

1071

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY ADDRESS

Town Or Plantation	MT. DESERT
Street Subdivision Lot #	DEWING BROOK SUB. LOT #5
PROPERTY OWNERS NAME	
Last: HEALY	First: MICHAEL
Applicant Name:	Michael E. Healy
Mailing Address of Owner/Applicant (if Different)	HCR 62 Box 29 Mount Desert, ME 04660

MOUNT DESERT	PERMIT # 850	STATE COPY
Date Permit Issued:	11/14/90	\$110.00
20 J. Healy Local Plumbing Inspector Signature		

Owner/Applicant Statement
I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a permit.

Michael E. Healy
Signature of Owner/Applicant

11/14/90
Date

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

Local Plumbing Inspector Signature _____
Date Approved _____

PERMIT INFORMATION

<p>THIS APPLICATION IS FOR:</p> <p>1. <input checked="" type="checkbox"/> NEW SYSTEM</p> <p>2. <input type="checkbox"/> REPLACEMENT SYSTEM</p> <p>3. <input type="checkbox"/> EXPANDED SYSTEM</p> <p>4. <input type="checkbox"/> EXPERIMENTAL SYSTEM</p>	<p>THIS APPLICATION REQUIRES:</p> <p>1. <input checked="" type="checkbox"/> NO RULE VARIANCE</p> <p>2. <input type="checkbox"/> NEW SYSTEM VARIANCE Attach New System Variance Form</p> <p>3. <input type="checkbox"/> REPLACEMENT SYSTEM VARIANCE Attach Replacement System Variance Form</p> <p>a. <input type="checkbox"/> Requiring Local Plumbing Inspector Approval</p> <p>b. <input type="checkbox"/> Requires State and Local Plumbing Inspector Approval</p> <p>4. <input type="checkbox"/> MINIMUM LOT SIZE VARIANCE</p>	<p>INSTALLATION IS:</p> <p>COMPLETE SYSTEM</p> <p>1. <input checked="" type="checkbox"/> NON-ENGINEERED SYSTEM</p> <p>2. <input type="checkbox"/> PRIMITIVE SYSTEM (Includes Alternative Toilet)</p> <p>3. <input type="checkbox"/> ENGINEERED (+ 2000 gpd)</p> <p>INDIVIDUALLY INSTALLED COMPONENTS:</p> <p>4. <input type="checkbox"/> TREATMENT TANK (ONLY)</p> <p>5. <input type="checkbox"/> HOLDING TANK _____ GAL</p> <p>6. <input type="checkbox"/> ALTERNATIVE TOILET (ONLY)</p> <p>7. <input type="checkbox"/> NON-ENGINEERED DISPOSAL AREA (ONLY)</p> <p>8. <input type="checkbox"/> ENGINEERED DISPOSAL AREA (ONLY)</p> <p>9. <input type="checkbox"/> SEPARATED LAUNDRY SYSTEM</p>
<p>SEASONAL CONVERSION to be completed by the LPI</p> <p>5. <input type="checkbox"/> SYSTEM COMPLIES WITH RULES</p> <p>6. <input type="checkbox"/> CONNECTED TO SANITARY SEWER</p> <p>7. <input type="checkbox"/> SYSTEM INSTALLED - P4</p> <p>8. <input type="checkbox"/> SYSTEM DESIGN RECORDED AND ATTACHED</p>	<p>IF REPLACEMENT SYSTEM: YEAR FAILING SYSTEM INSTALLED _____</p> <p>THE FAILING SYSTEM IS:</p> <p>1. <input type="checkbox"/> BED 3. <input type="checkbox"/> TRENCH</p> <p>2. <input type="checkbox"/> CHAMBER 4. <input type="checkbox"/> OTHER _____</p>	<p>DISPOSAL SYSTEM TO SERVE:</p> <p>1. <input checked="" type="checkbox"/> SINGLE FAMILY DWELLING</p> <p>2. <input type="checkbox"/> MODULAR OR MOBILE HOME</p> <p>3. <input type="checkbox"/> MULTIPLE FAMILY DWELLING</p> <p>4. <input type="checkbox"/> OTHER _____ SPECIFY _____</p>
<p>SIZE OF PROPERTY 2.8 ACRES</p>	<p>ZONING DEV. RESIDENTIAL</p>	<p>TYPE OF WATER SUPPLY PROPOSED DRILLED WELL</p>

