

Cell# 671-1508 *When ready Call*
Saunders

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION		>> Caution: Permit Required -- Attach in Space Below << <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> DEPT. OF HEALTH ENGINEERING RECEIVED MAY 15 2006 </div>
City, Town, or Plantation	<i>Cliff Island</i>	
Street or Road	<i>Island Avenue</i>	
Subdivision, Lot #	<i>Home 766-5532</i>	The Subsurface Wastewater Disposal System <i>shall not</i> 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/APPLICANT INFORMATION		
Name (last, first, MI)	<i>Kramer Robert</i>	
Mailing Address of <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	<i>P.O. Box 41 Cliff Island 09019</i>	
Daytime Tel. #	<i>207-662-3862</i>	Municipal Tax Map # <i>109B</i> Block Lot # <i>A-1011</i>
Owner or Applicant Statement		Caution: Inspections Required
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.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.
Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (1st) Date Approved _____ _____ (2nd) Date Approved _____

PERMIT INFORMATION		
TYPE OF APPLICATION 1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: <i>OVER-B-DISCHARGE</i> Year Installed: <i>1950s +/-</i> 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> One-time exempted b. <input type="checkbox"/> Non-exempted 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	THIS APPLICATION REQUIRES 1. <input 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. Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	DISPOSAL SYSTEM COMPONENT(S) 1. <input checked="" type="checkbox"/> Complete Non-engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ gallons 6. <input type="checkbox"/> Non-engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000 gpd or more) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Field (only) 11. <input type="checkbox"/> Pre-treatment, specify: _____ 12. <input type="checkbox"/> Miscellaneous components
SIZE OF PROPERTY <i>39,340</i> sq. ft. <input type="checkbox"/> <i>1 1/4</i> acres <input checked="" type="checkbox"/>	DISPOSAL SYSTEM TO SERVE 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <i>3</i> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY _____	TYPE OF WATER SUPPLY 1. <input checked="" type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input 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 <i>1,000</i> gallons	DISPOSAL FIELD TYPE & SIZE 1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input checked="" type="checkbox"/> Cluster array c. <input type="checkbox"/> Linear b. <input type="checkbox"/> Regular load d. <input type="checkbox"/> H-20 load 4. <input type="checkbox"/> Other: _____ SIZE <i>891</i> sq. ft. <input checked="" type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT 1. <input type="checkbox"/> No 3. <input checked="" type="checkbox"/> <i>Maybe</i> 2. <input type="checkbox"/> 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 checked="" type="checkbox"/> Filter on Tank Outlet	DESIGN FLOW <i>270</i> 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 -- <i>3 Bedrooms @ 90gpd = 270gpd</i> 3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN <i>2, 1, A1, 1, 4</i> at Observation Hole # <i>TPH</i> Depth <i>2' 2 1/2</i> " Elevation _____ OF MOST LIMITING SOIL FACTOR	DISPOSAL FIELD SIZING 1. <input type="checkbox"/> Small -- 2.0 sq. ft./gpd 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	PUMPING 1. <input type="checkbox"/> Not Required 2. <input checked="" type="checkbox"/> <i>May Be Required</i> 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: _____ gallons	

SITE EVALUATOR STATEMENT	
I certify that on <i>8-26-03</i> (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).	
<i>John M. Loochaker</i> Site Evaluator Signature	<i>9-5-03</i> Date
<i>H 347</i> <i>839-5746</i> <i>000 EM 11</i>	<i>#5405</i>

