

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 <<	
City, Town, or Location	Augusta	AUGUSTA Date Permit Issued: <u>9-23-05</u> PERMIT # <u>5649</u> <u>00</u> DOWN COPY \$ <u>100</u> FEE Double Fee Charged L.P.I. # <u>850</u> _____ Local Plumbing Inspector Signature Subsurface Wastewater Disposal Rules	
Street or Road	Mud Mills Road		
Subdivision, Lot #			
OWNER/APPLICANT INFORMATION			
Name (last, first, MI)	Jackson, Paul		
Mailing Address of	100 High St		
<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	Dexter ME 04930		
Daytime Tel. #	924-7698	Municipal Tax Map # <u>3560</u> Lot # <u>281</u> <u>12</u> <u>13B</u>	
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		_____ Local Plumbing Inspector Signature	
_____ Date		_____ (1st) Date Approved	
		_____ (2nd) Date Approved	

PERMIT INFORMATION

TYPE OF APPLICATION 1. <input checked="" type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: _____ Year Installed: _____ 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 checked="" 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 ~ 12 acres <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> acres	DISPOSAL SYSTEM TO SERVE 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>4</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: <u>Actually Two Mobile Homes</u> SPECIFY w/2 BR ea	Proposed 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:

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 type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY <u>1000</u> 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 type="checkbox"/> Cluster array c. <input checked="" type="checkbox"/> Linear b. <input type="checkbox"/> Regular load d. <input type="checkbox"/> H-20 load 4. <input type="checkbox"/> Other: _____ SIZE <u>250</u> <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT 1. <input checked="" type="checkbox"/> No 3. <input type="checkbox"/> Maybe 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 type="checkbox"/> Filter on Tank Outlet	DESIGN FLOW <u>360</u> 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 –
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN <u>3 1 C 1 1</u> at Observation Hole # <u>1</u> Depth <u>22</u> - Elevation <u>-57</u> 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"/> May Be Required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: <u>50</u> gallons	3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA

SITE EVALUATOR STATEMENT

I certify that on 5/13/05 (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

201
 SE #

5/22/05
 Date

 Site Evaluator Name Printed

547-3005
 Telephone #

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

Town, City, Plantation
Augusta

Street, Road Subdivision
Mud Will Rd

Owner's Name
Paul Jackson

SITE PLAN

Scale 1" = _____ Ft.
or as shown

SITE LOCATION PLAN
(Map from Maine Atlas recommended)

See attached pg 2a of 3

See attached pg 2a of 3

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

Observation Hole 1 Test Pit Boring
4 " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
		Very Dk Br	
Very Stony	Loose	Dk Or	
SL		Med Yl Br	
	Friable	lt Yl Br	Faint
	Firm		

Soil Classification <u>3</u> Profile	Slope <u>C</u> Condition	Limiting Factor <u>23"</u>	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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Observation Hole 2 Test Pit Boring
4 " Depth of Organic Horizon Above Mineral Soil