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

<p>TREATMENT TANK</p> <p>1. <input checked="" type="checkbox"/> SEPTIC: <input type="checkbox"/> Regular OR <input type="checkbox"/> Low Profile</p> <p>2. <input type="checkbox"/> AEROBIC</p> <p>SIZE: 1000 GALS.</p>	<p>WATER CONSERVATION</p> <p>1. <input checked="" type="checkbox"/> NONE</p> <p>2. <input type="checkbox"/> LOW VOLUME TOILET</p> <p>3. <input type="checkbox"/> SEPARATED LAUNDRY SYSTEM</p> <p>4. <input type="checkbox"/> ALTERNATIVE TOILET</p> <p>SPECIFY: _____</p>	<p>PUMPING</p> <p>1. <input type="checkbox"/> NOT REQUIRED</p> <p>2. <input checked="" type="checkbox"/> MAY BE REQUIRED (DEPENDS ON TREATMENT TANK LOCATION AND ELEVATION)</p> <p>3. <input type="checkbox"/> REQUIRED</p> <p>DOSE: _____ GALS.</p>	<p>CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)</p> <p>4-BEDROOM SINGLE FAMILY DWELLING; MINIMUM.</p>				
<p>SOIL CONDITIONS USED FOR DESIGN PURPOSES</p> <table border="1"> <tr> <th>PROFILE</th> <th>CONDITION</th> </tr> <tr> <td>3</td> <td>C</td> </tr> </table> <p>DEPTH TO LEAKING FACTOR: 16</p>	PROFILE	CONDITION	3	C	<p>SIZE RATINGS USED FOR DESIGN PURPOSES</p> <p>1. <input type="checkbox"/> SMALL</p> <p>2. <input type="checkbox"/> MEDIUM</p> <p>3. <input checked="" type="checkbox"/> MEDIUM-LARGE</p> <p>4. <input type="checkbox"/> LARGE</p> <p>5. <input type="checkbox"/> EXTRA LARGE</p>	<p>DISPOSAL AREA TYPE/SIZE</p> <p>1. <input type="checkbox"/> BED _____ Sq. Ft.</p> <p>2. <input checked="" type="checkbox"/> CHAMBER 600 Sq. Ft. <input checked="" type="checkbox"/> REGULAR <input type="checkbox"/> H-20</p> <p>3. <input type="checkbox"/> TRENCH _____ Linear Ft.</p> <p>4. <input type="checkbox"/> OTHER: _____</p>	<p>DESIGN FLOW: 360 GPD (GALLONS/DAY)</p>
PROFILE	CONDITION						
3	C						

SITE EVALUATOR STATEMENT

On NOV. 1, 1990 (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

Allen C. Ott
Site Evaluator Signature

187
SE#

11/1/90
Date

(Local Plumbing Inspector's Signature if permit is for Seasonal Conversion.)

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Planter

Street, Road, Subdivision LOT #5

Prop. Owners Name

MT. DESERT

DENNING BROOK SUB.

