

Department of Health and Human Services  
Maine Center for Disease Control and Prevention  
286 Water Street  
# 11 State House Station  
Augusta, Maine 04333-0011  
Tel: (207) 287-5672  
Fax: (207) 287-4172; TTY: 1-800-606-0215

## SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

<b>GENERAL INFORMATION</b>	Town of <u>Portland (Peaks Island)</u>
Property Owner's Name: <u>Kristen MacLeod (C/O Monica Stevenson)</u>	Tel. No.: _____
System's Location: <u>531 Island Avenue (Map 90, Lot R-1,2)</u>	
Property Owner's Address: _____	Zip Code _____
e-mail address: _____	

The subsurface wastewater disposal system design for the subject property requires a  replacement system variance  first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires  local approval  local and state approval.

<b>SPECIFIC VARIANCE REQUESTED</b> (To be filled in by Site Evaluator. Use additional sheets if needed.)	<b>SECTION OF RULE</b>
1. <u>To allow a replacement disposal field to be installed 11' from a full foundation</u>	<u>8 (Table 8 A)</u>
2. _____	_____
3. _____	_____

### SITE EVALUATOR

When a property is found to be unsuitable for subsurface wastewater disposal by a licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a variance to the Rules, and the Evaluator in his professional opinion feels the variance request is justified and the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate sheet if necessary.

I, Albert Frick, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.

Albert Frick 11/27/12 REVISED  
SIGNATURE OF SITE EVALUATOR DATE

### PROPERTY OWNER

I, \_\_\_\_\_, am the  owner  agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

Monica Stevenson 11/27/12  
 SIGNATURE OF OWNER DATE  
 AGENT FOR THE OWNER

**LOCAL PLUMBING INSPECTOR - Approval at local level**

The local plumbing inspector shall review all First Time System Variance requests prior to rendering a decision.

I, \_\_\_\_\_, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (  does  does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (  do  do not) approve the requested variance. I (  will  will not) issue a permit for the system's installation as proposed by the application.

\_\_\_\_\_ LPI Signature \_\_\_\_\_ Date

**LOCAL PLUMBING INSPECTOR - Referral to the Department**

The local plumbing inspector shall review all First Time System Variance requests prior to forwarding to the Division of Environmental Health.

I, \_\_\_\_\_, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (  does  does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (  do  do not) recommend the issuance of a permit for the system's installation as proposed by the application.

\_\_\_\_\_ LPI Signature \_\_\_\_\_ Date

**FOR USE BY THE DEPARTMENT ONLY**

The Department has reviewed the variance(s) and (  does  does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

\_\_\_\_\_ SIGNATURE OF THE DEPARTMENT \_\_\_\_\_ DATE

- Notes: 1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 7.B.4 of the Subsurface Wastewater Disposal Rules for Municipal Review.)
2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

**SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).**

	CHARACTERISTIC	POINT ASSESSMENT
Soil Profile		
Depth to Groundwater/Restrictive Layer		
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposal Area Adjustment		
Vertical Separation Distance		
Additional Treatment		
<b>TOTAL POINT ASSESSMENT:</b>		

Minimum Points (Check One):  Outside Shoreland Zone-50  Inside Shoreland Zone-65  Subdivision-65

**REPLACEMENT SYSTEM VARIANCE REQUEST ATTACHMENT**  
**Table 8A**  
**Setback Distances for Replacement System, Limits of LPI Authority**