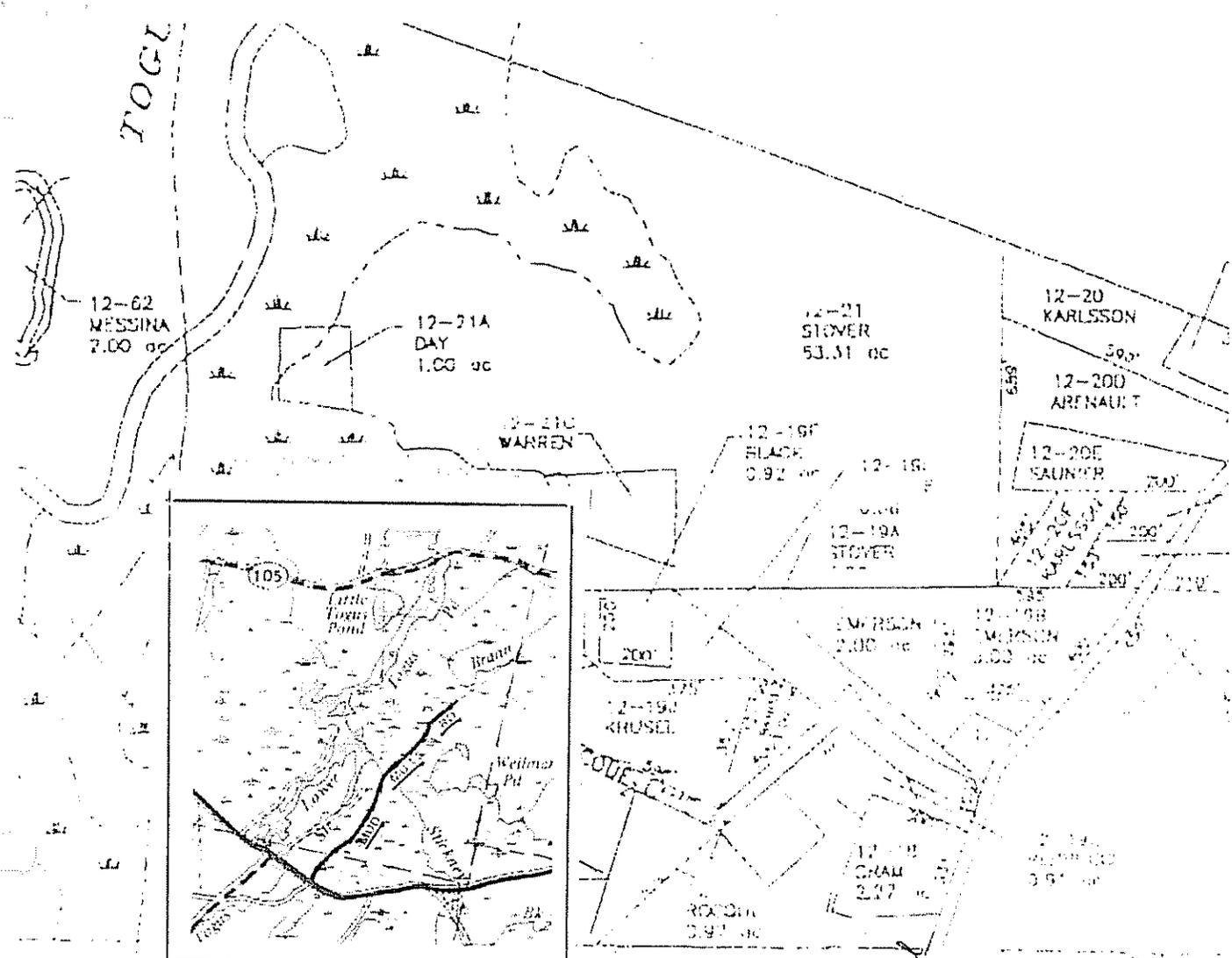
Texture	Consistency	Color	Mottling
		Very Dk Br	
Very Stony	Loose	Dk Or	
SL		Med Yl Br	
	Friable	lt Yl Br	Faint
	Firm		