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation
Cliff Island

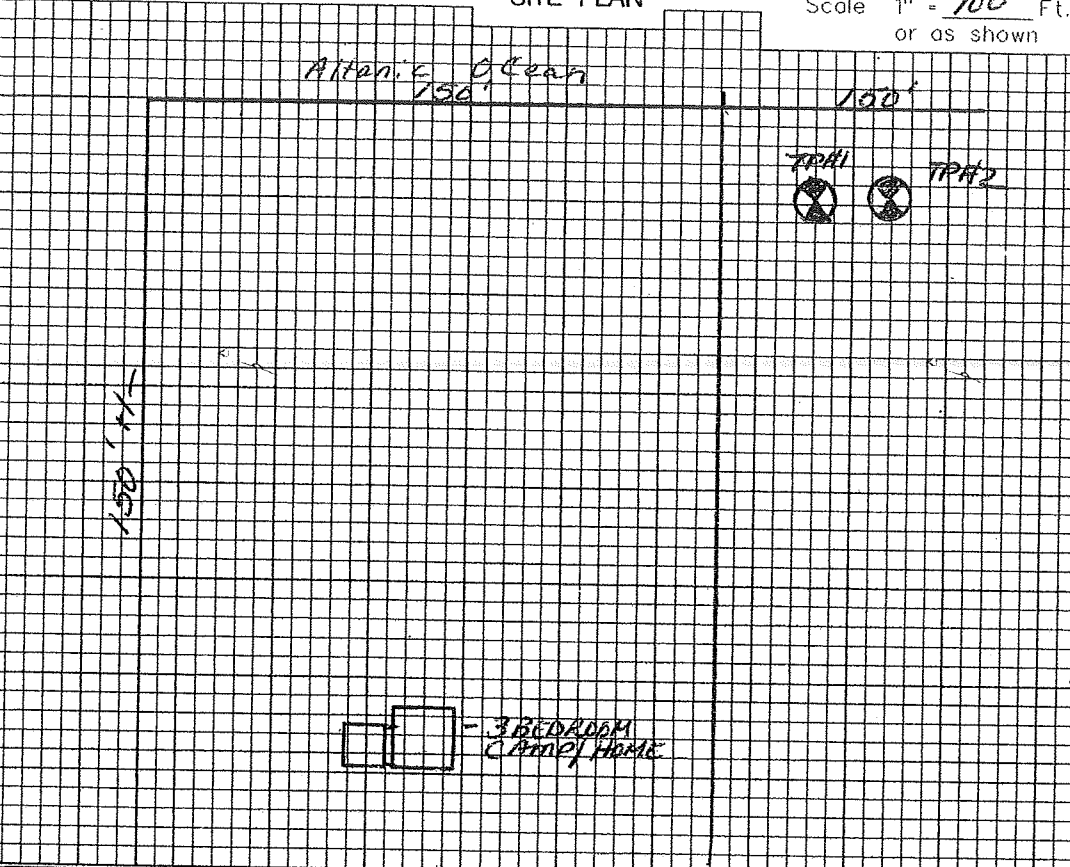
Street, Road Subdivision

Owner's Name
Robert James

SITE PLAN

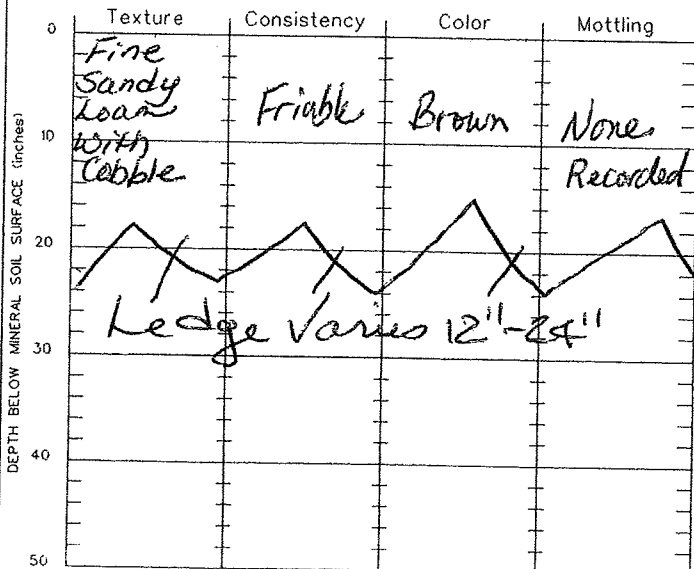
Scale 1" = 100 Ft.
or as shown

SITE LOCATION PLAN
(Map from Maine Atlas
recommended)