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	Disposal Fields (total design flow)			Septic Tanks and Holding Tanks (total design flow)			Disposal Fields	Septic Tanks
	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
SOILS								
Soil Profile	Ground Water Table						inches	
Soil Condition	Restrictive Layer						inches	
from HHE-200	Bedrock						inches	
Site Features vs. disposal system components of various sizes	Disposal Fields (total design flow)			Septic Tanks and Holding Tanks (total design flow)			Disposal Fields	Septic Tanks
	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	150 ft	150 ft	150 ft		
Potable Supply Well	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	50 down to 25 ft	100 down to 50 ft	100 down to 50 ft		
Water supply line	10 ft	20 ft	25 ft	10 ft	10 ft	10 ft		
Water course, major	100 down to 50 ft	200 down to 120 ft	300 down to 180 ft	100 down to 25 ft [a]	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 20 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Edge of fill extension – Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	20 ft	25 ft	25 ft	25 ft	25 ft	25 ft		
Slopes greater than 3:1	10 ft	18 ft	25 ft	N/A	N/A	N/A		
No full basement [e.g. slab.]	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement [below grade foundation, frost wall, columns]	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft	11'	
Property lines	10 down to 5 ft [b]	18 down to 9 ft [b]	20 down to 10 ft [b]	10 down to 4 ft [b]	15 down to 7 ft [b]	20 down to 10 ft [b]		
Burial sites or graveyards boundaries, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		
Stormwater infiltration systems	100 down to 60 feet	200 down to 120 feet	300 down to 180 feet	100 down to 50 feet	100 down to 50 feet	100 down to 50 feet		
Wetponds, retention ponds, and detention basins (excavated below grade); Soil filters underdrained swales, underdrained outlets, and similar structures	50 down to 25 feet	100 down to 50 feet	150 down to 75 feet	50 down to 25 feet	50 down to 25 feet	50 down to 25 feet		
Stormwater detention basins (basin bottom at, or above, predevelopment grade)	25 down to 12 feet	50 down to 25 feet	75 down to 35 feet	25 down to 12 feet	25 down to 12 feet	25 down to 12 feet		
<b>OTHER</b>								
1.								
2.								
3.								

**Notes:**

[a.] This distance may be reduced to 25 feet, if the septic or holding tank is tested in LPI's presence and shown to be watertight or of monolithic construction.

[b.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[c.] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high water mark of a major water body/ course must comply with these Rules pertaining to work adjacent to or within wetlands and waterbodies (see Section 11(M)).

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services  
Div of Environmental Health, 11 SHS  
(207) 287-5672 FAX (207) 287-3165

**PROPERTY LOCATION**

City, Town, or Plantation: PORTLAND (PEAKS ISLAND)

Street or Road: 531 ISLAND AVENUE

Subdivision, Lot #: \_\_\_\_\_

**>>CAUTION: LPI APPROVAL REQUIRED<<**

Town/City: \_\_\_\_\_ Permit #: \_\_\_\_\_

Date Permit Issued: \_\_\_/\_\_\_/\_\_\_ Fee \$: \_\_\_\_\_ Double Fee Charged [ ]

LPI #: \_\_\_\_\_

**OWNER/APPLICANT INFORMATION**

Name (last, first, MI): N/F MACLEOD KRISTEN  Owner  Applicant

Mailing Address of Applicant: MONICA STEVENSON  
548 ISLAND AVENUE  
PEAKS ISLAND, MAINE 04108

Daytime Tel. #: \_\_\_\_\_

Local Plumbing Inspector Signature: \_\_\_\_\_

The Subsurface Wastewater Disposal System *shall not* be installed until a Permit is issued 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.

Municipal Tax Map # 90 Lot # R12

**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: Monica Stevenson Date: 11/27/12

**CAUTION: INSPECTION REQUIRED**

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

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

## PERMIT INFORMATION

**TYPE OF APPLICATION**

1. First Time System  
 2. Replacement System  
Type Replaced: CESSPOOL  
Year Installed: PRE-1974

3. Expanded System  
 a. <25% Expansion  
 b. >25% Expansion  
 4. Experimental System  
 5. Seasonal Conversion

**SIZE OF PROPERTY**  
+/- 10,000  SQ. FT.  ACRES

**SHORELAND ZONING**  
 Yes  No

**THIS APPLICATION REQUIRES**

1. 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 Permit

**DISPOSAL SYSTEM TO SERVE**

1. Single Family Dwelling Unit, No. of Bedrooms: 4  
 2. Multiple Family Dwelling, No of Units: \_\_\_\_\_  
 3. Other: \_\_\_\_\_ (specify)

