

m 71/L28

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

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY LOCATION

>> Caution: Permit Required – Attach in Space Below <<

City, Town, or Plantation	Augusta
Street or Road	111 Albee Road
Subdivision, Lot #	

AUGUSTA PERMIT # 6475 TOWN COPY
 Date of Permit Issued: 8/2/10 \$ 120.00 If Double Fee Charged
 Signature: *Yvonne R. Firth* L.P.I. # 850
 Local Plumbing Inspector Signature FEE: 15.00

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	Rollins, Michael A. <input type="checkbox"/> Owner St. Onge, Robert <input checked="" type="checkbox"/> Applicant
Mailing Address of Owner/Applicant	2424 North Belfast Avenue Augusta, ME 04330
Daytime Tel. #	(207) 557-3631

Municipal Tax Map # _____ Lot # _____

Owner/Applicant Statement

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.

Kane P. Coffin 8-5-2010
 Signature of Owner/Applicant Date

Caution: Inspections Required

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.

Yvonne R. Firth (1st) Date Approved 8/5/10
 Local Plumbing Inspector Signature (2nd) Date Approved

PERMIT INFORMATION

TYPE OF APPLICATION 1. <input type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: _____ Year Installed: _____ 3. <input checked="" type="checkbox"/> Expanded System a. <input checked="" type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	THIS APPLICATION REQUIRES 1. <input 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 checked="" 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	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 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 checked="" type="checkbox"/> Pre-treatment, specify: outlet filter on tank 12. <input type="checkbox"/> Miscellaneous components
SIZE OF PROPERTY <input type="checkbox"/> sq. ft. 0.5 <input checked="" type="checkbox"/> acres	DISPOSAL SYSTEM TO SERVE: 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: 3 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: Church Specify Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	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:
SHORELAND ZONING <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK 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: 1000 (exist.) Gallons	DISPOSAL AREA TYPE/SIZE 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: _____ SIZE: 891 <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT 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 type="checkbox"/> Filter on tank outlet	DESIGN FLOW 270 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 3. <input type="checkbox"/> Section 503.0 (meter read.)
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN 3 / DI / 4 at Observation Hole # TP 1 Depth: 11" 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.	EFFLUENT/EJECTOR PUMP 1. <input type="checkbox"/> Not required 2. <input type="checkbox"/> May be required 3. <input checked="" type="checkbox"/> Required >> Specify only for engineered systems Dose _____ Gallons	LATITUDE AND LONGITUDE at center of disposal area Lat. N 44 d 20 m 3.32 s Lon. W 69 d 38 m 43.80 s If g.p.s., state margin of error:

SITE EVALUATOR COMMENTS

System-6 rows of 30' long Enviro-Septic Pipe, 2' pipe spacing (11' wide); Leach field designed for 3 bedroom dwelling which replaces 2 bedroom dwelling (fire).

SITE EVALUATOR STATEMENT

I Certify that on July 30, 2010 (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.

Kane P. Coffin
 Kane P. Coffin, an agent of E.S. Coffin Engineering & Surveying, Inc.
 E.S. Coffin Engineering & Surveying, Inc.
 432 Cony Road P.O. Box 4687
 Augusta, Maine 04330-1687

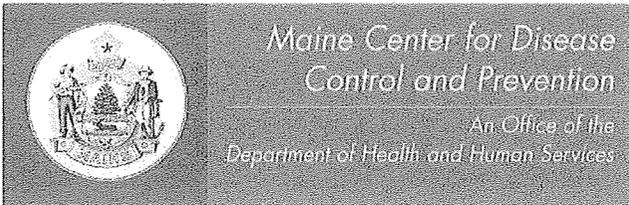
SE #331
 Licensed Site Evaluator
 (207) 623-9475 or 1-800-244-9475

July 30, 2010
 Date
 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 actual attorney's fees, court costs, CE&S's cost to collect bill. PLEASE NOTE THAT THE PERSON SIGNING THIS FORM UNDER 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 the 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 the 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.



