

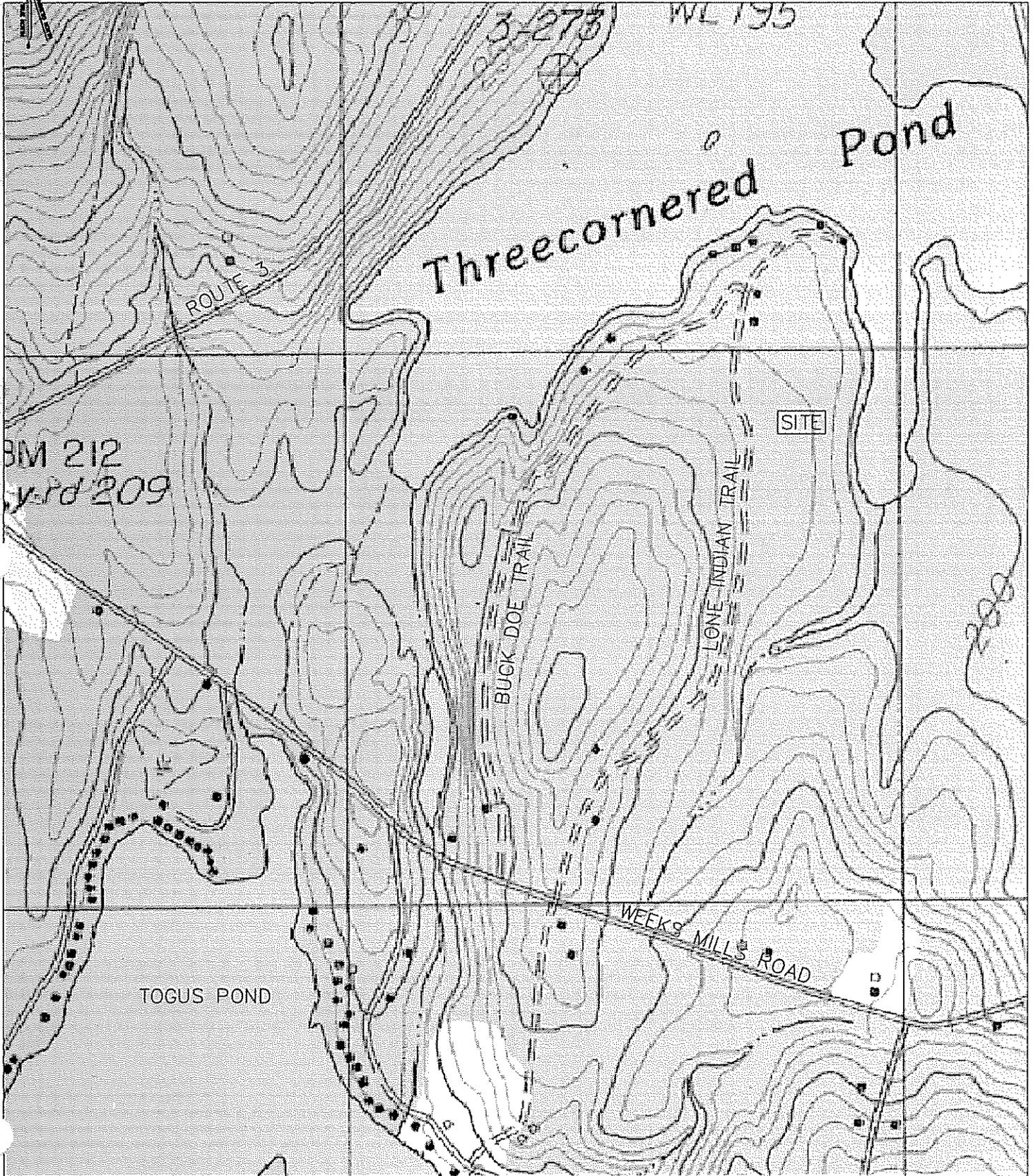


## **ATTACHMENT FOR HHE-200 FORM**

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 UNDERSTANDS THAT 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 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.

# SITE LOCATION MAP

SCALE 1" = 1000'



**HHE-200**



170 Grand Street  
Augusta, ME  
04302-3587  
1-800-244-1494

170 Grand Street  
Augusta, Me  
04302  
1-800-244-1494

CLIENT/PROJECT:

**Tom & Terry Sullivan**  
**SEPTIC SYSTEM DESIGN**

DRAWN BY:

**SITE LOCATION MAP**

LOCATION: LONE INDIAN TRAIL.