Soil Classification <u>3</u> Profile	Slope <u>C</u> Condition	Limiting Factor <u>26"</u>	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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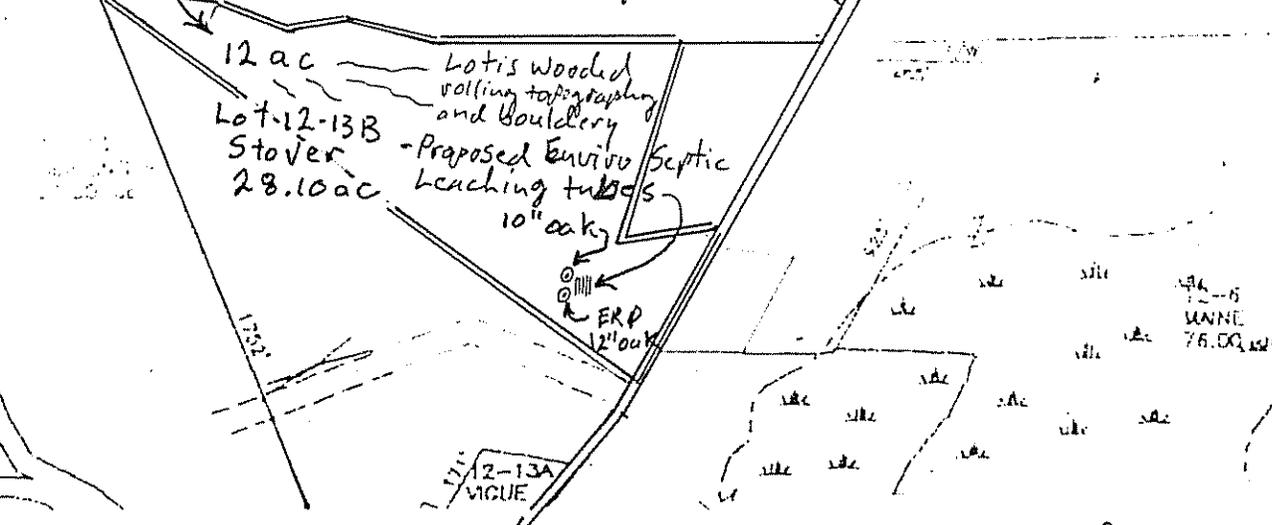
Hammer Bishop
Site Evaluator Signature

201
SE

5/22/05
Date



Book #3560 Pg #281
 Jackson Site
 Scale ~ 455' = 1"



DB #201

To Rt 17 ~ 1/2 mile

Pg 2a of 3

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Augusta

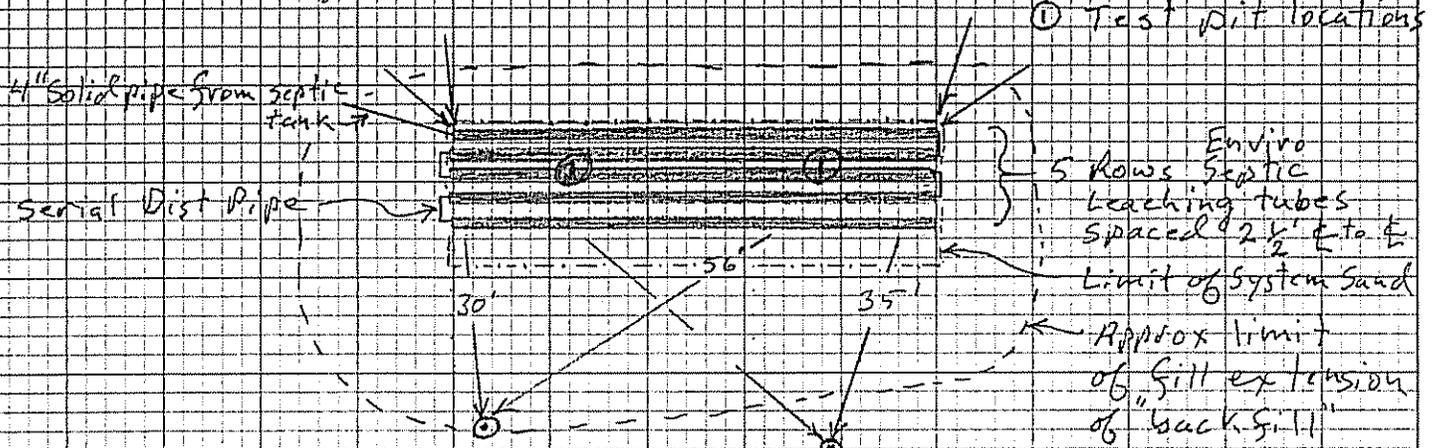
Street, Road, Subdivision
Mud Mill Rd

Owner's Name
Paul Jackson

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.

