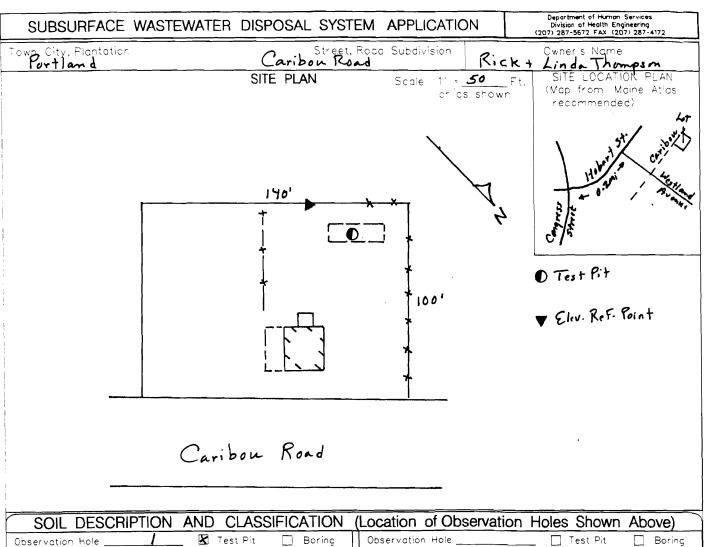
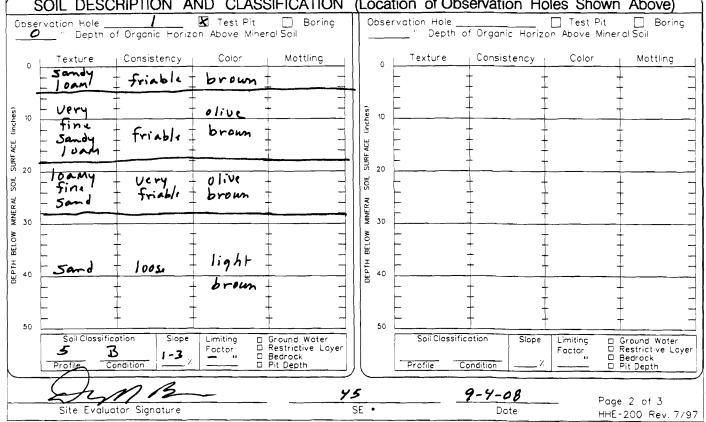
SUBSURF	ACE WA	STEWATER DISP	OSAL	SYSTEM	APPLICAT	Maine Dept.Health & Human Services Division of Health Engineering, 10 SHS (207) 287-5672 Fax: (207) 287-3165		
	PROPÉRTY I		>> C	AUTION: PERI	MIT REQUIRED	- ATTACH IN SPACE BELOW <<		
City, Town, or Plantation	Portlan							
Street or Road	Caribon	Road	PORTLAND PERMIT # 10812 TOWN COPY					
Subdivision, Lot #			issued)					
////////	R/APPLICAN	IT INFORMATION		Chip of My		FEE Charged		
Name (last, first, MI)	n . Rick+	D Owner Applicant		Local Flumbing Inspect	or Signature	L.P.I.# (101615)		
Mailing Address of 303 Turner St								
Daytime Tel. #	Auburn	WE 04310	Municipal Tax Map # Lot # / \$\int \family \cdot \family \left \family \family \left \family					
OWNER OR ARRIVANT STATEMENT			CAUTION: INSPECTION REQUIRED					
I state and acknowled my knowledge and ur and/or Local Plumbin	ge that the informat	on submitted is correct to the best of ulsification is reason for the Department		with the Subsurfa	ce Wastewater Disposa	(1st) date approved		
	nature of Owner or A		ÉRMÍT Í	NFORMATION (Plumbing Inspector Signa	ature (2nd) date approved		
TYPE OF API	PLICATION	THIS APPLICATION R			DISPOS	SAL SYSTEM COMPONENTS		
☐ 1. First Time System		2 1. No Rule Variance				olete Non-engineered System ive System (graywater & alt, toilet)		
★2. Replacement		☐ 2. First Time System Variance				native Toilet, specify:		
Type replaced: Mkneun		□ a. Local Plumbing Inspector□ b. State & Local Plumbing In	proval	 4. Non-engineered Treatment Tank (only) 5. Holding Tank, gallons 				
Year installed:		☐ 3. Replacement System Variance				engineered Disposal Field (only)		
☐ 3. Expanded System ☐ a. Minor Expansion ☐ b. Major Expansion		a. Local Plumbing Inspector Approval b. State & Local Plumbing Inspector Approval		pproval	 7. Separated Laundry System 8. Complete Engineered System (2000 gpd or more) 			
☐ 4. Experimental System		□ 4. Minimum Lot Size Variance		101	 □ 9. Engineered Treatment Tank (only) □ 10. Engineered Disposal Field (only) 			
5. Seasonal Conversion		☐ 5. Seasonal Conversion Permit			11. Pre-treatment, specify:			
SIZE OF PROPERTY		DISPOSAL SYSTEM TO S 1. Single Family Dwelling Unit, I		roome: 3	☐ 12. Miscellaneous Components			
14000	1 4 000 € SQ. FT. □ 2. Multiple Family Dwellin				TYPE OF WATER SUPPLY			
SHORELAND ZONING		□ 3. Other:(specify)		_	□ 1. Drilled Well □ 2. Dug Well □ 3. Private			
□ Yes □ No		Current Use Seasonal Year Round						
		DESIGN DETAILS		M LAYOUT SH	OWN ON PAGE	3)'////////////////////////////////////		
TREATME	NT TANK	DISPOSAL FIELD TYPE &		GARBAGE DIS	J	DESIGN FLOW		
1. Concrete 2 a. Regular	•	2/3. Proprietary Device	iidi			gallons per day		
□ b. Low Profile	•	☐ a. cluster array 爲 c. Linear		□ a. multi-compartment tank		BASED ON:		
□ 2. Plastic		🕱 b. regular load 🛭 d. H-20 i	load	□ b tanks in series		© 1. Table 501.1 (dwelling unit(s)) ☐ 2. Table 501.2 (other facilities)		
☐ 3. Other: GAL.		□ 4. Other:		☐ c. increase in tank capacity		SHOW CALCULATIONS for other facilit		
		SIZE: <u>720</u> R sq. ft. □ lin. ft.		☐ d. Filter on Tank Outlet EFFLUENT/EJECTOR PUMP				
SOIL DATA & DESIGN CLASS		DISPOSAL FIELD SIZING □ 1. Small—2.0 sq. ft. / gpd		W. A. Not Paguired See Mete		□ 3. Section 503.0 (meter réadings)		
PROFILE CONDITION DESIGN		■ 2. Medium—2.6 sq. ft. / gpd		□ 2. May Be Required		ATTACH WATER METER DATA		
		☐ 3. Medium—Large 3.3 sq. f.t / gpd		□ 3. Required		LATITUDE AND LONGITUDE at center of disposal area		
Depth"					Lat. 74 d24.768 m s			
of Most Limiting Soil Factor		☐ 5. Extra Large—5.0 sq. ft. / g	a Large—5.0 sq. it. / gpd DOSE:			Lon. 70 d 08.807 m s if g.p.s, state margin of error. 26'		
		/////////////////////SITF F	VÁLÚÁ	TOR STATEME	gallons NT////////			
certify that or	8-26-21	The House of the second		*****************		that the data reserved		
,				•	•	that the data reported are accurate a		
tnat the propos	sea system is	in compliance with the State	o inigif		_	sal Rules (10-144A CMR 241).		
Site Evaluator Signature				9- SE#		9-08 Date		
Darry N. Brown Site Evaluator Name Printed						Al @Main-landdevelop ment. Com		
	Site Evaluato	Name Printed		Telephone	Number	E-mail Address		
Note: Cha	nges to or de	eviations from the design	should	be confirmed w	vith the Site Eval	uator. HHE-200 Rev. 4/05		





