ELF HILL RUAN 27



	Commonwealth of Massachusetts Title 5 Official Inspe		
	Subsurface Sewage Disposal System Form		nents
A STATE	27 ECF HILL ROAT		
Owner	Property Address <u>JILCI TEI BARCALC</u> Owner's Name		.1.01
information is required for every page.	CityTown	MASS 01002 State Zip Code	
	Inspection results must be submitted on thi way. Please see completeness checklist at t		nay not be altered in any
Important: When filling out forms	A. General Information		PE 30148
on the computer,			ST 1055
use only the tab key to move your cursor - do not	1. Inspector: WILCIAM J SIEN		SE 2241
use the return key.	Name of Inspector SIERUTA ENGIN		



elephone Nun	nber	

18 DEPOT ROAD Company Address

MASS State OI OS Zip Code License Numbe

B. Certification

Company Name

I certify that I have personally inspected the sewage disposal system at this address and that the information reported below is true, accurate and complete as of the time of the inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on site sewage disposal systems. I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000). The system:

Passes	Conditionally Passes	E Fails
Needs Further Evaluation by	the Local Approving Authority	sentence and a senten
Inspector's Signature	E 6/3	2012
The system inspector shall submi of Health or DEP) within 30 days	t a copy of this inspection report to of completing this inspection. If the	stem is a marco system or
report to the appropriate regional	or greater, the inspector and the sys office of the DEP. The original shou plicable, and the approving authori	Id be sent to the system owner

****This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same or different conditions of use.

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Commonwealth of Massachusetts Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every

page.

ROAL Property Address 29/2012 Date of Ins

B. Certification (cont.)

Inspection Summary: Check A,B,C,D or E / always complete all of Section D

A) System Passes:

City/Town

Thave not found any information which indicates that any of the failure criteria described in 310 CMR 15.303 or in 310 CMR 15.304 exist. Any failure criteria not evaluated are indicated below.

Comments:

SYSTEM IS WORKING Well NO problems Noted.

B) System Conditionally Passes:

One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

Check the box for "yes", "no" or "not determined" (Y, N, ND) for the following statements. If "not determined," please explain.

The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health.

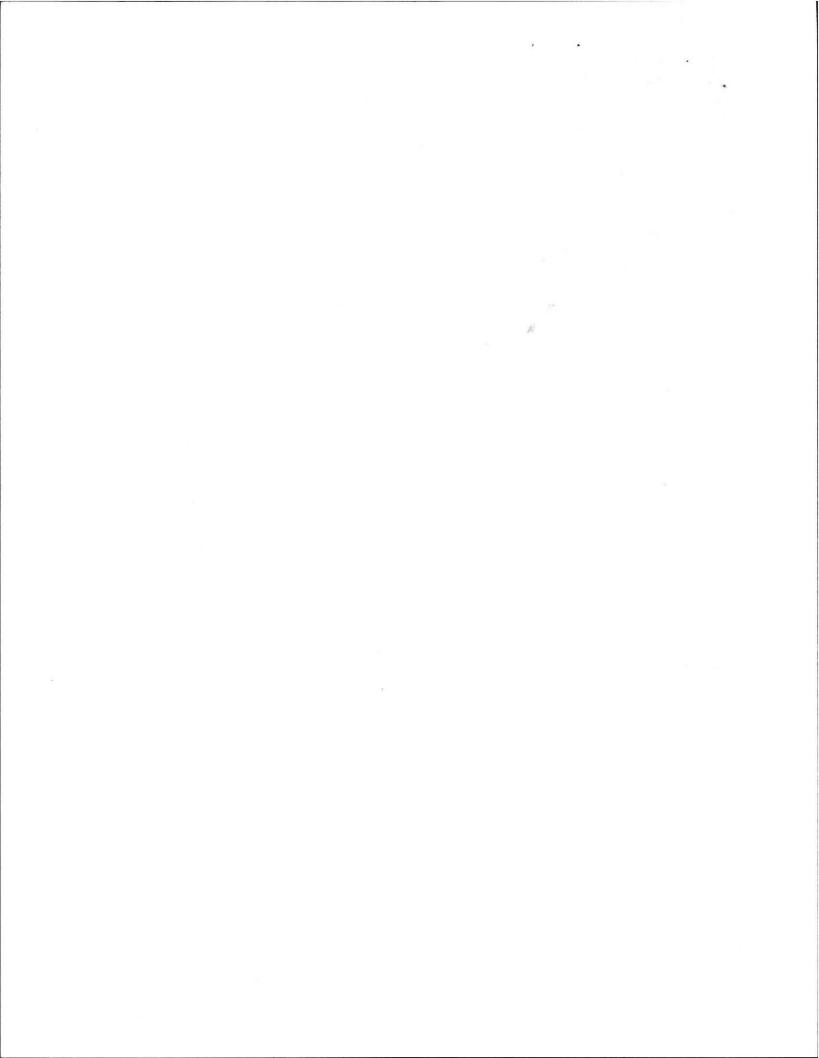
* A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.

ΠY ND (Explain below):

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 2 of 17

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	Tit	monwealth of Massachusetts Ie 5 Official Inspection Form urface Sewage Disposal System Form - Not for Voluntary Assessments							
A CONTRACTOR	Property	Z7 Address	ELF HILL BARCHLOW	RDA	D				-
	Froperty	Address	BARCHOW						
Owner information is	Owner's		HERST	MAS	51 1	0100	2	6/29/2010	Ż
required for every page.	City/Tow	vn		State	Zip C	ode	Da	ate of Inspection	_
	B. C	ertific	ation (cont.)						
	B)	Syster	n Conditionally Passes (con	nt.):					
		to brok	vation of sewage backup or br en or obstructed pipe(s) or du ispection if (with approval of E	le to a broke	en, settle				I
			broken pipe(s) are replaced		ΠY	🗆 N		ND (Explain below):	
			obstruction is removed		□ Y	🗆 N		ND (Explain below):	
			distribution box is leveled or	replaced	ΠY	🗌 N		ND (Explain below):	
			stem required pumping more will pass inspection if (with a broken pipe(s) are replaced obstruction is removed	pproval of th			lth):	n or obstructed pipe(s). The ND (Explain below): ND (Explain below):	
	c)	Condit the sys 1. Sys 15.303	er Evaluation is Required by ions exist which require furthe stem is failing to protect public stem will pass unless Board (1)(b) that the system is not and the environment: Cesspool or privy is within 5	er evaluation health, safe of Health c t functionin	by the l ety or the letermin g in a n	Board of e environ nes in a nanner v	nmen ccord	it. dance with 310 CMR],
			Cesspool or privy is within 5	0 feet of a b	ordering	y vegeta	ted w	etland or a salt marsh	
t5ins • 11/10				Title	e 5 Official Ins	spection Form	: Subsur	face Sewage Disposal System • Page 3 of 17	





Commonwealth of Massachusetts Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every

page.

ROAL Property Address **Owner's Name** 01 City/Town Date of Inspection Zin Code State

B. Certification (cont.)

2. System will fail unless the Board of Health (and Public Water Supplier, if any) determines that the system is functioning in a manner that protects the public health, safety and environment:

The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.

The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.

The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.

The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well**. Method used to determine distance:

** This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.

3. Other:

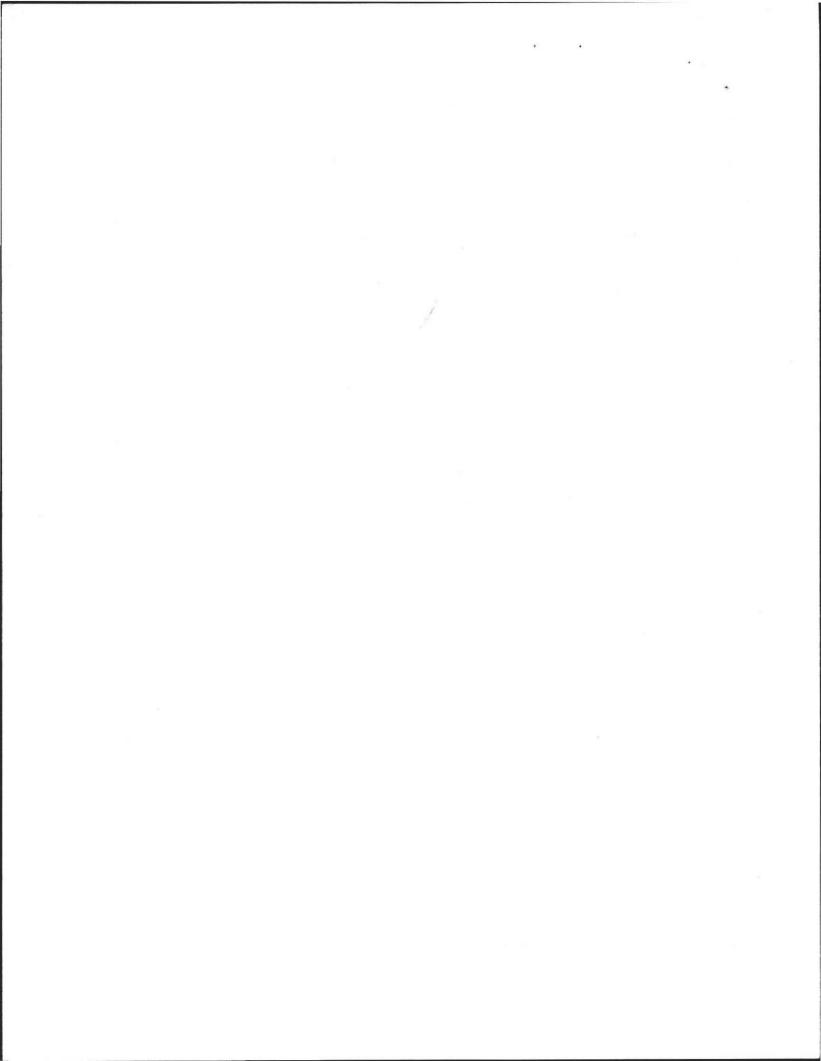
D) System Failure Criteria Applicable to All Systems:

You must indicate "Yes" or "No" to each of the following for all inspections:

		Liquid depth in cesspool is less than 6" below invert or available volume is less than ½ day flow
		Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool
		Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool
		Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool
Yes	No	

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Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 4 of 17



A	Commonwealth of l					
	Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments T. BARCHOW					
A GET	Property Address	FHILL ROAD				
Owner information is required for every page.	Owner's Name	ELST MA 01002 6/29/2012 State Zip Code Date of Inspection				
	B. Certification (cont.)				
	Yes No					
		Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped:				
		Any portion of the SAS, cesspool or privy is below high ground water elevation.				
	DO MAD	Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.				
	DADA	Any portion of a cesspool or privy is within a Zone 1 of a public well.				
	DUNA	Any portion of a cesspool or privy is within 50 feet of a private water supply well.				
	GO MAA	Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis and chain of custody must be attached to this form.]				
		The system is a cesspool serving a facility with a design flow of 2000gpd- 10,000gpd.				
		The system <u>fails</u> . I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.				

E) Large Systems: To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

For large systems, you must indicate either "yes" or "no" to each of the following, in addition to the questions in Section D.

Yes	No	DNA
		the system is within 400 feet of a surface drinking water supply
		the system is within 200 feet of a tributary to a surface drinking water supply
		the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area – IWPA) or a mapped Zone II of a public water supply well

If you have answered "yes" to any question in Section E the system is considered a significant threat, or answered "yes" in Section D above the large system has failed. The owner or operator of any large system considered a significant threat under Section E or failed under Section D shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 5 of 17

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Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

27 ELF HILL ROAD Address J. BARCACOW Property Address Owner's Name MA 29/2012 MHKAST City/Town Date of Insn

C. Checklist

Check if the following have been done. You must indicate "yes" or "no" as to each of the following:

Yes	No	
		Pumping information was provided by the owner, occupant, or Board of Health
	2	Were any of the system components pumped out in the previous two weeks?
U		Has the system received normal flows in the previous two week period?
	I	Have large volumes of water been introduced to the system recently or as part of this inspection?
9		Were as built plans of the system obtained and examined? (If they were not available note as N/A)
Ø		Was the facility or dwelling inspected for signs of sewage back up?
		Was the site inspected for signs of break out?
		Were all system components, excluding the SAS, located on site?
		Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum?
Q		Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The size and location of the Soil Absorption System (SAS) on the site has been determined based on:
9		Existing information. For example, a plan at the Board of Health.
4		Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(5)]

D. System Information

Residential Flow Conditions:

Number of bedrooms (design):

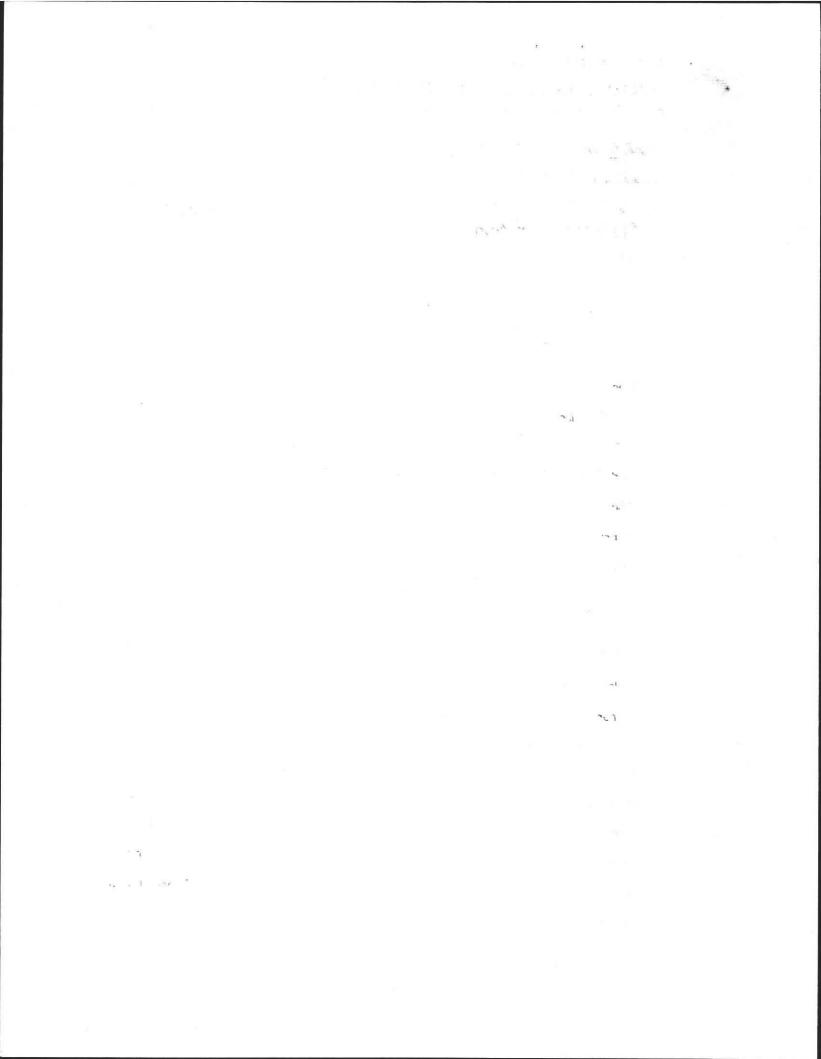
Number of bedrooms (actual):

4<u>40</u> 440 miclony

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): QUSIGN 4440

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 6 of 17

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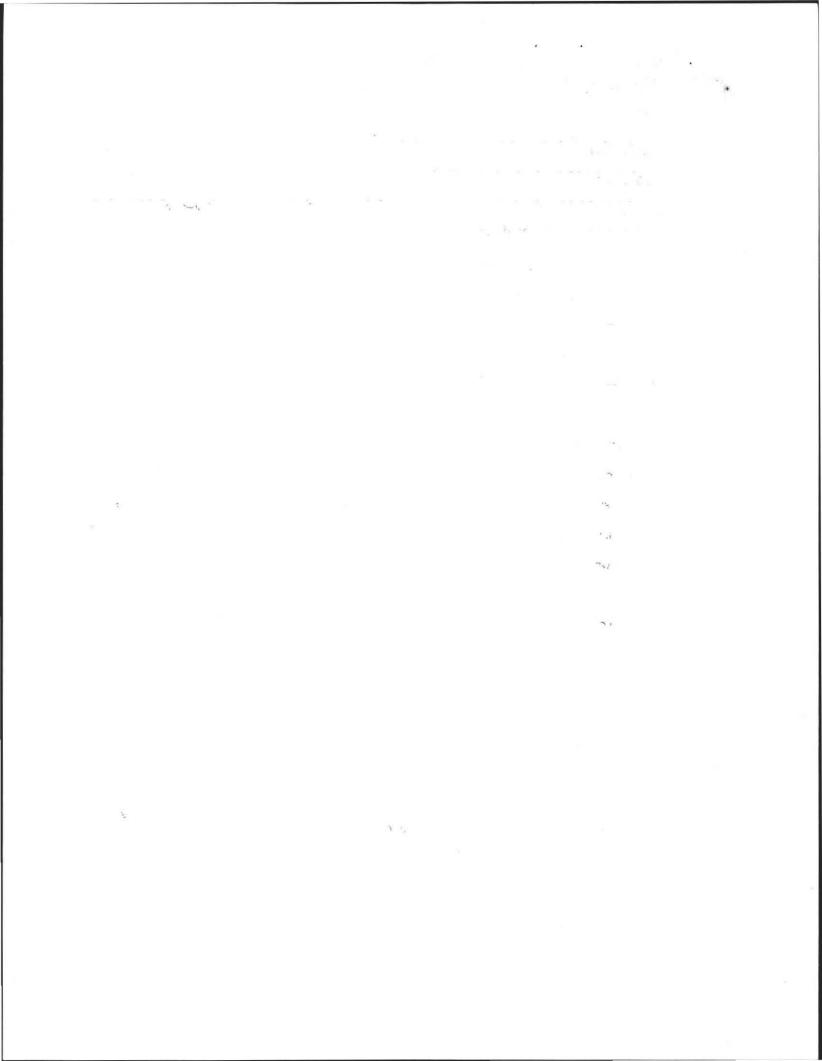
Owner information is required for every page.	Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments 27 ELF HILL RDAD Property Address J. BARCALOW Owner's Name <u>AMHIERST</u> MA OLOOZ b State Zip Code Date of Inspection	129/2012 ection
	D. System Information	
	Description:	
		്
	Number of current residents:	
	Does residence have a garbage grinder?	Yes Yo
	Is laundry on a separate sewage system? [if yes separate inspection required]	Yes No
	Laundry system inspected?	Yes 🗌 No
	Seasonal use?	Yes Yes No
	Water meter readings, if available (last 2 years usage (gpd)): Detail:	
	Sump pump?	Yes P No
	Last date of occupancy:	Date
	Commercial/Industrial Flow Conditions:	
	Type of Establishment:	
	Design flow (based on 310 CMR 15.203): Gallons per day (gpd)	
	Basis of design flow (seats/persons/sq.ft., etc.):	
	Grease trap present?	🗌 Yes 🗌 No
	Industrial waste holding tank present?	🗌 Yes 🛄 No

Non-sanitary waste discharged to the Title 5 system?