John E. Baldacci, Governor

Brenda M. Harvey, Commissioner

Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street, 3rd Floor
11 State House Station
Augusta, Maine 04333-0011
Tel: (207) 287-5672; Toll Free: 1-800-835-8365
Fax: (207) 287-3165; TTY: 1-800-606-0215

August 18, 2010

Gary Fuller
16 Cony Street
City Center
Augusta, ME 04330

Subject: LPI and Owner's Signature for Variance

Dear Mr. Fuller:

I am writing in regards to the permit #6475 that was sent to us to be processed. I cannot process this application until the Local Plumbing Inspector and Owner signs the Variance Form. It is stated on this application that it is Local Plumbing Inspector Approval for this application and does need the Local Plumbing Inspector's signature along with the Owner's signature.

If you have any question on this matter, feel free to contact me at 287-5672.

Sincerely,

A handwritten signature in cursive script that reads 'Wendy Austin'.

Wendy Austin, Office Associate II
Subsurface Wastewater Unit
Department of Health & Human Services

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for any replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of the following requirements are met.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 1906.0)
2. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
3. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION	Town of <u>Augusta</u>
Permit No. <u>10475</u>	Date Permit Issued _____
Property Owner's Name: <u>Michael Collins</u>	Tel. No.: _____
System's Location: <u>111 Albee Road</u>	
Property Owner's Address: _____	
(if different from above) _____	

SPECIFIC INSTRUCTIONS TO THE: LOCAL PLUMBING INSPECTOR (LPI):

If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

SITE EVALUATOR:

If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.

PROPERTY OWNER:

If has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. The Site Evaluator has considered the site/soil restrictions and has concluded that a replacement system in total compliance with the Rules is not possible.

PROPERTY OWNER

I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

mt
SIGNATURE OF OWNER

8/7/10
DATE

LOCAL PLUMBING INSPECTOR

I, Wayne R. Gault, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request, the Application, and my on-site investigation, I (approve, disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in **Comments** Section below and return to the applicant.

Comments:

Wayne R. Gault
LPI SIGNATURE

8/25/10
DATE

Replacement System Variance Request

VARIANCE CATEGORY							VARIANCE REQUESTED TO:	
SOILS								
Soil Profile	Ground Water Table						11 inches	
Soil Condition	Restrictive Layer						inches	
from HHE-200	Bedrock						inches	
SETBACK DISTANCES (in feet)								
From	Disposal Fields			Septic Tanks			Disposal Fields	Septic Tanks
	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft [a]	300 ft [a]	150 ft [a]	150 ft [a]	150 ft [a]		
Private Potable Water Supply	100 ft (a)	200 ft	300 ft	50 ft	100 ft	100 ft	71'	53'
Water supply line	10 ft [a]	20 ft	25 ft [g]	10 ft	10 ft	10 ft [g]		
Water course, major	100 ft (c)	200 ft (c)	300 ft (c)	100 ft	100 ft	100ft		
Water course, minor	50 ft (d)	100 ft (d)	150 ft (d)	50 ft (d)	50 ft (d)	50 ft (d)		
Drainage ditches	25 ft	50 ft	75 ft	25 ft	25 ft	25 ft		
Edge of fill extension – Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]		
Slopes greater than 3:1	10 ft	18 ft	25 ft	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 ft	30 ft	40 ft	8 ft	14 ft	20 ft		
Full basement [below grade foundation]	20 ft	30 ft	40 ft	8 ft	14 ft	20 ft		5'
Property lines	10 ft [b]	18 ft [b]]	20 ft [b]	10 ft [b]	15 ft [b]	20 ft [b]	10'	
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		

OTHER

1. Fill extension Grade - to 3:1
2. _____
3. _____

Footnotes: (a.) Private Potable water supply setbacks may be reduced as prescribed in Chapter 7.
 (b.) Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.
 (c.) Additional setbacks may be required by local Shoreland Zoning.
 (d.) Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.
 (e.) May not be closer to a private potable water supply than the existing disposal field or septic tank. This setback may be reduced for single family homes with Department Approval. See Section 702.3.
 (f.) The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.
 (g.) See Section 1402.8 for special procedures when these minimum setbacks cannot be achieved.

