

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION		>> Caution: Permit Required - Attach In Space Below <<	
City, Town, or Plantation	PORTLAND, GREAT DIAMOND ISLAND	PORTLAND PERMIT # 10105 TOWN COPY	
Street or Road	42 SEAL COVE LANE	Date Permit Issued: 11/30/06 \$ 1000 FEE Double Fee Charged	
Subdivision, Lot *		L.P.I. # 0244	
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature	
Name (last, first, MI)	LEE JUDY	83 EA 19	
Mailing Address of	GLENN RUESSWICK P.O. BOX 350		
☐ Owner ☐ Applicant	KITTERY, ME 03904		
Daytime Tel. *	439-3399	Municipal Tax Map - 83 Lot - EA 19 at N 43 4' 13" Lon. W 70 1' 46"	
Owner or Applicant Statement		Caution: Inspections Required	
I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a permit.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.	
Signature of Owner/Applicant: <i>Judy Lee</i>		Local Plumbing Inspector Signature: _____	
Date: _____		(1st) Date Approved: _____	
		(2nd) Date Approved: _____	

PERMIT INFORMATION		
TYPE OF APPLICATION 1. ☒ First Time System 2. ☐ Replacement System Type Replaced: _____ Year Installed: _____ 3. ☐ Expanded System a. ☐ Minor Expansion b. ☐ Major Expansion 4. ☐ Experimental System 5. ☐ Seasonal Conversion	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 Approval	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 (2000 gpd) 9. ☐ Engineered Treatment Tank (only) 10. ☐ Engineered Disposal Field (only) 11. ☐ Pre-treatment, specify: _____ 12. ☐ Miscellaneous components
SIZE OF PROPERTY 1.2 ACRES +- ☐ sq. ft. ☐ acres	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	TYPE OF WATER SUPPLY 1. ☐ Drilled Well 2. ☐ Dug Well 3. ☐ Private 4. ☒ Public 5. ☐ Other:
SHORELAND ZONING ☒ Yes ☐ No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK 1. ☒ Concrete a. ☒ Regular b. ☒ Low Profile 2. ☐ Plastic 3. ☐ Other: _____ CAPACITY 1000 gallons	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 1296 sq. ft. ☐ lin. ft. 27 ELJEN IN DRAIN UNITS	GARBAGE DISPOSAL UNIT 1. ☒ No 3. ☐ Maybe 2. ☐ Yes >> 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 501.1 (dwelling unit(s)) 2. ☐ Table 501.2 (other facilities) SHOW CALCULATIONS - for other facilities - 4 BEDROOMS AT 90 GALLONS PER DAY EACH
SOIL DATA & DESIGN CLASS PROFILE 2 CONDITION A DESIGN I AT Observation Hole * TBA Depth 16" OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING 1. ☐ Small - 2.0 sq.ft./gpd 2. ☐ Medium - 2.6 sq.ft./gpd 3. ☒ Medium-Large - 3.3 sq.ft./gpd 4. ☐ Large - 4.1 sq.ft./gpd 5. ☐ Extra-Large - 5.0 sq.ft./gpd	EFFLUENT/EJECTOR PUMP 1. ☒ Not required 2. ☐ May be required 3. ☐ Required >> Specify only for engineered or experimental systems: DOSE: _____ Gallons	3. ☐ Section 503.0 (meter readings) ATTACH WATER-METER DATA

SITE EVALUATOR STATEMENT	
I Certify that on 10/19/06 (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 (10-14-A CMR 2.1).	