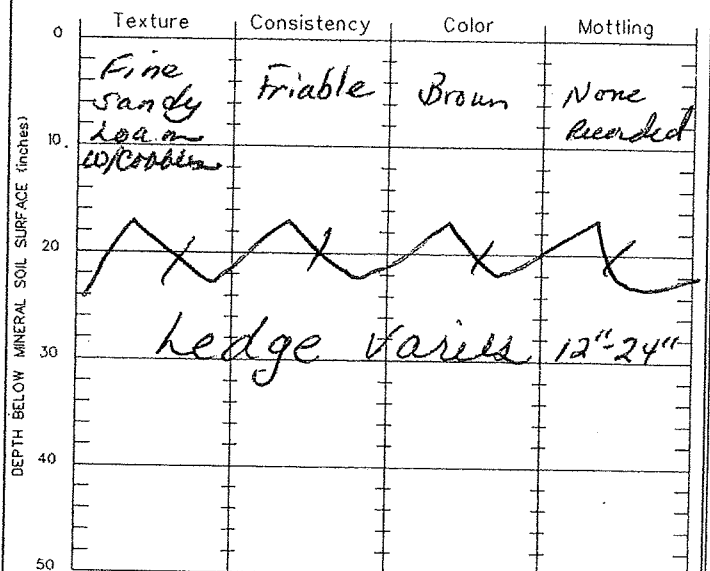
SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole *TP#1* Test Pit Boring
8" Depth of Organic Horizon Above Mineral Soil



Soil Classification <i>2</i> Profile	Slope <i>0-2%</i>	Limiting Factor <i>R</i>	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
<i>III</i> Condition			

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



Soil Classification <i>2</i> Profile	Slope <i>0-2%</i>	Limiting Factor <i>12"</i>	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
<i>III</i> Condition			

John M. Loathaker
Site Evaluator Signature

#347
SE *

9-5-03
Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering
(207) 287-5872 FAX (207) 287-4172

Town, City, Plantation
Cliff Island

Street, Road, Subdivision

Owner's Name
Robert Kramer

SUBSURFACE WASTEWATER DISPOSAL PLAN

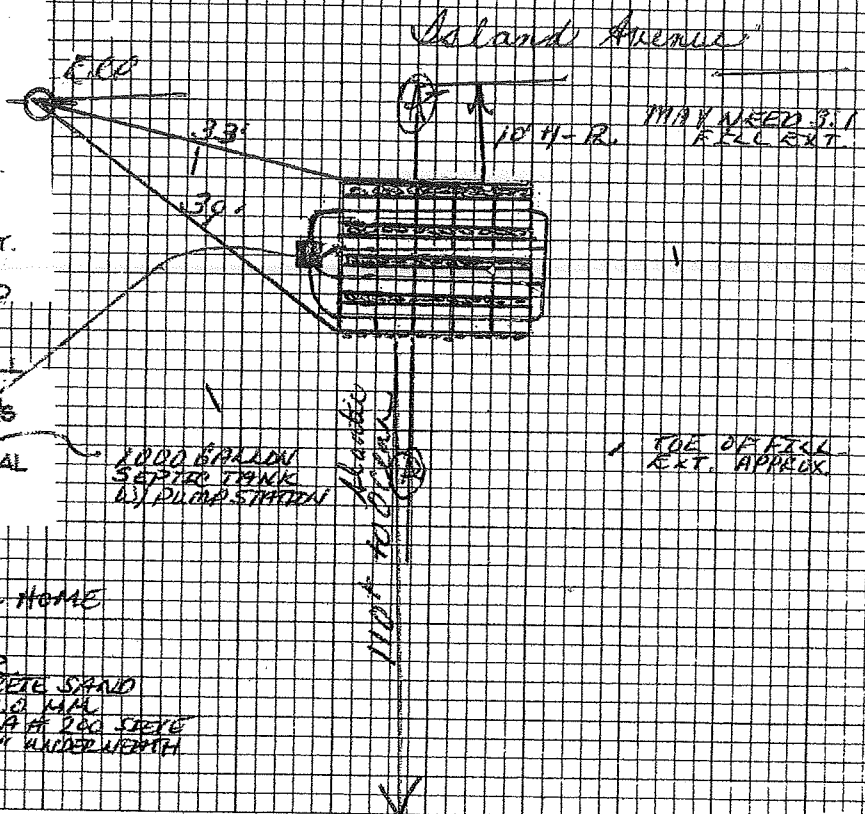
SCALE 1" = *10* FT.

LEGEND:

- MON = GRANITE MONUMENT
- IRF = IRON ROD FOUND
- IPF = IRON PIPE FOUND
- TP = TEST PIT

NOTES:

1. IF A GARBAGE DISPOSAL IS USED, THEN CHANGES TO THIS DESIGN ARE NECESSARY.
2. ALLOW FOR POSITIVE DRAINAGE AROUND THE LEACHFIELD.
3. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE MAINE SUBSURFACE WASTEWATER DISPOSAL RULES DATED 6/02, AS AMENDED, AND SUPPLEMENTED BY THE ATTACHED GENERAL NOTES WHICH BECOME A PART OF THIS DESIGN.



