capacity  
 Filter on tank outlet

**CRITERIA USED FOR DESIGN FLOW (Show Calculations)**

**SINGLE FAMILY DWELLING**  
**2 - 3 BEDROOMS**  
**90 GPD/BEDROOM =**

**PROFILE & DESIGN CLASS**

PROFILE	DESIGN
<u>3</u>	<u>C</u>

DEPTH TO MOST LIMITING FACTOR 22 "

**DISPOSAL AREA SIZING**

- Small - 2.00
- Medium - 2.60
- Medium-Large - 3.30
- Large - 4.10
- Extra-Large - 5.00

**PUMPING**

- Not required
- May be required
- Required

DOSE 100 +/- Gallons

DESIGN FLOW: 270  
(Gallons/Day)

## SITE EVALUATOR'S STATEMENT

On 6/22/99 (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*  
Site Evaluator Signature

163  
SE \*

7/9/99  
Date

(766-5640)

Town, City, Plantation  
**FORTLAND, PEAKS ISLAND**

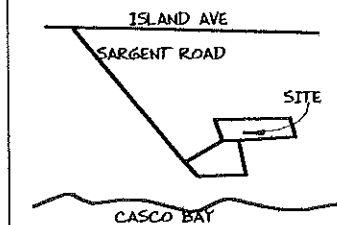
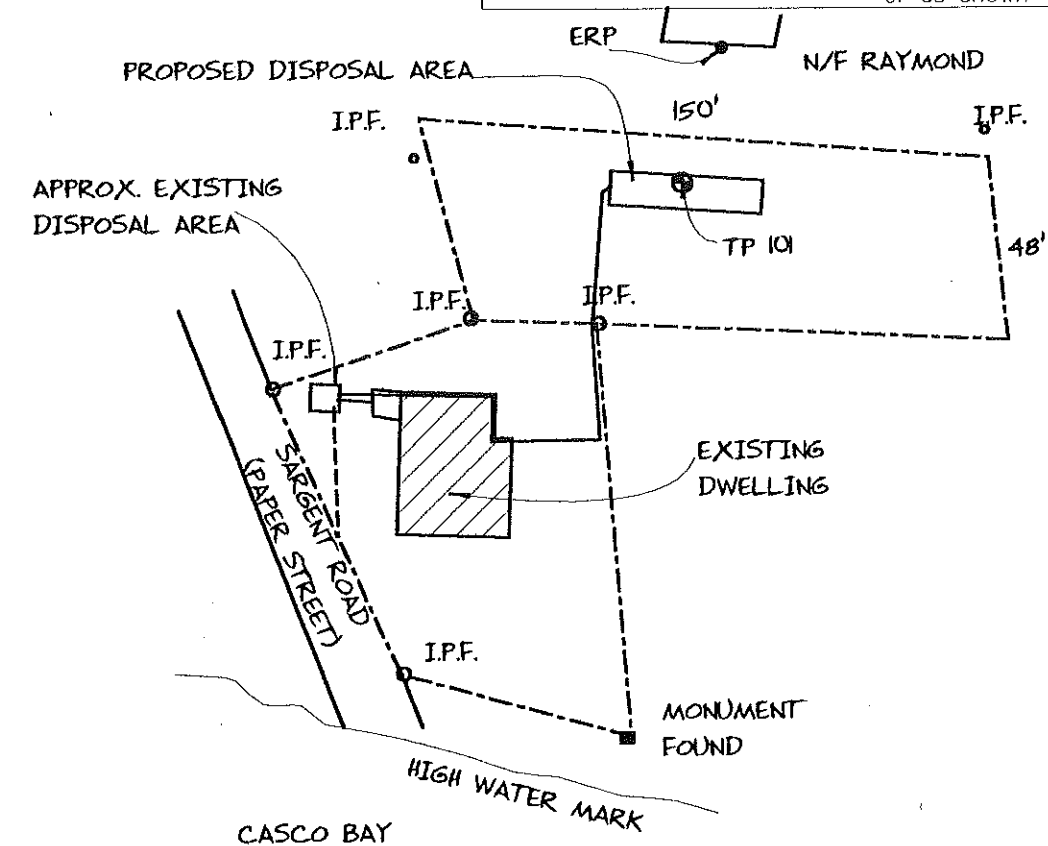
Street, Road Subdivision  
**SARGENT ROAD**

Owner's Name  
**SHEPARD JOHNSON**

SITE PLAN

Scale 1" = 50 Ft.  
 or as shown

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



**SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)**

Observation Hole TP 101  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

Observation Hole \_\_\_\_\_  Test Pit  Boring  
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DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	SANDY		DARK	
	LOAM		BROWN	
10		FRIABLE	DARK	
			YELLOW	
20	LOAMY		BROWN	
	SAND			
30		FIRM	LIGHT	COMMON
			OLIVE	DISTINCT
40	LIMIT OF EXCAVATION			
50				

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification S C Slope \_\_\_\_\_ %  
 Profile Condition Limiting Factor 22"  
 Ground Water  
 Restrictive Layer  
 Bedrock  
 Pit Depth

Soil Classification \_\_\_\_\_ Slope \_\_\_\_\_ %  
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 Restrictive Layer  
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*Albert Frick*  
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# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