Department of Human Services SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Street Rood Subdivision Owner's Name Portland Caribon Road Rick + Linda Thompson SCALE 1" = 20 FT SUBSURFACE WASTEWATER DISPOSAL PLAN Notes: 1. Disposal area shall consist of 15 Type "B" Elica In-Drains with the following configuration: 2 Rows of 71/2 In-Drains per ERP row with 30" separation between nows; 2. To avoid pumping, the building Sower shall be raised to accommodate the Following minimum grades: 1000 gallon Building Sewer: Septic Tank 1/4" perfort Effluent line: 118" per foot 3. Refer to the following attachments: a) Copy of Manufacturer's spec sheet; b) Copy of Chapter B of Wasteunter Rules. CONSTRUCTION ELEVATIONS ELEVATION REFERENCE POINT FILL REQUIREMENTS -60" Location & Description Nail W/red flag in Pine True Reference Elevation 0" Finished Grade Elevation -80" Depth of Fill (Upslope) Top of Distribution Pipe or Proprietory Device -96" Depth of Fill (Downslope) Bottom of Disposal Area (Bottom of Sand) DISPOSAL AREA CROSS SECTION 1" = **5**' VERTICAL 1" = 10' HORIZONTAL 4" Topsoil 8"9 ravelly Elion In- Drain