19 TYPED ELEVATOR - CLUSTER
2 1/2" DIA D.O.T. WASHED CONCRETE SAND
EFFECTIVE SIZE OF 25 TO 210 MESH
AND NO MORE THAN 5% PASSING A # 200 SIEVE
BETWEEN PILES 4" ON ENDS 6" UNDER WIDTH

FILL REQUIREMENTS

Depth of Fill (Upslope) *42"-43"*
Depth of Fill (Downslope) *42"-43"*

CONSTRUCTION ELEVATIONS

Finished Grade Elevation *11"*
Top of Distribution Pipe or Proprietary Device *-7"*
Bottom of Disposal Area *6" SPEC SAND 20*

ELEVATION REFERENCE POINT

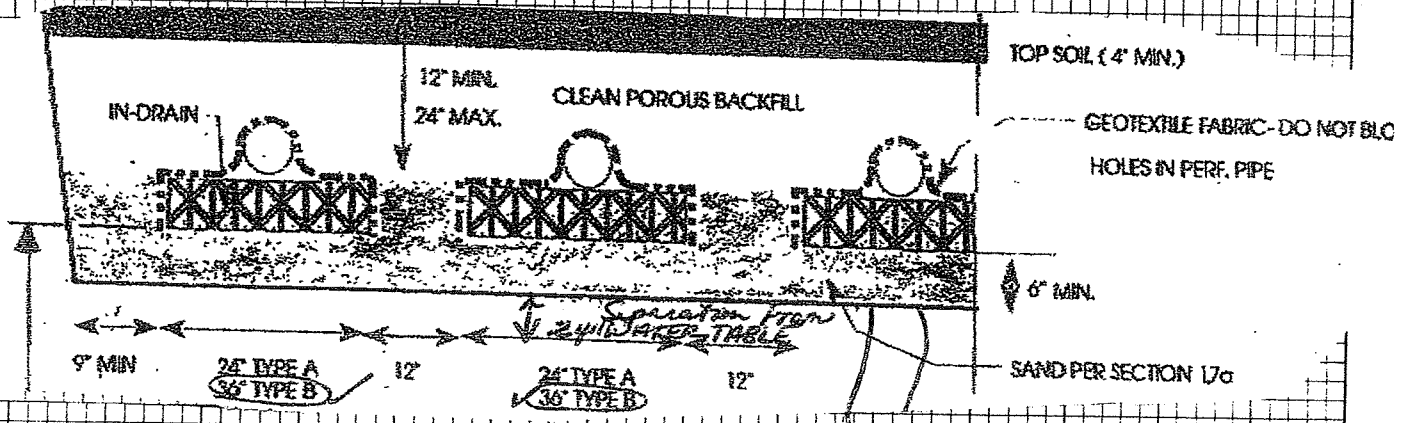
Location & Description *Nail marked ERP in Pole 505/603.5*
Reference Elevation *0"*

FOR ALL DETAILS AND RULES FOR ELEVATION IN-DRAINS

DISPOSAL AREA CROSS SECTION

12" separation used in design

SCALE:
VERTICAL: 1" = 3'-4"
HORIZONTAL: 1" = 3'-4"



John M. Louthaker
Site Evaluator Signature

#347
SE #

9-5-03
Date
Bottom Spec. Sand ELEVATION 20"

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request an HHE-200 and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 2006)
2. There will be no change in use of the structure except as authorized for minor expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION	Town of <u>Cliff Island, Maine</u>
Permit No. _____	Date Permit Issued _____
Property Owner's Name: <u>Robert Kramer</u>	Tel. No.: _____
System's Location: <u>Island Avenue Jay Map 109B Block A-1011</u>	
Property Owner's Address: <u>P.O. Box 41</u>	
(if different from above) <u>Cliff Island, Maine 04019</u>	

**SPECIFIC INSTRUCTIONS TO THE:
LOCAL PLUMBING INSPECTOR (LPI):**

If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

SITE EVALUATOR:

If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.

PROPERTY OWNER:

If has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in total compliance with the Rules is not possible.