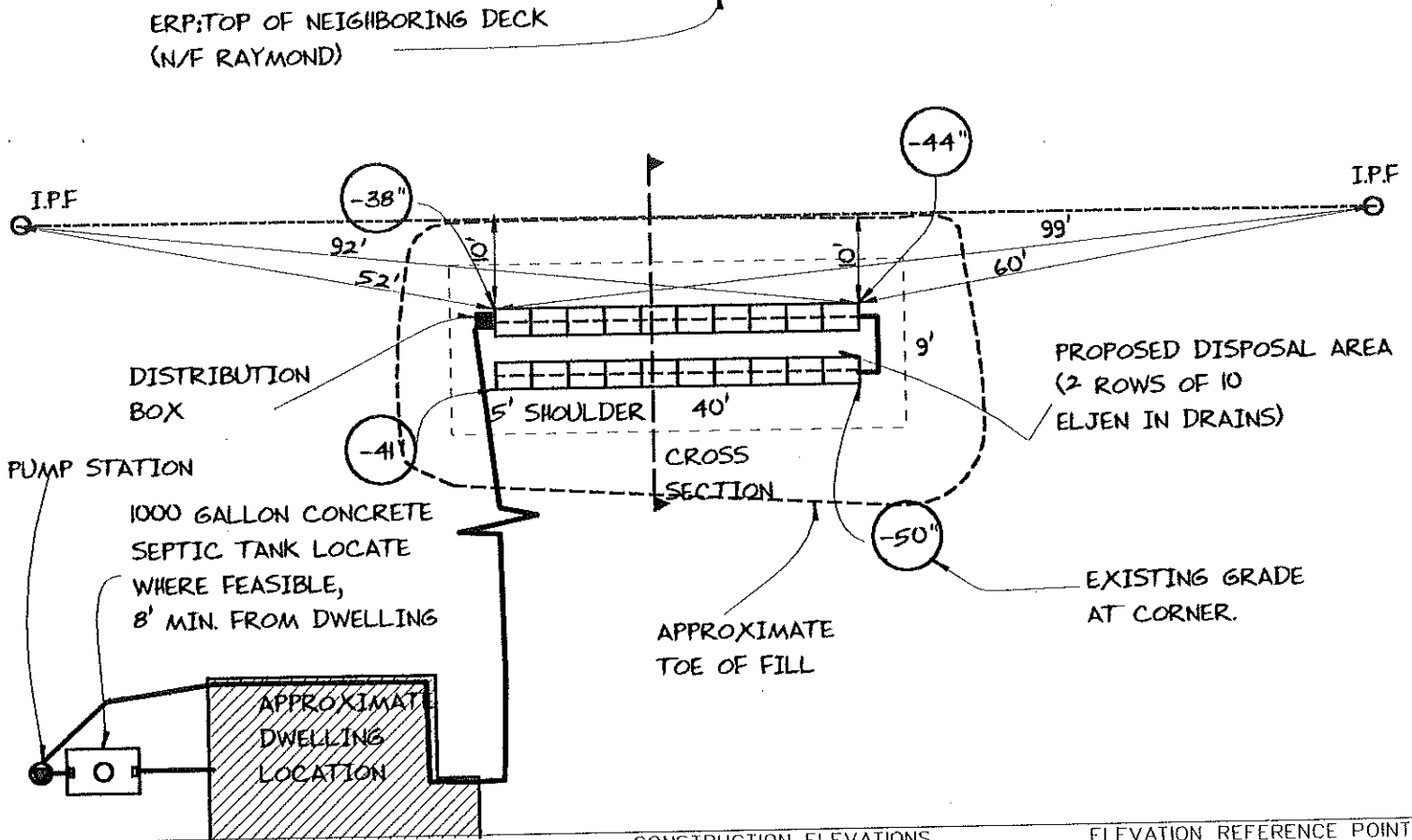
Town, City, Plantation  
**PORTLAND, PEAKS ISLAND**

Street, Road, Subdivision  
**SARGENT ROAD**

Owner's Name  
**SHEPARD JOHNSON**

## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



### FILL REQUIREMENTS

Depth of Fill (Upslope) : 14" - 20"  
Depth of Fill (Downslope) : 17" - 26"

### CONSTRUCTION ELEVATIONS

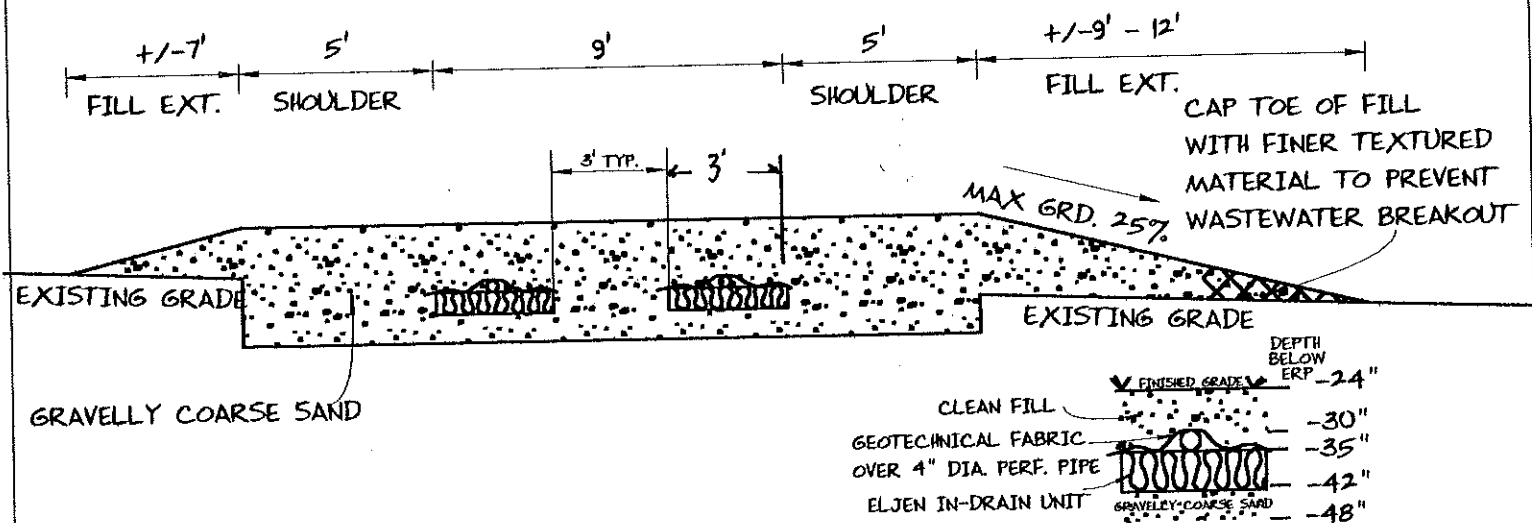
Finished Grade Elevation : -24"  
Top of Distribution Pipe or Proprietary Device : -30"  
Bottom of Disposal Area : -42"