Site Evaluator Signature

6" medium to coarse Sand beneath and around In-Drains

Filter Fabric

45

9-3-08

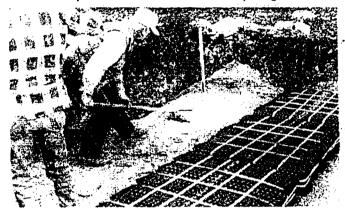
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Trench and In-Ground Cluster Installation

- Prepare site according to local and state regulations.

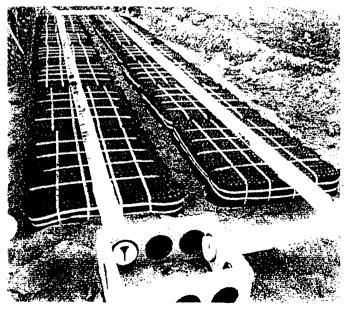
 Do not install system on frozen or saturated ground.
- Remove all organic soil and roots at disposal and fill extension areas.
- 3 Scarify receiving layer to eliminate smearing.
- Place 6" of D.O.T. or state highway specification washed concrete sand or sand known to be "medium to coarse with an effective size of .25 to 2.0 mm and no more than 5% passing a #200 sieve."
- 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.

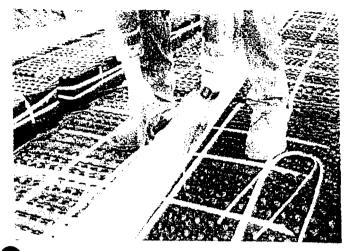


G: Center 4" perforated distribution pipe over In-Drains.

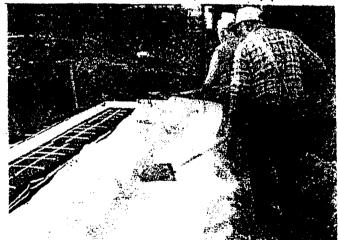
Use solid pipe over compacted sand from D-Box to InDrains and to connect distribution lines at far end.

Connect mid-points on rows over 40' long.





- Secure pipe with one Eljen clamp per In-Drain. Slide clamp into upfacing core. Force through fabric into sand.
- 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.



- Place 12" medium to coarse sand (see step #4) between rows and 9" min. at the sides in trench or bed.
- 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 seive. 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.
- Divert surface runoff. Finish grade to prevent surface ponding. Seed loam and protect from erosion.

CHAPTER 8

DISPOSAL FIELD CONSTRUCTION TECHNIQUES

SECTION 800.0 GENERAL

- **800.1 Intent:** This Chapter governs the installation of disposal fields.
- **800.2** General: On sites with fine soil textures, excavations that expose the bottom and sidewall area of the disposal field shall not be carried out when the soil moisture content is above the plastic limit except when correcting a nuisance, there is no practical alternative, the plumbing inspector agrees and special construction techniques are used. The absolute plastic limit can be estimated by rolling the soil with the fingers. If the soil forms a wire or rod 1/8th of an inch in diameter and does not crumble when handled, the soil moisture content is too high to proceed with the excavation.
- 800.3 Dig Safe Law: The "Dig Safe Law" 23 MRSA §3360-A places certain notification requirements on any person doing excavations. Excavation is broadly defined to mean any operation in which earth, rock or other material on or below the ground is moved or otherwise displaced by means of power tools, power equipment or explosives and including grading, trenching, digging, ditching, drilling, auguring, tunneling, scraping and cable or pipe driving, except tilling of the soil and gardening or agricultural purposes.