PROPERTY OWNER

I understand that the proposed system requires a variance to 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.

SIGNATURE OF OWNER

DATE

LOCAL PLUMBING INSPECTOR

I, _____, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

a. (approve, disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in Comments Section below and return to the applicant.

—OR—

b. find that one or more of the requested Variances exceeds my approval authority as LPI. I (recommend, do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, she shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments:

LPI SIGNATURE

DATE

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	Disposal Fields (total design flow)			Septic Tanks (total design flow)			Disposal Fields	Septic Tanks
From	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			to 7"			inches	
Soil Condition	Restrictive Layer			to 7"			inches	
from HHE-200	Bedrock			to 12"			inches	
SETBACK DISTANCES (in feet)								
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	100 ft	100 ft	100 ft		
Owner's wells	100 down to 60 ft [a]	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 down to 60 ft [f]	200 down to 120 ft [f]	300 down to 180 ft [f]	100 down to 50 ft [f]	100 down to 75 ft [f]	100 down to 75 ft [f]		
Water supply line	10 ft	20 ft	25 ft [h]	10 ft	10 ft	10 ft [h]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft [d]	200 down to 120 ft [d]	300 down to 180 ft [d]	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft [e]	100 down to 50 ft [e]	150 down to 75 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]		
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	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]		
Slopes greater than 3:1	10 ft [g]	18 ft [g]	25 ft [g]	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	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]	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		
Property lines	10 down to 5 ft [c]	18 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]		
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		8-10
OTHER								
1. Fill extension Grade - to 3:1 <i>May need 3:1 fill extension</i>								
2.								
3.								

Footnotes: [a.] Single-family well setbacks may be reduced as prescribed in Section 701.2.

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

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

[d.] Additional setbacks may be required by local Shoreland zoning.

[e.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.

[f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.

[g.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.

[h.] See Section 1402.10 for special procedures when these minimum setbacks cannot be achieved.

John M. Loshaker
 SITE EVALUATOR'S SIGNATURE

9-5-03
 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.

