

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

<b>PROPERTY LOCATION</b>		<b>&gt;&gt; Caution: Permit Required – Attach in Space Below &lt;&lt;</b>	
City, Town, or Plantation	Augusta	AUGUSTA PERMIT # 6173 TOWN COPY Date Permit Issued: <u>12/17/08</u> \$ <u>1200.00</u> <input type="checkbox"/> Double Fee Charged L.P.I. # <u>POA</u> Local Plumbing Inspector Signature:	
Street or Road	681 Riverside Drive		
Subdivision, Lot #			
<b>OWNER/APPLICANT INFORMATION</b>			
Name (last, first, MI)	Kenway Corp. <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant		
Mailing Address of Owner/Applicant	681 Riverside Drive Augusta, ME 04330-9714		
Daytime Tel. #	(207) 622-6229	Municipal Tax Map # <u>2</u> Lot # <u>31</u>	
<b>Owner/Applicant Statement</b>		<b>Caution: Inspections Required</b>	
I state and acknowledge that the information submitted is correct to the best of my knowledge, that I have read and agree with the conditions on the back of this form, 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 on back of this form and found it to be in compliance with the Subsurface Wastewater Disposal Rules and local ordinances.	
Signature of Owner/Applicant:  Date: <u>4/8/08</u>		Local Plumbing Inspector Signature:  Date Approved: <u>12/24/08</u> Date Approved: <u>12/2/08</u>	
<b>PERMIT INFORMATION</b>			
<b>TYPE OF APPLICATION</b> 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"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	<b>THIS APPLICATION REQUIRES</b> 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 5. <input type="checkbox"/> Minimum Lot Size Variance 6. <input type="checkbox"/> Seasonal Conversion Variance	<b>DISPOSAL SYSTEM COMPONENT(S)</b> 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 Disposal Area 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) 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	
<b>SIZE OF PROPERTY</b> <input type="checkbox"/> sq. ft. 47 <input checked="" type="checkbox"/> acres	<b>DISPOSAL SYSTEM TO SERVE:</b> 1. <input type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: _____ 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input checked="" type="checkbox"/> Other: <u>Manufacturing Plant</u> Specify _____ Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	<b>TYPE OF WATER SUPPLY</b> 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: _____	
<b>SHORELAND ZONING</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)</b>		
<b>TREATMENT TANK</b> 1. <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY: # <u>2-1000</u> Gallons	<b>DISPOSAL AREA TYPE/SIZE</b> 1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device <input type="checkbox"/> Cluster array <input checked="" type="checkbox"/> Linear <input checked="" type="checkbox"/> Regular load <input type="checkbox"/> H-20 load 4. <input type="checkbox"/> Other: <u>manufacturing plant</u> SIZE: <u>2722</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	<b>GARBAGE DISPOSAL UNIT</b> 1. <input checked="" type="checkbox"/> No 2. <input type="checkbox"/> Yes 3. <input type="checkbox"/> Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> Multi-compartment tank <input type="checkbox"/> _____ Tanks in series <input type="checkbox"/> Increase in tank capacity <input checked="" type="checkbox"/> Filter on tank outlet	<b>DESIGN FLOW</b> 825 gallons per day BASED ON: 1. <input type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input checked="" type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS --for other facilities-- 55 employees at 15 gpd 3. <input type="checkbox"/> Section 503.0 (meter read.) ATTACH WATER-METER DATA
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE CONDITION DESIGN <u>3 / D / 3D</u> at Observation Hole # <u>TP 1</u> Depth: <u>13"</u> OF MOST LIMITING SOIL FACTOR	<b>DISPOSAL FIELD SIZING</b> 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.	<b>EFFLUENT/EJECTOR PUMP</b> 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 _____ Gallons	
<b>SITE EVALUATOR COMMENTS</b>			
System-5 rows of 11 bio-diffusers for the bathroom area in the existing building (a 1000 gallon concrete septic tank to be installed for each leach field in addition to the one that is already existing). The new building will tie into the existing leach field.			
<b>SITE EVALUATOR STATEMENT</b>			
I Certify that on <u>December 25, 2006</u> (date) I completed a site evaluation on this project and state that the data reported is accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241) as interpreted by me.			
<u>Kane P. Coffin</u> Kane P. Coffin, an agent of E.S. Coffin Engineering & Surveying, Inc.		SE #331 Licensed Site Evaluator	<u>December 26, 2006</u> Date
E.S. Coffin Engineering & Surveying, Inc. 432 Cony Road P.O. Box 4687 Augusta, Maine 04330-1687		(207) 623-9475 or 1-800-244-9475	Fax (207)623-0016