For a free Dig Safe in Maine information kit, contact the Maine Public Utilities Commission: 1-800-452-4699 www.state.me.us/mpuc - email: maine.puc@maine.gov.

SECTION 801.0 SITE PREPARATION

- **801.1 Site preparation requirements:** Prior to the placement of any backfill material, the ground surface shall be prepared as follows:
- **801.2 Soil erosion and sediment control:** In areas adjacent to a water body or wetlands, preventative erosion and sediment control measures should be employed consistent with Section 1504.0.
- **801.3 Clearing:** Vegetation shall be cut and removed from the area where backfill material is to be placed.
- **801.4** Scarify the site: Where possible, the area under the disposal field and backfill extensions shall be plowed or disked to produce a thoroughly roughened surface. Plowing shall be done parallel to the topographic contour in such a direction that each plow furrow will be thrown up-slope. The soil should be broken up to a depth of 6 to 8 inches. Alternatively, a roto-tiller or the teeth of a backhoe may be used.
- **801.5 Transitional horizon:** On sites where the backfill material is coarser than the original soil, a minimum of 4 inches of backfill materials must be mixed (by plowing, disking or roto-tilling) into the original soil to form a transitional horizon beneath the disposal area footprint and all side and down slope fill extensions.

- 801.6 Fill large holes: If large holes are left as a result of stump and/or stone removal, these holes shall be filled with suitable backfill material that meets the requirements of Subsection 803.2.
- **801.7 Surface water diversion:** Surface water shall be diverted away from the disposal field site.

SECTION 802.0 EXCAVATION

- **802.1 Excavation requirements:** Any excavation required for the installation of a disposal field shall comply with all the requirements in this Section.
- **802.2 Bottom of disposal field:** The bottom of each disposal field shall be installed at the elevation specified on the permit. It shall be maintained to a level grade no greater than 2 inches within 100 feet. Note: The bottom of a disposal field serves as the final stage of the distribution network.
- **802.3** Avoid unnecessary compaction: Excavation shall be carried out in a manner that will avoid unnecessary compaction of both sidewalls and bottom area. Heavy equipment, especially rubber tired vehicles such as front-end loaders, should not be driven over the exposed bottom of the disposal field. Excavation should be carried out, when possible, by a back-hoe operating from outside the perimeter of the previously excavated portions of the disposal fields.
- **802.4 Reopen smeared or compacted bottom or sidewall surfaces:** If any portion of the bottom or sidewalls becomes smeared or compacted, that portion must be scarified to reopen soil pores. Rototilling may be necessary to reach the limit of compacted soil depth.
- **802.5 Weather conditions:** Work should be scheduled so that excavated areas are not exposed to rainfall or wind-blown silt. Any loose soil or debris that is washed or otherwise deposited within the excavation shall be carefully removed prior to backfilling. Additionally, disposal fields should not be installed in frozen ground or when the ambient air temperature is below freezing, especially if construction will take place over several days.

SECTION 803.0 INSTALLATION

- **803.1 Construction:** The installer of the system shall make certain that the system and all its component parts are installed in conformance with the requirements of this code, the plan prepared by the site evaluator, and with any special engineering design requirements approved or required by the Department under Chapter 19.
- **803.2 Soil and backfill material:** The installer of the system shall make certain that the construction and installation are performed without adversely affecting the capacity of the soil or backfill material to adequately absorb or treat the septic tank effluent.

pipes shall be installed per the manufacturer's instructions.