Site Evaluator Signature: <i>Albert Frick</i>	SE: 163	Date: 10/23/2006
ALBERT FRICK	(207) 839-5563	AFA@MAINERR.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		

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Town, City, Plantation PORTLAND, GREAT DIAMOND ISLAND	Street, Road, Subdivision 42 SEAL COVE LANE	Owner's Name JUDY LEE
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SITE PLAN

Scale 1" = 100 Ft. or as shown

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

NOTE: PROPERTY LINES PER ROSS ENGINEERING SITEPLAN

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

Observation Hole TP 1 ☒ Test Pit ☐ Boring
 " Depth of Organic Horizon Above Mineral Soil

	Texture	Consistency	Color	Mottling
0			BROWN	
10	GRAVELLY		YELLOW	
20	SANDY	FRIABLE	BROWN	
30	LOAM			FEW, FAINT
40		SOMEWHAT FIRM	OLIVE BROWN	
50		FIRM		

Soil Classification
3 Profile **C** Condition

Slope
 Limiting Factor **23'**

☒ Ground Water
☐ Restrictive Layer
☐ Bedrock
☐ Pit Depth

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

	Texture	Consistency	Color	Mottling
0				
10				
20			TBA = 16" TO REFUSAL	
30			TBB = 32" TO REFUSAL	
40			TBC = 28" TO REFUSAL	
50			TBD = 32" TO REFUSAL	
			TBE = 32" TO REFUSAL	