All construction to be in accordance with Maine Subsurface Wastewater Disposal Rules



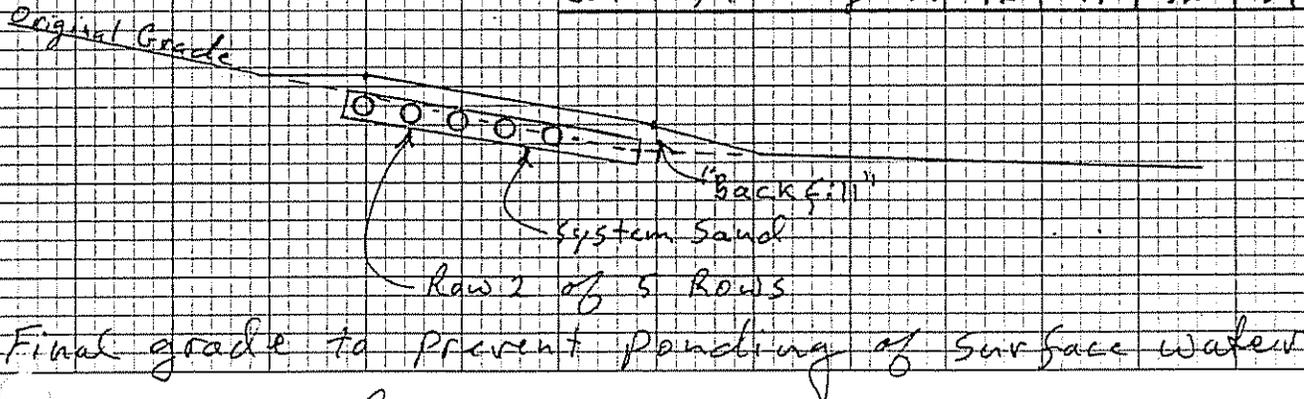
- Septic Tank to be minimum of 8' from foundations or mobile home and minimum of 100' from wells
- Leaching Tubes to be minimum of 20' from foundations, 15' from mobile home and minimum of 100' from wells
- See Attached Pgs 3a, 3b & 3c ^{+3d} of 3 for additional requirements

FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT	
Depth of Fill (Upslope)	~ 12"	Finished Grade Elevation at row 1	-20"	Location & Description is red slotted nail in tree (oak)	
Depth of Fill (Downslope) Varies	~ 18" +	Top of Distribution Pipe or Proprietary Device	See	5" above base of tree	
		Bottom of Disposal Area	below	Reference Elevation 0'00"	

DISPOSAL AREA CROSS SECTION

SCALE:
VERTICAL: 1" = 10'
HORIZONTAL: 1" = 10'

	Row # 1	2	3	4	5
Top of leaching tube	-30"	-35"	-40"	-45"	-50"
Bottom of leaching tube	-42"	-47"	-52"	-57"	-62"