Current Use  Seasonal  Year Round  Undeveloped

**DISPOSAL SYSTEM COMPONENTS**

1. 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 (2000gpd+)  
 9. Engineered Treatment Tank (only)  
 10. Engineered Disposal Field (only)  
 11. Pre-treatment, specify: \_\_\_\_\_  
 12. Miscellaneous components

**TYPE OF WATER SUPPLY**

1. Drilled Well  2. Dug Well  3. Private  
 4. Public  5. Other:

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

**TREATMENT TANK**

1. Concrete  
 a. Regular  
 b. Low Profile  
 2. Plastic  
 3. Other: \_\_\_\_\_

CAPACITY: 1000 GAL.

**DISPOSAL FIELD TYPE & SIZE**

1. Stone Bed  2. Stone Trench  
 3. Proprietary Device  
 a. Cluster array  c. Linear  
 b. Regular  d. H-20 loaded  
 4. Other: \_\_\_\_\_

SIZE: 1200 sq. ft.  lin. ft.  
25 ELJEN IN-DRAIN UNITS

**GARBAGE DISPOSAL UNIT**

1. No  2. Yes  3. Maybe

If Yes or Maybe, specify one below:  
 a. Multi-compartment tank  
 b. \_\_\_\_\_ tanks in series  
 c. Increase in tank capacity  
 d. Filter on tank outlet

**DESIGN FLOW**

360 gallons per day  
BASED ON:  
 1. Table 4A (dwelling unit(s))  
 2. Table 4C (other facilities)

SHOW CALCULATIONS for other facilities

**4 BEDROOMS AT 90 GALLONS PER DAY EACH**

**SOIL DATA & DESIGN CLASS**

PROFILE: 3 CONDITION: C

at Observation Hole # TP 1  
Depth 34 "  
of Most Limiting Soil Factor

**DISPOSAL FIELD SIZING**

1. Medium - 2.6 sq. ft./gpd  
 2. Medium-Large - 3.3 sq. ft./gpd  
 3. Large - 4.1 sq. ft./gpd  
 4. Extra-Large - 5.0 sq. ft./gpd

**EFFLUENT/EJECTOR PUMP**

1. Not required  
 2. May be required  
 3. Required

Specify only for engineered systems:  
DOSE: \_\_\_\_\_ gallons

3. Section 4G (meter readings)  
ATTACH WATER-METER DATA

**LATITUDE AND LONGITUDE**  
at center of disposal area  
Lat. N 43 d 40 m 8 s  
Lon. W 70 d 11 m 69 s  
if g.p.s., state margin of error

## SITE EVALUATOR STATEMENT

I Certify that on 9/7/12 (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: Albert Frick SE #: K3 Date: 11/27/12 REVISED

ALBERT FRICK Telephone Number: (207) 839-5563 E-mail Address: ALBERT@ALBERTFRICK.COM

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

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation: **PORTLAND (PEAKS ISLAND)** Street, Road Subdivision: **53 ISLAND AVENUE** Owner's Name: **N/F MACLEOD (FOR MONICA STEVENSON)**

SITE PLAN Scale: 1" = 40 Ft. or as shown

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

EXISTING FLAGS AS STAKED IN FIELD

APPROX PROPERTY LINES (TO BE VERIFIED)

ISLAND AVENUE

TREFETHEN AVENUE

EXISTING DWELLING

GARAGE

DRIVE WAY

TP 1

PROPOSED DISPOSAL AREA

APPROX EXISTING CESSPOOL

NOTE: PROPERTY INFORMATION APPROXIMATED PER TOWN TAX MAP AND AERIAL PHOTOGRAPH. VERIFY LOT LINES TO ASSURE PROPER SETBACKS. VERIFY WATER LINE LOCATION TO ASSURE PROPER SETBACKS. RELOCATE IF NECESSARY.