Water meter readings, if available:

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 7 of 17

Yes No



Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments 27 ELF HILL ROAD Property Address Owner Owner's Name MA State information is 201 OIA HERS required for every City/Town **Zin Code** Date of Ind page. D. System Information (cont.) DNH Last date of occupancy/use: Other (describe below): **General Information Pumping Records:** OWNER INFORMATION Source of information: Yes 🗌 No Was system pumped as part of the inspection? If yes, volume pumped: gallons MEASURED INSPECTION - SYSTEM IS DUE FOR PUMPING How was quantity pumped determined? Reason for pumping: Type of System: Septic tank, distribution box, soil absorption system \square Single cesspool Overflow cesspool \square Privy Shared system (yes or no) (if yes, attach previous inspection records, if any) \Box Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner) and a copy of latest inspection of the I/A system by system operator under contract Tight tank. Attach a copy of the DEP approval. Other (describe):

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 8 of 17

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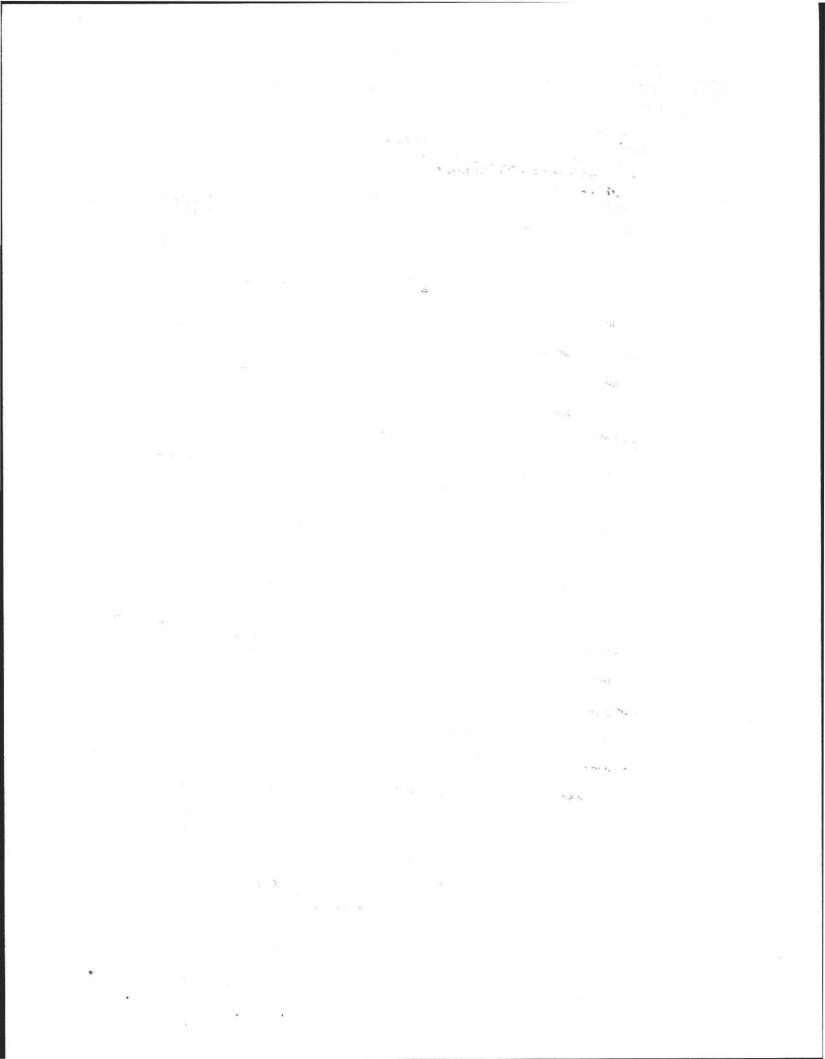
	Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments $\frac{27 \ \text{ECF} \ \text{HIW} \ \text{ROMO}}{\text{Property Address}}$
Owner information is required for every page.	J. BARCALOW Owner's Name <u>AMIHENST</u> <u>MA</u> <u>01002</u> <u>6/29/2017</u> <u>City/Town</u> <u>State</u> <u>Zip Code</u> <u>Date of Inspection</u>
	D. System Information (cont.)
	Approximate age of all components, date installed (if known) and source of information:
	Were sewage odors detected when arriving at the site?
	Building Sewer (locate on site plan):
	Depth below grade: 2
	Material of construction:
	Deast iron □ 40 PVC Deater (explain): SDR 35 E SCIT 40
	Distance from private water supply well or suction line:
	Comments (on condition of joints, venting, evidence of leakage, etc.):
	Septic Tank (locate on site plan):
	Depth below grade:
	Material of construction:
	Concrete metal fiberglass polyethylene other (explain)
	1500 GAL 2 COMPARTMENT NOW 2003 10'6 ×5' ×6' 48" Flow Line
	10'6 ×5' ×6' 48" Flow Linep
	If tank is metal, list age: 2003
	Is age confirmed by a Certificate of Compliance? (attach a copy of certificate)
	Dimensions: 48 Flow 10'6 × 5' × 6'
	Sludge depth: 18"
t5ins • 11/10	Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 9 of 17

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a tà p	Title 5 Official Inspection Form	
	Subsurface Sewage Disposal System Form - Not for Voluntary Assessments	
A CANADA	27 ELF HILL ROAD Property Address	
Owner	J. BARCHLOW	
information is required for every	AMHERST MASS 01002 6/29	12012
page.	City/Town State Zip Code Date of Inspection	
	Septic Tank (cont.)	
	Distance from top of sludge to bottom of outlet tee or baffle	
	Scum thickness	
	Distance from top of scum to top of outlet tee or baffle	
	Distance from bottom of scum to bottom of outlet tee or baffle	
	How were dimensions determined?	
	Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structur liquid levels as related to outlet invert, evidence of leakage, etc.):	ral integrity,
	<i>и</i>	
	4" SCH 40 PVC TER AND GAS TEE EXCELENT CONDITION	5
	Ergllent con DIMON	
	~ 11/0	
	Grease Trap (locate on site plan): DNP	
	Depth below grade: feet	
	Material of construction:	
	□ concrete □ metal □ fiberglass □ polyethylene □ oth	er (explain):
	Dimensions:	
	Scum thickness	
	Distance from top of scum to top of outlet tee or baffle	
	Distance from bottom of scum to bottom of outlet tee or baffle	
	Date of last pumping:	
t5ins • 11/10	Title 5 Official Inspection Form: Subsurface Sewage Disposal Syste	em • Page 10 of 17

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	Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments <u>Z7 ELF HILL ROAD</u> Property Address					
Owner information is required for every page.	Owner's Name Amherst MK City/Town	Zip Code Date of	6/29	13012		
	D. System Information (cont.)					
	Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):					
TANK SHOULD BE pumped ever 34pts.				9		
	Tight or Holding Tank (tank must be pumped at time of inspection) (locate on site plan): Depth below grade: DNA Material of construction: concrete metal fiberglass polyethylene other (explain):					
	Dimensions:					
	Capacity:					
		gallons				
	Design Flow:	gallons per day				
	Alarm present:	Yes No				
	Alarm level:	Alarm in working order:	Yes	🗌 No		
	Date of last pumping:	Date				
	Comments (condition of alarm and float switches, etc.):					
	* Attach copy of current pumping contract (required). Is copy attached?	🗋 Yes	□ No		

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Owner information is required for every page.	Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments 27 ELF HILL ROAD Property Address SharCALOW Owner's Name AMITERST AMITERST Other Colspan Other Colspan Owner's Name AMITERST Other Colspan Other Colspan					
	NO PROBLE	EM75				
	Pump Chamber (locate on site plan): DN Pumps in working order:	∕/¥ □ Yes □ No				
	Alarms in working order:	□ Yes □ No				
	Comments (note condition of pump chamber, con	ndition of pumps and appurtenances, etc.):				
	Soil Absorption System (SAS) (locate on site plant of SAS not located, explain why:	alan, excavation not required):				

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 12 of 17

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Owner information is required for every page.	Title 5 Subsurface Ser 27 EC Property Address J. BA Owner's Name AMA City/Town	alth of Massachusetts Official Insp wage Disposal System For F HILC ROAL RCACOW erst Information (cont.)	ection rm - Not for Volu 0 MA55		129/2012 ection
	Type:	leaching pits		number:	
		leaching chambers		number:	
		leaching galleries		number:	
		leaching trenches		number, length:	
	E -	leaching fields 600,	FYZ	number, dimensions:	15 × 40
		overflow cesspool		number:	
		innovative/alternative sys	stem		
5.ee ja) pla	vegetation, or Participation, o	$\frac{415E0}{99577}$	of hydraulic failu EMIN SNOTA PLS PI CPLC CH D as part of inspec	TITLES ED ED ED PER OCATIVA ESIGN RATA CUAS	PATE ES.O SS I SOIC
	Indication of	groundwater inflow		Yes	□ No

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Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every

page.

City/Town

ECF HILL RUAD 27 Property Address 1. Owner's Name

MA Zip Code Date of Inspection State

2012

b

D. System Information (cont.)

FR

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):

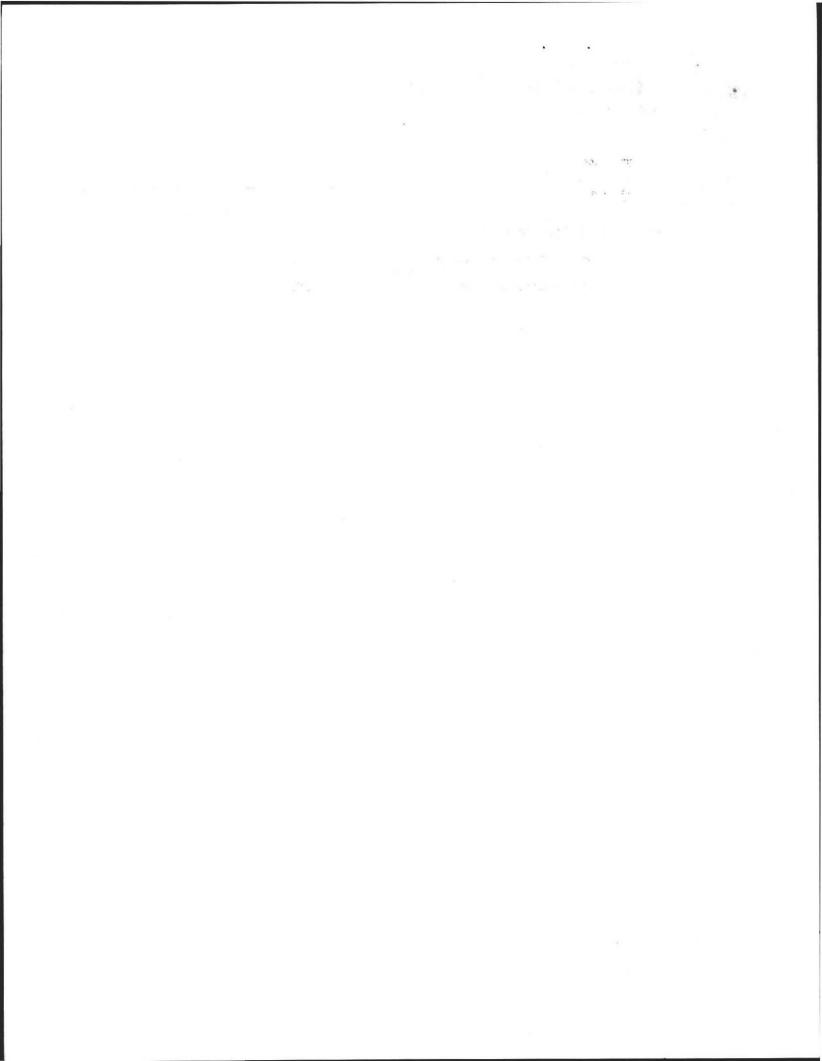
Privy (locate on site plan): DNA

Materials of construction:

Dimensions

Depth of solids

Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):



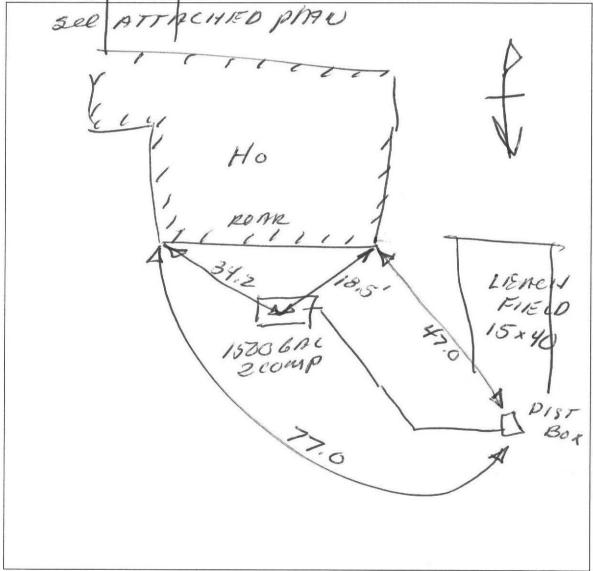
Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

27 ELF HILL ROAD Property Address cou J. Owner's Name required for every City/Town State Zip Code Date of Inspection

D. System Information (cont.)

Sketch Of Sewage Disposal System: Provide a view of the sewage disposal system, including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building. Check one of the boxes below:

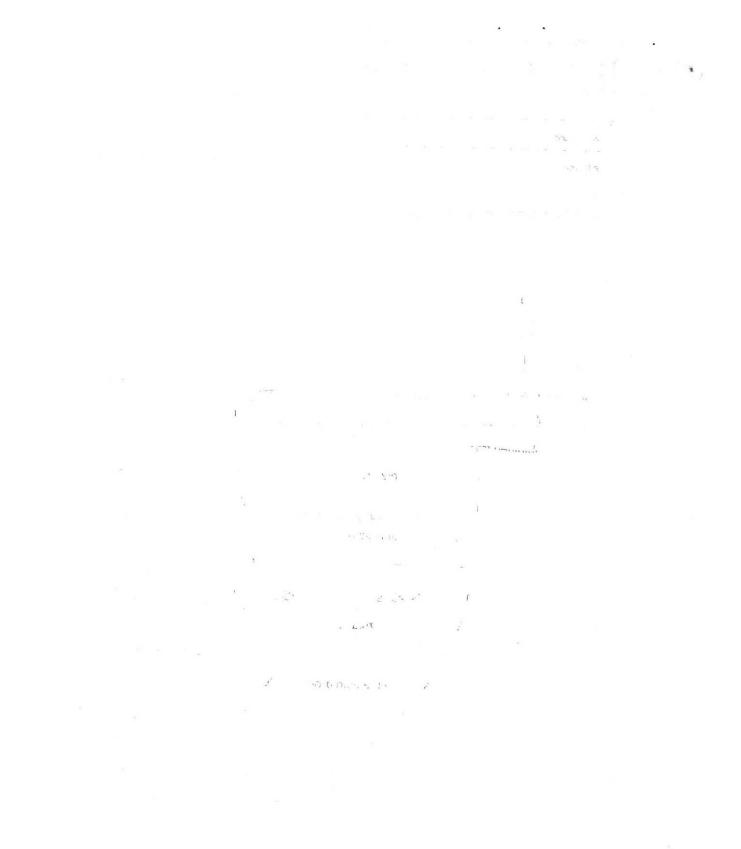
hand-sketch in the area below drawing attached separately П



Owner

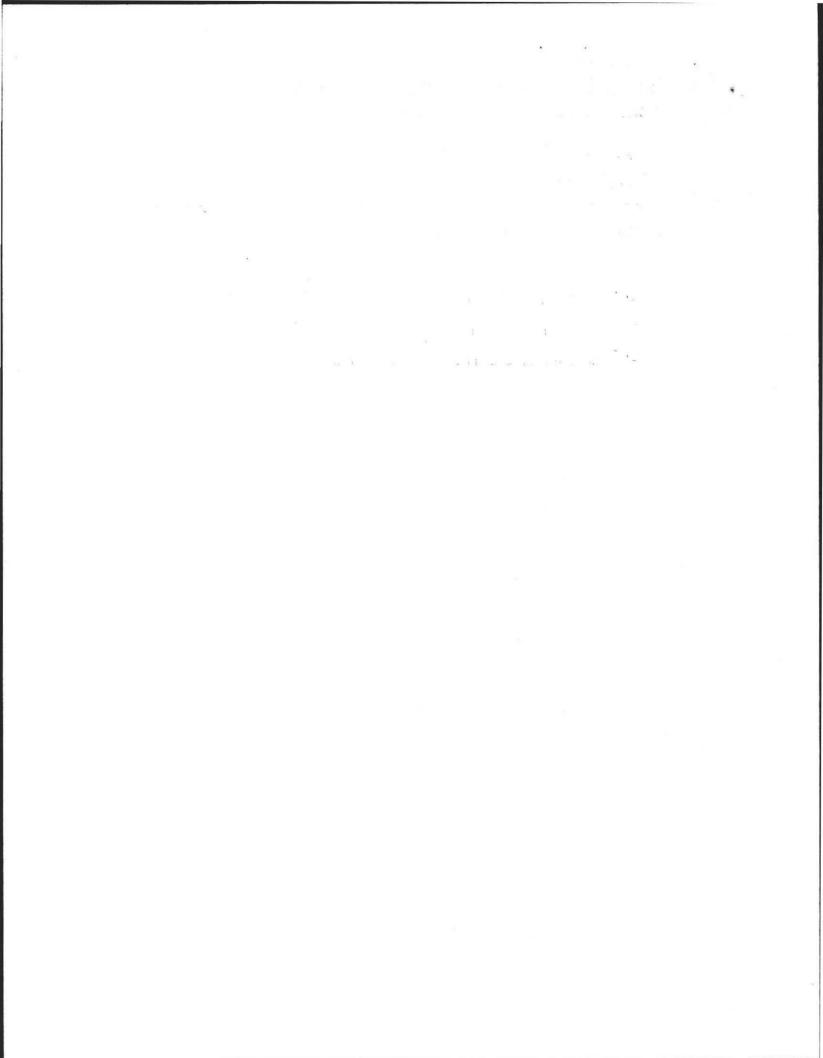
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Owner information is required for every page.	Title 5	alth of Massachusetts Official Inspection Form ewage Disposal System Form - Not for Voluntary Assessments F HILL ROAD IF MA 01002 6/29/2012 IE State Zip Code Date of Mspection	
page.	D. System	Information (cont.)	
	Site Exam		
	Check	Slope	
	🖸 Surfac	e water	
	Check	cellar	
	Shallo	wwells	
	Estimated	depth to high ground water: $\frac{48^{\circ}}{feet} \frac{500 \text{ ATTACHGD}}{pLNW}$	
	Please ind	icate all methods used to determine the high ground water elevation:	
		Obtained from system design plans on record	
		If checked, date of design plan reviewed: Date	
		Observed site (abutting property/observation hole within 150 feet of SAS)	
		Checked with local Board of Health - explain:	
		Checked with local excavators, installers - (attach documentation)	
		Accessed USGS database - explain:	
	You must describe how you established the high ground water elevation: ORIGIADAL PENCTEST B/E/2 SEE ATTACHED PLAN		
	Before fili	ng this Inspection Report, please see Report Completeness Checklist on next page.	