### ELEVATION REFERENCE POINT

Location & Description : TOP OF NEIGHBORING DECK (N/F RAYMOND)  
Reference Elevation : 00"

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

### DISPOSAL AREA CROSS SECTION



*Albert Frick*  
Site Evaluator Signature

163  
SE #

7/9/99  
Date



**Albert Frick Associates, Inc.**

**Soil Scientists & Site Evaluators**

95A County Road Gorham, Maine 04038

(207) 839-5563

5 SARGENT ROAD

PORTLAND,	PEAKS ISLAND	MAP 90-D,	LOTS 16,3	JOHNSON
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

5 SARGENT RD.  
PORTLAND, PEAKS ISLAND MAP 90-D, LOTS 16, 3 JOHNSON  
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.



Albert Frick Associates, Inc.  
Soil Scientists & Site Evaluators  
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Daytime Tel. #: **766-5640**

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**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

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

Local Plumbing Inspector Signature: *[Signature]* Date Approved: **17 July 99**

## PERMIT INFORMATION

<p><b>TYPE OF APPLICATION:</b></p> <p>1. <input type="checkbox"/> First Time System</p> <p>2. <input checked="" type="checkbox"/> Replacement System Type Replaced _____ Year Installed _____</p> <p>3. <input type="checkbox"/> Expanded System <input type="checkbox"/> a. one time exempted <input type="checkbox"/> b. non exempted</p> <p>4. <input type="checkbox"/> Experimental System</p> <p>5. <input type="checkbox"/> Seasonal Conversion</p>	<p><b>THIS APPLICATION REQUIRES:</b></p> <p>1. <input type="checkbox"/> No Rule Variance</p> <p>2. <input type="checkbox"/> New System Variance (Municipal-soil condition)</p> <p>3. <input type="checkbox"/> First Time System Variance (State)</p> <p>4. <input checked="" type="checkbox"/> Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector approval <input type="checkbox"/> b. State &amp; Local Plumbing Inspector approval</p> <p>5. <input type="checkbox"/> Minimum Lot Size Variance</p> <p>6. <input type="checkbox"/> Seasonal Conversion Approval</p>	<p><b>DISPOSAL SYSTEM COMPONENT(S)</b></p> <p>1. <input checked="" type="checkbox"/> Non-Engineered System</p> <p>2. <input type="checkbox"/> Primitive System (graywater &amp; alt toilet)</p> <p>3. <input type="checkbox"/> Alternative Toilet _____</p> <p>4. <input type="checkbox"/> Non-Engineered Treatment Tank</p> <p>5. <input type="checkbox"/> Holding Tank _____ Gallons</p> <p>6. <input type="checkbox"/> Non-Engineered Disposal Area (only)</p> <p>7. <input type="checkbox"/> Separated Laundry System</p> <p>8. <input type="checkbox"/> Engineered System (&gt;2000 gpd)</p> <p>9. <input type="checkbox"/> Engineered Treatment Tank (only)</p> <p>10. <input type="checkbox"/> Engineered Disposal Area (only)</p> <p>11. <input type="checkbox"/> Pretreatment</p>
<p><b>SIZE OF PROPERTY</b></p> <p>_____</p>	<p><b>DISPOSAL SYSTEM TO SERVE:</b></p> <p>1. <input checked="" type="checkbox"/> Single Family Dwelling Unit</p> <p>2. <input type="checkbox"/> Multiple Family Dwelling: Number of Units _____</p> <p>3. <input type="checkbox"/> Other _____</p>	<p><b>TYPE OF WATER SUPPLY</b></p> <p><b>PUBLIC WATER</b></p>
<p><b>SHORELAND ZONING</b></p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		

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

<p><b>TREATMENT TANK</b></p> <p>1. <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile</p> <p>2. <input type="checkbox"/> Plastic</p> <p>3. <input type="checkbox"/> Other _____</p> <p>SIZE <b>1000</b> Gallons</p>	<p><b>DISPOSAL AREA TYPE / SIZE</b></p> <p>1. <input type="checkbox"/> Bed _____ Sq. Ft.</p> <p>2. <input checked="" type="checkbox"/> Proprietary Device <b>960</b> Sq. Ft. <input type="checkbox"/> Cluster <input checked="" type="checkbox"/> Linear <input checked="" type="checkbox"/> Regular <input type="checkbox"/> H-20</p> <p>3. <input type="checkbox"/> Trench</p> <p>4. <input type="checkbox"/> Other _____</p> <p><b>20 ELGEN IN-DRAINS</b></p>	<p><b>GARBAGE DISPOSAL UNIT</b></p> <p>1. <input checked="" type="checkbox"/> No</p> <p>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</p>	<p><b>CRITERIA USED FOR DESIGN FLOW (Show Calculations)</b></p> <p><b>SINGLE FAMILY DWELLING 2 - 3 BEDROOMS 90 GPD/BEDROOM =</b></p>				
<p><b>PROFILE &amp; DESIGN CLASS</b></p> <table border="1"> <tr> <td>PROFILE</td> <td>DESIGN</td> </tr> <tr> <td><b>3</b></td> <td><b>C</b></td> </tr> </table> <p>DEPTH TO MOST LIMITING FACTOR <b>22"</b></p>	PROFILE	DESIGN		<b>3</b>	<b>C</b>	<p><b>DISPOSAL AREA SIZING</b></p> <p>1. <input type="checkbox"/> Small - 2.00</p> <p>2. <input checked="" type="checkbox"/> Medium - 2.60</p> <p>3. <input type="checkbox"/> Medium-Large - 3.30</p> <p>4. <input type="checkbox"/> Large - 4.10</p> <p>5. <input type="checkbox"/> Extra-Large - 5.00</p>	<p><b>PUMPING</b></p> <p>1. <input type="checkbox"/> Not required</p> <p>2. <input type="checkbox"/> May be required</p> <p>3. <input checked="" type="checkbox"/> Required</p> <p>DOSE <b>100+/-</b> Gallons</p>
PROFILE	DESIGN						
<b>3</b>	<b>C</b>						