Karen P Coffey

 SITE EVALUATOR'S SIGNATURE

July 30, 2010

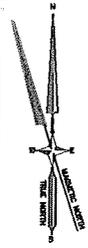
 DATE

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and does, does not, give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

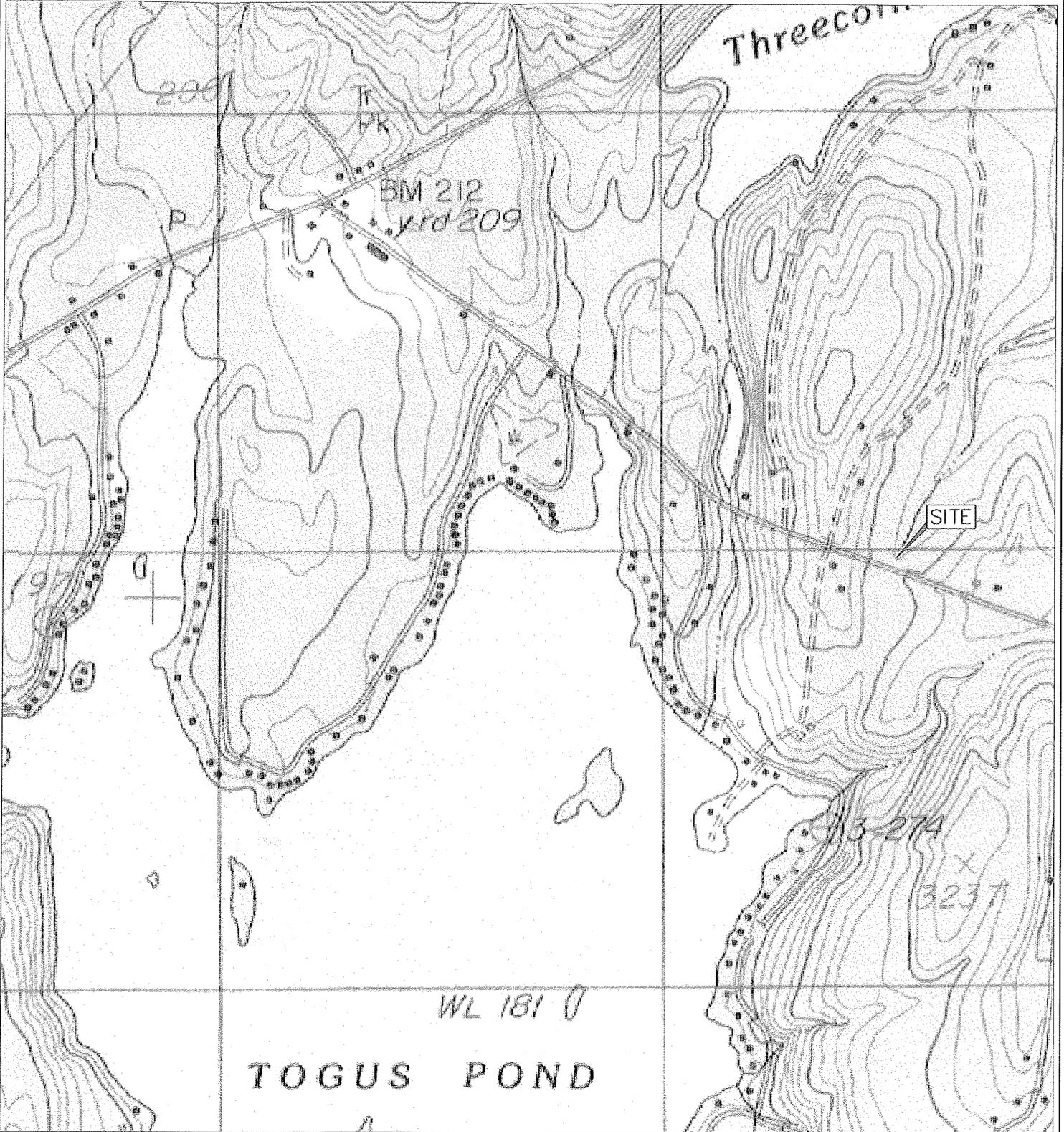
 SIGNATURE OF THE DEPARTMENT

 DATE



SITE LOCATION MAP

SCALE 1" = 1000'