MICHAEL HEALY

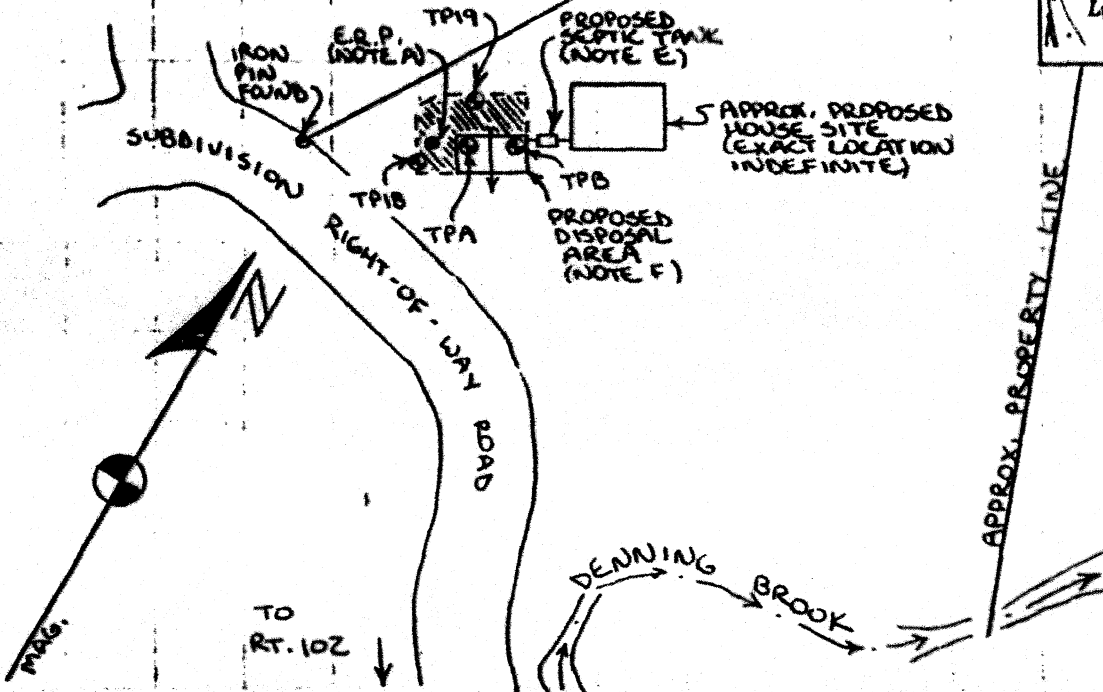
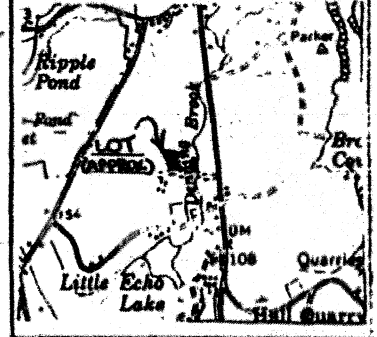
NOTES:

- TEST PITS #18 / 19 EXAMINED, DESCRIBED, MAPPED FOR ORIGINAL SUBDIVISION APPROVAL; BOTH 3IC SOILS WITH 16-17" TO MOTTLING.
- DASHED LINES SHOW APPROXIMATE LIMITS OF 1000+ SQ. FT. OF SUITABLE SOILS ADJACENT TO AND INCLUDING PROPOSED DISPOSAL AREA, AS PER LOCAL ZONING ORDINANCE REQUIREMENT.

SITE PLAN

Scale 1" = 100' FT.

SITE LOCATION PLAN (Attach)



KEY:

- ⊙ OBSERVATION HOLE (TP)
- ↓ DIRECTION OF DOWNHILL SLOPE
- ELEVATION REFERENCE POINT (E.R.P.)

REFER ALSO TO ATTACHED SHEET FOR THESE DESIGN NOTES (BY LETTERS):

- A G
- B H
- D J
- E K
- F L

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)									
Observation Hole TPA <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring 2" Depth of Organic Horizon Above Mineral Soil		Observation Hole TPB <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring 3" Depth of Organic Horizon Above Mineral Soil							
Depth (inches)	Texture	Consistency	Color	Mottling	Depth (inches)	Texture	Consistency	Color	Mottling
0-2	LOAM	FRIBLE	DARK YELLOWISH-BROWN	NONE EVIDENT	0-3	FINE SANDY LOAM	FRIBLE	ALIC-GRAY	NONE
2-4					3-5	GRAVELLY FINE SANDY LOAM		STRONG BROWN	EVIDENT
4-6					5-10			DARK YELLOWISH-BROWN	
6-8					10-15				
8-10					15-20			YELLOWISH-BROWN	COMMON;
10-12	GRAVELLY VERY FINE SANDY LOAM	FIRM IN PLACE	OLIVE-GRAY	COMMON; FINE FAINT	20-25				MEDIUM; DISTINCT
12-14					25-30				
14-16					30-35				
16-18					35-40				
18-20					40-45				
20-22					45-50				
22-24					50-55				
24-26					55-60				
26-28					60-65				
28-30					65-70				
30-32					70-75				
32-34					75-80				
34-36					80-85				
36-38					85-90				
38-40					90-95				
40-42					95-100				
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82-84									
84-86									
86-88									
88-90									
90-92									
92-94									
94-96									
96-98									
98-100									
Soil Classification: C Slope: ~11% Limiting Factor: 16				Soil Classification: C Slope: ~12% Limiting Factor: 16					

Ally C. City
Site Evaluator Signature

187
SE#

11/1/90
Date

SURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Street, Road, Subdivision LOT #5

Prop. Owners Name

MT. DESERT

DENNING BROOK SUB.