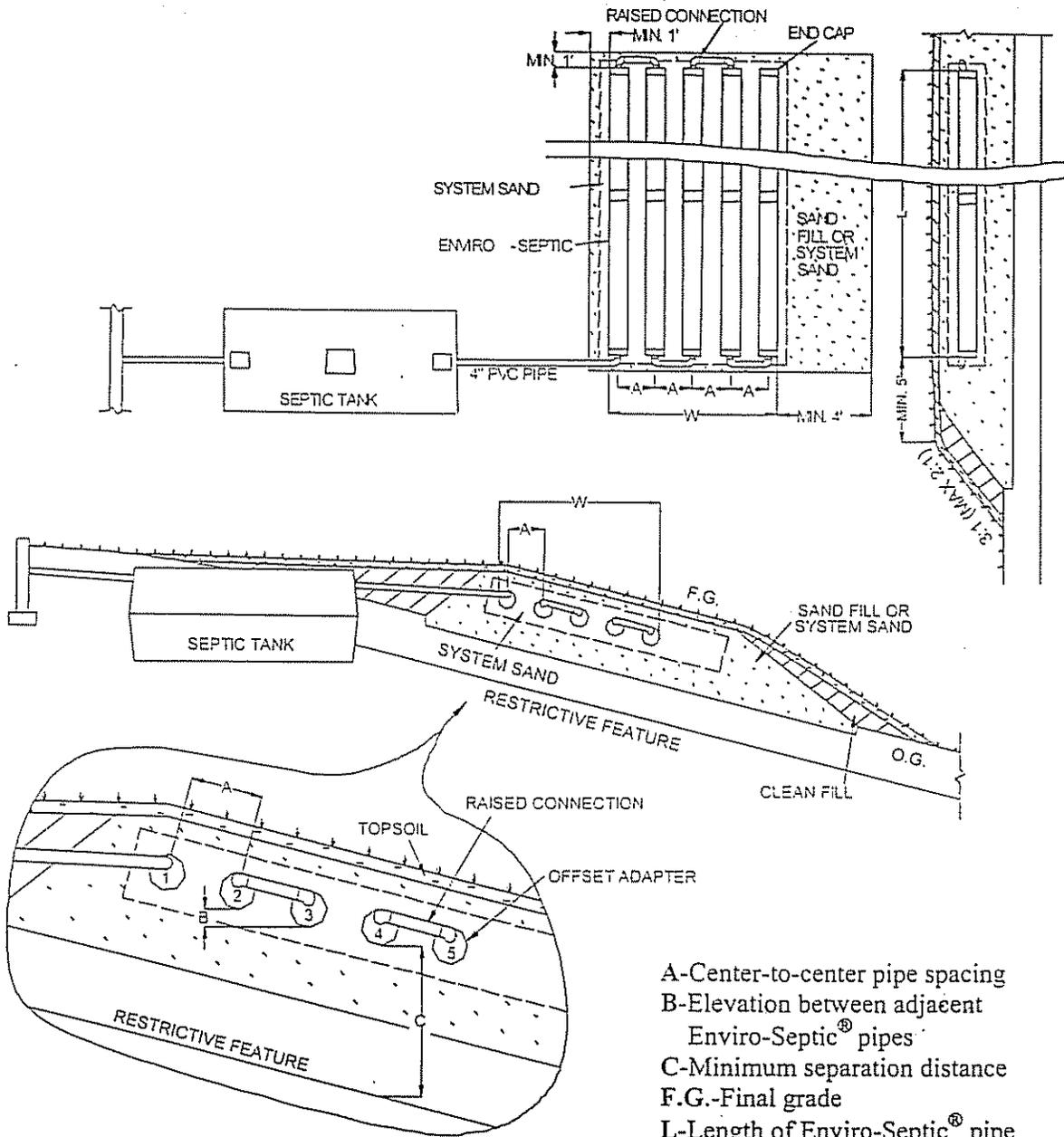
Hanson Bay
Site Evaluator Signature

201
SE

5/22/05
Date

Augusta Mud Mill Rd Jackson
 Basic Serial Systems – Level In-Ground, Level Raised, In-Ground Sloping, and Raised Sloping, Continued

Raised sloping Here are top/side and end views of a raised sloping system. This system has a slope greater than 10%.



- A-Center-to-center pipe spacing
- B-Elevation between adjacent Enviro-Septic® pipes
- C-Minimum separation distance
- F.G.-Final grade
- L-Length of Enviro-Septic® pipe
- O.G.-Original grade
- W-Width of Enviro-Septic® pipe

Note: Tank location may vary.

Sand and Fill Requirements

Introduction

This page describes the sand and fill requirements for the Enviro-Septic® Leaching System.

System sand

All configurations of Enviro-Septic® require a minimum of 6" of system sand surrounding the circumference of the pipe. This sand, typically gravelly coarse sand, must adhere to the following percentage and quality restrictions.