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator  
See back of this form for conditions of permit

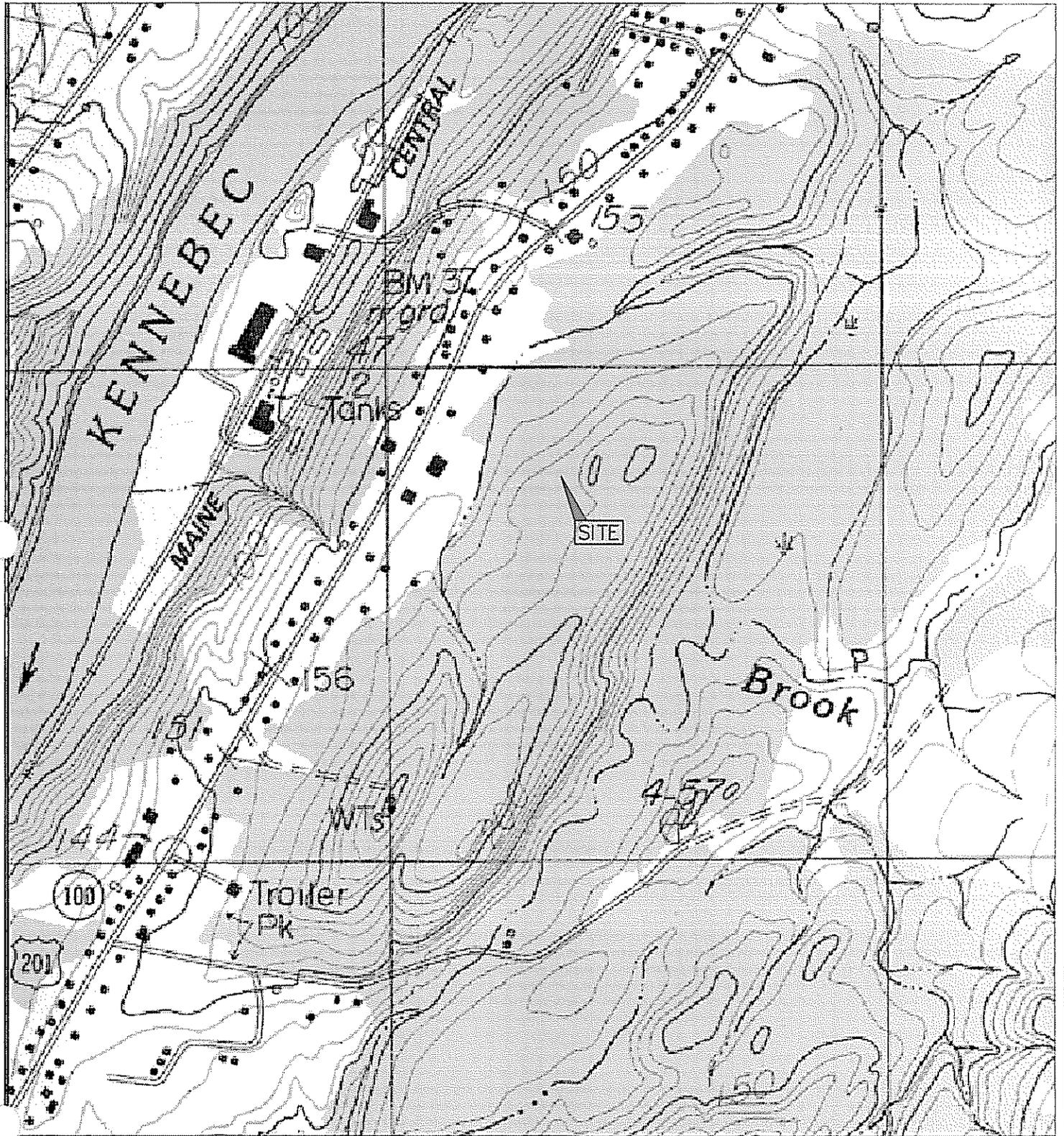
## ATTACHMENT FOR HHE-200 FORM

1. The OWNER/APPLICANT, by signing the front of this form, agrees to provide payment for services rendered as quoted and billed by COFFIN ENGINEERING & SURVEYING (CE&S). Payment on all billings are due within 30 days of billing date, otherwise a late charge of 1.5% per month (18% per year), simple interest, will be added to the total amount. In the event that any portion, or all of the final billing, remains unpaid for a period of 60 days, the OWNER/APPLICANT shall pay all costs of collection, including attorney's fees, court costs, CE&S's cost to collect bill. PLEASE NOTE THAT THE PERSON SIGNING THIS FORM UNDER THE OWNER/APPLICANT IS RESPONSIBLE FOR PAYMENT OF SERVICES AND SHOULD CONTACT CE&S IF HE/SHE HAS NOT RECEIVED A BILL.
2. All construction shall conform with Title 22 MRSA, §42, 10-144A CMR 241 "Maine-Subsurface Waste Water Disposal Rules," and all other pertinent sections. The OWNER/APPLICANT is responsible for the contractor installing the proposed septic system correctly and for obtaining all necessary permits. The OWNER/APPLICANT shall carefully examine all documents submitted by CE&S and promptly notify CE&S upon becoming aware of any defects. The OWNER/APPLICANT agrees to limit the liability of the site evaluator and/or CE&S to the amount of the total fee paid to CE&S and to a limit of five years from the date of this form. Visits to the site will be for information purposes only. CE&S will not be responsible for any site inspection duties.
3. This disposal system form shall not be transferable and becomes invalid if the authorized work has not commenced within two years after the issue date of the disposal system.
4. The OWNER/APPLICANT shall accurately describe the intended uses (present and future) for the system to the site evaluator. By signing the front of this form, the OWNER/APPLICANT agrees that the uses shown on said form is what was described to the site evaluator. Any change from the intended use described on this form requires a new design. Applicability of design must be reevaluated when location of structures are substantially different from those shown on the site plan or when other structures, additions, or appurtenances (i.e. swimming pools, garbage disposals) are considered.
5. The LPI shall inform the owner and designer of any local ordinance exceeding the Rules (Chapter 241) prior to issuing a permit, so that the application may be properly amended to conform to such ordinances.
6. The most recent revision of the Maine State Plumbing Code is hereby made a part of this HHE-200 Form and shall be consulted by the disposal system installer for further construction details, material specifications, cautions, and other related details pertinent to the installation of this disposal system.
7. This HHE-200 form is intended to represent facts pertinent to the Plumbing Code only. The owner/applicant must check local, state, and federal regulations before considering this an approvable site. All information shown on this form relating to property lines, structures, and subsurface structures (such as, but not limited to water lines, septic tanks, cess pools, cellar drains, utility lines, wells, leach fields, etc.) are noted, shown, or left off as not affecting the system based on information provided by the owner/applicant or his agent. The OWNER/APPLICANT acknowledges and understands that CE&S's submissions may represent imperfect data and may contain errors, omissions, conflicts, inconsistencies, code violations, and improper use of materials. Such deficiencies will be corrected when identified. The OWNER/APPLICANT agrees to carefully study and compare the submissions and report at once in writing to CE&S any deficiencies discovered. The OWNER/APPLICANT further agrees to require each contractor and/or subcontractor to likewise study the submissions and report at once any deficiencies discovered. It is the responsibility of owner/applicant or his agent to confirm, BEFORE CONSTRUCTION BEGINS, the above and/or any other features which may affect (or be adversely affected by) the installation of this system.