## SITE EVALUATOR'S STATEMENT

On **6/22/99** (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*  
Site Evaluator Signature

**163**  
SE \*

**7/9/99**  
Date

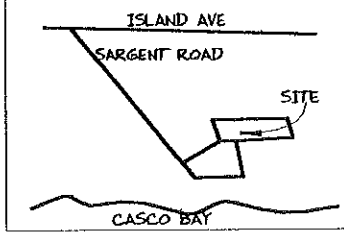
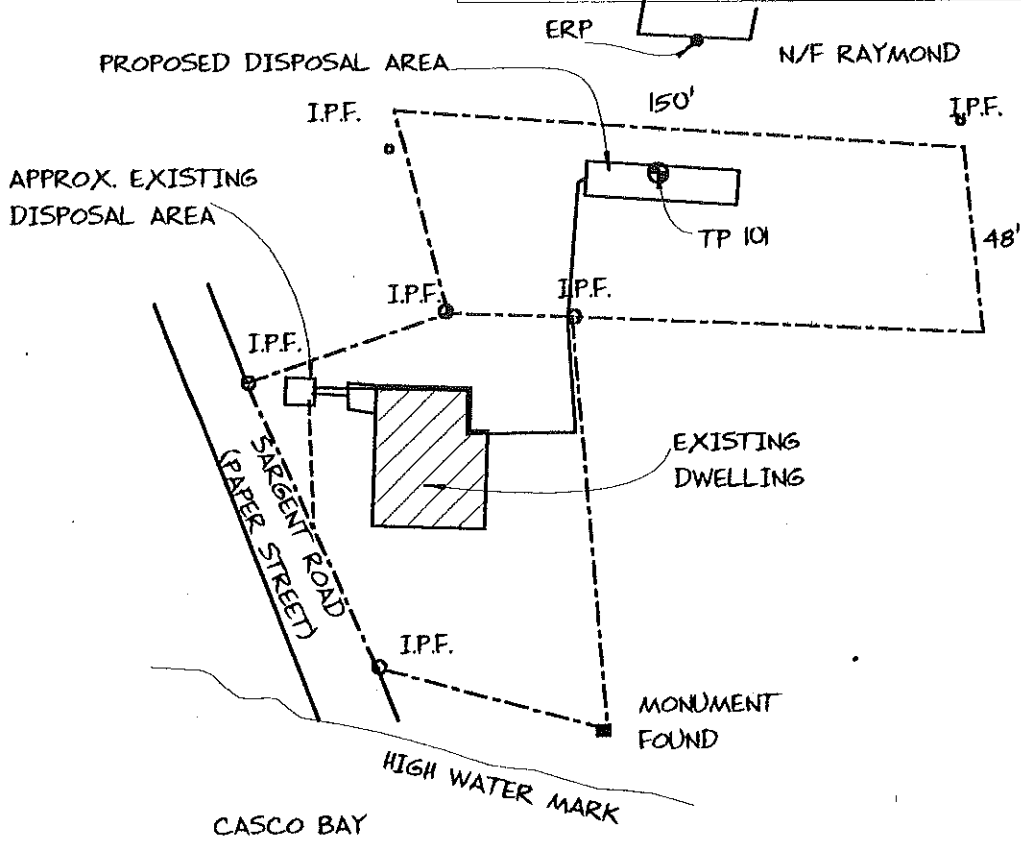
Town, City, Plantation  
**PORTLAND, PEAKS ISLAND**

Street, Road Subdivision  
**SARGENT ROAD**

Owner's Name  
**SHEPARD JOHNSON**

SITE PLAN Scale 1" = 50 Ft.  
 or as shown

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



**SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)**

Observation Hole TP 101  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	SANDY		DARK	
0-10	LOAM		BROWN	
10-20		FRIABLE	DARK YELLOW	
20-30	LOAMY SAND		BROWN	
30-40		FIRM	LIGHT OLIVE	COMMON, DISTINCT
40	LIMIT OF EXCAVATION			
50				

Soil Classification S C Slope \_\_\_\_\_ %  
 Profile Condition  
 Limiting Factor 22"  
 Ground Water  
 Restrictive Layer  
 Bedrock  
 Pit Depth