Title 5 Official Inspection Form: Subsurface Sewage Disposal System • Page 16 of 17

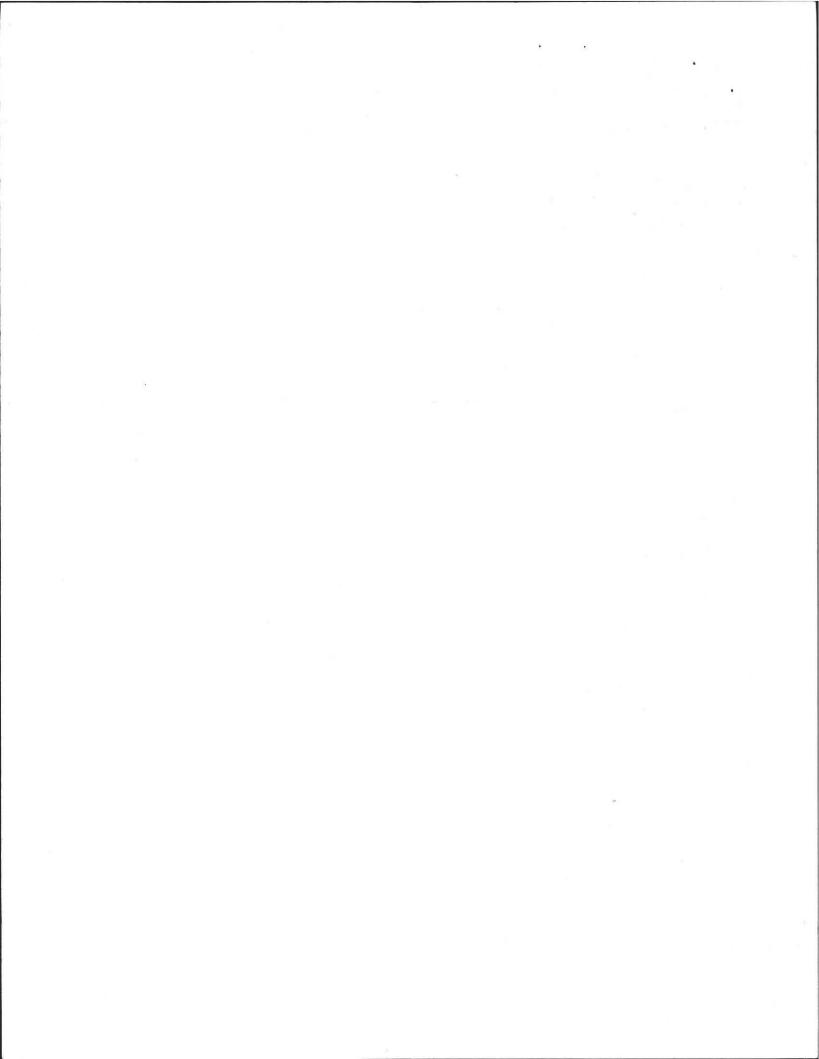


	Commonwealth of Massachusetts Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments			
	27 ELF HILL RUA Property Address	D		
Owner information is required for every page.	J. BARCALOW Owner's Name Amblerst City/Town	MA	0100Z Zip Code	6/29/2012 Date of Inspection
hage.	E. Report Completeness Check			

Inspection Summary D (System Failure Criteria Applicable to All Systems) completed

System Information – Estimated depth to high groundwater

Retch of Sewage Disposal System either drawn on page 15 or attached in separate file



Office cerry

William J. Sieruta, P.E. 46 Upland Road Holyoke, MA. 01040

Board of Health Town Hall Boltwood Walk Amherst, MA. 01002 Attn: David Zarozinski

November 5, 2003

Subject: As Built Inspection Emmett Barcalow 27 Elf Hill Road Amherst, MA.

An "as built" inspection was completed for the subject septic system. The system is in compliance with 310 CMR 15.0 and local board of health regulations. If you need any additional information, please do not hesitate to contact me.

Very truly yours,

William J. Sieruta, P.E.

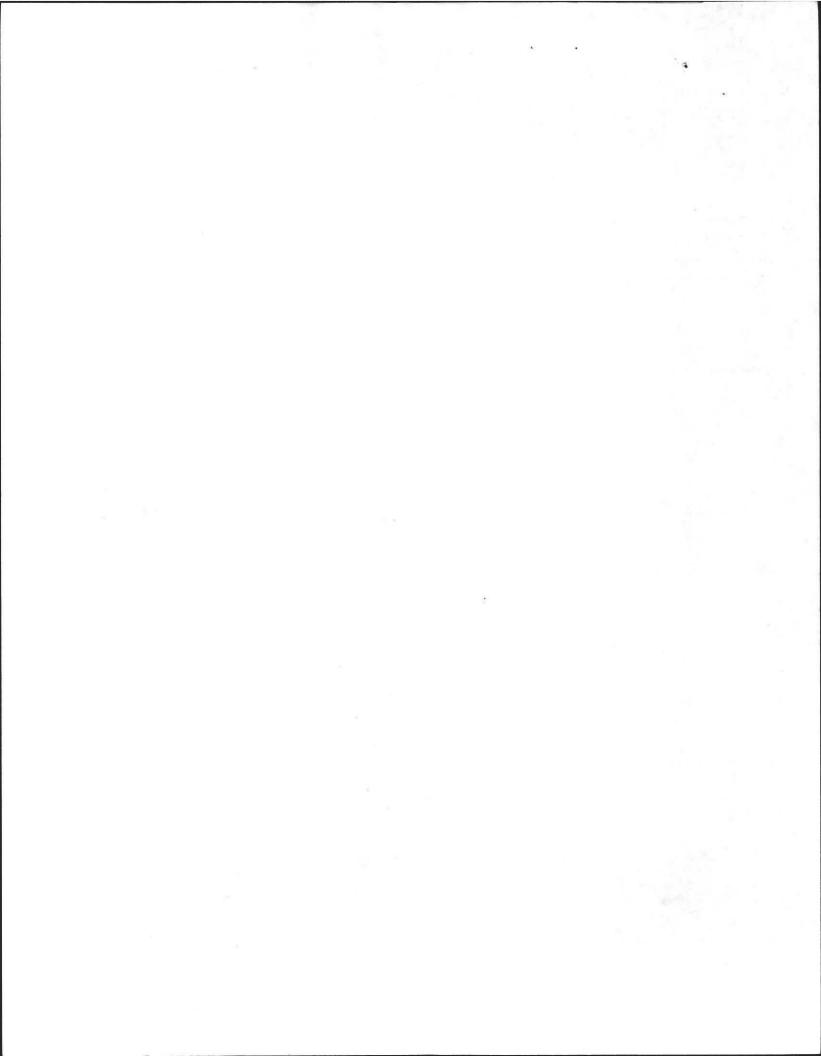
2CC: E. Barcalow

WJS:mbs



No. <u>03-18</u> <u>Revised</u> COMMONWEALTH OF MASSACHUSETTS Board of Health, <u>Am Less</u> , MA.
CERTIFICATE OF COMPLIANCE
Description of Work: D Individual Component(s) Complete System
The undersigned hereby certify that the Sewage Disposal System; Constructed (), Repaired (K, Upgraded (), Abandoned () by: WILLIAM J SIENUTH PE
at 27 ELF HILL Rd
has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. $03-18$, dated $9/18/03$. Approved Design Flow, $1000000000000000000000000000000000000$
Installer & Migerom STENUOD Mulluch
Designer: Willing Inspector: Themes Sim Date: 11/6/03

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.



Caring for Your Septic System

The accumulated solids in the bottom of the septic tank should be pumped out every three to five years to prolong the life of your system. Septic systems must be maintained regularly to continue working.

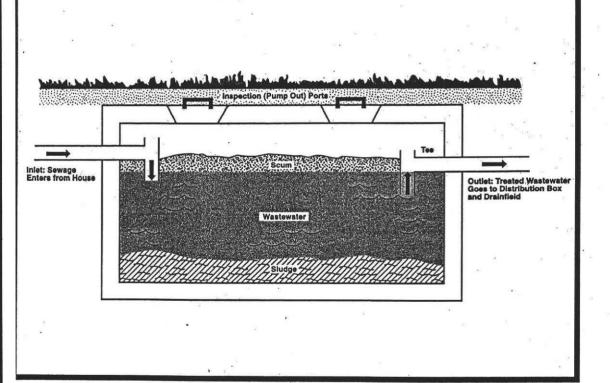
Neglect or abuse of your septic system can cause it to fail. Failing septic systems can

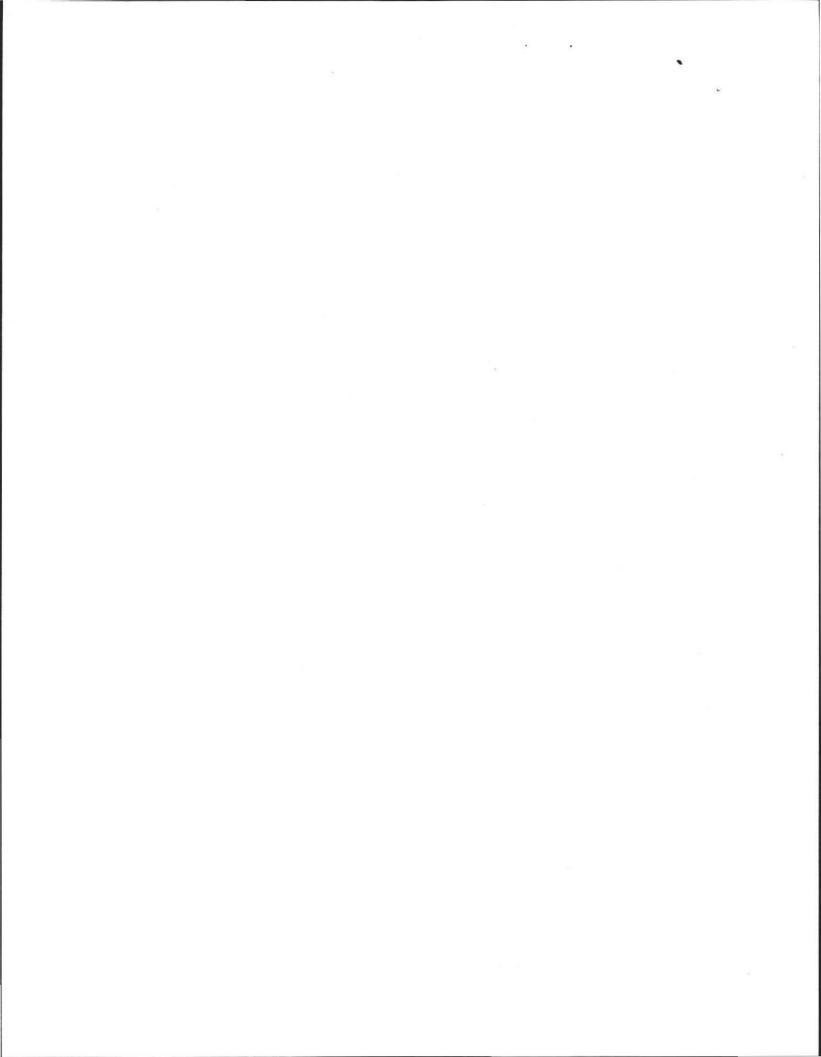
- cause a serious health threat to your family and neighbors,
- degrade the environment, especially lakes, streams and groundwater,
- reduce the value of your property,
- be very expensive to repair, and

 put thousands of water supply users at risk if you live in a public water supply watershed and fail to maintain your system.

Be alert to these warning signs of a failing system:

- sewage surfacing over the drainfield (especially after storms),
- sewage back-ups in the house,
- lush, green growth over the drainfield,
- slow draining toilets or drains,
- sewage odors.

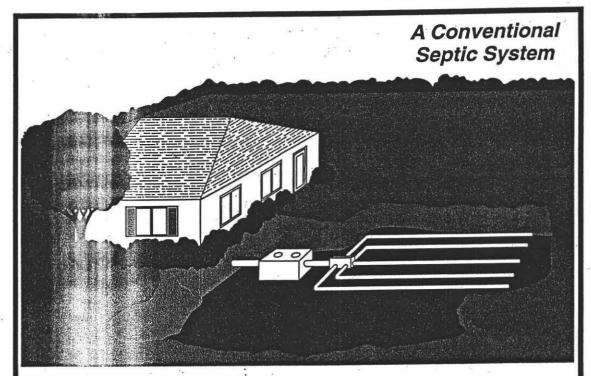




Septic Systems Explained

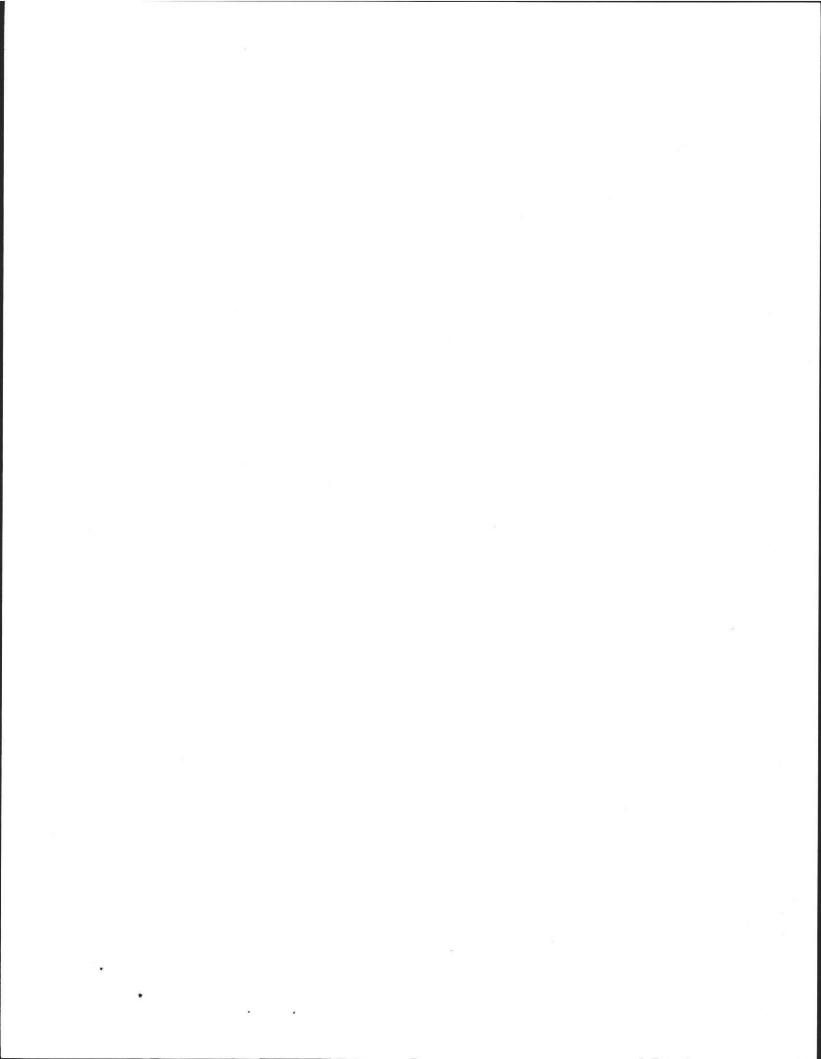
Septic systems are individual wastewater treatment systems that use the soil to treat small wastewater flows, usually from individual homes. They are typically used in rural or large lot settings where centralized wastewater treatment is impractical.

There are many types of septic systems in use today. While all septic systems are individually designed for each site, most septic systems are based on the same principles.

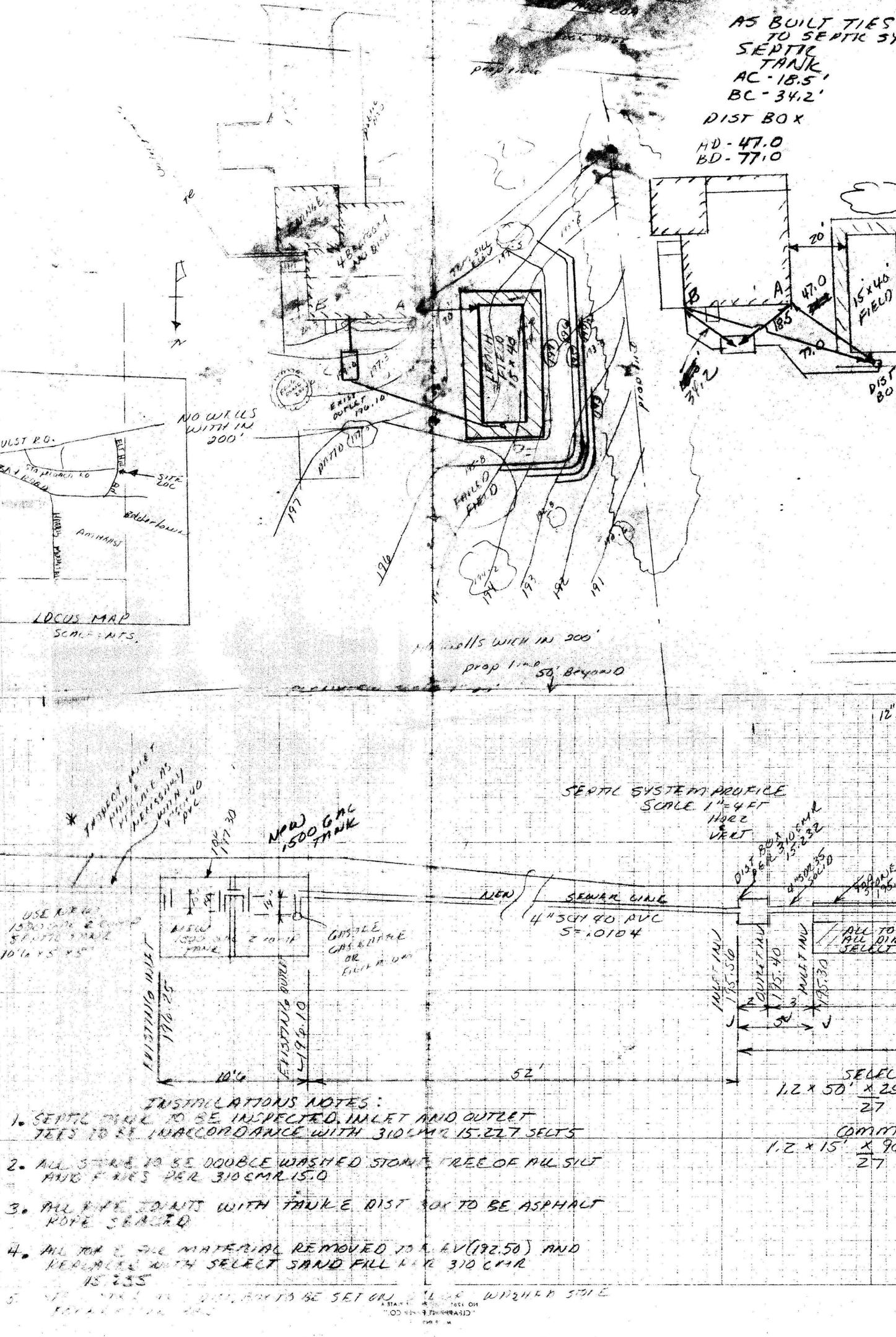


A septic system consists of a septic tank, a distribution box and a drainfield, all connected by pipes, called conveyance lines.

Your septic system treats your household wastewater by temporarily holding it in the septic tank where heavy solids and lighter scum are allowed to separate from the wastewater. This separation process is known as primary treatment. The solids stored in the tank are decomposed by bacteria and later removed, along with the lighter scum, by a professional septic tank pumper. After the partially treated wastewater leaves the tank, it flows into a **distribution box**, which separates this flow evenly into a network of **drainfield trenches**. Drainage holes at the bottom of each line allow the wastewater to drain into gravel trenches for temporary storage. This **effluent** then slowly seeps into the subsurface soil where it is further treated and purified (**secondary treatment**).



ing prover TESI DIT TESTFIT Thi-1 UTS Lupm, SMAIN Unni 1 68.1 1.6. 200 120 104A FILL 1.1LL FILL 1.13182 8413 MATERIAL JUYR MANIFRIA 10:30 12-30 1011 4-2 4.2 CONNEF COMMSY. LOAMY WFLL SIMIT SAND SAND GRHOFD 30 /04 20% 101R SILTY grig set 6-6 COGYSA 20% MASSIUL GRAVEL Cubles FRINGCE STRUCTUROLOS FACTOR STOPPED USED CZ SAND Lonner AS AFRE HOLE SAND 100-120 Prozentruso GRAVEL 1041 BUST grant Soul, 6-4 EHWT, miping 100 HEU STRUDING KO BANOS 109n5-8 MOTIZING 1048505 NOTED BANDS @ 50 ENUIT 50 HULST RO. ENGRE WE SIERUM PLEEVAL - EAT WITHINSS ZAROZINSKU ROM peronech ko PERMEABRITY TEST PERCA O TOFT DEPTH 63" ACTUME RATE 40min/unit DESIGN RATE 5.0 millinger 43" SEPARATION REQD PERSIDENIR CUNSS I SOIL LOCUS MAL 15.212 PERCE WAINED BIBON CONSISTENT SOILS, REPAIR PERCITEST. DESIGNERATION POL CONSTRUCTION TO EXMINCCORDINCE WITH TO COME 15.0 TITLE 5- MUD PULLOCAL BOARD OF HEALTH REGULATIONS. FINISH GRADING TO BEAS SHOWN ON PLANNIFU. ALDISTEURED TO SELOAMED MUD SEEDED. OSE: EXISTING 4 BEDROCHT SINGLE FOMILY RESIDENTIAL HOME WALK OUT TO RELAR FULL BAT DESTIGN FLOW: 310 CMA 15.203 REQD 110 GALS /BEDROOM × 4 = 440 GALS USE NE W 15303 Carle 2 Com NO PISPOSAL UNIT FR. FR. SMAUR 10 16 + 3 + 3 + 3 SEPTIC TANK REPD: 310 CM/R 15.223 440 GMCS /DAY × 200 % = 830 GAKS MINIMUM TANK SIZE PERMITTO 1500 GR 1500 GAL SEPTR THUK 2 CONJONNEMENT USE NEW 1016×5 ×5 LEACHING SYSTEM: DUE TO SON CONDITIONS A CEACHFIELD DESIGN IS TO BE USED PER 310 CM1R 15, 852 PERMEMBILIM EFFECTIVE DEPTH 6 MEST MIN 310 CMR 15 242 EFFECTIVE WIDTH 15 EFFECTIVE RENGTH 40 PERCOLATIONMATS ACTORC RATES 40 MININA BOTTOM ANGA DESIGN RATE 15 ×40= 600 FTZ 5.0 Mulines CLASSI SOIC TOMI PERMEABILITY Borrong & SIDE UNK PREAS 600 TE X, 74 = 444 6ML .74 GACS/FIE TBM SET SILL ELEV HOUSE N.E. CONN ELEV 200.00 S At St.



