

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Div of Environmental Health, 11 SHS
 (207) 287-5672 Fax: (207) 287-4172

PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	DANGOR	Town/City _____	Permit # _____
Street or Road	2075 BROADWAY	Date Permit Issued <u>1/1</u>	Fee. \$ _____ Double Fee Charged []
Subdivision, Lot #	MAP R20 LOT 7A	L.P.I. # _____	
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature _____ <input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
Name (last, first, MI)	COASTAL MAINE LLC <input checked="" type="checkbox"/> Applicant	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.	
Mailing Address of Owner/Applicant	9 BRADSTREET ELIOT, ME 03903		
Daytime Tel. #	207-200-6694		
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION 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 or Applicant _____ Date _____		(1st) date approved _____ Local Plumbing Inspector Signature _____ (2nd) date approved _____	

PERMIT INFORMATION			
TYPE OF APPLICATION <input checked="" type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System a. <25% Expansion b. >25% Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	THIS APPLICATION REQUIRES <input checked="" type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components	DISPOSAL SYSTEM TO SERVE <input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped
SIZE OF PROPERTY 18,000 ⁺ <input checked="" type="checkbox"/> SQ. FT. <input type="checkbox"/> ACRES	TYPE OF WATER SUPPLY <input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other		
SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input checked="" type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: <u>1000</u> GAL.	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device <input checked="" type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input checked="" type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: <u>4.152</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input checked="" type="checkbox"/> d. Filter on Tank Outlet	DESIGN FLOW <u>270</u> gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities <u>24 TYPE B ELIEN INOLAINS.</u> <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA
SOIL DATA & DESIGN CLASS PROFILE <u>81 D</u> CONDITION _____ at Observation Hole # <u>1</u> Depth <u>12</u> " of Most Limiting Soil Factor _____	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Medium---2.6 sq. ft. / gpd <input type="checkbox"/> 2. Medium---Large 3.3 sq. ft. / gpd <input checked="" type="checkbox"/> 3. Large---4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large---5.0 sq. ft. / gpd	EFFLUENT/EJECTOR PUMP <input type="checkbox"/> Not Required <input checked="" type="checkbox"/> May Be Required <input type="checkbox"/> Required Specify only for engineered systems: DOSE: _____ gallons	LATITUDE AND LONGITUDE at center of disposal area Lat. <u>44</u> d <u>050</u> m <u>807</u> s Lon. <u>69</u> d <u>618</u> m <u>062</u> s if g.p.s, state margin of error: _____

SITE EVALUATOR STATEMENT		
I certify that on <u>10/14</u> (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).		
_____ Site Evaluator Signature	<u>260</u> SE #	<u>10/23/14</u> Date
<u>Corinne Kenapp</u> Site Evaluator Name Printed	<u>207 997 7058</u> Telephone Number	_____ E-mail Address

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
 Division of Environmental Health
 (207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