8. When a gravity system is proposed, BEFORE CONSTRUCTION BEGINS, the disposal system installer and building contractor shall review the relative elevation of all points given in the this HHE-200 Form and the elevation of the existing or proposed building drain and septic tank openings for compatibility to the minimum code pitch requirements. Any questions that arise should be directed to the local plumbing inspector or designer. When a pump system is installed, provisions shall be made to keep the tank and lift station outlets above the high water table.
9. The Septic System Owner's Manual written by the designer is made a part of this HHE-200 Form and shall be consulted by the owner/applicant and disposal system installer for other facts pertinent to the installation and operation of this disposal system.
10. The OWNER/APPLICANT bears the responsibility to show the location of property lines, subsurface structures (such as, but not limited to water lines, septic tanks, cess pools, cellar drains, utility lines), and wells to the Site Evaluator. Actual property lines must be confirmed by a boundary survey. By signing the front of this form, the OWNER/APPLICANT agrees that the property lines and wells on the accompanying plan(s) are shown correctly and any discrepancy found in the future is the responsibility of the OWNER/APPLICANT.
11. The actual water flow or number of bedrooms shall not exceed the design criteria indicated on this HHE-200 Form without a re-evaluation of the system.
12. CE&S is not responsible for the actions of others, who affect the ultimate cost of the PROJECT; by vandalism, marker removal, changes in scope of work, approval agencies, redesign of septic system, etc. (OWNER/APPLICANT to be notified of any cost increase).
13. The laws of Maine will apply concerning the interpretation and performance of this AGREEMENT. If an item in this AGREEMENT is found to be in violation of any prevailing laws, it will not void the entire AGREEMENT. This AGREEMENT is superior and over-rides any Standard Subcontract Agreement signed by the parties involved in this AGREEMENT for this PROJECT when referenced in said Standard Subcontract Agreement.
14. CE&S is responsible for the actions of its' employees only. Insurance is provided for: vehicles, general liability, errors and omissions, and workman's comp. All other entities on the site are responsible for their own safety, work product, actions, conduct, etc.
15. CE&S is not responsible for any actual, alleged, or threatened, pollutant damage in regard to the services performed. Pollutants are defined as any environmentally threatening contaminants commonly regulated in this state.
16. In the event that the OWNER/APPLICANT hires subcontractors, workers, orders material, etc., and governs, directly or indirectly, the overall operation on the work site; then the OWNER/APPLICANT is deemed to be acting as his own general contractor, having greater responsibility for the work site.
17. Other than the procedure of collections described above in (1), should the parties of this AGREEMENT have differences involving either the work site, or the PROJECT, that cannot be resolved between them; then the procedures of Alternate Dispute Resolution will be the only method of resolving those differences.