HHE-200

ENGINEERING
ES. COFFIN
 SURVEYING
 Q.S.M.
 E.S. COFFIN ENGINEERING & SURVEYING, INC.
 452 Wagon Road P.O. Box 4087 Augusta, Maine 04330
 Ph. (207) 625-9475 Fax (207) 625-0339 E-MAIL (207) 625-9475

CLIENT/PROJECT
Michael Rollins
SEPTIC SYSTEM DESIGN

LOCATION: 111 Albee Road

TOWN: AUGUSTA COUNTY: KENNEBEC STATE: MAINE

SHEET TITLE
SITE LOCATION MAP

SCALE: AS SHOWN

DATE: JULY 30, 2010

Town, City, Plantation
 Augusta

Street, Road, Subdivision
 111 Albee Road

Owner's Name
 Michael Rollins

SITE PLAN

Scale: 1" = __ feet

TEXTURE TERMS

Sand
 Loamy sand
 Sandy loam
 Loam
 Silty loam
 Silty clay loam
 Silty clay
 Bedrock

TEXTURE

ABUNDANCE
 Very-35-60%
 Extremely-61-90%

MODIFIER TERMS

VF-very fine
 F-fine
 M-medium
 C-course
ROCK
 Gravelly-0.1-3"
 Cobblely-3-10"
 Stony-+10"

MOTTLING

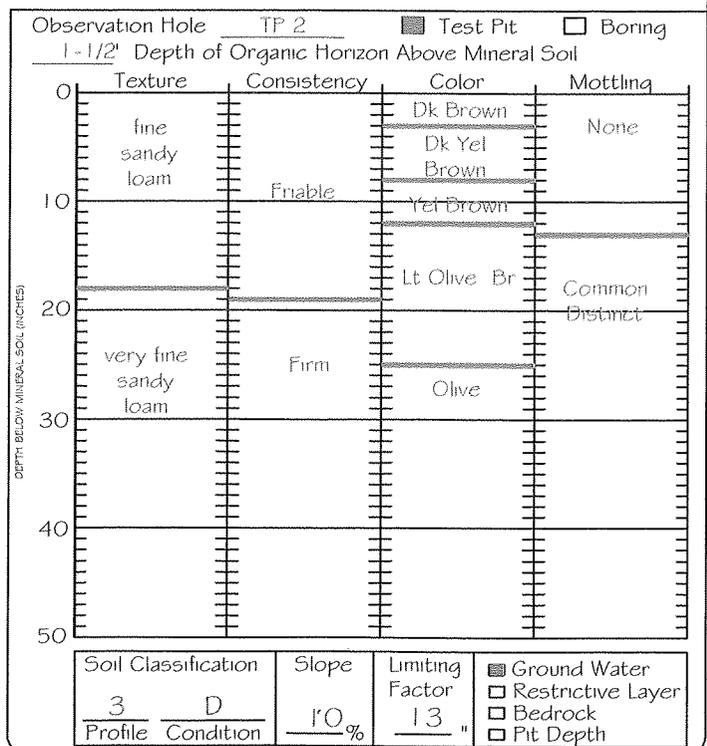
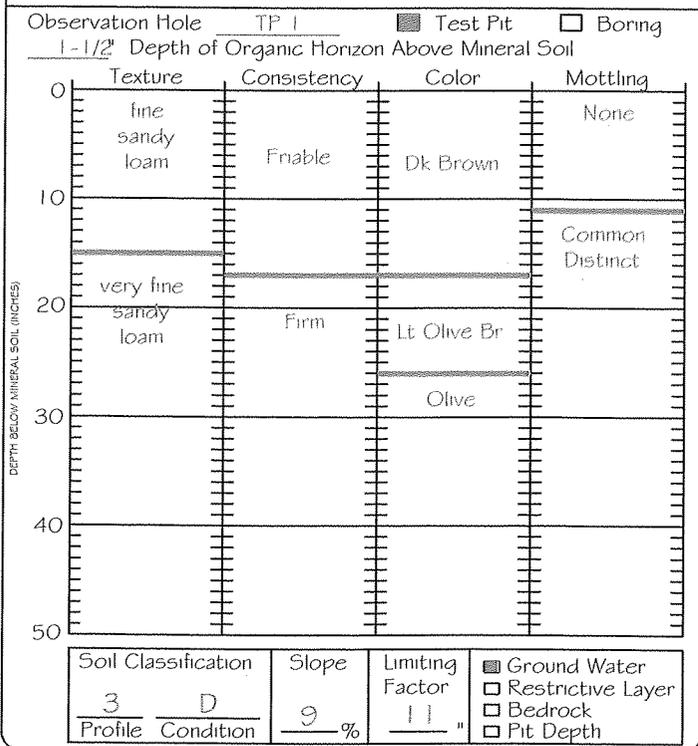
CONTRAST
 Faint
 Distinct
 Prominent