Soil Classification
 Profile Condition

Slope
 Limiting Factor

☐ Ground Water
☐ Restrictive Layer
☐ Bedrock
☐ Pit Depth

Albert Frick
 Site Evaluator Signature

163
 SE

10/23/2006
 Date

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Town, City, Plantation

Street, Road, Subdivision

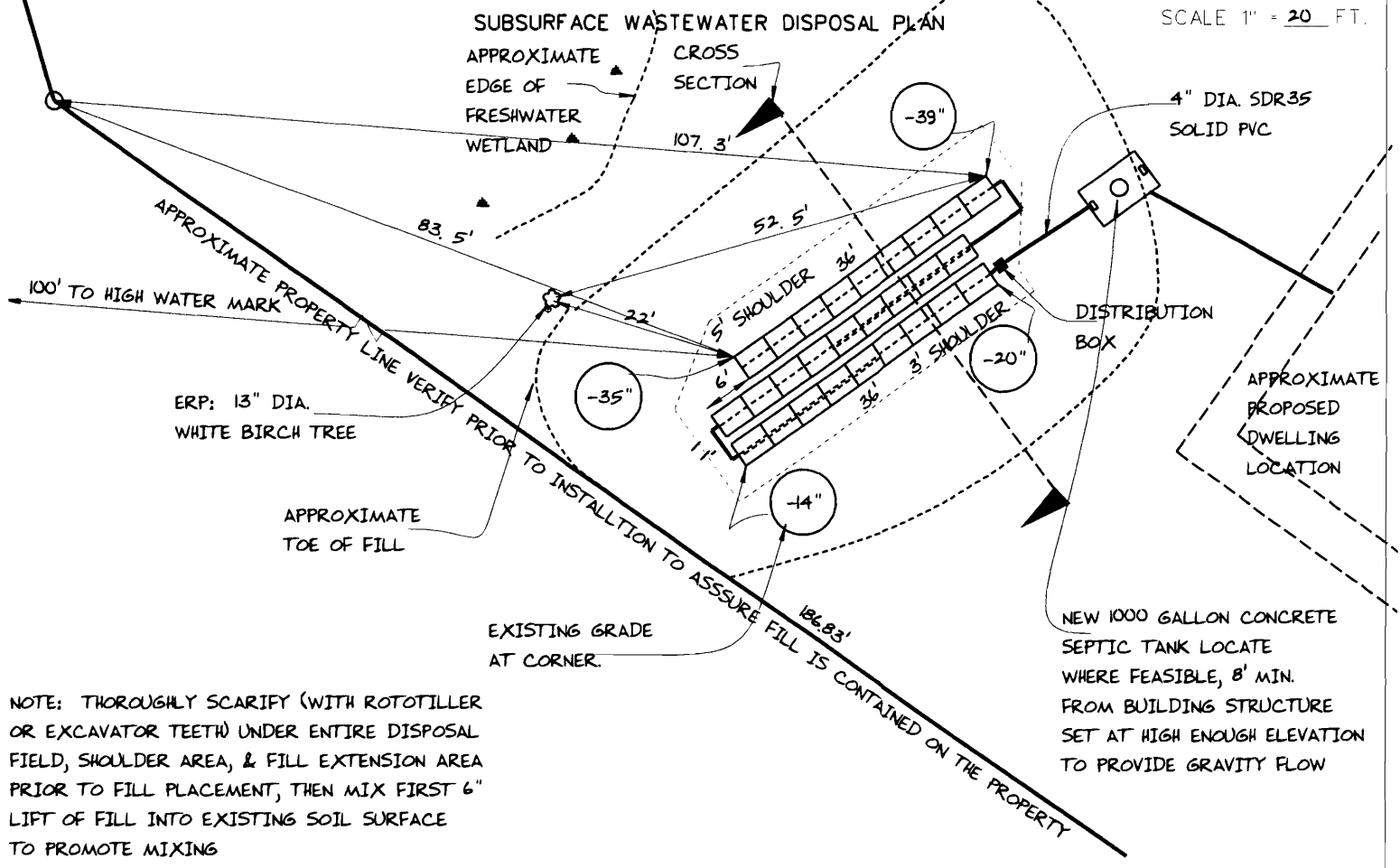
Owner's Name

PORTLAND, GREAT DIAMOND ISLAND

42 SEAL COVE LANE

JUDY LEE

SCALE 1" = 20' FT.



NOTE: THOROUGHLY SCARIFY (WITH ROTOTILLER OR EXCAVATOR TEETH) UNDER ENTIRE DISPOSAL FIELD, SHOULDER AREA, & FILL EXTENSION AREA PRIOR TO FILL PLACEMENT, THEN MIX FIRST 6" LIFT OF FILL INTO EXISTING SOIL SURFACE TO PROMOTE MIXING

FILL REQUIREMENTS

Depth of Fill (Upslope) : 34" - 40"
Depth of Fill (Downslope) : 37" - 41"
DEPTHS AT CROSS-SECTION (shown below)

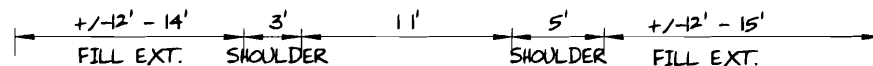
CONSTRUCTION ELEVATIONS

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

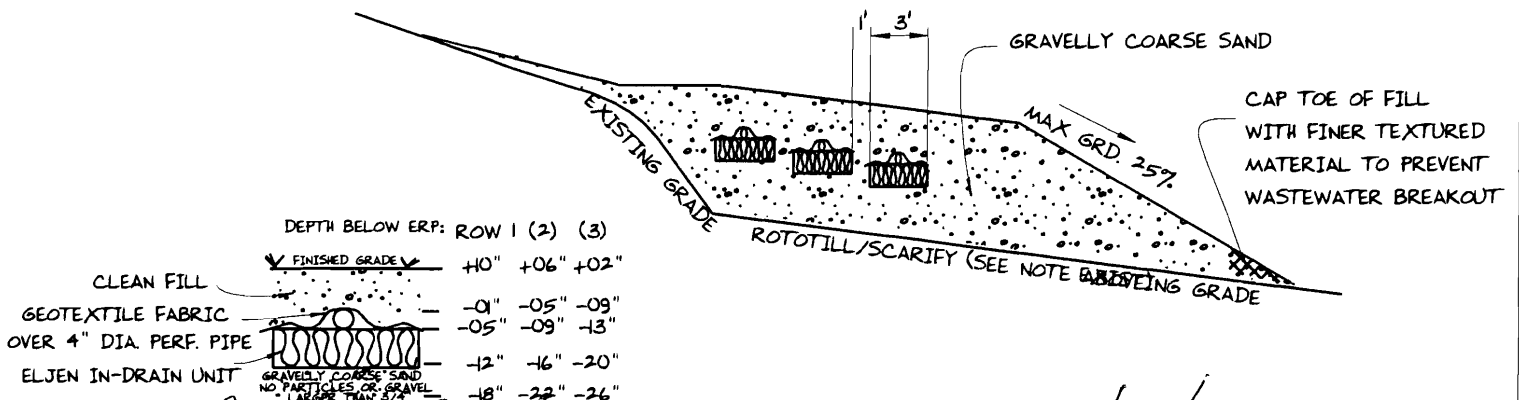
SEE
DETAIL
BELOW

ELEVATION REFERENCE POINT
Location & Description
NAIL 62" ABOVE BASE OF TREE
Reference Elevation is: 0.0" or -----