Observation Hole \_\_\_\_\_  Test Pit  Boring  
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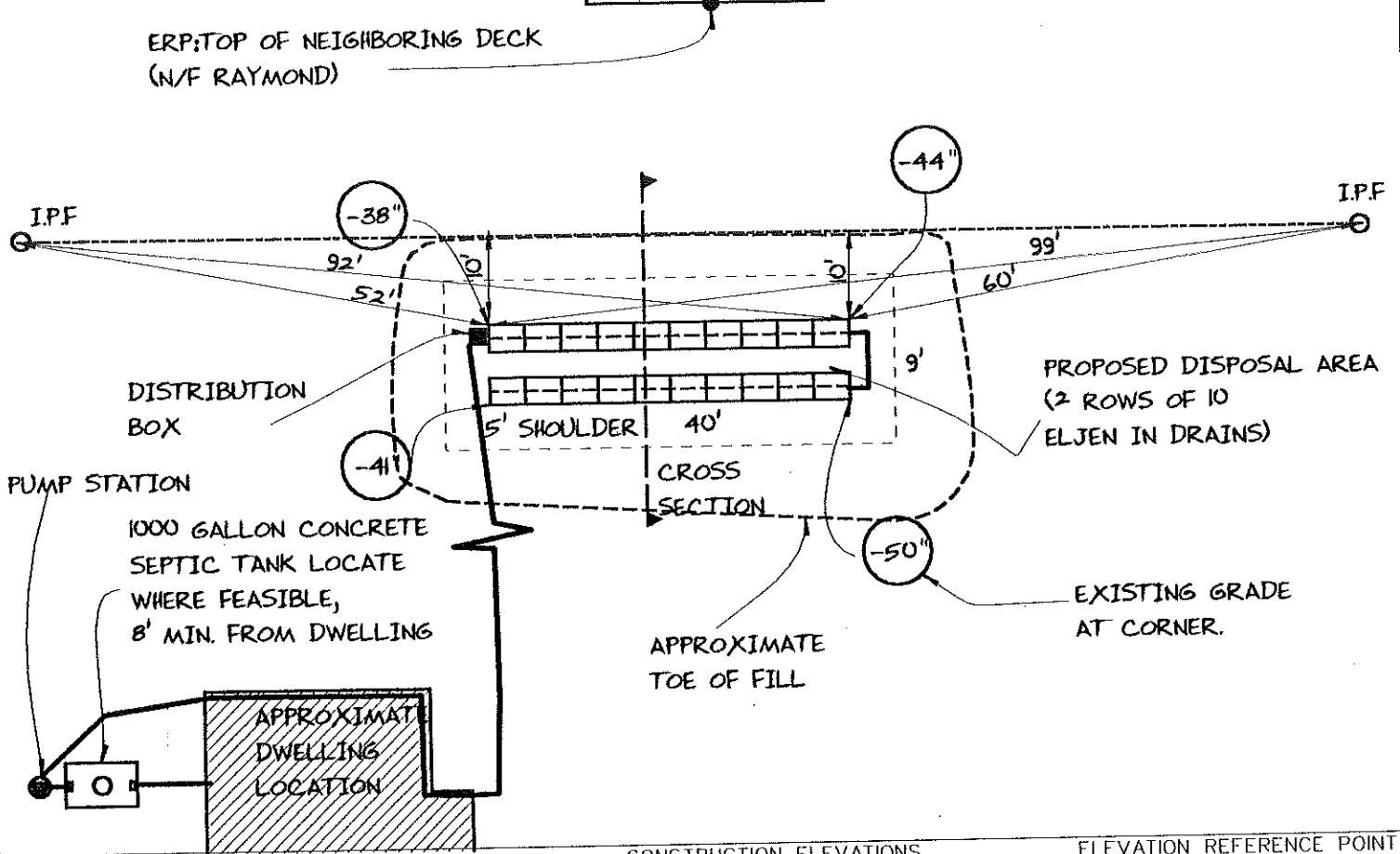
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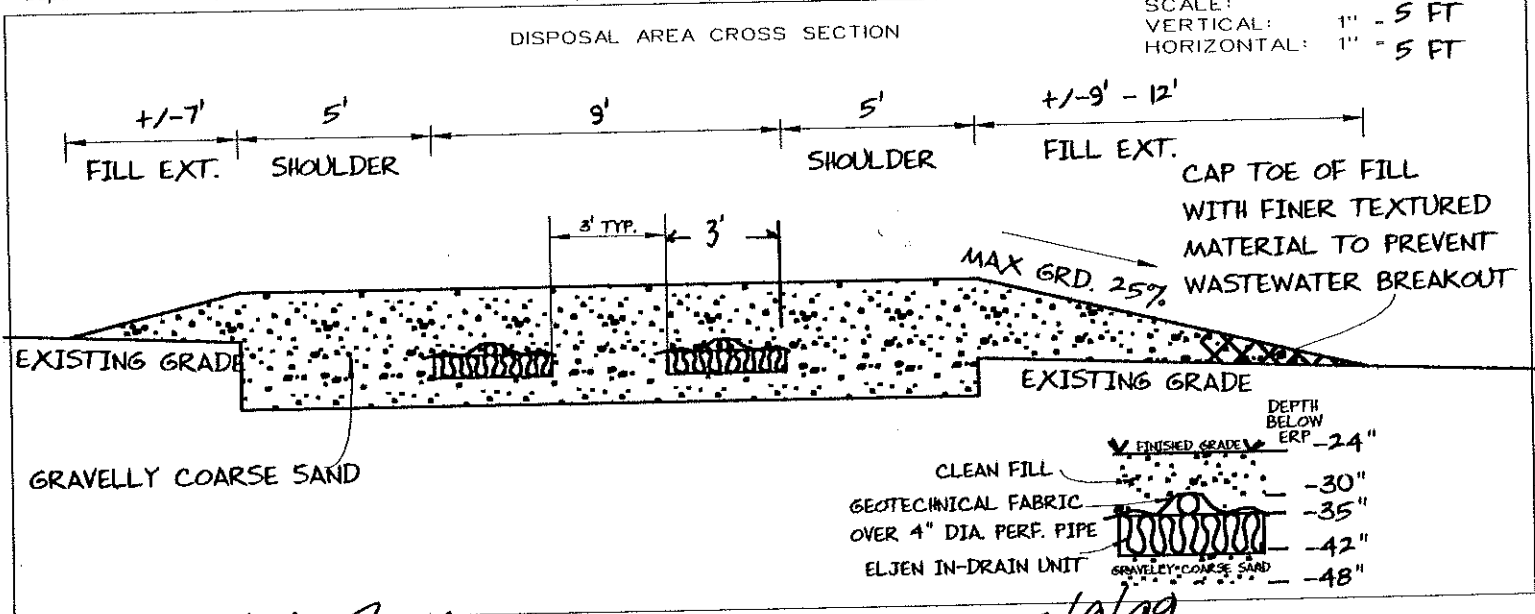
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## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT	
Depth of Fill (Upslope)	: 14" - 20"	Finished Grade Elevation	-24"	Location & Description	TOP OF NEIGHBORING DECK (N/F RAYMOND)
Depth of Fill (Downslope)	: 17" - 26"	Top of Distribution Pipe or Proprietary Device	-30"	Reference Elevation	00"
		Bottom of Disposal Area	-42"		