ABUNDANCE
 None
 Few-<2%
 Common-2-20%
 Many->20%

CONSISTENCE

TERMS
 Loose
 Friable
 Firm
 Very Firm
 Cemented

SOIL DESCRIPTION AND CLASSIFICATION



Site Evaluator's Signature *Kane P. Coffey*

SE # 331

Date: 07/30/10

HHE-200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation
Augusta

Street, Road, Subdivision
111 Albee Road

Owner's Name
Michael Rollins

FILL REQUIREMENTS

Depth of Fill (Upslope) 31-43"
Depth of Fill (Downslope) 43-57"

CONSTRUCTION ELEVATIONS

Reference Elevation is 00"
Bottom of Disposal Area -41"
Top of Pipe -23"

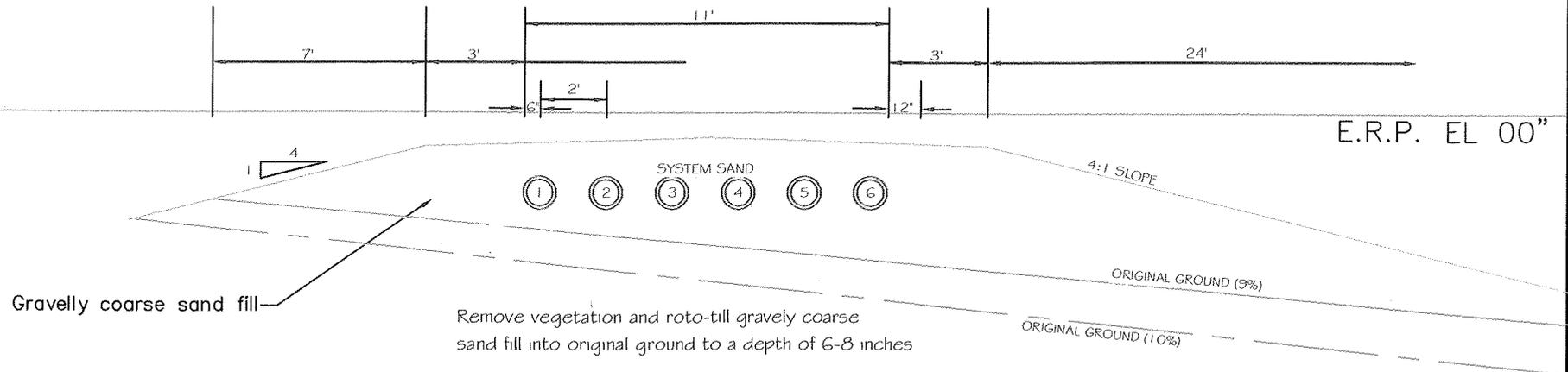
ELEV. REF. PT:

50d spike in 17" Maple Tree
48" above ground

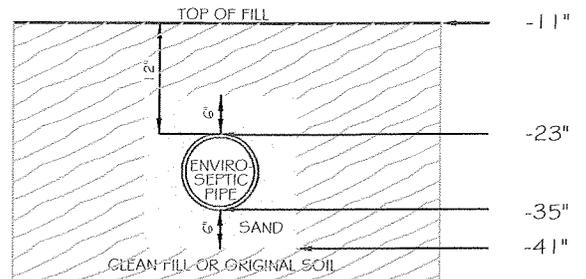
SCALE:

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

DISPOSAL AREA CROSS SECTION



INSTALL 6" OF MEDIUM TO COARSE SAND WITH AN EFFECTIVE PARTICLE SIZE OF 0.25 TO 2.0 MM, WITH NO GREATER THAN 5% PASSING A #200 SIEVE AND NO PARTICLES LARGER THAN 3/4" AROUND THE PIPE.