## 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	SANDY		DARK	
	LOAM		BROWN	
10	LOAMY		DARK YEL	
	SAND	FRIABLE	BROWN	
20	MEDIUM		YELLOWISH	
	SAND		BROWN	
30				
40	LOAMY			COMMON, DISTINCT
	FINE	FIRM	OLIVE BROWN	
	SAND			
50	LIMIT OF EXCAVATION			

Soil Classification: <b>3</b>	Slope: <b>6-8 %</b>	Limiting Factor: <b>34"</b>	<input checked="" type="checkbox"/> Ground Water
Profile: <b>C</b>	Condition: <b>6-8 %</b>		<input type="checkbox"/> Restrictive Layer
			<input type="checkbox"/> Bedrock
			<input type="checkbox"/> Pit Depth

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

Site Evaluator Signature: *Albert Frick* SE # **163** Date: **11/27/12** **REVISED** Page 2 of 3  
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 ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

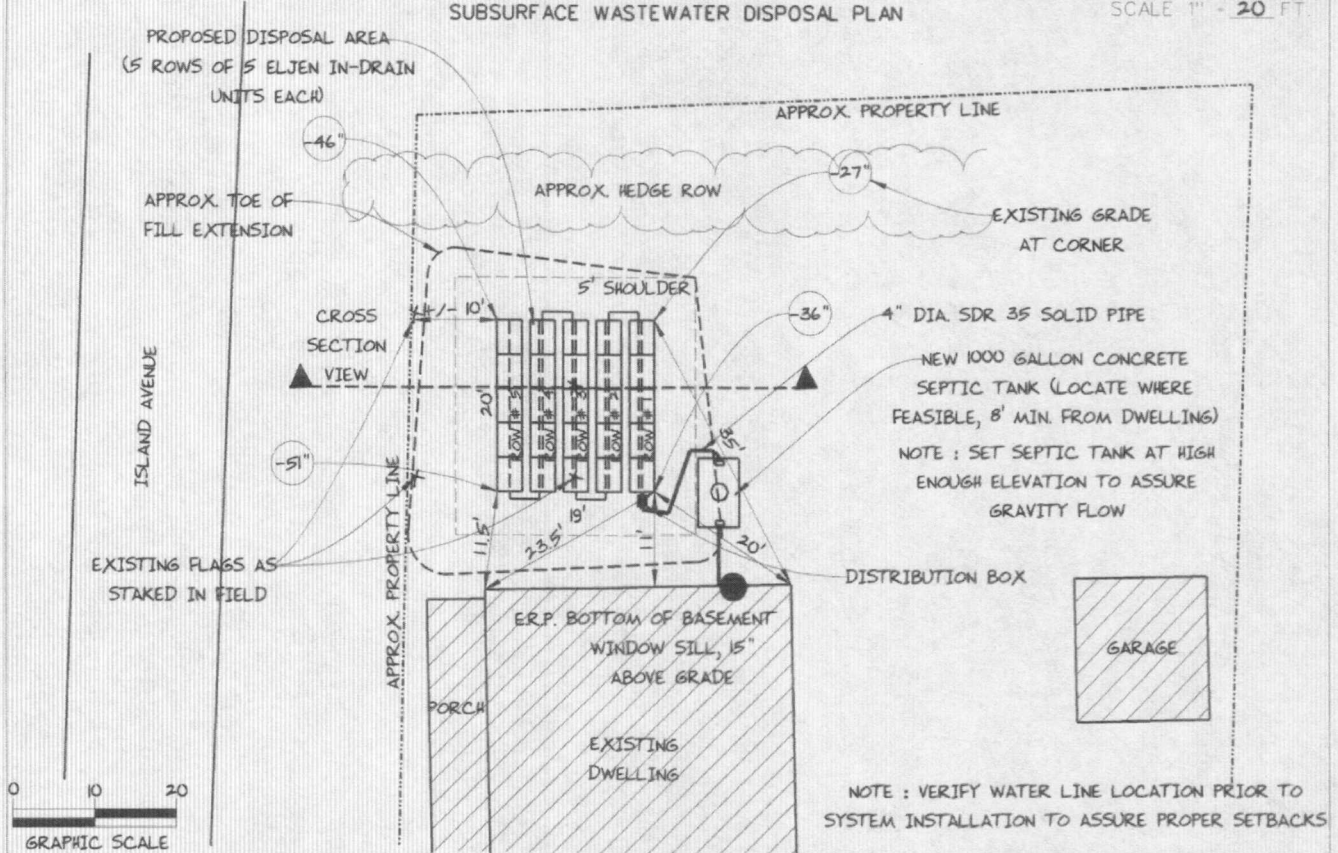
Town, City, Plantation  
**PORTLAND (PEAKS ISLAND)**