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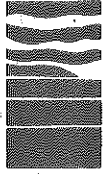
ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

5 SARGENT RD.  
PORTLAND, PEAKS ISLAND MAP 90-D, LOTS 16, 3 JOHNSON  
TOWN LOCATION APPLICANT'S NAME

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(207) 839-5563 FAX (207) 839-5564

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

July 9, 1999

Sam Hoffses, CEO  
City of Portland  
389 Congress Street  
Portland, ME 04101

Re: Shepard Johnson property, Sargent Road, Peaks Island, Portland

Dear Sam:

Enclosed is a copy of the revised replacement subsurface wastewater disposal system.

Mr. Johnson is considering installing the system in stages. He is considering installing a replacement 1,000 gallon septic tank initially and connecting to the existing disposal area, using the field until it fails in the future, and then installing the pump station and replacement system as designed.

Please contact me if you have any further questions or matters for additional discussion.

Respectfully,

Albert Frick

AF/nd

cc. Shepard Johnson

*Received  
7/14/99*

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION	
Town or Plantation	PORTLAND, PEAKS ISLAND
Street Subdivision Lot *	SARGENT ROAD
PROPERTY OWNER'S NAME	
Last: JOHNSON	First: SHEPARD
Applicant's Name	
Mailing Address of Owner	5 SARGENT ROAD PEAKS ISLAND, PORTLAND ME, 04108
Daytime Tel. *	766-5640

**Caution: Permit Required**

The Subsurface Wastewater Disposal System shall not be installed until a Permit is attached here by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

**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

\_\_\_\_\_  
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

*[Signature]*  
Local Plumbing Inspector Signature

17 July 99  
Date Approved

## PERMIT INFORMATION

**TYPE OF APPLICATION:**

- First Time System
- Replacement System  
Type Replaced \_\_\_\_\_  
Year Installed \_\_\_\_\_
- Expanded System  
 a. one time exempted  
 b. non exempted
- Experimental System
- Seasonal Conversion

**THIS APPLICATION REQUIRES:**

- No Rule Variance
- New System Variance (Municipal-soil condition)
- First Time System Variance (State)
- Replacement System Variance  
 a. Local Plumbing Inspector approval  
 b. State & Local Plumbing Inspector approval
- Minimum Lot Size Variance
- Seasonal Conversion Approval

**DISPOSAL SYSTEM COMPONENT(S)**

- Non-Engineered System
- Primitive System (graywater & all toilet)
- Alternative Toilet \_\_\_\_\_
- Non-Engineered Treatment Tank
- Holding Tank \_\_\_\_\_ Gallons
- Non-Engineered Disposal Area (only)
- Separated Laundry System
- Engineered System (>2000 gpd)
- Engineered Treatment Tank (only)
- Engineered Disposal Area (only)
- Pretreatment

**SIZE OF PROPERTY**

\_\_\_\_\_

**DISPOSAL SYSTEM TO SERVE:**

- Single Family Dwelling Unit
- Multiple Family Dwelling: Number of Units \_\_\_\_\_
- Other \_\_\_\_\_

**SHORELAND ZONING**

Yes  No

**TYPE OF WATER SUPPLY**

**PUBLIC WATER**

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

**TREATMENT TANK**

- Concrete  
 a. Regular  
 b. Low Profile
- Plastic
- Other \_\_\_\_\_

SIZE 1000 Gallons

**DISPOSAL AREA TYPE / SIZE**

- Bed \_\_\_\_\_ Sq. Ft.
- Proprietary Device 960 Sq. Ft.  
 Cluster  Linear  
 Regular  H-20
- Trench
- Other \_\_\_\_\_

**20 ELGEN IN-DRAINS**

**GARBAGE DISPOSAL UNIT**

- No
- Yes  
 Multi-compartment tank  
 Tank in series  
 Increase in tank capacity  
 Filter on tank outlet

**CRITERIA USED FOR DESIGN FLOW (Show Calculations)**

**SINGLE FAMILY DWELLING**  
**2 - 3 BEDROOMS**  
**90 GPD/BEDROOM =**

**PROFILE & DESIGN CLASS**

PROFILE	DESIGN
<u>3</u>	<u>C</u>

DEPTH TO MOST LIMITING FACTOR 22"

**DISPOSAL AREA SIZING**

- Small - 2.00
- Medium - 2.60
- Medium-Large - 3.30
- Large - 4.10
- Extra-Large - 5.00

**PUMPING**

- Not required
- May be required
- Required

DOSE 100+/- Gallons

DESIGN FLOW: 270  
(Gallons/Day)

## SITE EVALUATOR'S STATEMENT

On 6/22/99 (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*  
Site Evaluator Signature