TO SEPTIC SYSTEM 4 4"SDR 35 SOCIO PVC 4" SCH. 40 PYC DIST BOX PER 310 CMIR 15 232 5=+0104 How A Supersit west (0, STANK 14 TIZ DOUBLE WINSHED ALL TOP E SUB SUIL NAMONAD + IN ALL DIRECTION AND REPUBLED WITH SELECT SAND FILL AFR 310 CMALISIESS BOTTOM Fre 251 LEACHING FIELD DETAIL SFADE BOTTOM FILLD 174.68 ALL TOP & FILL PAMOURO SFTIN FILE PER SIDOMAIS255 48 BONJENS OF FILE 192.50 ALL DIRECTIONS MA SENUS SELECT SAND FILL REOD SLOPE CEPSET CALC 1.2 × 50' × 25' × -8.3' = 183 EU. 405 310 CMAR 15 210 REDO FOR SLOPES OF T.3 COMMON FILL REOD OR LESS 15FT AUDICHBLE TO BREAKOW 1.2 × 15' × 90' × 3/2 FLEV 195.80 AFTER ONTOM CU yes 16FT MEERS CODE 273 60,405 SEPTIL SYSTEM DESIGNI FIR E BARCALOW 27 ELF HILL ROAD AMHERST MASS ENGR: W.J. SIERUTA PEERUAL DATE: SEPT. 18 2003 KEUISEO 550+ 29 2003 ECPENCE YMAK

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AMHERST PUBLIC HEALTH DEPARTMENT

Bangs Community Center 70 Boltwood Walk Amherst, MA 01002

DATE: June 29, 2012

June 2012

INVOICE

App: 14341 Batch-58

то Jillit Barcalo (paid by William Sieruta) 27 Elf Hill Road Amherst, MA 01002

RE: Invoice for Septic Title V witness

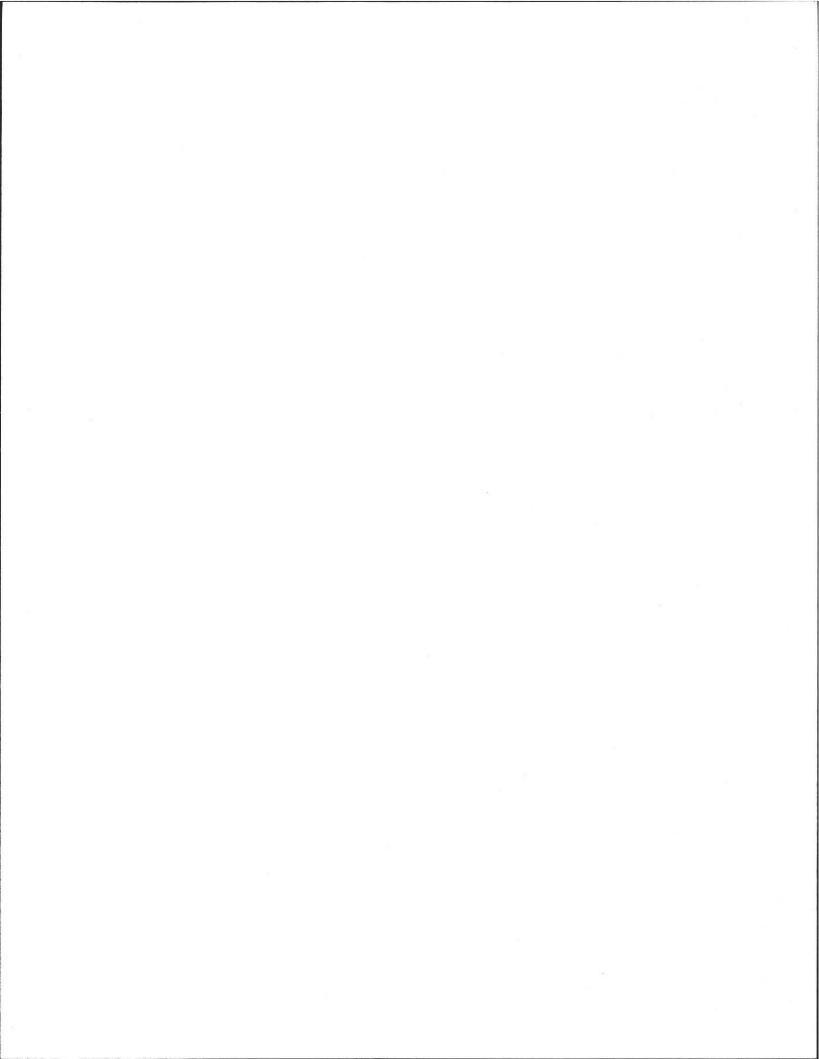
Services provided by

Edmund Smith PAYMENT TERMS: Due Upon Receipt

QUANTITY	DESCRIPTION	UNIT PRICE	LIN	E TOTAL
1.00	Septic Title V witness	\$ 200.00	\$	200.00
	Rec'd today Bill Sieruta's check #8590 for \$200.00			
	this invoice is paid in full/thank you			
		SUBTOTAL SALES TAX		200.00

TOTAL \$

200.00



Smith, Edmund

 Subject:
 Title V

 Location:
 27 Elf Hill Road

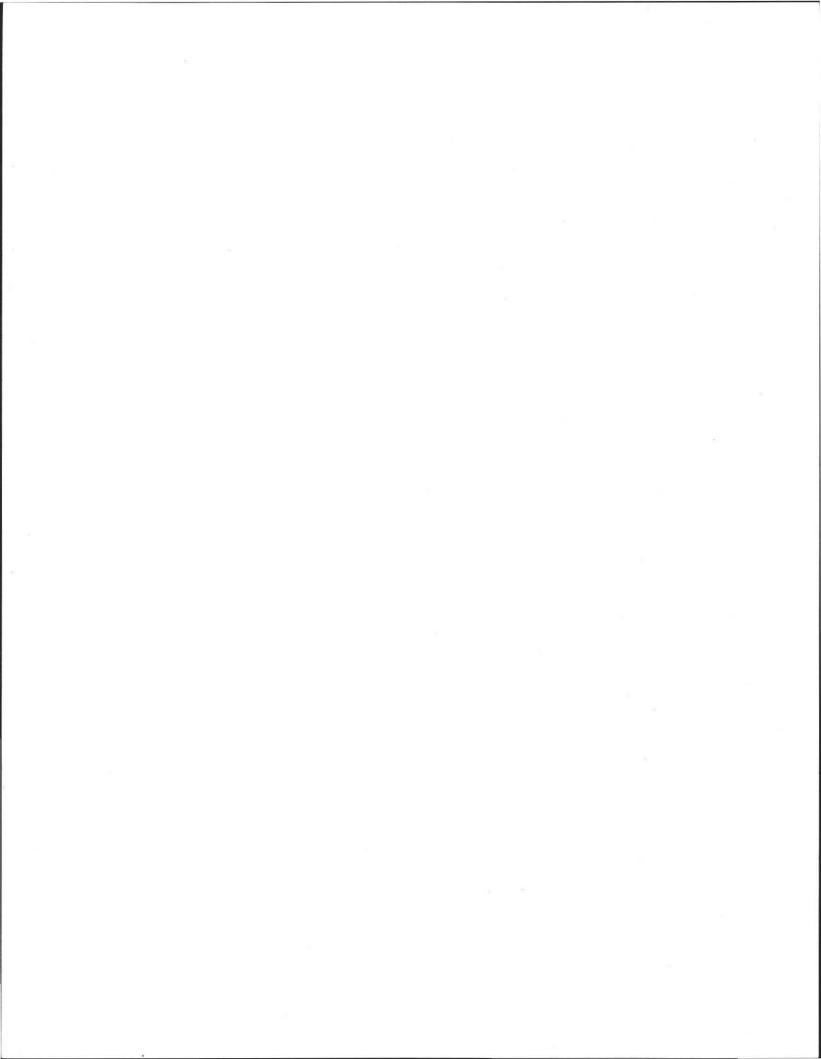
 Start:
 Fri 6/29/2012 9:00 AM

 End:
 Fri 6/29/2012 10:00 AM

 Recurrence:
 (none)

Organizer: Smith, Edmund

Meet Bill Sieruta; owner Jillit Barcalo; 2003 system (Bill put in).



CUST NAME 4 BOLTWOOD AVENUE 07/05/12 CITY, ST, ZIP

***TOWN OF A TOWN HAL AMHERST M REFERENCE DATE/TIME 14:49

200.

CUST NAME

0 DEPT

DE HEA058

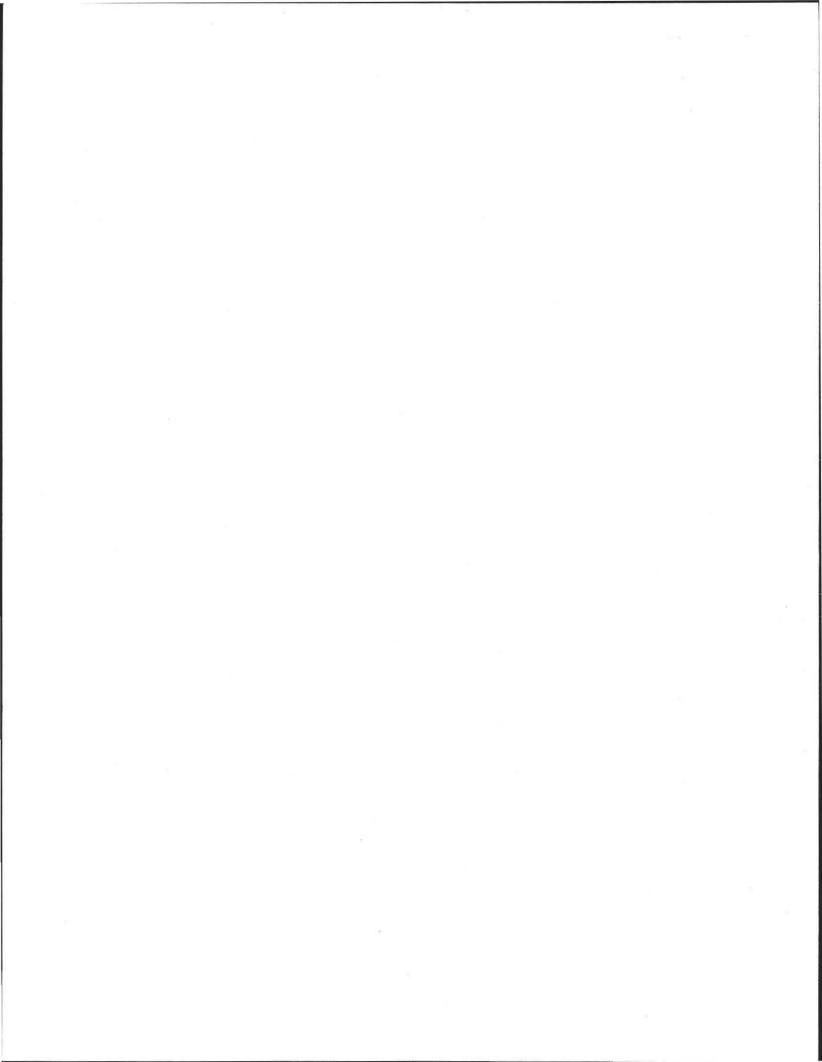
TITLE V WI

RECPT TOTAL

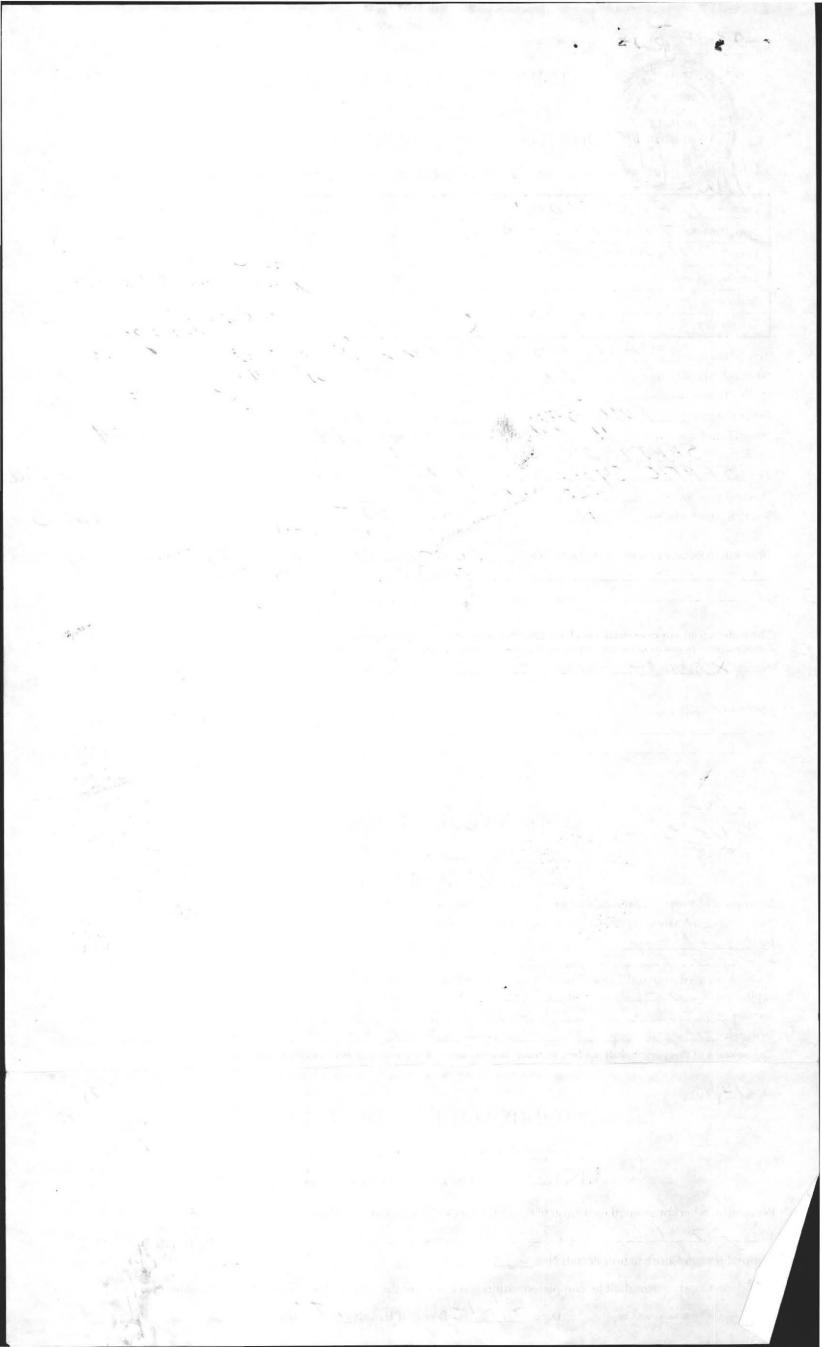
200.00 WILLIAM J QUA CHECK

8590

AMOUNT



WILL M C	WEALTH OF MASSACHUSETTS
SIERUTA 1	alth, <u>Amherst</u> , MA.
The same from FOR DIS	SPOSAL SYSTEM CONSTRUCTION PERMIT
Application Petric Construct Repair V U	Jpgrade Abandon() - Complete System D Individual Components
Location E BARCALOW	Owner's Name E, BARCALOW
Map/Parcel#Z7 ELF HILL KOAN	
Lot# Amherst MAS.	and and that
Installer's Name	Designer's Name // JIII I RM SIEMISTA
Address	Address 46 upland RC
Telephone#	Telephone# Hotyotic MASS
Plan: Date SEPT 182003 Number of	Coms NO DISPOSAL Garbage grinder (* E FAMILY No. of persons Showers (2), Cafeteria (* VALLOUT TO ILKAR Calculated design flow 440 Design flow provided 444 f sheets I Revision Date —
Can whether	ESIGN FOR E, BARCHLOW 27 EC ACHED
Description of Soil(s) Sele MTTN Soil Evaluator Form No Name	
	SIENUTA,
DESCRIPTION OF REPAIRS OR ALTERATIONS	complete septic system upg
	TO GIOCMIN 15:0
further agrees to not to place the system in operation u	Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and multiple and the Board of Health.
Further agrees to not to place the system in operation u Signed X Sum Barcalow	Intil a Certificate of Compliance has been issued by the Board of Health.
Signed X Sum CH Barcalow	Intil a Certificate of Compliance has been issued by the Board of Health.
Signed X Sum CH Barcolow Inspections No. <u>C3-18</u> Devised COMMONW Board of Heat	The schedule of Compliance has been issued by the Board of Health. Date 929/2003 Schedule 4000000000000000000000000000000000000
Signed X Sum CH Barcolow Inspections No. <u>C3-18</u> Devised COMMONW Board of Heat	The second secon
Signed <u>Source</u> Signed <u>Source</u> Inspections No. <u>C3-18</u> COMMONW Board of Hear CERTIF Description of Work: Individual Component(s) Che undersigned hereby certify that the Sewage Dispose	The set of Compliance has been issued by the Board of Health. Date 929/2003 VEALTH OF MASSACHUSETTS WEALTH OF MASSACHUSETTS alth,, MA. FICATE OF COMPLIANCE Complete System sal System; Constructed (), Repaired (), Upgraded (), Abandoned ()
Signed <u>Sum of Barralus</u> Signed <u>Sum of Barralus</u> Inspections No. <u>G3-18</u> COMMONW Board of Hea CERTIF Description of Work: □ Individual Component(s)	The set of Compliance has been issued by the Board of Health. Date 929/2003 VEALTH OF MASSACHUSETTS WEALTH OF MASSACHUSETTS alth,, MA. FICATE OF COMPLIANCE Complete System sal System; Constructed (), Repaired (), Upgraded (), Abandoned ()
Signed <u>Summer</u> Barralow Signed <u>Summer</u> Barralow Inspections No. <u>G3-18</u> No. <u>G3-18</u> COMMONW Board of Heat CERTIF Description of Work: Individual Component(s) Che undersigned hereby certify that the Sewage Dispose oy: <u>NICLIAN</u> At <u>B7 E1F Her</u> Rec has been installed in accordance with the provisions of application No. <u>03-18</u> , dated <u>916/03</u> Installer <u>S18</u> Designer: <u>Multicular</u> S18 Designer: <u>Multicular</u> S18	antil a Certificate of Compliance has been issued by the Board of Health. Date 9292003 VEALTH OF MASSACHUSETTS WEALTH OF MASSACHUSETTS alth,, MA. FICATE OF COMPLIANCE Complete System sal System; Constructed (), Repaired (), Upgraded (), Abandoned () MARCELED f 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating
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Signed A Same Barrow Board of Heal Signed A Same Barrow Board of Heal So. 03-18 No. 03-18 No. 03-18 COMMONW Board of Heal CERTIF Description of Work: Individual Component(s) The undersigned hereby certify that the Sewage Dispose by: 0100 Minute Sewage Dispose Designer: 0100 Minute Sewage Dispose Dispose Dispose Dispose Dispose Dispose Dispose Dispose Dispose Dispose Dispose Dispose Disp	antil a Certificate of Compliance has been issued by the Board of Health. Date <u>929/2003</u> VEALTH OF MASSACHUSETIS Atth, <u>MALENCE</u> , MA. FICATE OF COMPLIANCE Complete System sal System; Constructed (), Repaired (), Upgraded (), Abandoned () MARCE f 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating Approved Design Flow, <u>(gpd)</u> attributed ector: <u>Marcenter</u> Date: <u>11/6/03</u> guarantee that the system will function as designed. FEE_076
So. <u>G</u> 3-18 No. <u>G</u> 3-18 No. <u>G</u> 3-18 No. <u>G</u> 3-18 COMMONW Board of Heat CERTIF Description of Work: Individual Component(s) Che undersigned hereby certify that the Sewage Dispose oy: <u>MIMIAN</u> The undersigned hereby certify that the Sewage Dispose of the undersigned hereby certify that the Sewage Dispose Che issuance of this permit shall not be construed as a pose No. <u>O</u> 3-18 COMMONW Board of Heat DISPOSAL SY Permission is hereby granted to; Construct() Re	Intil a Certificate of Compliance has been issued by the Board of Health. Date 929/2003 VEALTH OF MASSACHUSETIS alth, <u>Makeer</u> , MA. FICATE OF COMPLIANCE Complete System sal System; Constructed (), Repaired (), Upgraded (), Abandoned () MARCE (1), Repaired (), Upgraded (), Abandoned () Fill (1), Abandoned () MARCE (1), Repaired (), Upgraded (), Abandoned () MARCE (1), Repaired (), Upgraded (), Abandoned () Complete System (), Repaired (), Upgraded (), Abandoned () FILL (), Abandoned (), Abandoned () FILL (), Abandoned (), Abandoned (), Abandoned () MARCE (), Repaired (), Upgraded (), Abandoned () FILL (), Abandoned (), Abando