# SITE LOCATION MAP

SCALE 1" = 1000'



## HHE-200

ENGINEERING  
**E.S. COFFIN**  
 SURVEYING  
INC.

E.S. COFFIN ENGINEERING & SURVEYING, INC.  
 432 Casey Road, P.O. Box 4697, Augusta, Maine 04330  
 Ph. (207) 623-9475 Fax (207) 623-6015 Toll Free 1-800-244-9475

CLIENT PROJECT	SHEET TITLE
Kenway Corp. SEPTIC SYSTEM DESIGN	SITE LOCATION MAP
ADDRESS RIVERSIDE DRIVE	SCALE AS SHOWN
AUGUSTA KENNEBEC MAINE	DECEMBER 26, 2006



**SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION**

Department of Human Services  
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

**Augusta**

**Riverside Drive**

**Kenway Corp.**

**FILL REQUIREMENTS**

Depth of Fill (Upslope) 33-34"  
Depth of Fill (Downslope) 36-41"

**CONSTRUCTION ELEVATIONS**

Reference Elevation is 00"  
Bottom of Disposal Area n/a  
Top of Chambers n/a

**ELEV. REF. PT:**

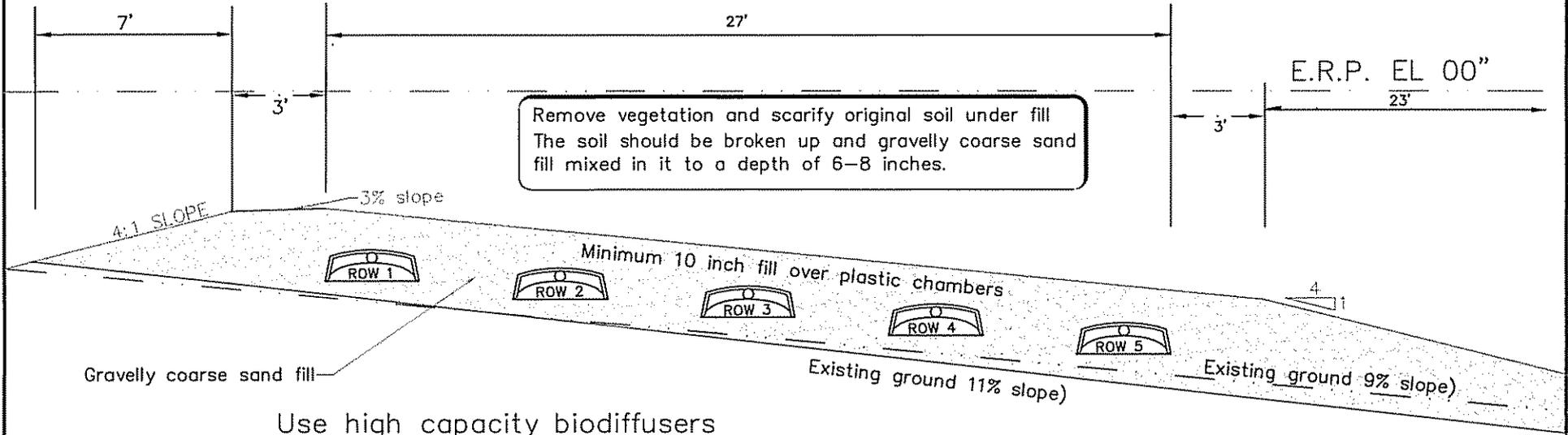
50d Spike in NET&T 7/CMP 135.7  
19" above ground

**SCALE:**

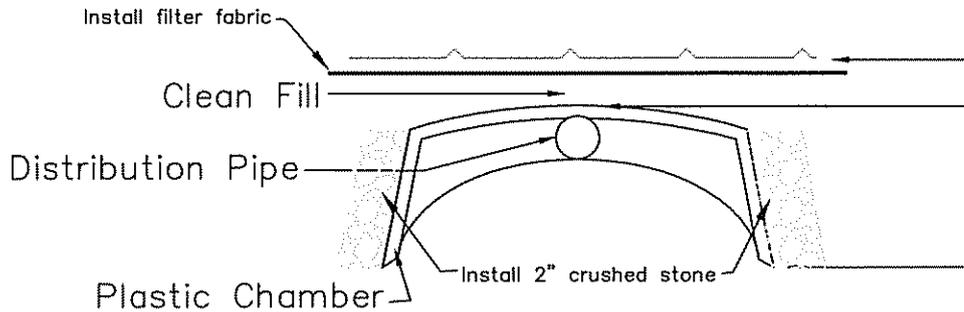
Vertical: 1 inch = 5 feet  
Horizontal: 1 inch = 5 feet

**DISPOSAL AREA CROSS SECTION**

Remove vegetation and scarify original soil under fill  