DISPOSAL AREA CROSS SECTION



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



Site Evaluator Signature

163
SE *

Date

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Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04038

(207) 839-5563

PORTLAND, GREAT DIAMOND ISLAND

42 SEAL COVE LANE

JUDY LEE

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.

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 tank, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration.

PORTLAND, GREAT DIAMOND ISLAND

42 SEAL COVE LANE

JUDY LEE

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.) divided by the # 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 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. 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, 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.

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 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.

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. 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.



Albert Frick Associates, Inc.
Soil Scientists & Site Evaluators

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

Fill Estimation Worksheet

Albert Frick Associates Inc.

95A County Road

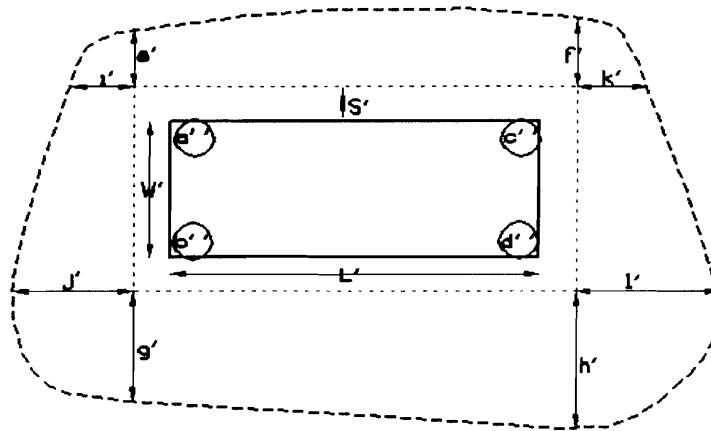
Gorham, Me 04038

839-5563 FAX - 839-5564

E-Mail - Albertfrick@worldnet.att.net

Town: Diamond Island
 Project owner/applicant: Lee
 Address: _____

This worksheet is being provided as a complimentary tool to assist in estimating the **approximate** amount of fill required to construct the proposed system. This worksheet does not substitute for a personal visit to the site for your own estimate. These calculations are intended to serve as a check to your work. Site features beyond the model (terrain) can vary to effect model projections.



Length (L)	<u>36</u> feet
Width (W)	<u>11</u> feet
Shoulder (S)	<u>5</u> feet
<u>Depth of fill:</u>	
upper left (a)	<u>34</u> inches
upper right (c)	<u>40</u> inches
lower left (b)	<u>36</u> inches
lower right (d)	<u>41</u> inches
<u>Fill Extension:</u>	
left up (e)	<u>12</u> feet
right up (f)	<u>14</u> feet
left down (g)	<u>12</u> feet
right down (h)	<u>15</u> feet
upper left (i)	<u>12</u> feet
lower left (j)	<u>13</u> feet
upper right (k)	<u>12</u> feet
lower right (l)	<u>15</u> feet
Cost of fill per yard= \$	

Body	113 cubic yards
Fill Down	37 cubic yards
Fill Up	35 cubic yards
Fill left	15 cubic yards
Fill right	18 cubic yards
Fill upleft	4 cubic yards
Fill upright	6 cubic yards
Fill downleft	5 cubic yards
Fill downright	8 cubic yards

SubTotal=	241 cubic yards
Shrinkage %=	15 %
Total Backfill	277 cubic yards

Adjusted cost of Total
 Backfill= \$ -