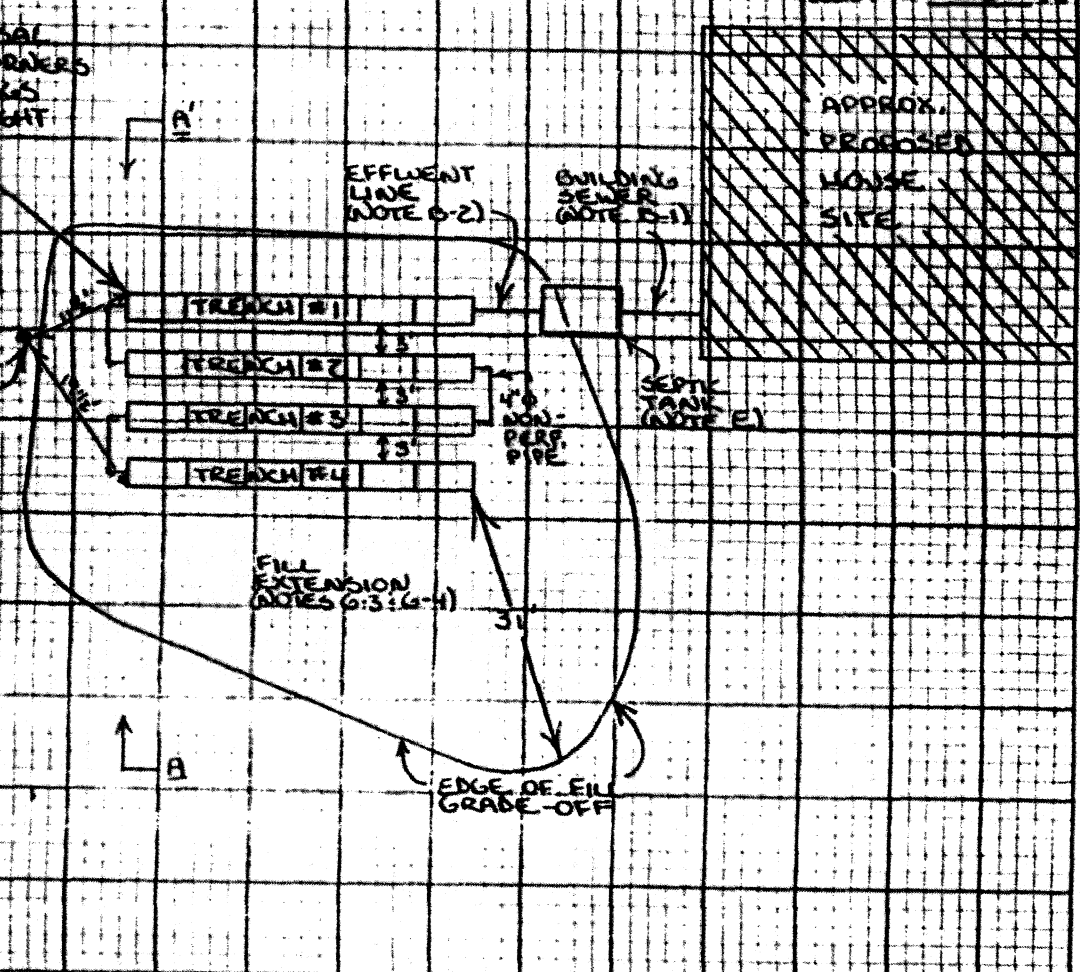
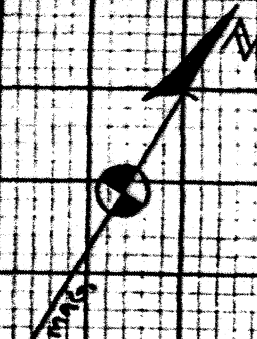
MICHAEL HEALY

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' F.