BANGOR 2075 BROADWAY

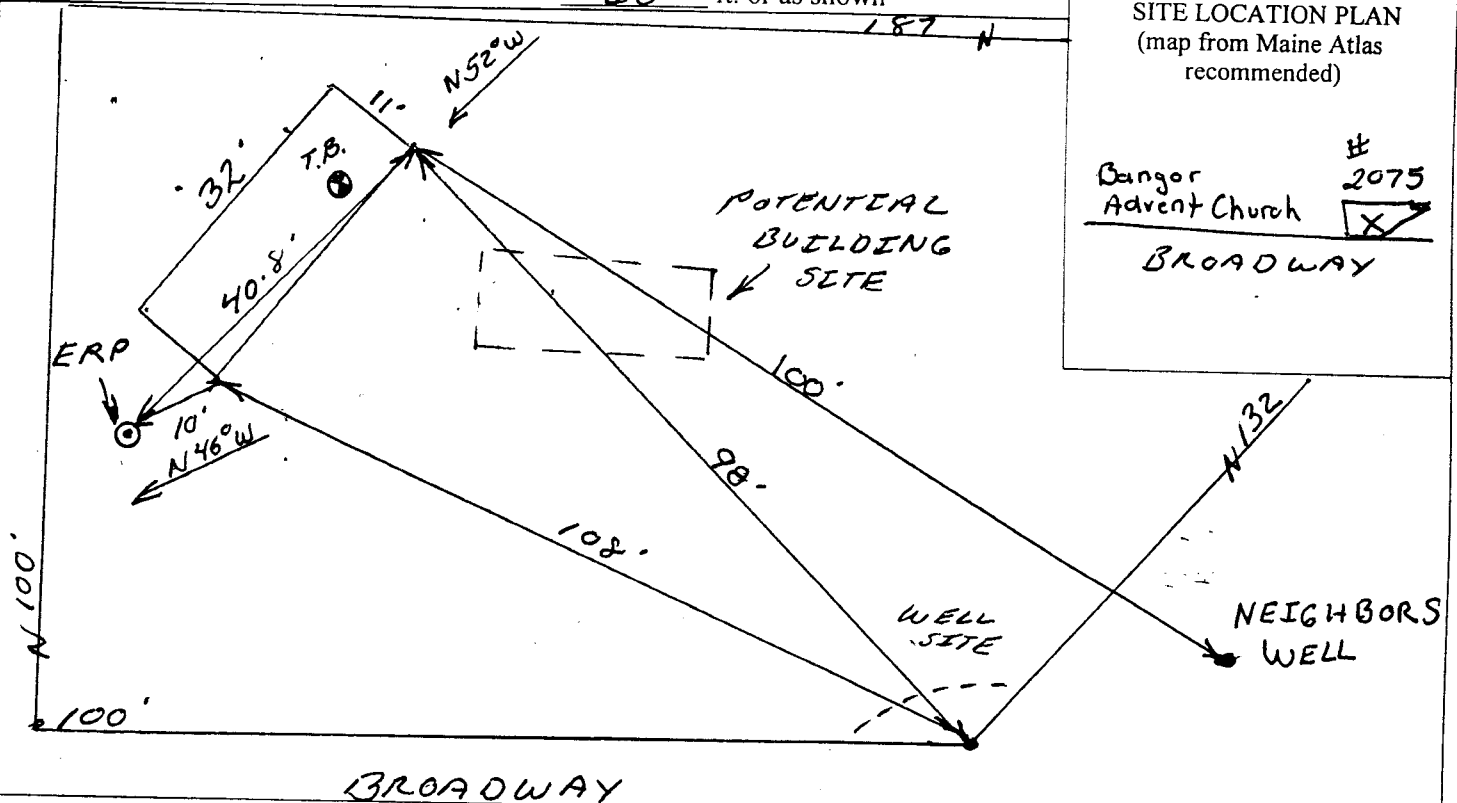
COASTAL MAINE LLC

SITE PLAN

Scale 1" = 20 ft. or as shown

SITE LOCATION PLAN
 (map from Maine Atlas
 recommended)

Bangor Advent Church # 2075
 BROADWAY



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

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

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

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0		FRIBLE	BROWN	NONE
10	SILT			
15	LOAM		OLIVE BROWN	COMMON
20	SILT CLAY		TO OLIVE	DISTINCT
30	LOAM		GRAY	
40				
50				

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				

Soil Classification S D	Slope 1 %	Limiting Factor 12 "	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
Profile	Condition		

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

[Signature]
 Site Evaluator Signature

260
 CE #

10/23/14

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Owner's Name

BANGOR

2075 BROADWAY

COASTAL MAINE, LLC

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.

10' minimum length of

4' solid pipe (schd 40) 1/4 inch

Minimum pitch/ft.

1000 gallon septic tank

3" drop inlet invert to outlet invert

4" solid pipe (SDR 35)

1/8 minimum pitch/ft.

Approximate edge of fill extension

NOTE: Section 7 Table 7A

Well setback reductions

First time system and disposal field

50' setback on septic tanks for under

1000 GPD

TABLE 7A

Reduction in setbacks between a Private Potable Water Supply and a disposal field with a design flow of less than 1,000 gpd

Depth of well casing or liner seal below ground level	Reduction in the minimum 100 ft setback distance
>40 feet to 55 feet	100 down to 90 feet
>55 feet to 70 feet	100 down to 80 feet
>70 feet to 86 feet	100 down to 70 feet
>86 feet	100 down to 60 feet

FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

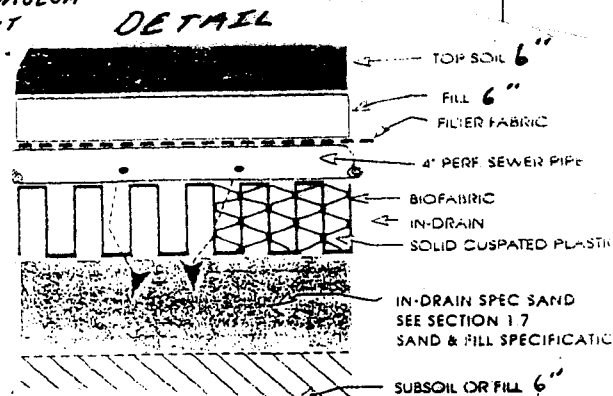
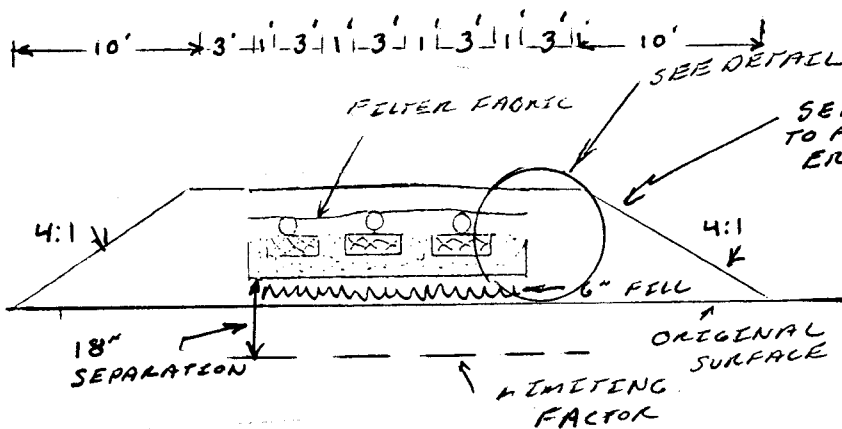
Depth of Fill (Upslope) 30" Finished Grade Elevation
 Top of Distribution Pipe or Proprietary Device
 Depth of Fill (Downslope) 30" Bottom of Disposal Area

-27" Location & Description: FLAGGED
 -39" NAIL OAK 49 1/2" ABOVE
 -52" Reference Elevation: 0.00 GRADE

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = ___ ft.
 Vertical 1" = ___ ft.