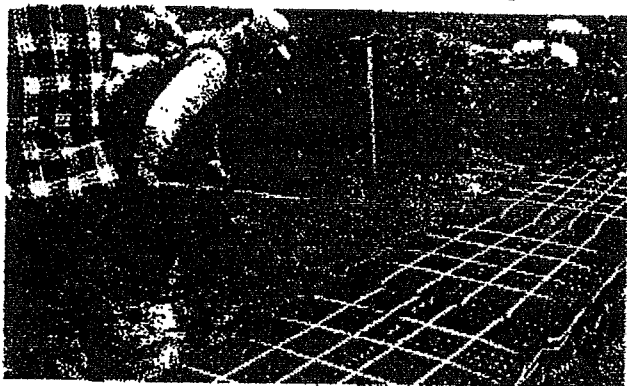
 SIGNATURE OF THE DEPARTMENT

 DATE

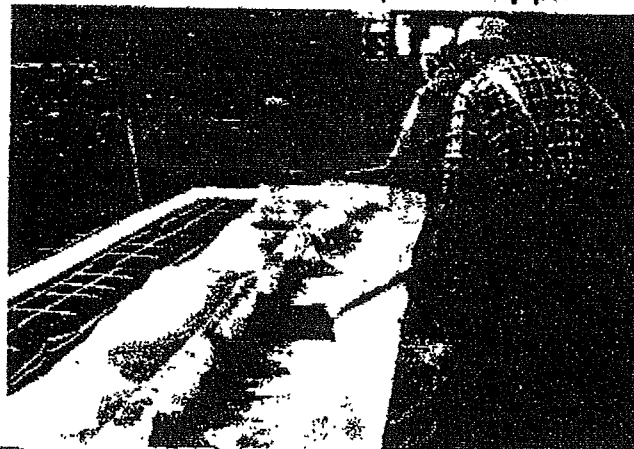

ELJEN™
IN-DRAIN™ LEACHING SYSTEM


Trench and In-Ground Cluster Installation

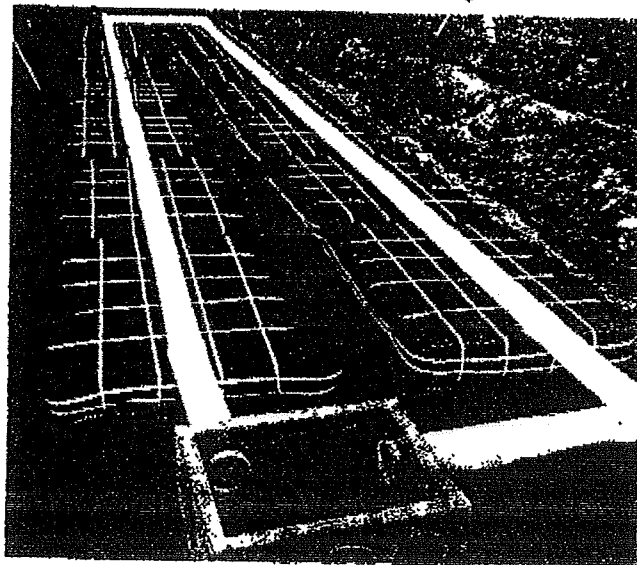
- 1 Prepare site according to local and state regulations. Do not install system on frozen or saturated ground.
- 2 Remove all organic soil and roots at disposal and fill extension areas.
- 3 Scarify receiving layer to eliminate smearing.
- 4 Place 6" of D.O.T. or state highway specification washed concrete sand or sand known to be "medium to coarse with an effective size of .25 to 2.0 mm and no more than 5% passing a #200 sieve."
- 5 Avoiding footprints, place In-Drains with painted stripe facing up, end to end on sand in trench or bed. Caution: Spacer cores can have sharp edges.
- 7 Install SSI Inc. flow equalizers or equal in D-Box. Use Type 1 in gravity systems, and Type P in pump systems.



- 8 Secure pipe with one Eljen clamp per In-Drain. Slide clamp into upfacing core. Force through fabric into sand.
- 9 Install Eljen cover fabric over rows of In-Drains. Drape fabric straight down over pipe. Secure with hand shoveled sand. Don't block holes in perforated pipe.



- 6 Center 4" perforated distribution pipe over In-Drains. Use solid pipe over compacted sand from D-Box to In-Drains and to connect distribution lines at far end. Connect mid-points on rows over 40' long.



- 10 Place 12" medium to coarse sand (see step #4) between rows and 6" min. at the sides in trench or bed.
- 11 Complete backfill and loam to 12" min. over In-Drains. Fill should be clean, porous and devoid of large rocks. Use well graded sandy fill with a maximum 10% passing a #200 sieve. Do not use wheeled equipment over system. A light track machine may be used with caution, avoiding crushing or shifting of pipe assembly. Backfill in direction of perforated pipe.
- 12 Divert surface runoff. Finish grade to prevent surface ponding. Seed loam and protect from erosion.

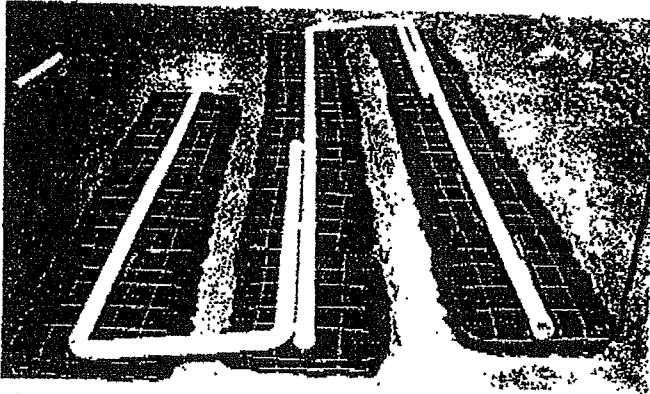
Raised or Fill Systems

- 1 Follow steps #1-3 for trench installation.
- 2 Compact fill, in max. 6" lifts, with a light tracked machine. Use clean soil free of organic material, clay, construction debris, stones larger than 6" and no more than 10% passing a #200 sieve.
- 3 Provide 6" sand bed, per trench step #4, directly under the In-Drains.
- 4 Complete system per trench steps #5-12.

- 4 Install a line of 4" perforated pipe on first row of In-Drains. Cap pipe at far end.
- 5 Place at least 10' of capped perforated overflow pipe at the far end and downhill side of the above pipe.
- 6 Connect overflow pipe to a line of perforated pipe on the next row of In-Drains with 2 elbows and a short length of solid pipe. Cap perforated pipe on opposite end.
- 7 Continue this procedure until the last row of In-Drains has an end capped line of perforated pipe.
- 8 Complete assembly by following steps #8-12 at trench installation.