Street, Road, Subdivision  
**531 ISLAND AVENUE**

Owner's Name  
**N/F MACLEOD (FOR MONICA STEVENSON)**

## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.



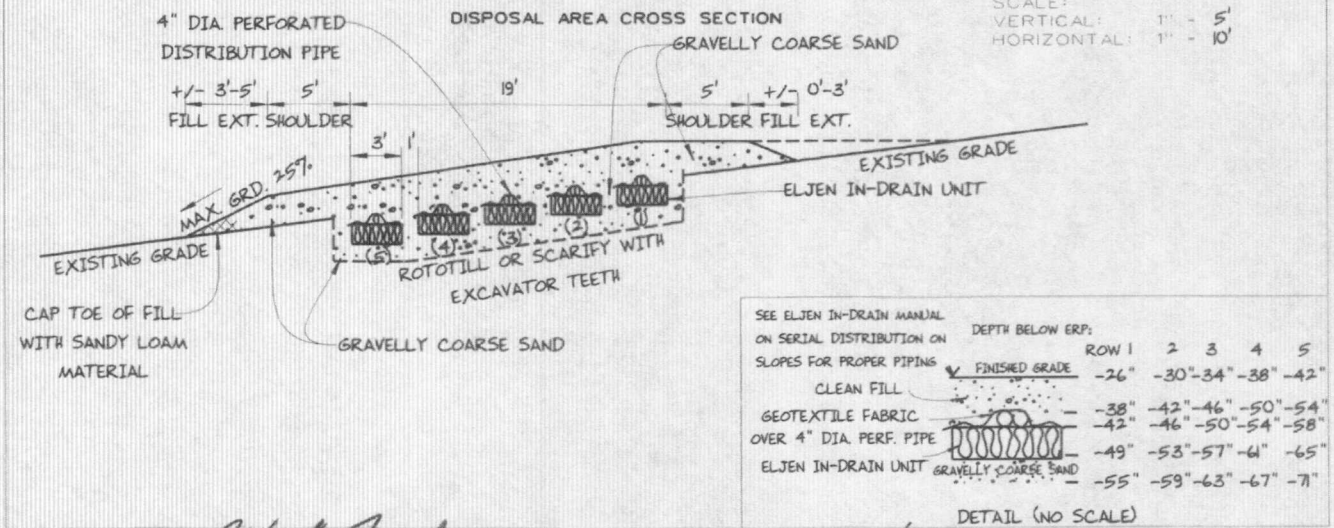
**FILL REQUIREMENTS**  
Depth of Fill (Upslope) = 1"-8"  
Depth of Fill (Downslope) = 4"-9"  
DEPTHS AT CROSS-SECTION (shown below)

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

SEE  
DETAIL  
BELOW

**ELEVATION REFERENCE POINT**  
Location & Description BOTTOM OF BASEMENT WINDOW SILL, 15" ABOVE GRADE  
Reference Elevation is: 0.0" or -----

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



*Albert Frick*  
Site Evaluator Signature

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SE

11/27/12 REVISED  
Date

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