163  
SE \*

7/9/99  
Date

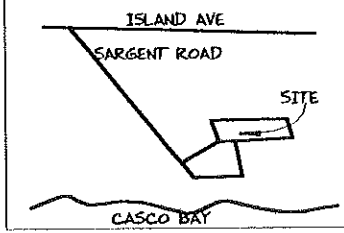
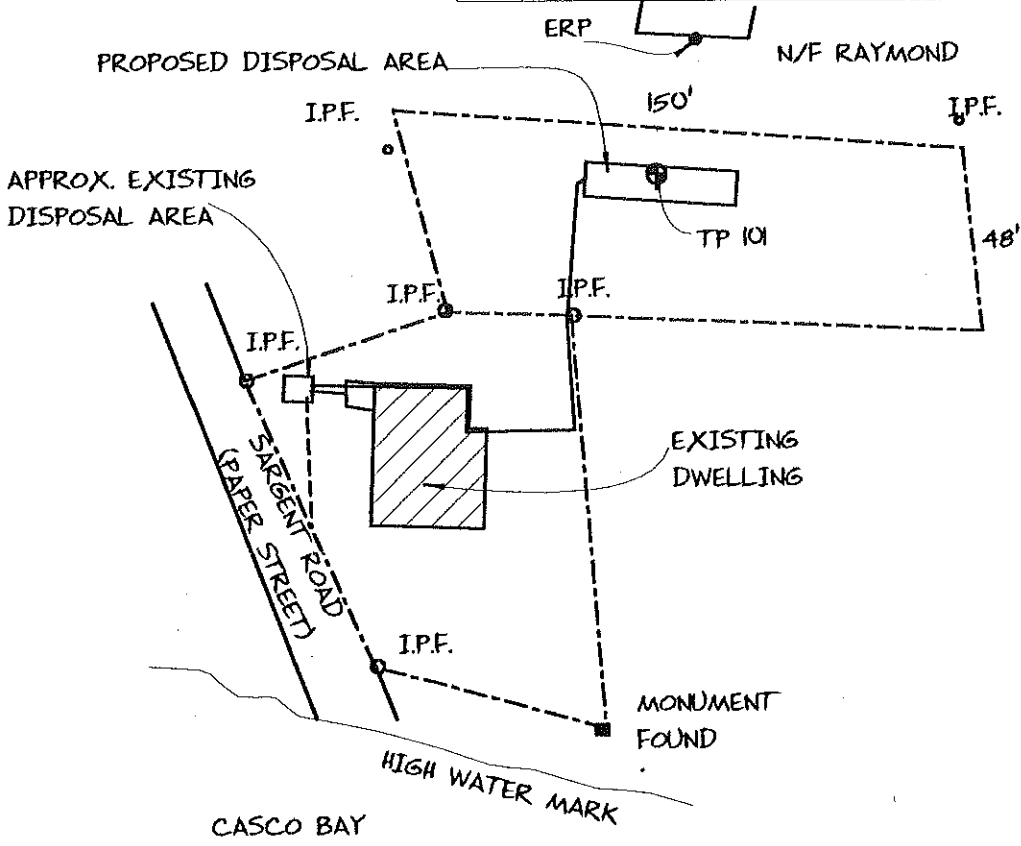
Town, City, Plantation  
**PORTLAND, PEAKS ISLAND**

Street, Road Subdivision  
**SARGENT ROAD**

Owner's Name  
**SHEPARD JOHNSON**

SITE PLAN Scale 1" = 50 Ft. or as shown

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



**SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)**

Observation Hole TP 101  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	SANDY		DARK	
0	LOAM		BROWN	
10		FRIABLE	DARK	
10			YELLOW	
20	LOAMY		BROWN	
20	SAND			
30		FIRM	LIGHT	COMMON,
30			OLIVE	DISTINCT
40	LIMIT OF EXCAVATION			

Soil Classification <b>S</b> <b>C</b>	Slope _____ %	Limiting Factor <b>22"</b>	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
Profile      Condition			

Observation Hole \_\_\_\_\_  Test Pit  Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