2" WIDE 12" DEEP LINED DISPOSAL AREA: FOUR PERIMETER CORNERS ARE STAKED OUT WITH FLAGS ON STAKES INDICATING HEIGHT OF FINISHED GRADE (NOTES G-1)

NOTE: SEE PLAN FOR LOCATION OF TRENCHES



FILL REQUIREMENTS	
Depth of Fill (Upslope)	20"
Depth of Fill (Downslope)	22-25"

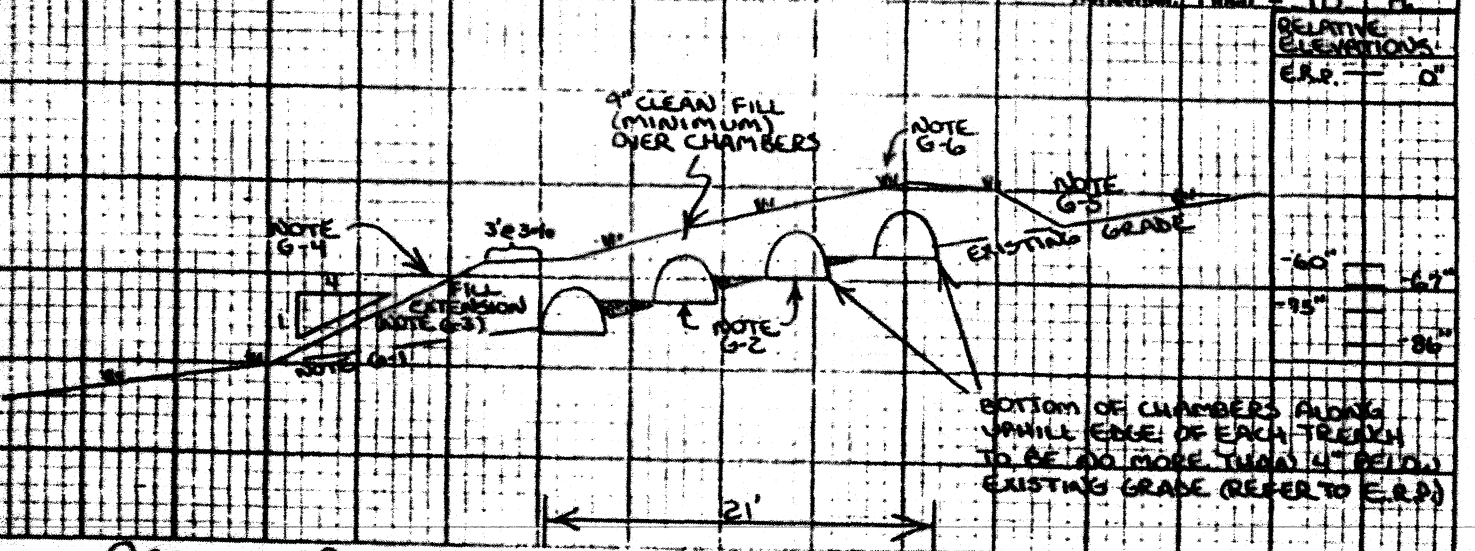
CONSTRUCTION ELEVATIONS (NOTE A)	
Reference Elevation is (REFER TO ATTACHED DESIGN NOTES SHEET)	
Bottom of Disposal Area	
Top of Distribution Lines or Chambers	

ELEVATION REFERENCE POINT (E.R.P.) LOCATION & DESCRIPTION	
A NAIL 1 1/2" UP ON A 16" DIA. PINE TREE LOCATED 11 1/2' @ 535' W FROM THE N.W. CORNER, AND 15 1/2' FROM THE S.W. CORNER OF THE PROPOSED LEACHFIELD.	

SHOWN ARE 24 INfiltrator HIGH-CAPACITY PLASTIC LEACHING CHAMBERS - 24 REQUIRED

DISPOSAL AREA CROSS SECTION (ACROSS A-A' ABOVE)

Scale:
Vertical: 1 inch = 5' F.
Horizontal: 1 inch = 10' F.



RELATIVE ELEVATIONS	
E.R.P.	0'
	-60"
	-67"
	-95"
	-84"

BOTTOM OF CHAMBERS ALONG WITH EDGE OF EACH TRENCH TO BE NO MORE THAN 4" BELOW EXISTING GRADE (REFER TO E.R.P.)

Allen C. O'H
Site Engineer Signature

157
SE#

11/2/90
Date

ALLAN E. OTT
CERTIFIED PROFESSIONAL SOIL SCIENTIST

DESIGN NOTES/SPECIFICATIONS

Attachment to MHE-200 Form for:

for Subsurface Wastewater

Disposal System

M. HEALY
prop. owner/applicant

NOTE

(A)

Elevation Reference Point (ERP) is ~~at the same elevation as~~ TRENCH #1 / #2 / #3 / #4 inches above ~~below~~ // 60" / 67" / 75" / 86" the bottom of the stone / the bottom of the chambers within the proposed disposal area as staked. Disposal area (leachfield) shall be no lower than indicated.