DETAIL (no scale)

INSTALL 6 LINES OF ENVIRO-SEPTIC PIPE (30' LONG), 2' APART CENTER-TO-CENTER.

CONSULT THE DESIGN & INSTALLATION MANUAL FOR THE ENVIRO-SEPTIC LEACHING SYSTEM
PRESBY ENVIRONMENTAL, INC. 1-800-473-5298

Site Evaluator's Signature *Kane P. Coffin*

SE # 331

Date: 7/30/10

HHE-200

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

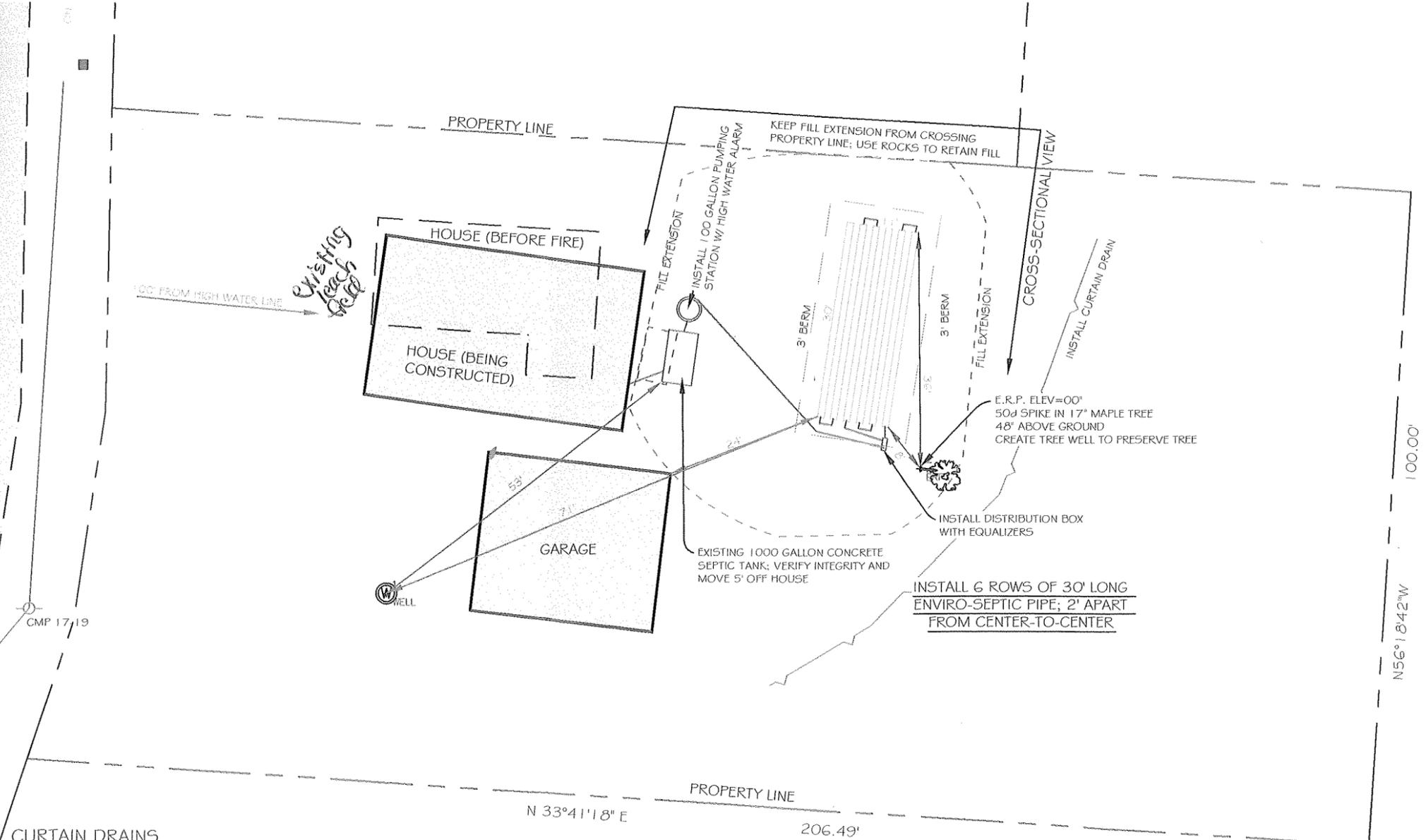
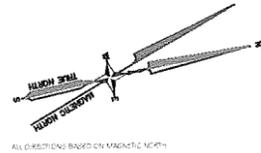
Town, City, Plantation
Augusta