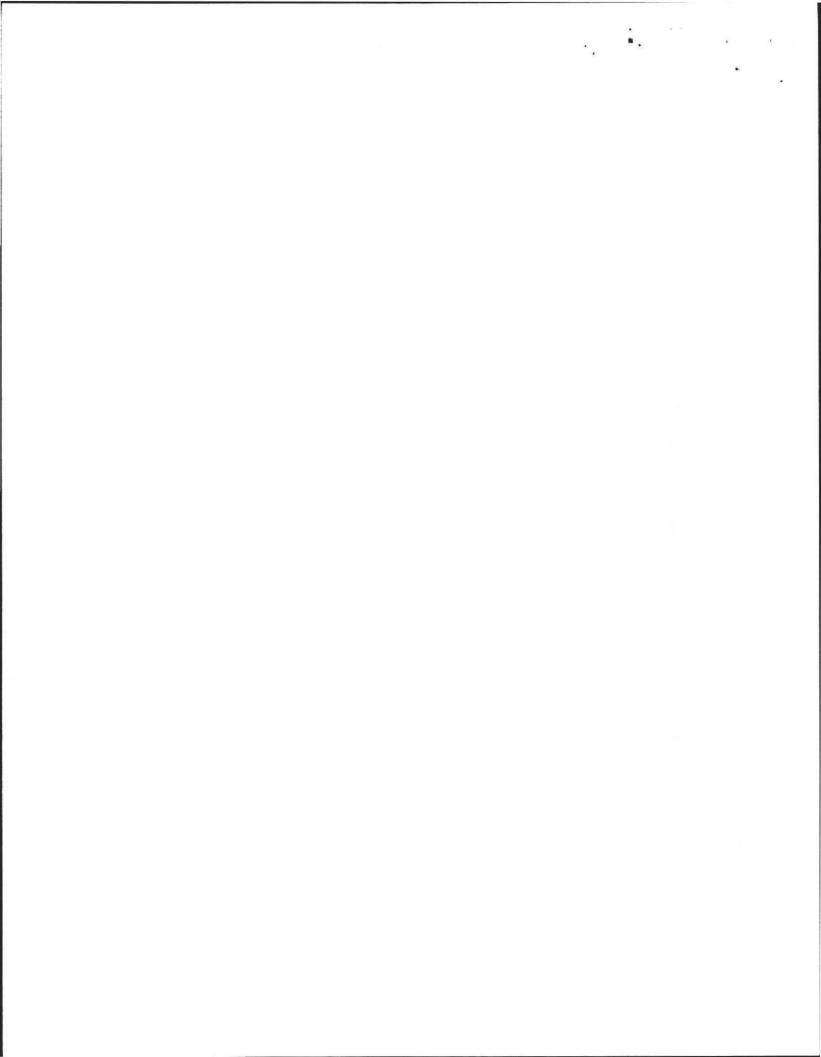


		FORM 11 - SOIL F	VALUATOR FORM
			Page 1 of 3
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			01.1
No			Date: 8/4/0
5	Commonwealth	of Massachusetts	
		, Massachusetts	
Soil St	uitability Assessment	for On-site Sewage	<u>Disposal</u>
	WILLIAM SIE D. ZARAZ	PE PE	RILLAS
Performed By:		EVALDa	te: 0/0/03
Witnessed By:	V. ZNRAZ	TWSKE BOH	
Larving Attanta E	RADCALOUI	Amilian E RADI	nina
Lai	BARCALOW	Owner's Name, E. BARC Address, and Telephone 1 27 ECF	in an
27	ELE HILL ILD AMAGAST MA		
New Construction	n 🗋 Repair 🔲	Amherst	MASS
Office Review		+ a Da	
Published Soil Surv	ey Available: No 🗌 Yes [y Telo	8319
Year Published~	Publication Scale	004	
Drainage Class	Soil Limitations	······	
Surficial Geologic J	Report Available: No 🗌 Yes		
Year Published	Publication Scal		
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andform		<u> </u>	
Flood Insurance Rat	e Map:	_	
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		110	DISPOSAL
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Vetland Area:		· · · · · · · · · · · · · · · · · · ·	
	ventory Map (map unit)		
Vetlands Conservan	cy Program Map (map unit)		
Surrant Water Dese	Conditions (1900) March	2 Å	
	urce Conditions (USGS): Month	· · · · · · · · · · · · · · · · · · ·	
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DEP APPROVED FORM - 12/07/95

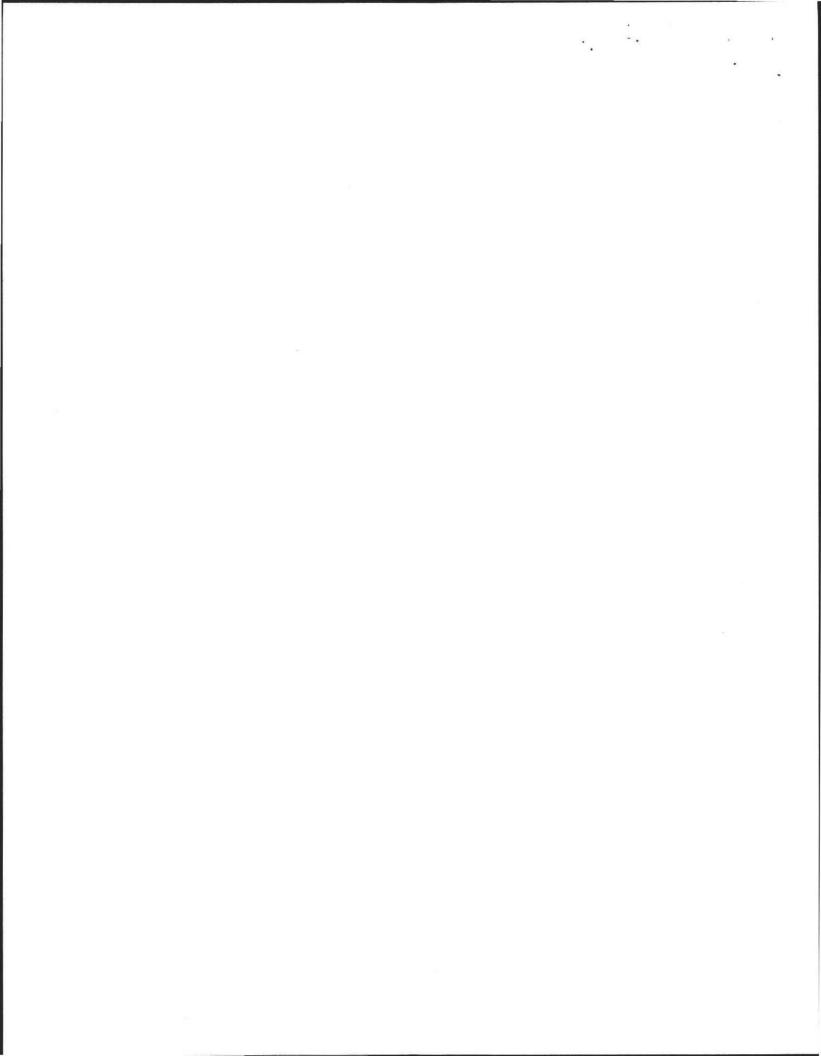
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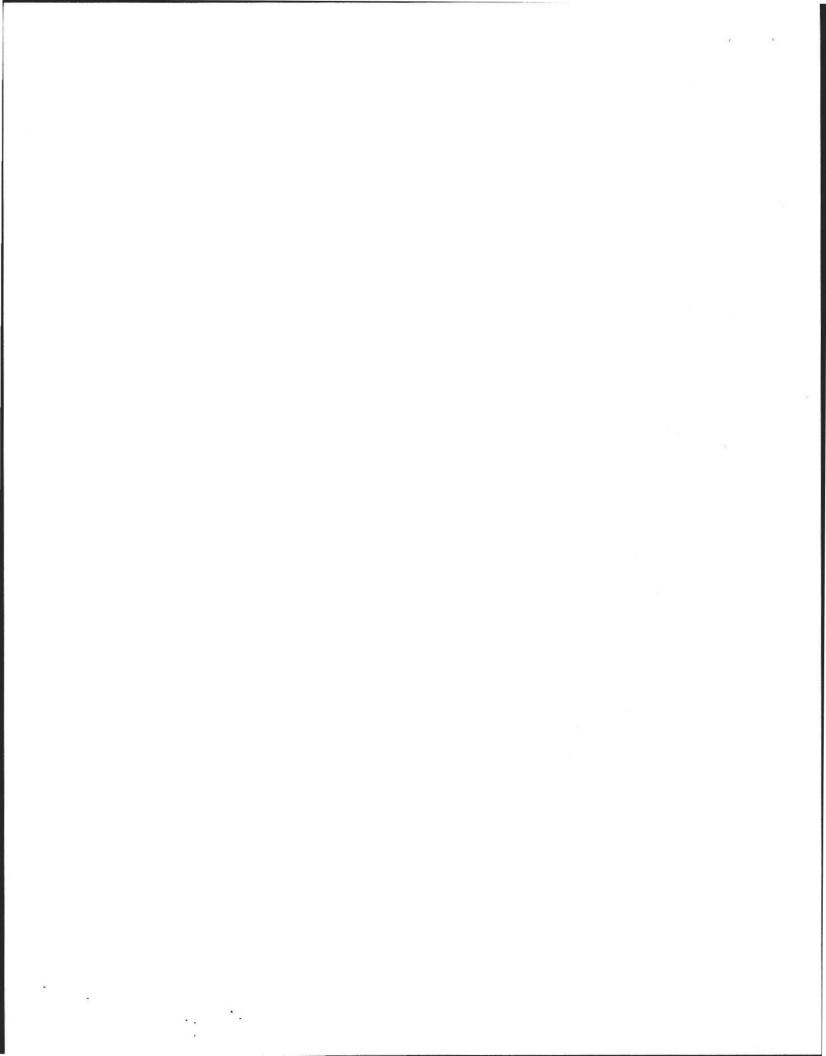
Percolation Test

perc1 perc 2 Test No. Test No. perc 2 Time Reading Time Reading Tals Saturation (15 min) Saturation (15 min) 223 INAIUED BY BOH-Min/inch 9 Min/inch Perc. Rate Perc Rate Ground Elev. Ground Elev. Depth of Hole Depth of Hole 63" TP1-2 Deep Test Pit/s Test Pit Test Pit TP-1 Soil Description Depth Soil Description Depth 0-6 OTS LOAN, A 0-6 FILL WITH BLAcktopele 6-30 6-30 FILL coarse grand 30-64 30-100 SANDE GRADED SICTY osed as porc hole 100-120 Groundwater Depth 100"Elev. Coart Bedrock Depth DUA Elev. Elev Groundwater Depth Elev. Depth Bedrock Ground Elev. EHUT 50" KHWTSO" Ground Elev. S.C.S. Soil Description Grand Seasonal High Water Table? AS NOTED Description JOP OF BILL Bench Mark: Elev. COMMENTS: Date: Client: ALOU ILL RD MASS Engineer: 112. e . Witness: USTA 0 Perc: Location of 27 ELF nue orci Y BED room peck on NO DISP-



Stopped used as massed Same woled 20% graw FORM 11 - SOIL EVALUATOR FORM Pake 2 of 3 1. Other 15trustate, Utanes, Berkharz, Canadrance, W Gravel 1001 V 181 Stratter W Property Una ... 1801 5/e K C 30-65 C, SMUL 104 1042 050" Location Address or Lot FUE HILL ROWD 0114 100 4 Viceping from Pit Faces EHWISO" antoin OUT UNSH TERRACO Location fidentity on size plant Lend Use NSICCAN, Shope 1941 . . . Surface Stones Vegenation LAPUL X DEEP OBSERVATION HOLE LOG' OUTUNEII CRALADEROBETOCE Amle ost POSAL AREA Cosp Hole Humber TP1-Z and w/ w a Te 00 Sec. Mortling 104 R
 On-p10, from
 Self heartoon
 Self Textures
 Soft Catanal

 Stelface (Instruct)
 Soft October
 (USOA)
 Setatoon
 Position on landscape (sterch on the back) Draking West Vest L 1420 Depith to Groundwayer, Standing Water in the Hola: DEP A7580 V20 10 MM - 12/03/52 5/5 as from: Open Weier Body Dunk fact Possibler Wei Asen ____ feet 8-30 Fuc -PRIMICIAL OF A ROLES RECOMEN Estimated Seasonal Plicy Ground Water 4 Parent Material (periodic) Distencas from: 0-0 GR 30- C, Eonuy 104 20% qraw 100 C, SAW 104 5-8 20% cobles 100 C 20my band 1719551-0 120 C 20my will & FR193UE Level 10 10 51 Can W Stope (8) O Surface Stores Stope 100 1060 EBlacktop FORM II - SOL EVALUE TOR PORM C 30 7 2800 00hur IStrustum, Sterns, Peoldurt, Cunalistanier, 15 Gizzun Frass Hole Hurdow TPL-J 8/6/03 800 Weather MILLS Lecth to Ground was a Standing Visitarian the Molas 100 Waresing from Pit Faces 100 Waresing from Pit Faces 100 want Marthal (2002 ct a) 6 UT WINSH G March Processor DNA Antherst mass 27 ELF HUL RD O.t. de AUD (See classer DEEP OBSERVATION HOLE LOG Pieparty/Jna fast KHEN So"EKWI Orate Review Drypta itaan Suit Padriaan Suit Texture Suit Color Suitace Itaan Suit Texture Suit Aussam Maraling 8-30 Ful - 104h Other 0-8 AP 5/ 104 Detaining VI. Mar Other Position on landscope (skatch on the back) 2011-11-102 C24081N 120 1000 Possba Wes Alar . . hat . Open Vistel Book DUK NUMBER OF TROUS ALOUGH interned Searched Man Ground Witter: Location Address or Lot No. i**sny** N Landform intended from: G



FORM 12 - PERCOLATION TEST

Location Address or Lot No. 27 ELF HULL PD

COMMONWEALTH OF MASSACHUSETTS Amhenst, Massachusetts

Date:	8/6/03 Tim	e: 800 AM	
bservation Hole #	TPI-1	TP1-2	
Depth of Perc	63"	60"	ni du S
Start Pre-soak	24 gals		
nd Pre-soak	953	WAINED	
ime at 12"	953	BY BOH CONSISTERIT	SOICS
iine at 9"	10 00	LIMITED PI	reA
ime at 6"	1012	repair perc	lest
ime (9"-6")	12/3 = 4.0		
ate Min./Inch	5.0		
* Minimum of 1 per reserve area.	CCASS I SOIL colation test must be perf	48" Separa ha	a AND 310
Passed A Site Fai	led D n		15.
rmed By:	Will le	to PE.	
ased By:	D. ZARAZ	INSKI BOH.	
nents:	and the second		••••• • • • • • • • • • • • • • • • •

EP APPROVED FORM - 12/07/95

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FORM 11 - SOIL EVALUATOR FORM Page 3 of 3

Location Address or Lot No. 27 ECF HILL RD Amlerst MA

Determination for Seasonal High Water Table

Method Used:

There is a strength		7P,-1	111.5
Depth observed	standing in observation hole	inches 100	
Depth weeping f	rom side of observation hole	_inches 100	
Depth to soil mo	ttlesinches_415-8	EAWT	KAW!
Ground water ad	justment feet BNWD @	50"	50 "
Index Well Number	Reading Date Index	well level	
Adjustment factor	Adjusted around water level		10 A

Depth of Naturally Occurring Pervious Material

Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?

If not, what is the depth of naturally occurring pervious material?

Certification

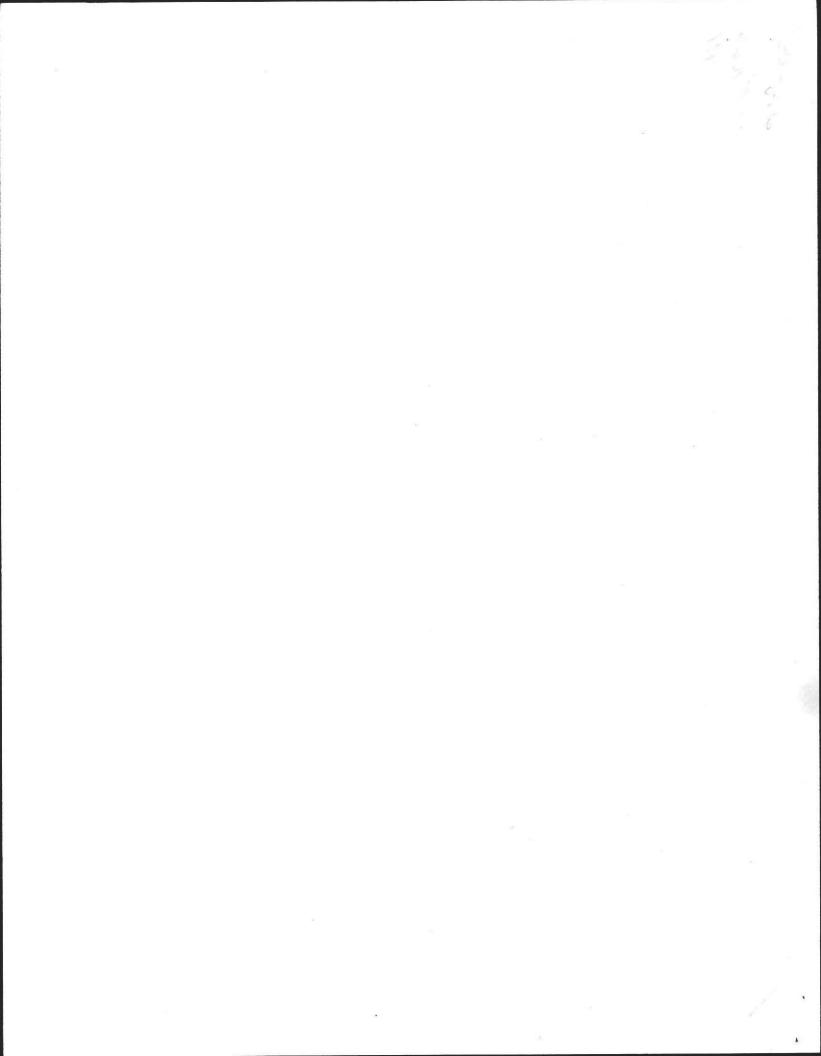
I certify that on <u>5/95</u> (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017.