(B)

Sewer Pipes: Use 4" diameter approved materials (watertight). Insulate as necessary to protect from freezing; bury at least 1' deep; seed.

1. Building sewer: For gravity flow from building to septic tank, maintain minimum pitch of 1/4"/ft. (1/8"/ft. with LPI's approval).
2. Effluent line: For gravity flow below septic tank, maintain minimum pitch of 1/16"/ft.

(C)

Pump Needed: Gravity flow to disposal area is not feasible. See DESIGN NOTES/SPECIFICATIONS for PUMPED SYSTEMS for details.

(D)

(continued)

Distribution Box: Serves as worthwhile access point to disposal area. Set box properly on firm base, and protect from freezing by covering with soil or insulation.

(E)

Septic Tank:

1. Setback requirements which must be met when installing a septic tank include the following (unless reduced by waiver): 100 ft. from wells, except 75 ft. from owner's well; 100 ft. from high watermark of perennial waterbodies (may be reduced to 75 ft. if tank tested for water tightness in LPI's presence); 50 ft. from intermittent waterbodies; 25 ft. from man-made drainage ditches; 10 ft. from property lines; and 8 ft. from buildings.
2. Pumping of the septic tank every 3 to 4 years is generally considered good maintenance practice. Otherwise, clogging of the disposal area could result, necessitating costly replacement. Installation of a riser over the cleanout cover of the tank greatly facilitates maintenance.

(F)

Setbacks for Disposal Areas: Same as for septic tanks (NOTE E above) except for the following (unless waived): 100 ft. from owner's well; 100 ft. from perennial waterbodies; 20 ft. from buildings with basements; 15 ft. from buildings without basements.

NOTE

(C)

Disposal Area Construction Details:

1. The vegetation in the proposed disposal area and fill extensions shall be removed leaving as much of the original topsoil in place as possible. The ground surface shall then be raked/scarified to minimize glazing or smearing of the original soil.
2. The disposal area bottom and distribution line shall be level with a maximum grade tolerance of 1"/100 ft.
3. Clean fill (sandy loam or coarser) is to be placed in 8" lifts.
4. The finished grade of the backfill over the disposal area shall be crowned from the center of the disposal area at a 3% slope extending 3 ft. beyond the edge of the disposal area. At that point the fill shall be sloped at a uniform grade of no greater than 25% (4:1) to the original ground.
5. The land adjacent to the disposal area shall be graded to prevent both the accumulation of surface water on the disposal area, and the flow of surface water across it. Make sure that cellar drain line discharges away from disposal area also.
6. The finished disposal area and fill extensions shall be seeded to establish vegetation to prevent erosion: a) grass, clover, trefoil, vetch, perennial wildflowers, or other herbaceous perennials may be utilized for disposal area surfaces; woody shrubs are unacceptable; b) woody shrubs in conjunction with a hardy perennial ground cover may be used on fill extensions.

#

Bed or Trench Area Details:

1. A minimum total of 12" of stone of uniform size, 3/4" to 3" size range, and free of fines, dust, ashes or clay, shall be used on the bottom of the disposal area. The distribution pipes shall be installed totally within the stone.
2. The stone shall be completely covered with one of the following materials: a) a minimum 2" layer of compressed hay; b) one layer of an approved non-woven filter fabric; c) 1" of fiberglass insulation.
3. Clean backfill, 8 to 12" in depth, shall be carefully placed over the hay layer or approved substitute.

(I)

Chamber Disposal Area Details: Install approved chambers in accordance with manufacturer's recommendations and specifications.

(J)

Seeding: (Recommended quantities per 1000sq. ft.) Rake in 90 lbs. lime, 30 lbs. 5-10-10 fertilizer (or 1/4 ton manure); seed with 2 to 4 lbs. "Conservation Mix" available at garden centers; then mulch with 1½ bales hay to prevent erosion and aid establishment of vegetative cover.

(K)

Maintenance: Conserve water whenever possible. Low volume plumbing fixtures or flow reducers on showers, toilets, and sinks are strongly recommended. Also, do not drive or park vehicles over septic system. Also see NOTE E-2.

(L)

For further information: Contact me, or your town's Local Plumbing Inspector (LPI), or Div. of Health Engineering, Dept. of Human Services, Augusta, ME 04333, Tel. 289-3826, which administers the Subsurface Wastewater Disposal Rules, from which most of these specifications are derived.