SCALE: AS SHOWN

TOWN: AUGUSTA

COUNTY: KENNEBEC

STATE: MAINE

DATE: JANUARY 23, 2001

Town, City, Plantation  
 Augusta

Street, Road, Subdivision  
 Lone Indian Trail

Owner's Name  
 Tom & Terry Sullivan

SITE PLAN

Scale: 1" = \_\_ feet

TEXTURE TERMS

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

TEXTURE

ABUNDANCE  
 Very-38-80%  
 Extremely-81-90%

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

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

Texture	Consistency	Color	Mottling
Fine Sandy Loam	Friable	Brown	None
		Dark Yellow-Brown Yellow-Brown	
		Light Olive Brown	Common Distinct
Very Fine Sand Loam	Firm	Olive	

Soil Classification 3 C Slope 1 % Limiting Factor 16 "  Ground Water  
 Restrictive Layer  Bedrock  Pit Depth  
 Profile Condition

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

Texture	Consistency	Color	Mottling

Soil Classification            Slope            % Limiting Factor            "  Ground Water  
 Restrictive Layer  Bedrock  Pit Depth  
 Profile Condition

Site Evaluator's Signature Kane P. Coffey

SE # 331

Date: 01/23/04

HHE-200

**SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION**

Department of Human Services  
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Augusta

Lone Indian Trail

Owner's Name  
**Tom & Terry Sullivan**

**FILL REQUIREMENTS**  
Depth of Fill (Upslope) 18-25"  
Depth of Fill (Downslope) 21-28"

**CONSTRUCTION ELEVATIONS**

Reference Elevation is 00"  
Bottom of Disposal Area -44"  
Top of distribution lines -33"

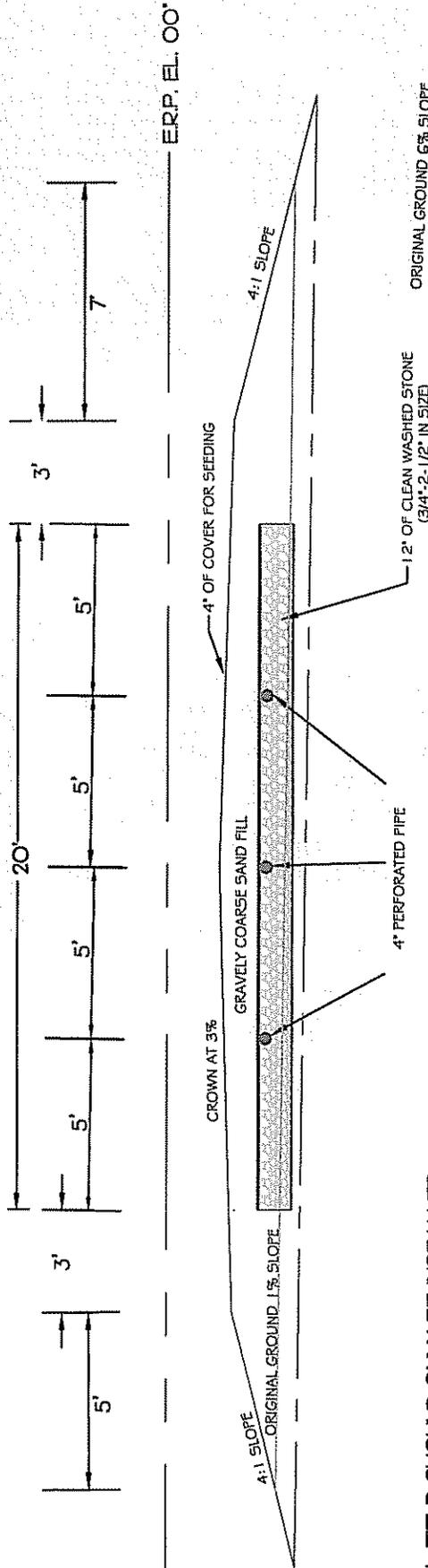
**ELEV. REF. PT:**

50d Spike in 7" Oak Tree  
38" above ground

**SCALE:**

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

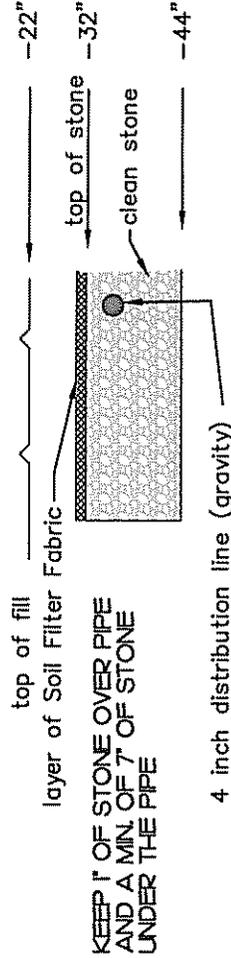
**DISPOSAL AREA CROSS SECTION**



DISPOSAL FIELD SHOULD ONLY BE INSTALLED  
ACCORDING TO THE MAINE SUBSURFACE  
WASTE WATER DISPOSAL RULES.

**INSTALL 20' BY 42' STONE BED**

E.R.P.  
elev.



**STONE BED DETAIL (no scale)**

**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-FILLED 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 MUST BE DIVERTED AWAY FROM THE DISPOSAL FIELD.