- **805.2 Disposal field stone:** The stone used in disposal fields shall meet the following requirements:
 - **805.2.1 General:** Where used, the stone shall cover the distribution pipes and extend the full width and length of the disposal field.
 - **805.2.2 Minimum thickness:** The disposal field stone depth shall extend at least 7 inches beneath the bottom of the distribution pipes and shall extend at least 1 inch above the top of the distribution pipes.
 - **805.2.3 Stone requirements:** The disposal field stone shall be clean, uniform in size and free of fines, dust, ashes, or clay. It shall conform to one of the nominal stone sizes listed in Table 800.1.

TABLE 800.1

Maximum Percent passing by weight

		Nominal Stone Size						
		2 1/2"	2"	1 1/2"	1"	3/4"		
	4"	100	100	100	100	100		
	. 3"	90	95	100	100	100		
a)	2"	10	10	90	95	100		
Siz	1"	5	5	10	10	90		
Sieve Size	3/4"	4	4	5	5	10		
S	1/2"	3	3	4	4	5		
	1/4"	2	2	3	3	4		
	#200	2	2	2	2	2		

- **805.2.3.1 Stone specifications:** A site evaluator may define a more stringent standard for stone size for any particular system.
- 805.2.4 Placing stone: The disposal field stone may be loaded onto the disposal field site using a backhoe, front-end loader, or dump truck. This operation shall be carried out from the sides of the disposal field rather than by driving onto the prepared area of the disposal field. In the case of large disposal fields, tracked equipment may be operated within the disposal field. This equipment shall not exert a ground pressure in excess of eight pounds per square inch. The disposal field stone shall be pushed in front of the vehicle such that a minimum of one foot of stone is maintained beneath the vehicle track and the original soil surface.
- **805.3 Covering the disposal field stone:** The disposal field stone shall be covered with a layer of filter fabric or two (2) inches of compressed hay as the laying of the distribution pipes progresses. Filter fabric may be used, provided the following requirements are met:

- **805.3.1 Overlapping filter fabric sheets:** Edges of adjacent sheets of fabric shall be overlapped by a minimum of 6 inches; and
- 805.3.2 Fabric requirements: The filter fabric specified in the system design shall have: adequate tensile strength to prevent ripping during installation and backfilling, adequate air permeability to allow free passage of gases; and adequate particle retention to prevent downward migration of soil particles into the disposal field. The minimum physical properties for the fabric shall be 4.0 ounces/square yard (per ASTM D-3776).
- **805.3.3 Prohibited:** The use of waterproof paper is prohibited.

SECTION 806.0 FINAL GRADING

- **806.1 General:** Final grading for vegetative stabilized disposal areas shall be carried out in compliance with the requirements of this Section.
- **806.2 Cover material:** At least 4 inches of soil or soil/soil amendment mix, suitable for establishment of a good vegetative cover shall be placed over the entire filled area including the fill material extensions.
- **806.3 Final grading:** Final grading shall be completed in such a manner that surface water will not collect over the disposal field.
- **806.4 Erosion control:** Immediately after completion of final grading, the fill material surface shall be stabilized by mulching and seeding, or sodding, to establish a good vegetative cover to prevent erosion.
 - **806.4.1 Vegetative covers:** Grass, clover, trefoil, vetch, perennial wild flowers, or other herbaceous perennials may be utilized for disposal field surfaces.
 - **806.4.2 Other covers:** Bark chips, woodchips, pine needles, and other organic materials may be used as cover material when specified by the designer.
 - **806.4.3 Woody shrubs and trees**: Woody shrubs or trees are unacceptable on disposal field surfaces. Woody shrubs may be used in conjunction with a hardy perennial ground cover on backfill material extensions only.

SECTION 807.0 CURTAIN DRAINS

- **807.1 Requirements:** Curtain drains, when required, shall be up-slope of the disposal field, approximately perpendicular to the flow of ground water, intercepting and diverting groundwater away from the disposal field.
- **807.2 Setbacks:** The minimum distance between the disposal field and a curtain drain shall be as follows;
- **807.3 Setback up-slope:** A minimum setback distance of 10 feet shall be maintained between a curtain drain and the up-slope edge of a disposal field. The curtain drain shall be located beyond the toe of the uphill fill extension if the uphill extension is greater than 10 feet and constructed so that the curtain drain is located to prevent any under drain of the disposal field.