Signature Walluht Date 8/6/03



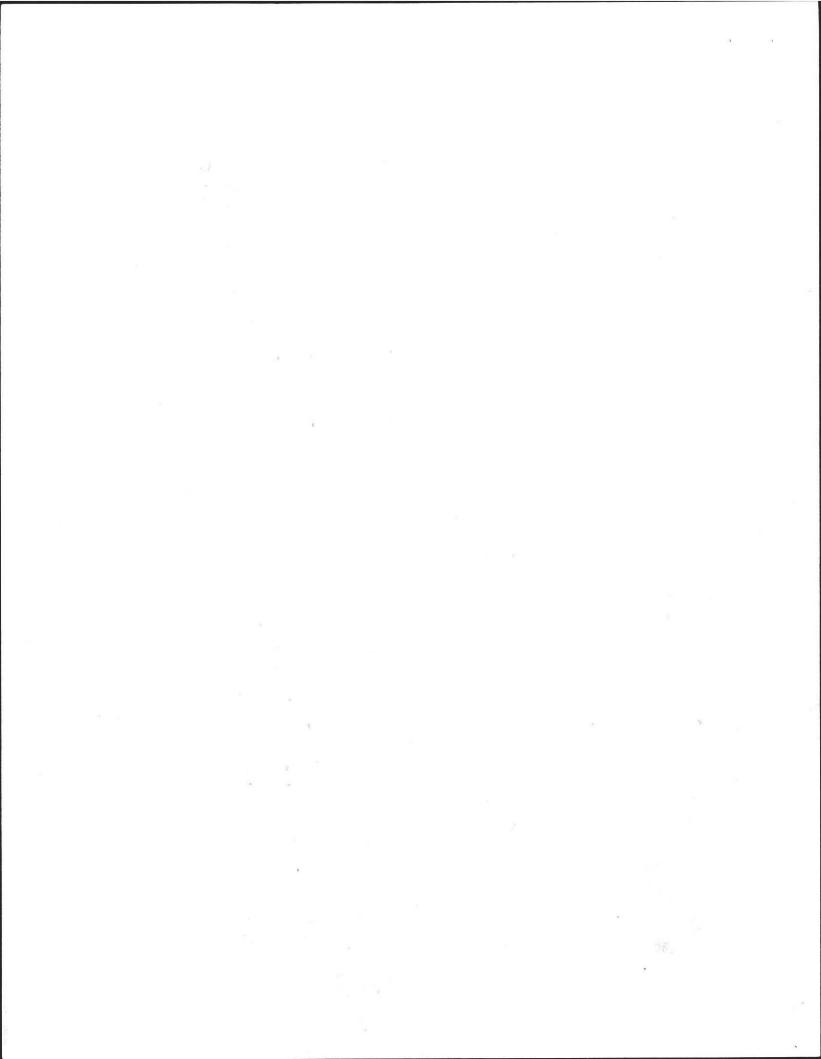


	270
FORM 11: Soil Evaluation Form NO:	e 400 1663
Commonwealth of Massachusetts Town of <u>Ankern</u> <u>Soil Suitability Assessment : On-Site Sewage Disposal</u> Performed By: <u>B. II Scurto</u> Date: <u>8/06/03</u> Witnessed By: <u>Doce Portugue</u>	Determination: Seasonal High Water Table Methods Used:
Witnessed By: Dade Marting Location Address of: Owner's Name: EMMET Lot # Address of: BARCALOW JEIF HILL RJ New Construction C Repair C	Depth observed standing in observation hole inches Depth weeping from side of observation hole inches Depth to soil mottles inches Ground water adjustment feet Index Well No Reading Date Index Well Level Adjustment factor Adjusted ground water level
Office Review	Depth of Naturally Occurring Previous Material
Published Soil Survey Available? No Q Yes Q Year Published Publication Scale Soil Map Unit Drainage Class Soil Limitations	Does at least four feed of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system?
Surficial Geologic Report Available? No D Yes D Year Published Publication Scale Geologic Material (map unit) Landform	If not, what is the depth of naturally occurring previous material?
Flood Insurance Rate Map: Above 500 year flood boundary? No D Yes D Within 500 year flood boundary? No D Yes D Within 100 year flood boundary? No D Yes D	I certify that on (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017.
Wetland Area: National Wetland Inventory Map (map unit) Wetlands Conservancy Program Map (map unit)	Signature Date
Current Water Resource Conditions (USGS): month Range: Above Normal Q Normal Q Below Normal Q	
Other Reference Reviewed:	



27 ELF HUI Rd

On-Site Review	On-Site Review
Deep Hole Number Date: 8/6/03 Time 9 Am Weather PA, 2 PT- Clevely Sta	Deep Hole Number Date: Time Weather
Location (identify on site plan) Land Use Partice Slope (%) 2 -3 Surface Stone Kayle	Location (identify on site plan) Slope (%) Land Use Slope (%)
Land Use Psycholik Slope (%) 2-3	Land Use Slope (%)
Surface Stone Klakle	Surface Stone
Vegetation: Law N	Vegetation:
Landform:	Landform:
Position on Landscape (sketch on back)	Position on Landscape (sketch on back)
Distances from:	Distances from:
Open Water Body <u><i>lef</i></u> feet Drainageway <u><i>lef</i></u> feet Property Line <u><i>46</i></u> feet	Open Water Body feet Drainageway feet
Possible Wet Ares // feet Property Line 46 feet	Possible Wet Ares feet Property Line feet
Drinking Water Well feet Other	Drinking Water Well feet Other
DEEP OBSERVATION HOLE LOG	DEEP OBSERVATION HOLE LOG
depth from soil horizon soil texture soil color soil mottling other	depth from soil horizon soil texture soil color soil mottling other
surface (USDA) (Munsel) (structure, stones, boulders) (inches) Consistency, % gravel	surface (USDA) (Munsel) (structure, stones, boulders) (inches) Consistency, % gravel
8 AP S/c 14x Somequal 30 Fill ICYR TBlack-pp	F 4 5/c
3.2	
30 Fill 1010 TBlack- EP	30 E.11
30 10/R	
100 C. Long 4/2 loth 2073974000 Smart 107 5-8 2+75066/- 120 C2 LONDAY 1072 5" 120 DARSING	1 e a l
100 CI Gomy COTL do righted	C) Ci lana
100 Smer Vor 5-8 2006/1	Lower
Stace 6/ hall to boit	Chuld
C. MARY IN PARTA PARSIDE	SHALL
120 2 CAMY OTA S "	
SANDE STY 30 1070 gande	USE AS Park
	. Alla
30 Fill SIC 3.2 Somegrad	
Parent Material (geologic) 007 00 AS 7	Parent Material (geologic)
Depth to Bedrock	Depth to Bedrock
Depth to Groundwater :	Depth to Groundwater :
Standing Water in the Hole	Standing Water in the Hole
Weeping from Pit Face //	Weeping from Pit Face
Estimated Seasonal High Water 30	Estimated Seasonal High Water
	,



FORM 12: Percolation Test Location Adrress or Lot #

27 EIFHILL RL

Commonwealth of Massachusetts Town of Am here

	PERCOLATION TES	ST *
DATE	7/31/03	TIME:
Observation Hole #	Ì	
Depth of Perc	C.3 "	
Start Pre-soak	14	9:53
End Pre-soak	gigh r	9.56 11"
Time at 12"	15 min	Gr. 78 10
Time at 9"		10,00 9
Time at 6"	120	10:02 5
Time (9"-6")		10:05 7
Rate Min./Inch	(4)	10412 6

*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed 🗆

Site failed D

Sicurta Performed by Nord ZARRINSH Witnessed by

Comments:

4 Bedwoon S No G/R

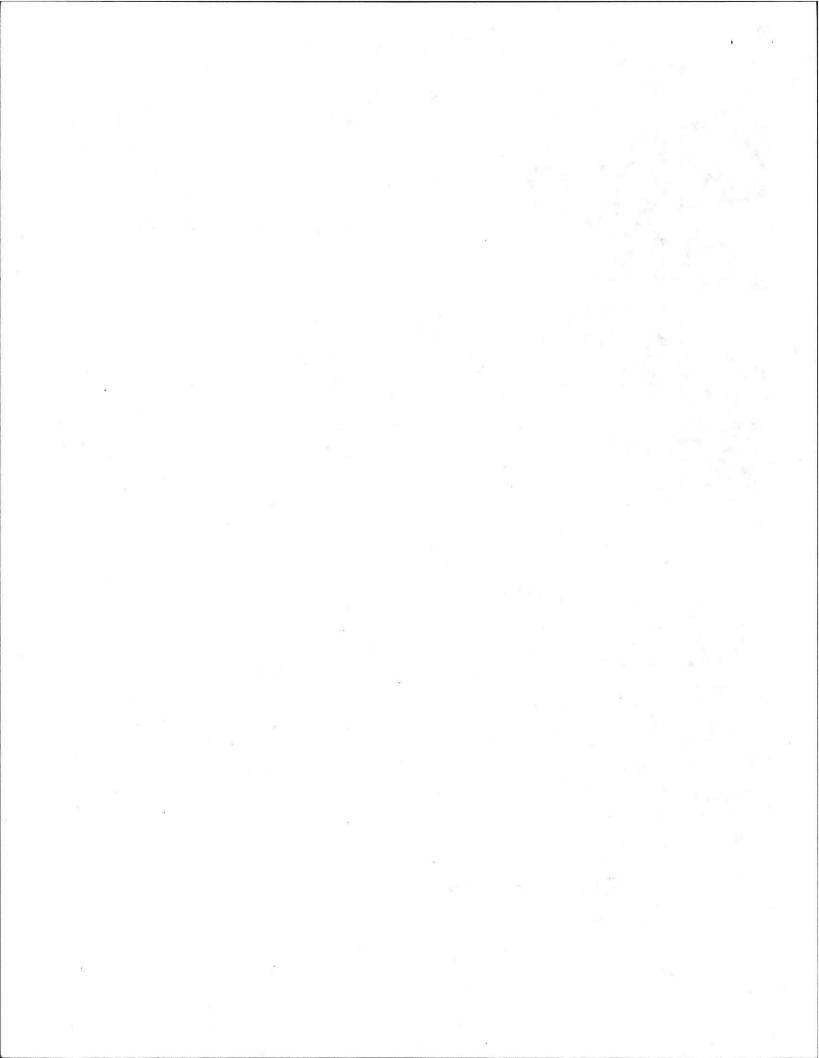
1

27





27 Elf Hill Rd Emmet C. Barcalow Bill sieruta (2)

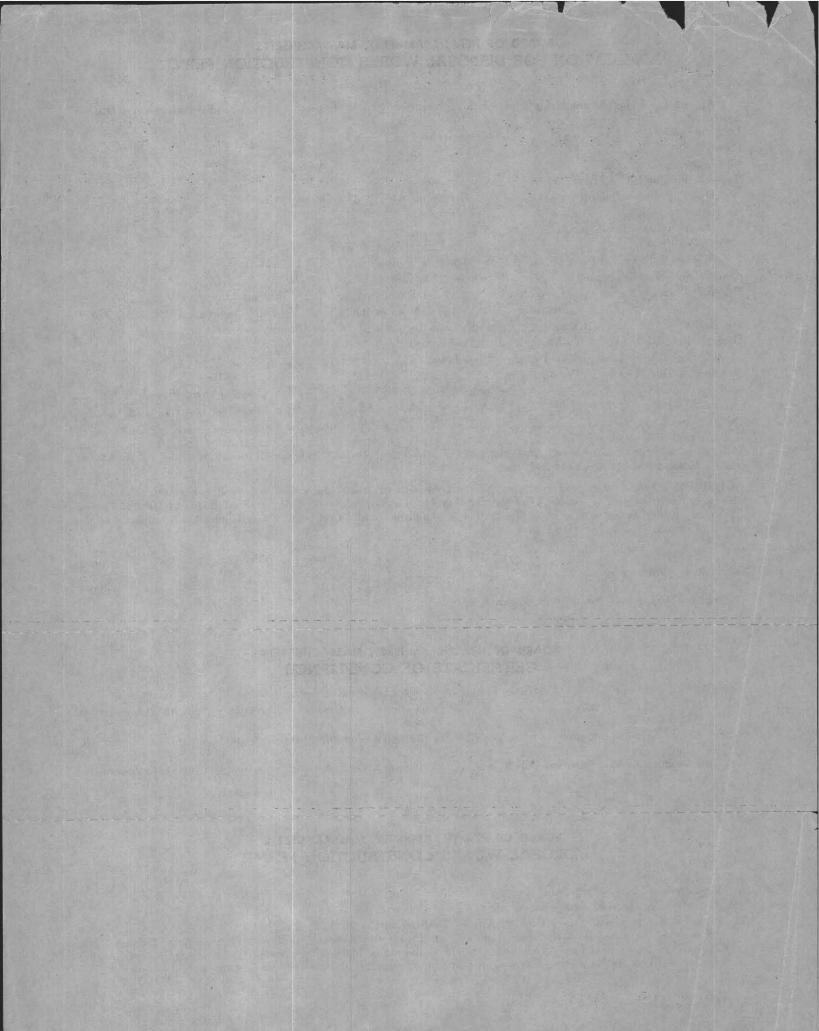




27 Elf Hill Rd Emmet C. Barcalow Bill Sieruta



BOARD OF HEALTH, AMHERST, MASSACHUSETT	re
APPLICATION FOR DISPOSAL WORKS CONSTRUCT	
No. $\frac{69-24}{Date}$ Date $\frac{12/23/69}{Fee}$ Fee $\frac{$3.00}{Date}$ Date Rec'd. $\frac{12/23/69}{C}$	
Application is hereby made for a permit to Construct (χ) or Repair ()	an Individual Sewage Disposal
Application is necesy made for a permit to construct (x) of neparit (y) System at: Location Address Description Owner JOSeph P. Norman, Jr. Contractor Same Type of Building Dwelling-Garrison Dwelling-No. of Bedrooms 4 Description State Other No. of persons	256 L.N. 256
Location—Address Joseph P. Norman, Jr. 79	School St., Agawam
Contractor Same Address	same
Type of Building Dwelling-Garrison Dimension 25.8x38; Garage 22	x22 Lot 150'Frontage; 160'Rear
Dwelling-No. of Bedrooms 4 Expansion Attic HOX Garbage Gr	inder Yes R.212.55; L.221.03
Other No. of persons Showers (
Other Catures	
Town Water? <u>yes</u> Type of Well	
Design Flow 25 gallons per person per day. Total daily flow 600 ga Septic Tank—Liquid capacity 1250 gallons Dimensions: L W Disposal Trench—No. 3 Width Total Length 150 Total	allons
Septic Tank-Liquid capacity 1250 gallons Dimensions: LW	D
Disposal Trench-No Width Total Length Total	l leaching area sq. ft.
Disposal Bed—No Diameter Depth below inlet To	otal leaching area sq. it.
Dry Well-No Diameter Depth below inlet Dimens	sions: x x
Other: Distribution box () No Dosing tank () (Depth of Soil Line Below finished grade at foundation Percolation Test Results Performed by Test Pit No. 1 minutes per inch Test Pit No. 2 minutes per inch	1
Percolation Test Results Performed by) Date
Test Pit No. 1 minutes per inch	Depth of Test Pit
Test Pit No. 2 minutes per inch	Depth of Test Pit
Description of Soil Depth to Ground Water	
Description of Soil Depth to Ground Water Will disposal area be filled? Cut down?	
(On reverse side or separate sheet, show plot plan with building. Include dimension	ns, distances from all boundaries.
Show location of wells, streams, ledge, large trees, etc.)	
AGREEMENT: The undersigned agrees to construct the aforedescribed individual	
ance with the provisions of Article XI of the Sanitary Code and regulations of the dersigned further agrees not to place the system in operation until a Gertificate of	
hoard of health	12 2 2 10
and a <u>V. I. Moleman</u>	$\frac{1}{1} \frac{1}{1} \frac{1}{2} \frac{1}$
Application Approved by CEAnable Owner or bu	1-15-70
Application Approved by	date
Application Disapproved for the following reasons:	
BOARD OF HEALTH, AMHERST, MASSACHUSET	rs
CERTIFICATE OF COMPLIANCE	
THIS IS TO CERTIFY, That the individual Sewage Disposal System ins	stalled () or repaired () by
has been constructed in a	accordance with the provisions of
INSTALLER Article XI of the State Sanitary Code as described in the application for Disposa	l Works Construction Permit No.
The issuance of this certificate shall not be construed as a guarantee that the	e system will function satisfactorily.
DATE I	nspector
BOARD OF HEALTH, AMHERST, MASSACHUSETT	
DISPOSAL WORKS CONSTRUCTION PER	AMIT
No. 01-21 Aberealle	
Permission is hereby granted realized to	construct () or repair () an
No. <u>69-24</u> Permission is hereby granted <u>J.P. Molemetri Se</u> to Individual Sewage Disposal System at <u>Lot 256</u> <u>Lie Hui</u> <u>Ro</u> as shown on the application for Disposal Works Construction Permit No. 69-	24
as shown on the application for Disposal Works Construction Permit No. 69- This permit is issued with the understanding that future alterations or additi	
permit shall not be construed as permission to create or maintain any sewage nuis	sance and in the issuance of this
permit the Board of Health assumes no responsibility for the future operation or n	naintenance of the system.
17 12 10	CENh.l.
DATE TA -JJ 64	Board of Health
1-19-70	



27 ELL Hel

ENVIRONMENTAL FIELD SERVICES, INC. PO BOX 518 LEEDS, MA 01053 (413) 586-7200

February 10, 1997

Mr. John Banner 27 Elf Hill Road Amherst, MA 01002

Re: Follow-up inspection of repairs to Septic System at 27 Elf Hill Road, Amherst, MA.

Dear Mr. Banner,

This letter shall serve as confirmation of repairs made to the Septic Tank, the D-Box and some of the Piping at the above referenced location. As indicated on the *Subsurface Sewage Disposal System Inspection Form*, the broken baffle in the Septic Tank, and the structurally unsound D-box resulted in a **Conditional Pass** finding. It was also recommended that the first two feet (2') of Orangeburg pipe from the D-Box to the S.A.S. be replaced with 4" dia. SDR 35 pipe.

Following the initial inspection on January 13, 1997, Karl's Excavation Inc., was contracted to perform the recommended repairs to bring the Septic System into passing compliance.

Due to the repairs performed by Karl's Excavating Inc., the Septic System at 27 Elf Hill Road is in good working condition and therefore, **Passes** the Title 5 Inspection. This letter should be attached to the original inspection dated, January 14, 1997 and shall serve as confirmation of repair work performed.