Site Evaluator's Signature

*Howard Coffey*

SE # 331

Date: 01/23/04

HHF-200

**SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION**

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

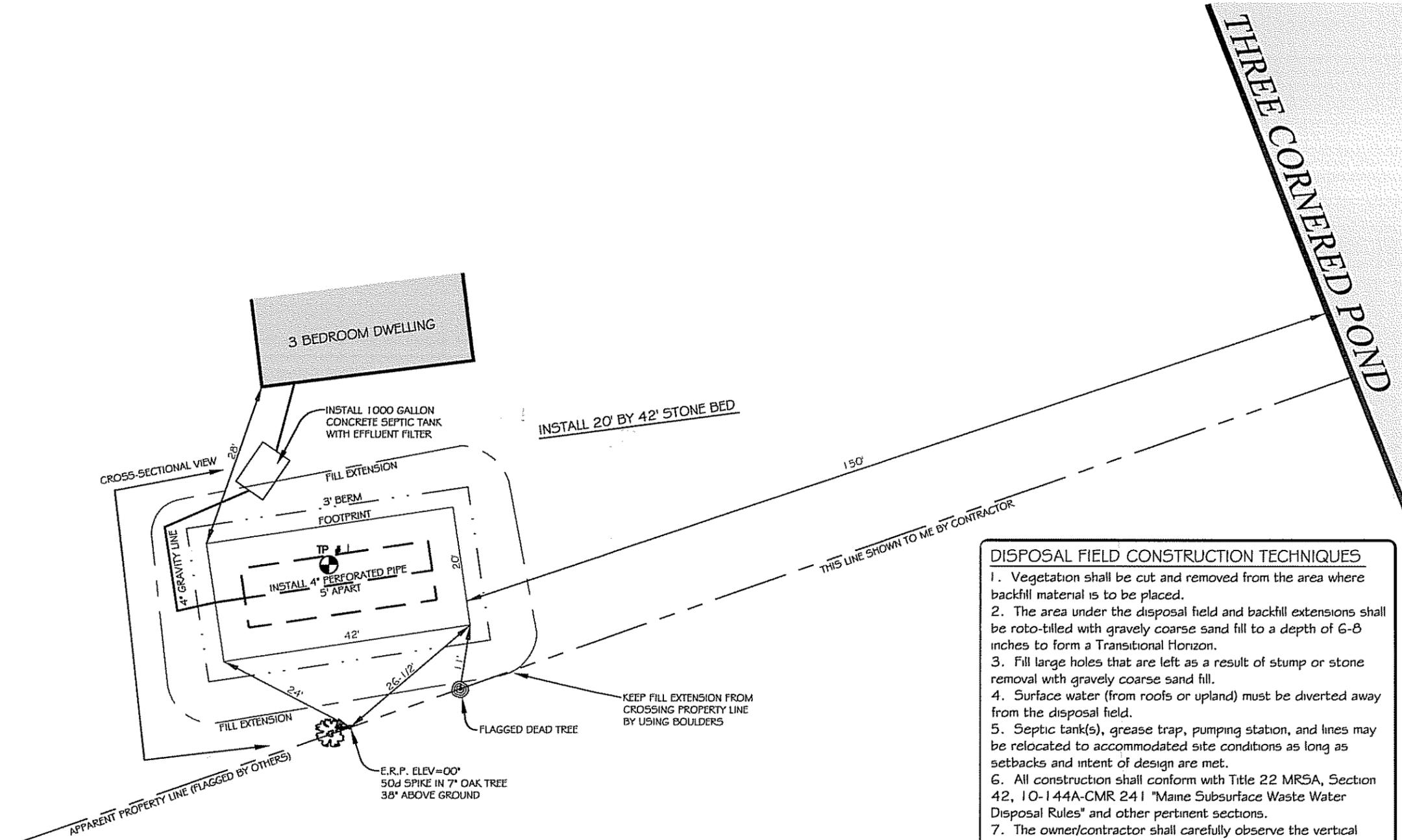
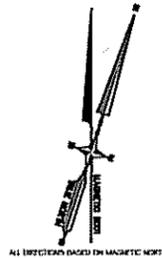
Town, City, Plantation  
**Augusta**

Street, Road, Subdivision  
**Lone Indian Trail**

Owner's Name  
**Tom & Terry Sullivan**

**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 accommodate 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.

PROJECT	SHEET TITLE		ELEVATION REFERENCE POINT
	PLAN VIEW		
PROJECT		SCALE: 1" = 20'	ELEVATION: 00'
PROJECT		DATE: JANUARY 23, 2004	
PROJECT	TOM & TERRY SULLIVAN	SCALE: 1" = 20'	
LOCATION	LONE INDIAN TRAIL	DATE	
TOWN	AUGUSTA	COUNTY	KENNEBEC STATE: MAINE
420 CENTRAL RD PO BOX 487 LONE INDIAN TRAIL AUGUSTA, ME 04401 TEL: 800-244-9475	170 GRANT ROAD FREEPORT, ME 04035 TEL: 207-854-1851		
PROJ. NO. 2003-555		© 2003	

Site Evaluator's Signature *Kane P. Coffin*

SE # 331

Date: 01/23/04

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