Street, Road, Subdivision
111 Albee Road

Owner's Name
Michael Rollins

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20'



- DISPOSAL FIELD CONSTRUCTION TECHNIQUES**
1. Vegetation shall be cut and removed from the area where backfill material is to be placed.
 2. The area under the disposal field and backfill extensions shall be roto-tilled with gravely coarse sand fill to a depth of 6-8 inches to form a Transitional Horizon.
 3. Fill large holes that are left as a result of stump or stone removal with gravely coarse sand fill.
 4. Surface water (from roofs or upland) must be diverted away from the disposal field.
 5. Septic tank(s), grease trap, pumping station, and lines may be relocated to accommodated site conditions as long as setbacks and intent of design are met.
 6. All construction shall conform with Title 22 MRSA, Section 42, 10-144A-CMR 241 "Maine Subsurface Waste Water Disposal Rules" and other pertinent sections.
 7. The owner/contractor shall carefully observe the vertical distance between the E.R.P. and the bottom of the leach field and notify the Site Evaluator promptly if separation distance appears to be at odds with the original ground.
 8. The owner/applicant is responsible for the contractor installing the proposed septic system correctly and for obtaining all necessary permits.
 9. Access openings for septic tanks serving single-family dwelling units may be buried, although water tight risers to within 6" of finish grade are required. The riser opening must be at least 18" in diameter over the tank cover. Outlet baffles that utilize an effluent filter must have a riser of at least 18" in diameter extended to finish grade.

CURTAIN DRAINS

Curtain drains are ditches installed upslope of the disposal field, approximately perpendicular to the flow of ground water, intercepting and diverting ground water away from the disposal field. The drains are trenches in which permeable gravel fill or stone and 4 inch diameter perforated drainage pipe are placed. The curtain drains should be deep enough to provide protection against frost and extend into the impermeable layer.

A minimum 10 foot setback should be maintained between a curtain drain and the up-slope edge of the 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 underdrain of the leach field. A minimum 15 foot setback should be maintained between the curtain drain and the ends of the disposal field.

To maximize interception of the ground water by the pipe, a coarse porous material such as gravel or crushed stone, must be place around the drainage pipe. The porous material should also extend above the seasonal high water table. The top of the gravel should be covered with filter fabric in order to prevent fines from entering the pipe.

Free-flowing outlets shall be provided down-slope of the curtain drain extensions and be protected from the entry of rodents or other small animals. Outlets may empty into a drainage swale discharging into a surface water body, a ground water recharge basin or a gravel bed. It shall be installed in a manner that does not cause soil erosion, surface flooding, or damage to adjacent properties, does not create a public nuisance, and does not violate any, applicable laws or regulations. Fill material over the discharge pipe shall be of a texture that is similar or coarser than that found at the site and free of large stones, stumps, broken masonry, or other waste construction material.

PROJECT: MIKE ROLLINS LOCATION: 111 ALBEE ROAD TOWN: AUGUSTA COUNTY: KENNEBEC STATE: MAINE	SHEET TITLE: PLAN VIEW	ELEVATION REFERENCE POINT DESCRIPTION: 50d spike in 17" Maple Tree (48" above ground) ELEVATION: 00'
	SCALE: 1" = 20' DATE: JULY 30, 2010	PROJ. NO. 2010-166



Site Evaluator's Signature *Kane P. Coffin*

SE # **331**

Date: **07/30/10**

HHE-200