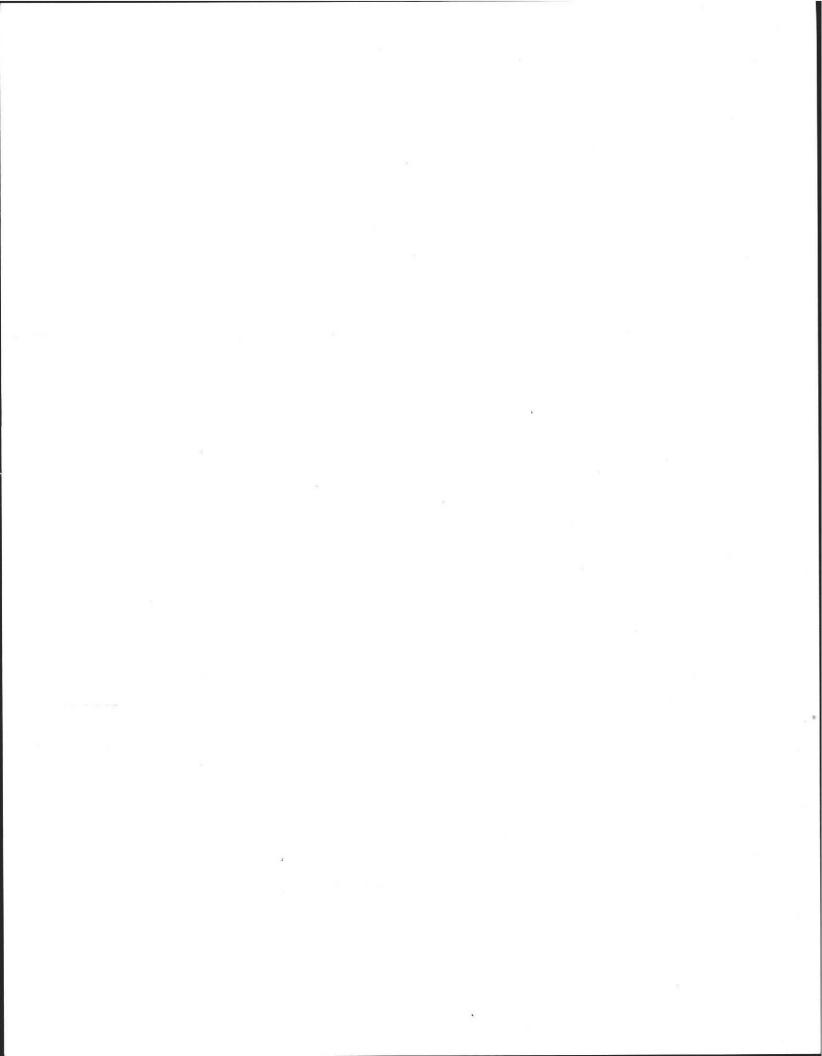
If you have any questions please do not hesitate to call.

Sincerely yours,

Dan Nitzsche Certified Title 5 System Inspector

RECEIVED FEB 1 2 1997

cc: Amherst Board of Health



ENVIRONMENTAL FIELD SERVICES, INC. PO BOX 518 LEEDS, MA 01053 1-413-586-7200

January 14, 1997

Mr. John Banner 27 Elf Hill Road Amherst, MA 01002

Re: Septic System Inspection at 27 Elf Hill Road, Amherst, MA.

Dear Mr. Banner,

Enclosed please find a copy of my report for the referenced inspection. I have forwarded copies of the report to the Amherst Board of Health per the requirements of 310 CMR 15.300.

Based on the results of my inspection in accordance with 310 CMR 15.300, I have concluded that the system **conditional passes** at this time.

Specifically, at the time of the inspection I found that the septic tank outlet baffle has separated from the cover and should be replaced with a 4" dia. PVC Tee (also, add a section of SDR 35 pipe to extend 14" below the outlet invert). In addition, the Distribution Box (D-Box) was structurally unsound and should be replaced. When the D-Box is replaced I would recommend that the first 2' of the existing perforated Orangeburg leaching lines be replaced with solid pipe (SDR 35 min.). This will help to move effluent farther down the leaching lines, utilizing more of the leaching area.

The Septic Tank, Distribution Box and Leaching Field locations have been clearly identified in the "As-Built" drawing on page 9 of the Septic System Inspection Report.

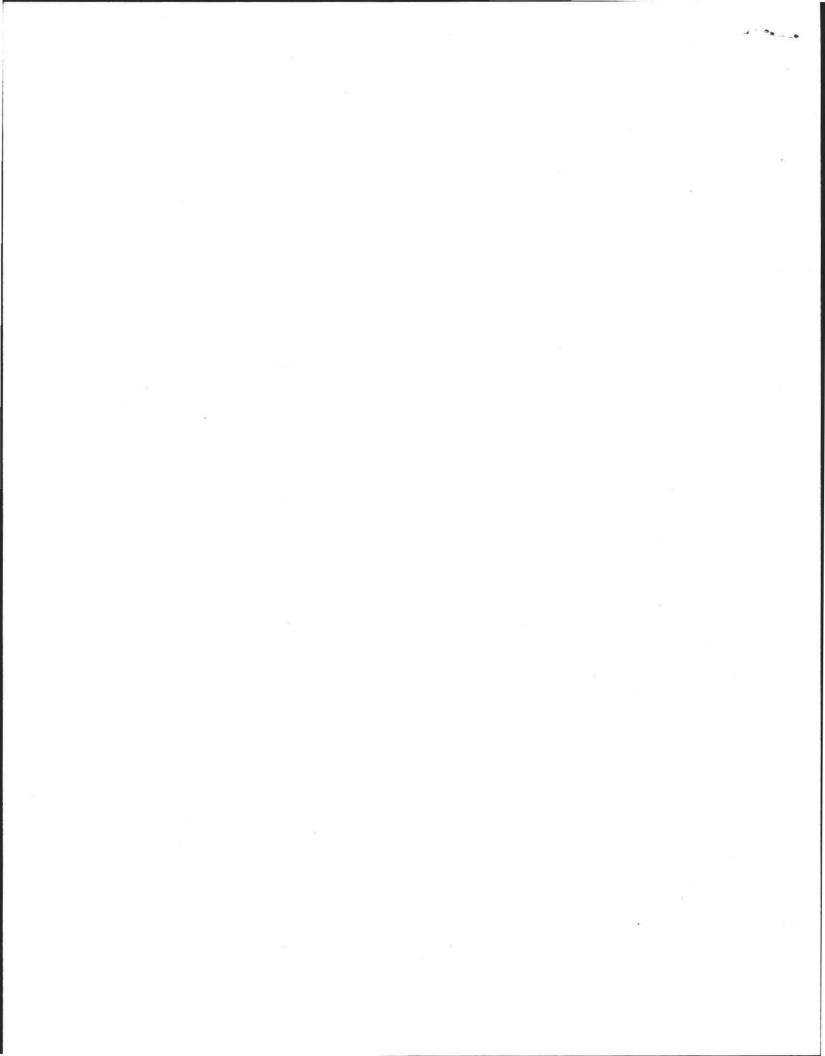
Please call if you have any questions, and thank you for this opportunity to be of service.

Sincerely yours,

an Tityche

Dan Nitzsche Certified Title 5 System Inspector

cc: Amherst Board of Health





Commonwealth of Massachusetts Executive Office of Environmental Affairs

Department of Environmental Protection

William F. Weld Governo Argeo Paul Cellucci L. Governor

Trudy Coxe Secretary David B. Struhs Commissioner

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART A CERTIFICATION

Property Address: 27 ELF HILL ROAD , AMHERST Date of Inspection: 1.13.97 Name of Inspector. DAN NITZSCHE Company Name, Address and Telephone Number:

Address of Owner. (If different)

ENVIRONMENTAL FIELD SERVICES, INC., PO BOX 518, LEEDS, MA 01053 (413) 586-7200

CERTIFICATION STATEMENT

I certify that I have personally inspected the sewage disposal system at this address and that the information reported below is true, accurate and complete as of the time of inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. The system:

	Passes
X	Conditionally Passes
	Needs Further Evaluation By the Local Approving Authority
	P 11

Inspector's Signature: Dan Tityche

Date: 1.14.97

The System Inspector shall submit a copy of this inspection report to the Approving Authority within thirty (30) days of completing this inspection. If the system is a shared system or has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the Department of Environmental Protection.

The original should be sent to the system owner and copies sent to the buyer, if applicable and the approving authority.

INSPECTION SUMMARY:

Check A, B, C, or D:

AI SYSTEM PASSES:

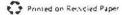
I have not found any information which indicates that the system violates any of the failure criteria as defined in 310 CMR 15.303. Any failure criteria not evaluated are indicated below.

B) SYSTEM CONDITIONALLY PASSES:

One or more system components need to be replaced or repaired. The system, upon completion of the replacement or repair, passes

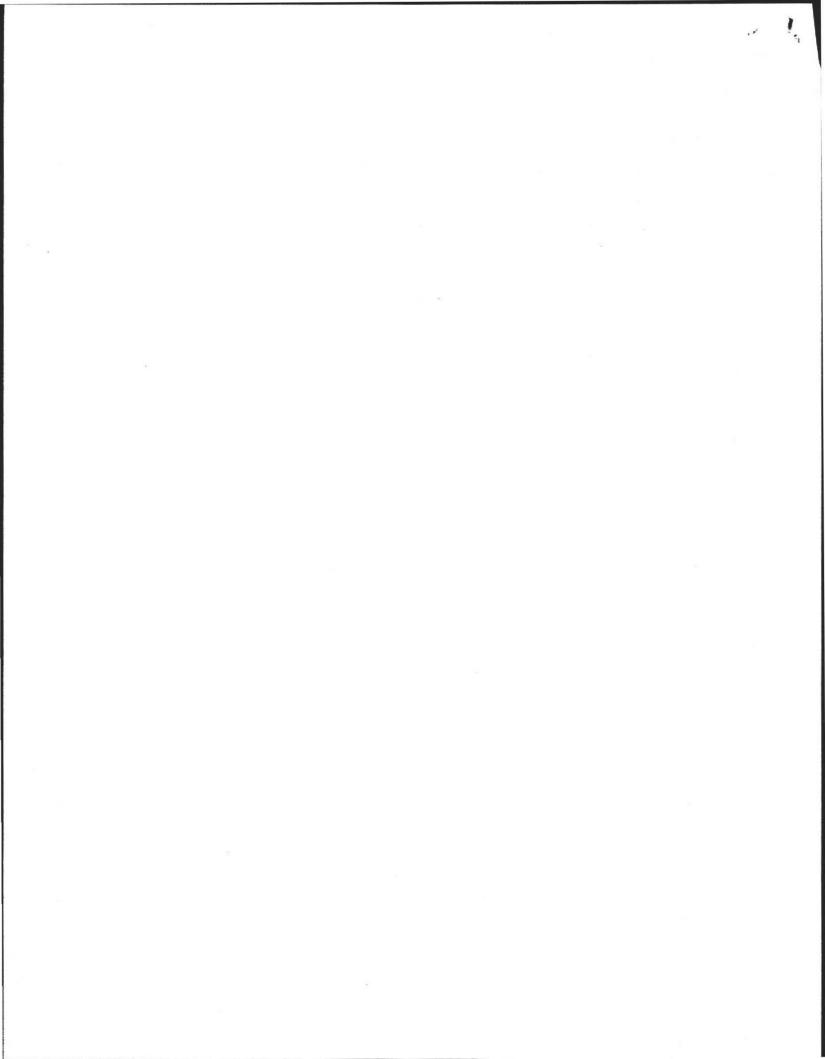
Indicate yes, no, or not determined (Y, N, or ND). Describe basis of determination in all instances. If "not determined", explain why not) The septic tank is metal, cracked, structurally unsound, shows substantial infiltration or exfiltration, or tank failure is imminent. The system will pass inspection if the existing septic tank is replaced with a conforming septic tank as approved by the Board of Healthreplaced structurally unsound should be and 15 D-BOX :evised 11/03/95)

One Winter Street
 Boston, Massachusetts 02108



FAX (617) 556-1049

Telephone (617) 292-5500



Property Address: 27 ELF HILL ROAD, AMHERST Owner: JCHN BANNER Date of Inspection: 1.13.97

B] SYSTEM CONDITIONALLY PASSES (continued)

N

N

Sewage backup or breakout or high static water level observed in the distribution box is due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. The system will pass inspection if (with approval of the Board of Health):

_____ broken pipe(s) are replaced _____ obstruction is removed

distribution box is levelled or replaced

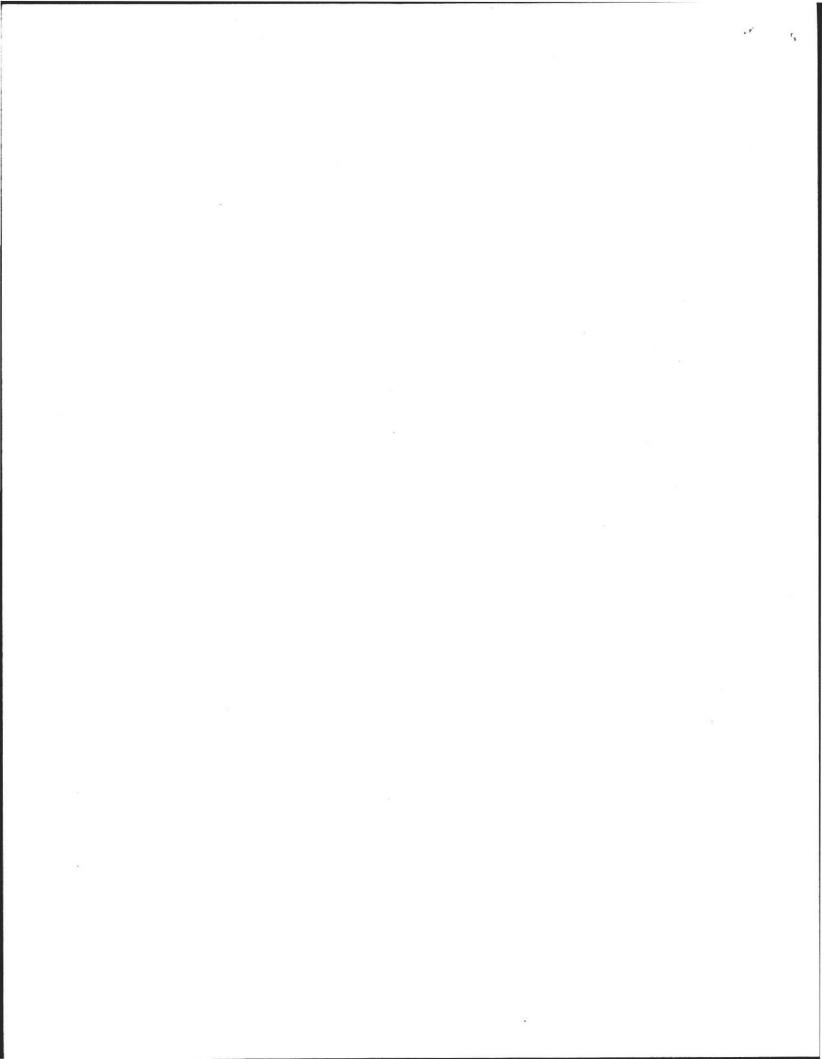
The system required pumping more than four times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health):

- broken pipe(s) are replaced
 - obstruction is removed

C] FURTHER EVALUATION IS REQUIRED BY THE BOARD OF HEALTH:

_ Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect the public health, safety and the environment.

- 1) SYSTEM WILL PASS UNLESS BOARD OF HEALTH DETERMINES THAT THE SYSTEM IS NOT FUNCTIONING IN A MANNER WHICH WILL PROTECT THE PUBLIC HEALTH AND SAFETY AND THE ENVIRONMENT:
 - Cesspool or privy is within 50 feet of a surface water
 - Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh.
- 2) SYSTEM WILL FAIL UNLESS THE BOARD OF HEALTH (AND PUBLIC WATER SUPPLIER, IF APPROPRIATE) DETERMINES THAT THE SYSTEM IS FUNCTIONING IN A MANNER THAT PROTECT THE PUBLIC HEALTH AND SAFETY AND THE ENVIRONMENT:
 - ____ The system has a septic tank and soil absorption system and is within 100 feet to a surface water supply or tributary to a surface water supply.
 - ____ The system has a septic tank and soil absorption system and is within a Zone I of a public water supply well.
 - ____ The system has a septic tank and soil absorption system and is within 50 feet of a private water supply well.
 - The system has a septic tank and soil absorption system and is less than 100 feet but 50 feet or more from a private water supply well, unless a well water analysis for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm.
- 3) OTHER



Property Address: 27 ELF HILL ROAD, AMHERST Owner: JOHN BANNER Date of Inspection: 1.13.97

D] SYSTEM FAILS:

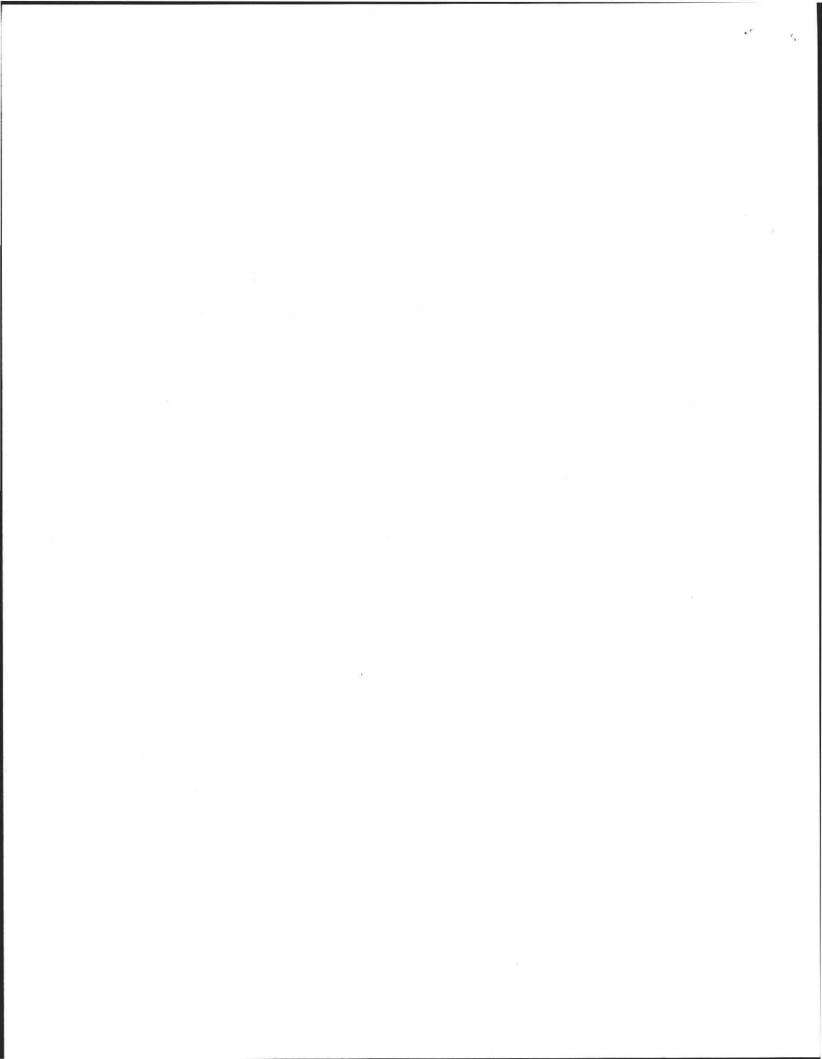
- ____ I have determined that the system violates one or more of the following failure criteria as defined in 310 CMR 15.303. The basis for this determination is identified below. The Board of Health should be contacted to determine what will be necessary to correct the failure.
 - _____ Backup of sewage into facility or system component due to an overloaded or clogged SAS or cesspool.
 - ____ Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool.
 - _____ Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool.
 - Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow.
 - ____ Required pumping more than 4 times in the last year <u>NOT</u> due to clogged or obstructed pipe(s). Number of times pumped _____
 - ____ Any portion of the Soil Absorption System, cesspool or privy is below the high groundwater elevation.
 - ____ Any portion of a cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.
 - Any portion of a cesspool or privy is within a Zone I of a public well.
 - Any portion of a cesspool or privy is within 50 feet of a private water supply well.
 - Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. If the well has been analyzed to be acceptable, attach copy of well water analysis for coliform bacteria, volatile organic compounds, ammonia nitrogen and nitrate nitrogen.

E] LARGE SYSTEM FAILS:

The following criteria apply to large systems in addition to the criteria above:

- The system serves a facility with a design flow of 10,000 gpd or greater (Large System) and the system is a significant threat to public health and safety and the environment because one or more of the following conditions exist:
 - the system is within 400 feet of a surface drinking water supply
 - the system is within 200 feet of a tributary to a surface drinking water supply
 - the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area (IWPA) or a mapped Zone II of a public water supply well)

The owner or operator of any such system shall bring the system and facility into full compliance with the groundwater treatment program requirements of 314 CMR 5.00 and 6.00. Please consult the local regional office of the Department for further information.



SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART B CHECKLIST

Property Address: 27 ELF HILL ROAD, AMHERST Owner: JOHN BANNER Date of Inspection: 1.13.97

Check if the following have been done:

Pumping information was requested of the owner, occupant, and Board of Health.

X None of the system components have been pumped for at least two weeks and the system has been receiving normal flow rates during that period. Large volumes of water have not been introduced into the system recently or as part of this inspection.