Remove Stumps and organics

Roto-till original surface thoroughly

In all areas including fill extensions

[Signature]
 Site Evaluator Signature

260
 SE #

10/23/14
 Date



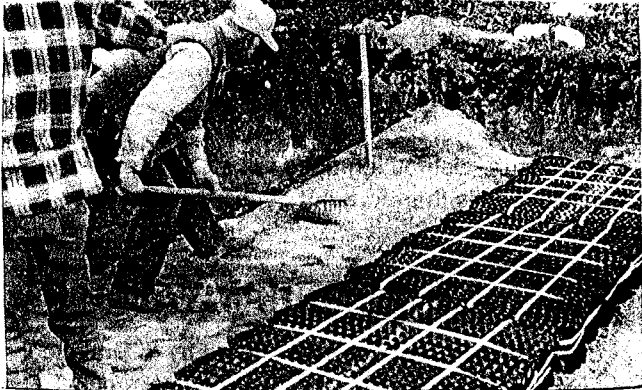
ELJEN™

IN-DRAIN™ LEACHING SYSTEM

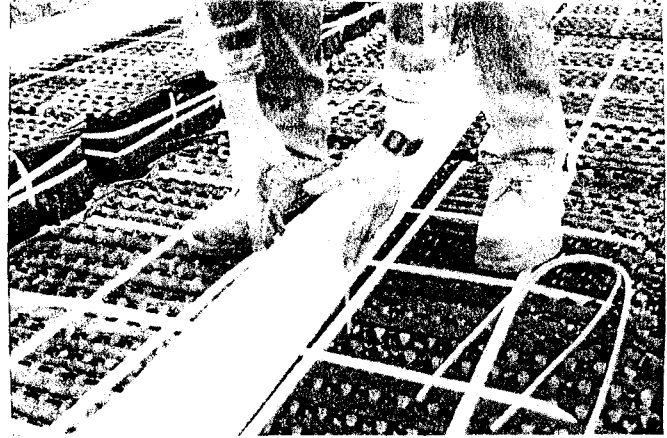
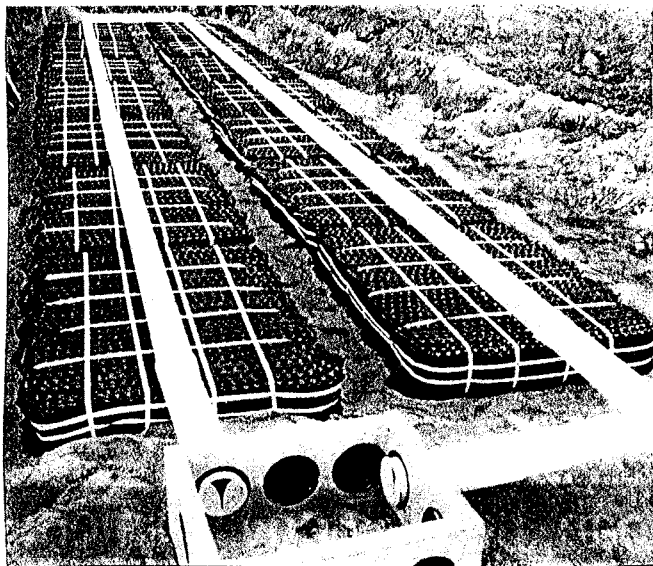


Trench and In-Ground Cluster Installation

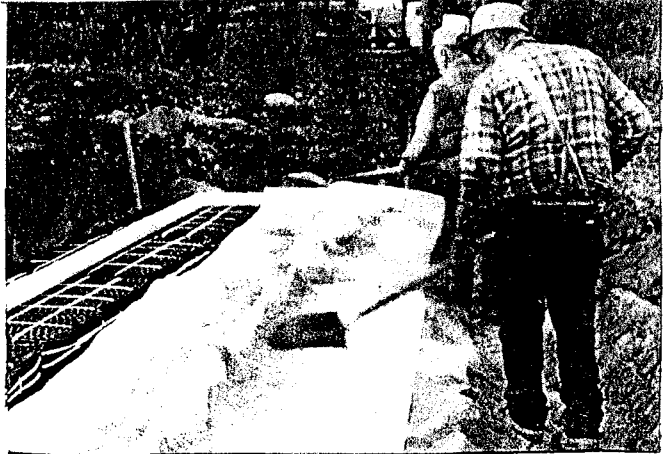
- 1 Prepare site according to local and state regulations. **Do not install system on frozen or saturated ground.**
- 2 Remove all organic soil and roots at disposal and fill extension areas.
- 3 Scarify receiving layer to eliminate smearing.
- 4 Place 6" of D.O.T. or state highway specification **washed 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.**



- 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.



- 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.**



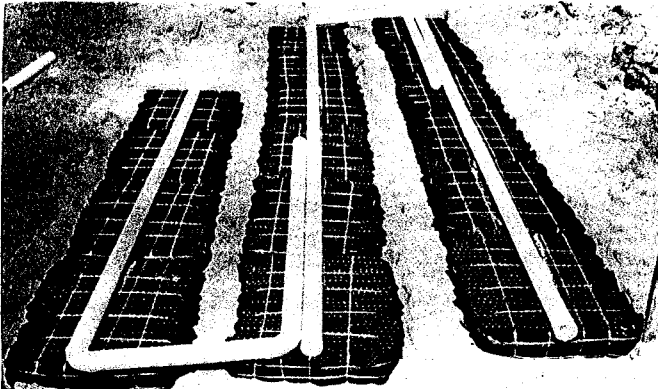
- 10 Place 12" medium to coarse sand (see step #4) between rows and 9" min. at the sides in trench or bed.
- 11 Complete backfill and loam to 12" min. over In-Drains. Fill should be clean, porous and devoid of large rocks. Use well graded sandy fill with a maximum 10% passing a #200 sieve. **Do not use 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.

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.



- 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.

Pumped Systems

- 1 Prepare disposal site as described above.
- 2 Provide a well anchored D-Box with a velocity reduction tee or baffle.
- 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

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