Percentage Restrictions

35% or less of the total sand may be gravel.

40%-90% of the total sand is to be coarse and very coarse sand.

Gravel Quality Restrictions

No gravel is to exceed ¾" in diameter.

No gravel is smaller than 2mm/.0787" in diameter. (It must not pass through a #10 sieve.)

Coarse Sand Quality Restrictions

No coarse sand is smaller than 0.5mm/.0196" in diameter. (It must not pass through a #35 sieve.)

Fines Quality Restrictions

No more than 2% of the total sand may pass through a #200 sieve.

ASTM Standard: C-33 (concrete sand) meets the above requirements.

Sand fill and clean fill

Sand fill is the material used to surround the system sand. *ME Rules 804.2*

Note: System sand may also be used as sand fill. *Copy Attached*

Clean fill is the material used to complete the system. *Clean Permeable Fill Materials*

Reference: See "Sand Fill and Clean Fill Requirements" in your State attachment.

Raised system fill extensions

Raised systems require fill extensions.

Reference: See "Raised systems fill extensions" in your State attachment.

Perimeter sand requirements

Systems sloping 10% or less require the system sand and sand fill area to extend a minimum of 1.0' around the perimeter of the Enviro-Septic® pipe.

Systems sloping greater than 10% require the system sand and sand fill area to extend a minimum of 1.0' on three sides and 4.0' beyond the Enviro-Septic® pipe on the down-slope side.

Augusta

Mud Mill Rd

Jackson

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(D) 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. Tel.: 1-888-225-4977.

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 rototiller 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 rototilling) into the original soil to form a transitional horizon.

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.

Augusta

SECTION 804.0 BACKFILL PLACEMENT FOR DISPOSAL AREAS INCLUDING FILL EXTENSIONS

804.1 General: Selection and placement of backfill shall comply with the requirements of this section.

804.2 Backfill standards: The backfill material shall be a coarse sand to a gravelly coarse sand which meets the following requirements:

804.2.1 Coarse fragments: The upper limit of coarse fragments shall be 3 inches in diameter and approximately 5% by volume;

804.2.2 Textural analysis: The soil texture for backfill, unless otherwise authorized by this code, is coarse sand to gravelly coarse sand with approximately 4 to 8% of the sand, silt and clay fraction passing a #200 sieve. The upper limit of clay sized particles in the sand, silt, and clay fraction shall be approximately 2%. The backfill shall contain approximately 15% to 30% (by weight) coarse fragments (gravel 2 mm to 3 inches).

804.2.3 Field Determination of backfill: Due to the difficulty of obtaining sieve analyses and the variability of backfill material, the following procedures can be used in the field to determine the suitability of backfill material. The backfill is suitable if the soil texture is loose single grains, the individual sand grains can be readily seen (similar to salt or sugar grains) and felt, and the following conditions are observed: If squeezed in the hand when dry, it will fall apart when the pressure is released but has enough fines to stain the lines in the palm of the hand; or, if squeezed when moist, it will form a cast that will crumble when touched and bears very careful handling; and it does not form a ribbon between the thumb and forefinger but has enough fines to stain the lines in the palm of the hand.

804.2.4 Coarser material beneath or beside disposal system: Coarser material may be placed immediately adjacent to the disposal field provided that the rest of the backfill material meets the requirements of Subsection 804.2. If coarser material is used beneath the disposal field it shall be considered part of the disposal field for determining the separation between the limiting factor and the bottom of the disposal system.

804.2.5 Fill material placement above disposal system: Immediately above the filter fabric, hay or proprietary devices, fill is required as specified on the plans. It shall be a minimum of 8 inches in thickness (including cover material).

804.2.6 Cover material: Immediately above the backfill or fill material, at least 4" of soil or soil and soil amendment mix, suitable for establishment of a good vegetative cover, shall be placed over the entire disturbed soil area, including fill extensions.

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5/22/05

32 of 3