Serial Distribution on Slopes

- 1 Site preparation is the same as for trench and fill systems. Groove receiving layer by raking or contour plowing at right angle to slope before placing fill or sand.
- 2 Install rows of In-Drains at design elevations.
- 3 Provide a well anchored D-Box with velocity reduction tee or baffle. D-Box serves as an inspection port.



Pumped Systems

- 1 Prepare disposal site as described above.
- 2 Provide a well anchored D-Box with a velocity reduction tee or baffle. Use SSI Inc. Type P flow equalizers or equal in the D-Box, one for each distribution line.
- 3 System assembly is the same as for gravity designs.
- 4 Pressure distribution does not result in reduced system size and is therefore not generally used for In-Drain disposal systems.

Design Manual Available

Effluent pretreatment offered by In-Drain technology generally allows substantial reductions in leach field size compared to conventional stone or chamber systems. Sizing formula conforms with code variations from state to state. Consult your area distributor for a state specific Design and Installation Manual.

Eljen Corporation

15 Westwood Rd., Storrs, CT., 06268
 203-429-9486 • 800-444-1359
 Fax 203-487-1124
 Patent nos. 4,465,594 and 4,880,333
 Additional Patents Pending

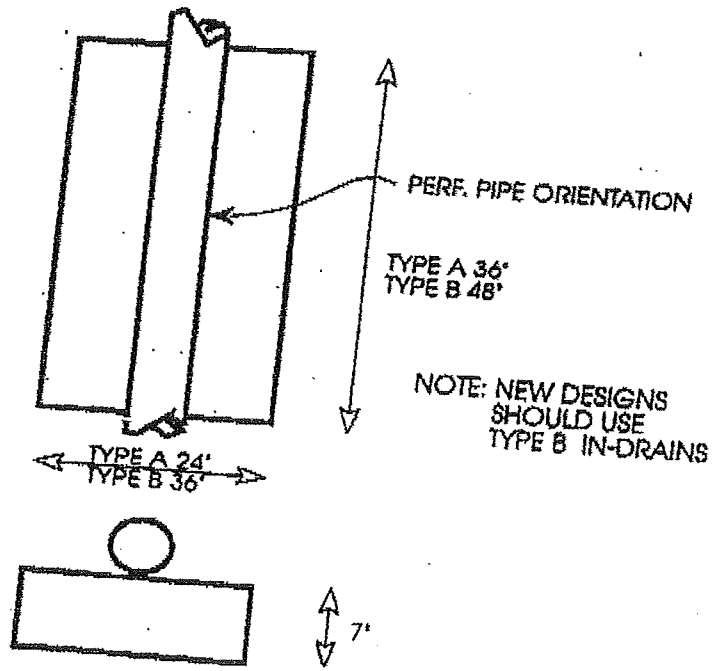
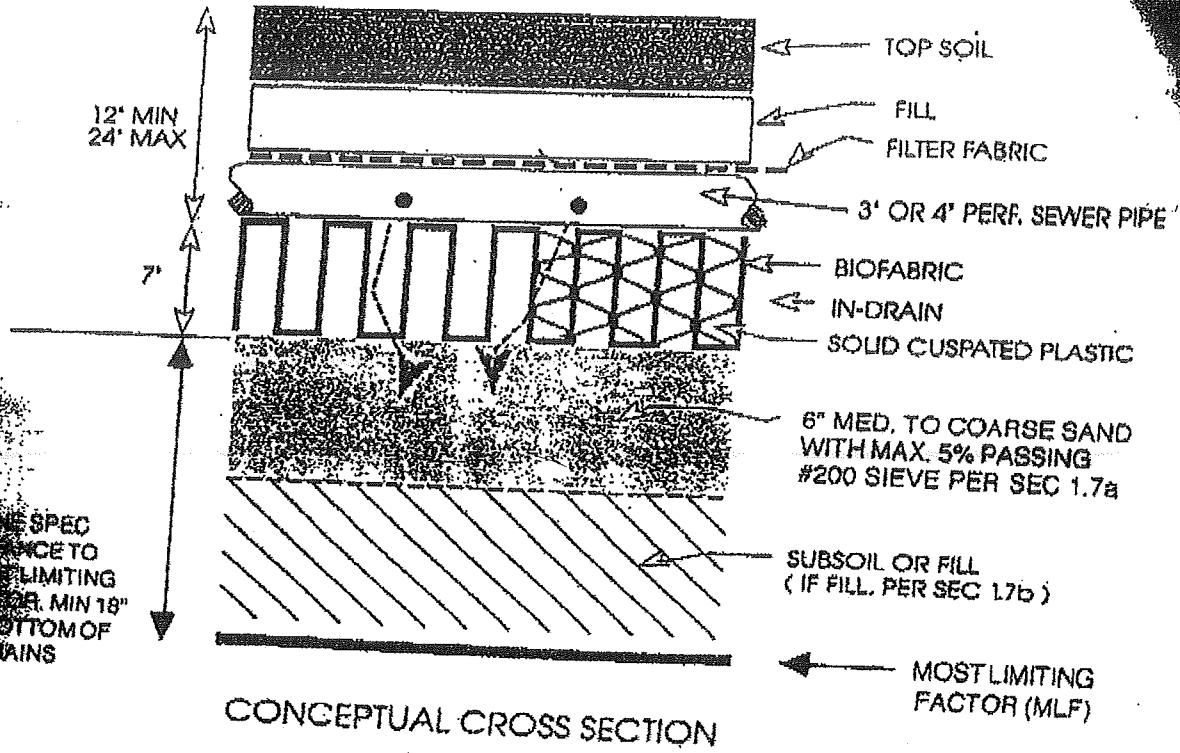
Distributed By:

Construction Consultants, Inc.
 328 Federal Road, Route 4
 Livermore, ME 04253-3080

Eljen™ ... Products for a clean, healthy environment

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STANDARD IN-DRAIN MODULE

FIGURE 1

General Notes
(attachment to form HHE-200)
< 1,000 gpd Septic System

1. It is your right to get a second opinion if you don't agree with the professional opinion of Tooth & Associates.
2. Property information is from the owner or applicant and shall be correct and verified prior to signing this HHE-200 application.
3. All work shall be done per the Maine Subsurface Wastewater Disposal Rules dated 6/02 as amended.
4. All work shall be done only in dry conditions for disposal area.
5. No vehicular or equipment traffic to be allowed on disposal area. Construct disposal area outside the corner flags located in the field. Protect down slope area as well.
6. Backfill, if required, is to be gravelly coarse sand to coarse sand texture and to be free of foreign debris. If backfill is coarser than original soil, then mix top 4" of backfill and original soil with rototiller.
7. No neighboring wells are apparent (unless so indicated) within 100' of disposal area. Owner or applicant shall verify this prior to signing the HHE-200 application.
8. The disposal field stone shall be clean, uniform in size and free of fines, dusts, ashes, or clay. It shall be no smaller than ¾ inch and no larger than 2½ inches in size (per Section 805.2.3 of the Maine Subsurface Wastewater Rules).
9. Use minimum separation distances required (unless reduced by variance or special circumstance).
 - a. Wells with water usage of 2,000 or more gpd or public water supply wells:

Disposal fields:	300'
Septic Tanks and Holding Tanks:	100'
 - b. any well to disposal area: 100'
 - c. any well to septic tank 100'
 - d. septic tank or disposal area to lake, river, stream or brook: 100' for major watercourse
50' for minor watercourse
 - e. house to treatment tank: 8'
 - f. house to disposal area: 20'
 - g. all other separation distances, for less than 1,000 gpd per Maine Subsurface Wastewater Disposal Rules use Table 700.2.
10. Location of septic near a wetland may require a separate permit. As such, the owner or applicant prior to construction of the septic system shall hire a professional wetland scientist to evaluate adjacent wetlands and prepare needed permits.
11. Garbage disposals are not recommended and, if installed, are done so at the owner's risk. Follow Maine State Plumbing Code if installed.
12. Pump Stations shall be water tight to prevent infiltration of ground and surface water.
13. Pressure lines and force mains shall be flushed of any foreign material and pumps shall be checked for proper on/off cycle before being put into service.
14. Force mains, pump stations, and /or gravity piping subject to freezing shall be adequately insulated or installed below the frost line.

Tooth & Associates 19 Davis Annex, Gorham, Maine 04038 (207)839-5746