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

*Albert Frick*  
 Site Evaluator Signature

163  
 SE \*

**7/9/99**  
 Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

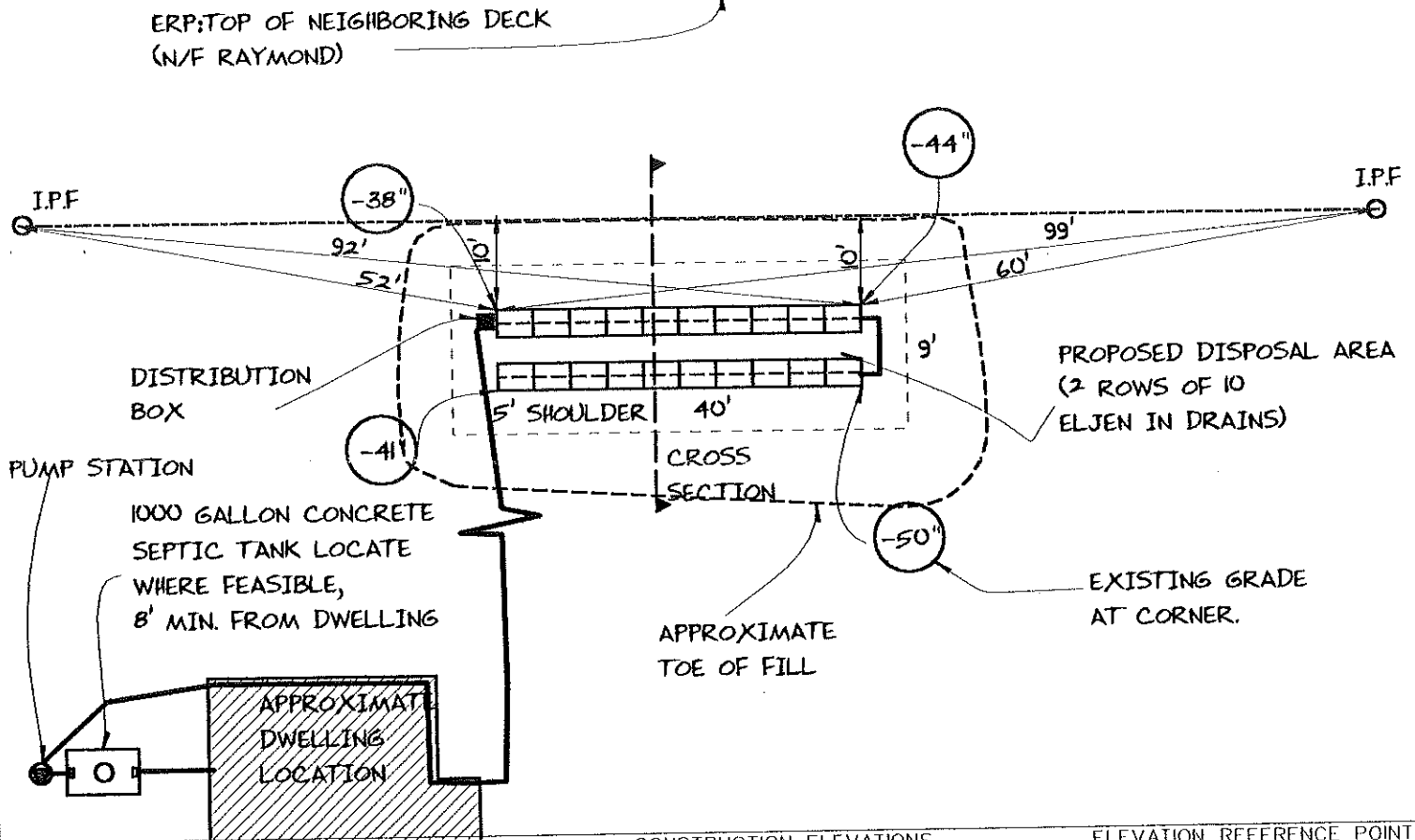
Town, City, Plantation  
**PORTLAND, PEAKS ISLAND**

Street, Road, Subdivision  
**SARGENT ROAD**

Owner's Name  
**SHEPARD JOHNSON**

## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' FT.



### FILL REQUIREMENTS

Depth of Fill (Upslope) : 14" - 20"  
Depth of Fill (Downslope) : 17" - 26"

### CONSTRUCTION ELEVATIONS

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

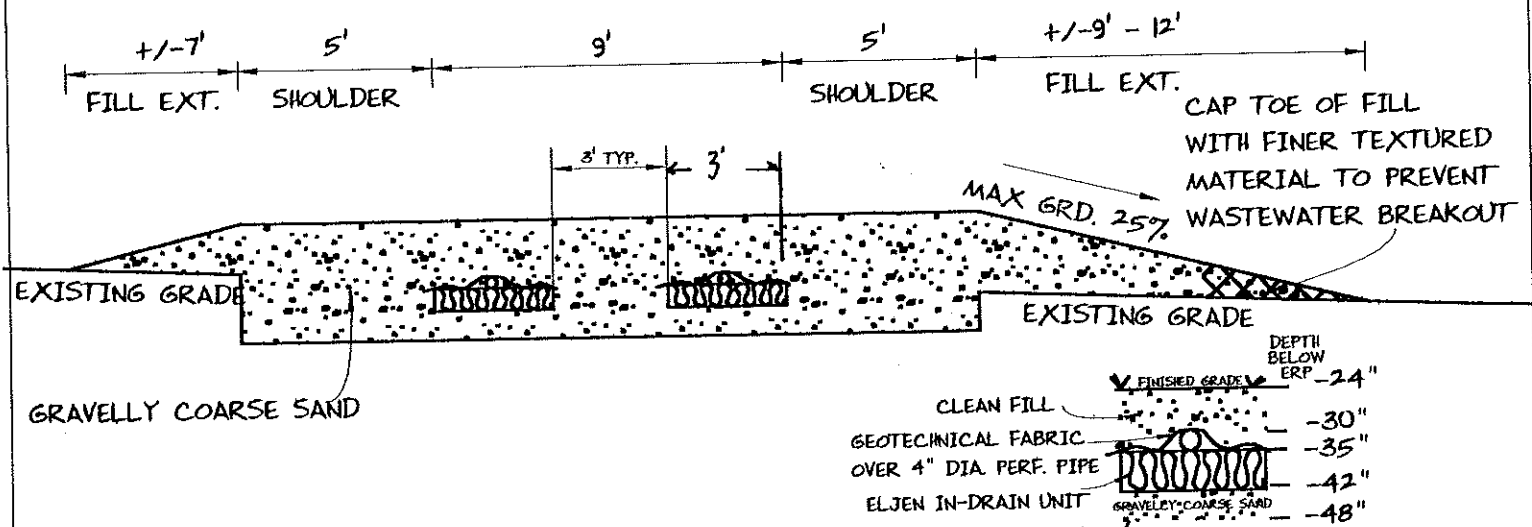
-24"  
-30"  
-42"

### ELEVATION REFERENCE POINT

Location & Description TOP OF NEIGHBORING DECK (N/W RAYMOND)  
Reference Elevation 00"

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

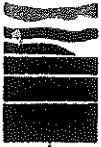
### DISPOSAL AREA CROSS SECTION



*Albert Frick*  
Site Evaluator Signature

163  
SE \*

7/9/99  
Date



**Albert Frick Associates, Inc.**

Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04038

(207) 839-5563

5 SARGENT ROAD

PORTLAND, PEAKS ISLAND MAP 90-D, LOTS 16,3 JOHNSON  
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      5 SARGENT RD.  
TOWN      LOCATION      MAP 90-D, LOTS 16, 3      JOHNSON  
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.



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