The soil should be broken up and gravelly coarse sand fill mixed in it to a depth of 6-8 inches.



Use high capacity biodiffusers  
**INSTALL 55 PLASTIC CHAMBERS**



ROW 1	ROW 2	ROW 3	ROW 4	ROW 5
-45"	-52"	-59"	-66"	-73"
-57"	-64"	-71"	-78"	-85"
-73"	-80"	-87"	-94"	-101"

**DETAIL (no scale)**

Site Evaluator's Signature

SE # 331

Date: 12/26/06

HHE-200



432 Cony Road  
P.O. Box 4687  
Augusta, ME 04330



(207) 623-9475  
Fax (207) 623-0016  
1-800-244-9475

September 24, 2008

## ADDENDUM TO THE HHE-200 FORM

For:  
Kenway Corp.  
681 Riverside Drive  
Augusta, Maine  
dated December 26, 2006

The subsurface wastewater disposal system is designed for 825 gallons per day for a leach field consisting of 5 rows of 11 Biodiffusers serving the bathroom area of the existing building. An existing 1000-gallon concrete septic tank next to the existing building, as well as a proposed 1000-gallon concrete septic tank was originally specified.

The existing 1000-gallon concrete septic tank located next to the building is damaged.

**A 1,500-gallon concrete septic tank will be adequate to replace the two-1000 gallon septic tanks.**

Respectfully submitted,

Kane P. Coffin, SE 331