1/A As built plans have been obtained and examined. Note if they are not available with N/A.

X The facility or dwelling was inspected for signs of sewage back-up.

Y The system does not receive non-sanitary or industrial waste flow

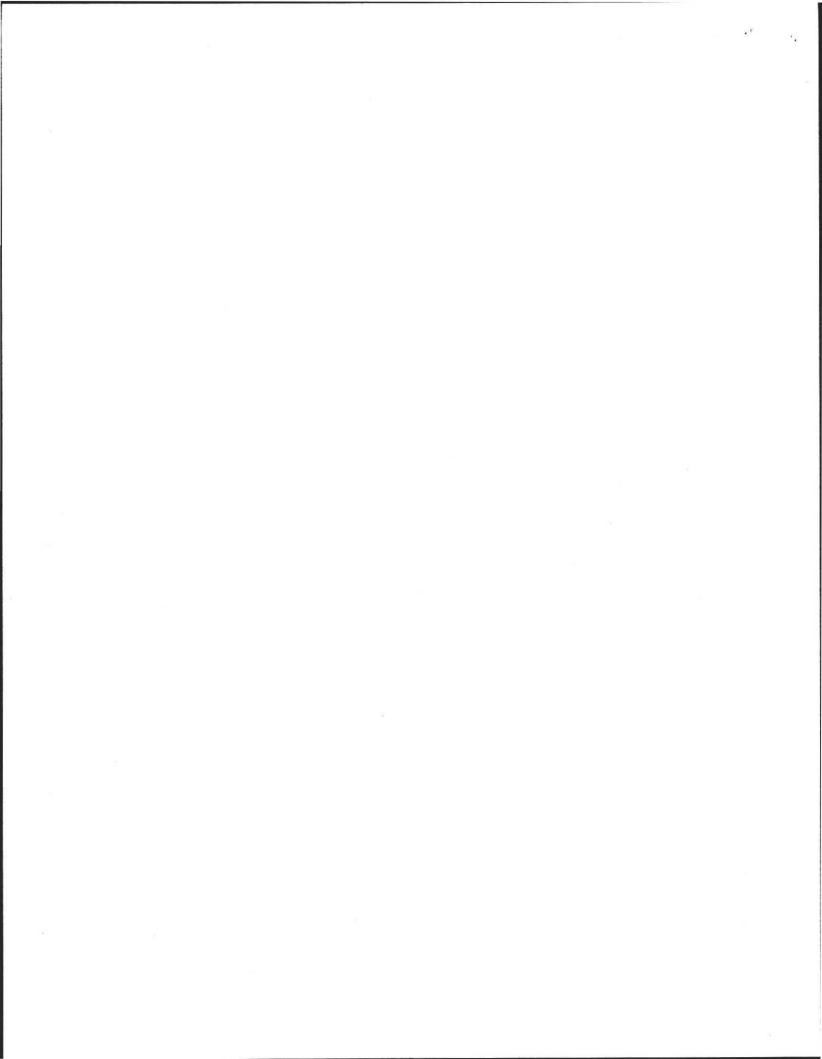
X The site was inspected for signs of breakout.

M All system components, excluding the Soil Absorption System, have been located on the site.

The septic tank manholes were uncovered, opened, and the interior of the septic tank was inspected for condition of baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge, depth of scum.

The size and location of the Soil Absorption System on the site has been determined based on existing information or approximated by non-intrusive methods.

The facility owner (and occupants, if different from owner) were provided with information on the proper maintenance of Sub-Surface Disposal System.

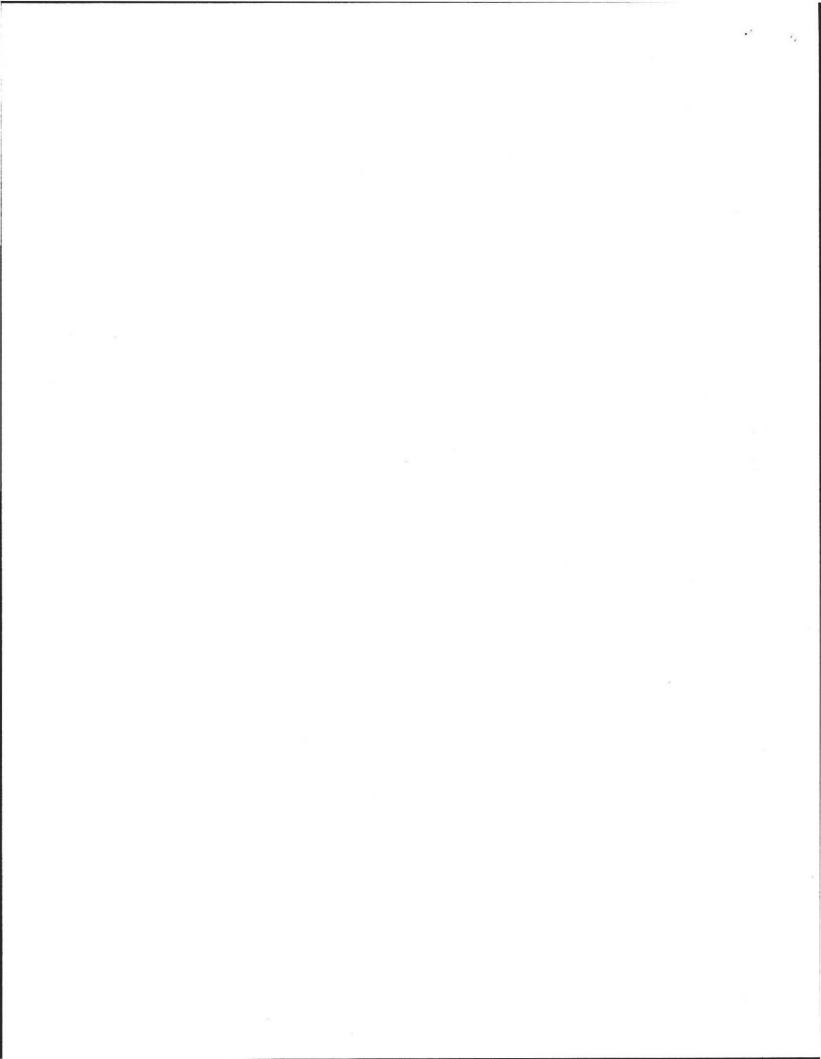


Property Address: 27 ELF HILL ROAD, AMHERST	
Owner: JDHN BANNER Date of Inspection:	
1.13.97	
FLOW CONDITIONS	
RESIDENTIAL: Design flow: UNK gallons	
Number of bedrooms: 4	3.4
Number of current residents: 2	
Garbage grinder (yes or no): Y	
Laundry connected to system (yes or no):	
Seasonal use (ves or no).	
Water meter readings, is available: Current reading (1:13.97) 274 872 4+3	
Last date of occupancy: present	
COMMERCIAL/INDUSTRIAL:	
Type of establishment:	· · · ·
Design flow:gallons/day	
Grease trap present: (yes or no)	
Industrial Waste Holding Tank present: (yes or no)	
Non-sanitary waste discharged to the Title 5 system: (yes or no)	
Water meter readings, if available:	
Last data of common and	
Last date of occupancy:	
OTHER: (Describe)	,
Last date of occupancy:	
GENERAL INFORMATION	8
PUMPING RECORDS and source of information: 1994 and 1997 by owner	
System pumped as part of inspection: (yes or no) \underline{V}	
If yes, volume pumped: <u>1200</u> gallons	
Reason for pumping: TO INSPECT TANK	
TYPE OF SYSTEM	
TYPE OF SYSTEM	
Septic tank/distribution box/soil absorption system	
Septic tank/distribution box/soil absorption system Single cesspool	
Septic tank/distribution box/soil absorption system Single cesspool Overflow cesspool	
Septic tank/distribution box/soil absorption system Single cesspool Overflow cesspool Privy	,
Septic tank/distribution box/soil absorption system Single cesspool Privy Shared system (yes or no) (if yes, attach previous inspection records, if any)	
Septic tank/distribution box/soil absorption system Single cesspool Overflow cesspool Privy	

Sewage odors detected when arriving at the site: (yes or no) $\underline{\mathcal{NO}}$

(revised 11/03/95)

۲.,



Property Address: 27 ELF HILL ROAD, AMHERST OWDER: JOHN BANNER Date of Inspection: 1.13.97

SEPTIC TANK: X (locate on site plan) 1250 JAL.

Depth below grade: $19'' \pm$

Material of construction: X concrete __metal __FRP __other(explain)

Dimensions: 108" X 100" X 60"

Sludge depth: 7" Distance from top of sludge to bottom of outlet tee or baffle: BAFFLE MISSING Scum thickness: 6"

Distance from top of soum to top of outlet tee or baffle: <u>BAFFLE</u> MISSING. Distance from bottom of soum to bottom of outlet tee or baffle: <u>BAFFLE</u> MISSING.

Comments:

(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.) OUTLET BAFFLE MISSING, STRUCTURAL INTEGRITY OF TANK - GOOD, NO EVIDENCE OF LEAKAGE

GREASE TRAP:

(locate on site plan)

Depth below grade:_____ Material of construction: ____concrete ____metal ___FRP ___other(explain)

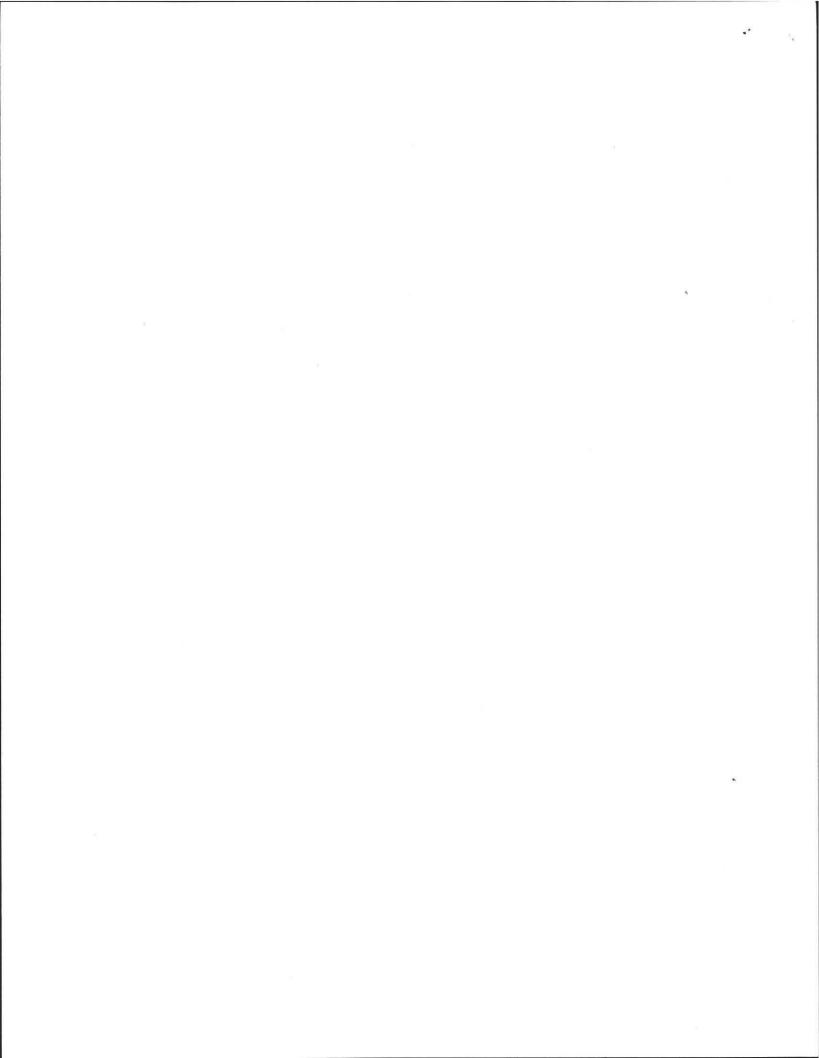
Dimensions:

Scum thickness:____

Distance from top of scum to top of outlet tee or baffle:_____ Distance from bottom of scum to bottom of outlet tee or baffle:

Comments:

(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.)



Property Address: 27 ELF HILL ROAD, ANHERST Owner: JOHN BANNER Date of Inspection: 1.13.97

TIGHT OR HOLDING TANK: AA

Depth below grade:_____ Material of construction: ____concrete ___metal ___FRP ___other(explain)

Dimensions:_______gallons Capacity:______gallons Design flow:_____gallons/day Alarm level:

Comments: (condition of inlet tee, condition of alarm and float switches, etc.)

Depth of liquid level above outlet invert: <u>D-Box</u> Fell Apart while Excavating Component. Comments: (note if level and distribution is equal, evidence of solids carryover, evidence of leakage into or out of box, etc.) <u>NO BACKFLOW WAS OBSERVED</u>, <u>Shill (not was family</u>) <u>NO BACKFLOW WAS OBSERVED</u>, <u>Shill (not was family</u>) <u>IN D-Box SumP-Most LIKELY FROM SURROUNDING SOIL INFILTRATING VIA</u> <u>Cracked D-Box Top & WALLS</u>.

PUMP CHAMBER: //A

DISTRIBUTION BOX: X

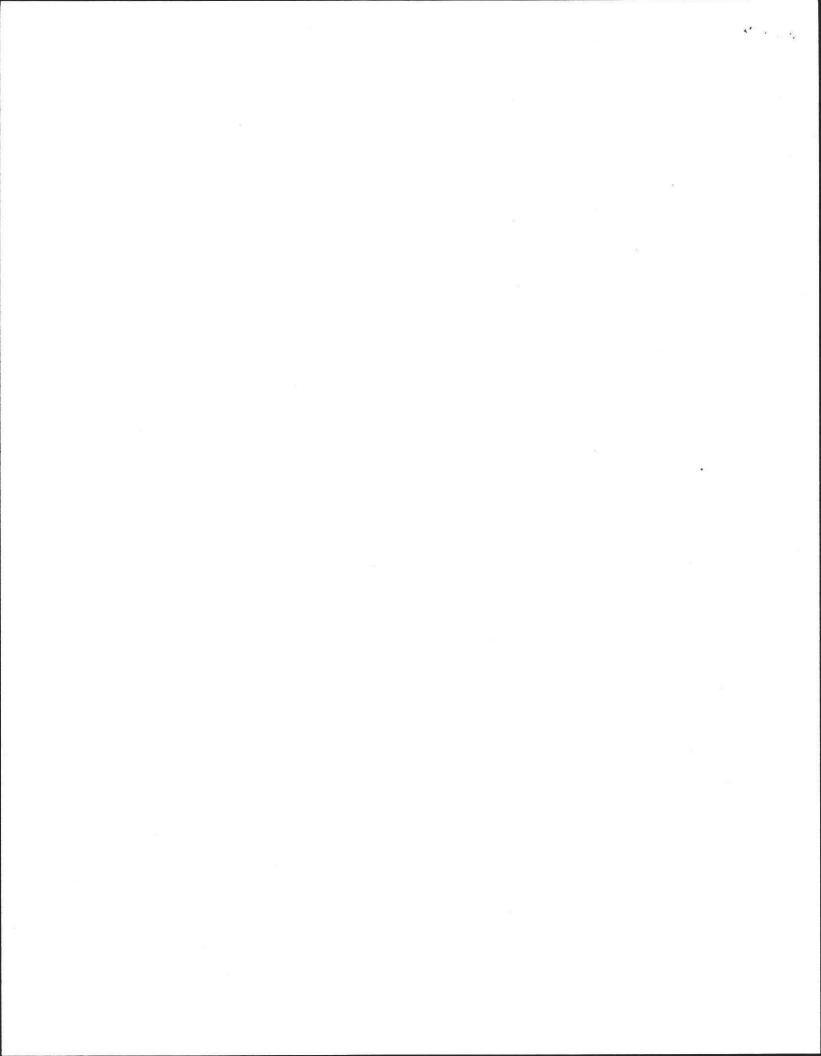
Pumps in working order:(yes or no)_____

Comments:

(note condition of pump chamber, condition of pumps and appurtenances, etc.)

(revised 11/03/95)

7



Property Address: 27 ELF HILL ROAD, JMHERST Owner: JOHN BANNER Date of Inspection: 1.13.97

SOIL ABSORPTION SYSTEM (SAS): X (locate on site plan, if possible; excavation not required, but may be approximated by non-intrusive methods)

If not determined to be present, explain:

Type:

leaching pits, number:_____ leaching chambers, number:_____ leaching galleries, number._____ leaching trenches, number, length:_____ leaching fields number, dimensions: <u>One</u> Field $\omega/2$ "Legs" (See 13.9) overflow cesspool, number:_____

Comments: (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.) NO SIGN OF HYDRAULIC FAILURE, VEGETATION APPEARS NORMAL W/ ONLY GRASS SPECIES. EFFLUENT WAS OBSERVED 8" below top of Stone in FIELD.

(locate on site plan)

Number and configuration:	
Depth-top of liquid to inlet invert:	
Depth of solids layer:	
Depth of scum layer:	
Dimensions of cesspool:	
Materials of construction:	
Indication of groundwater:	
inflow (cesspool must be pumped as part	of inspectio

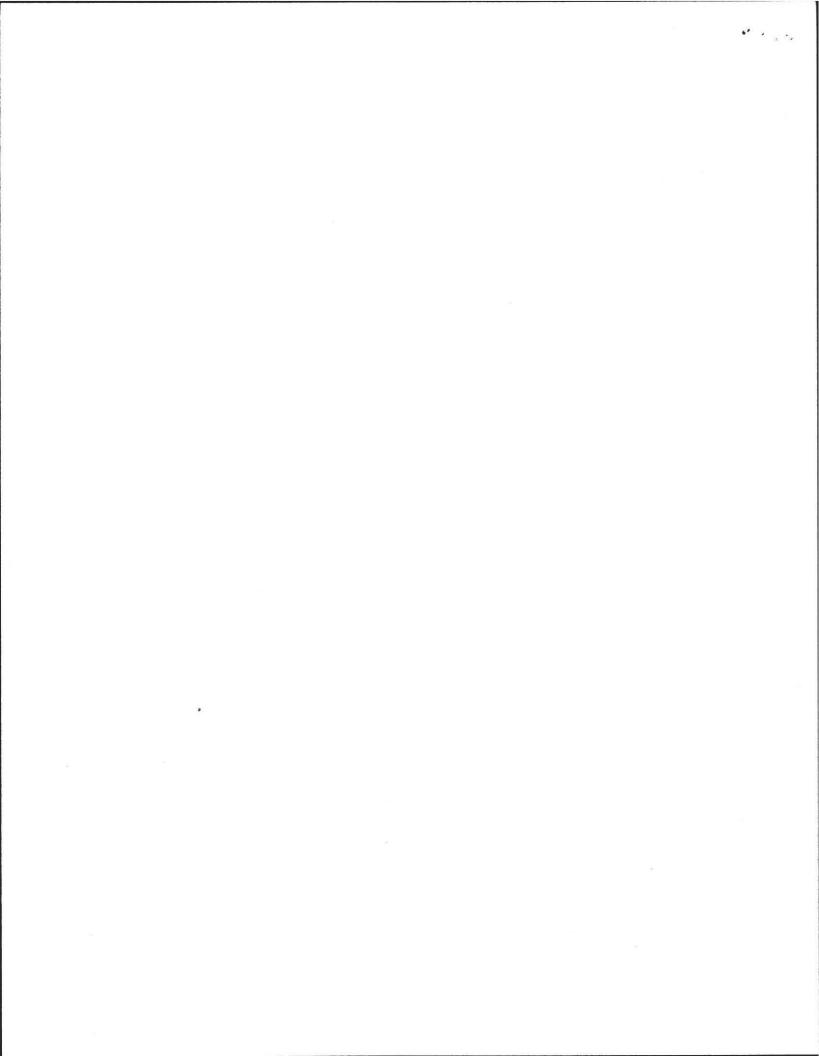
Comments: (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)

(locate on site plan)

Materials of construction:_

Depth of solids:______ Comments: (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.)_

Dimensions:



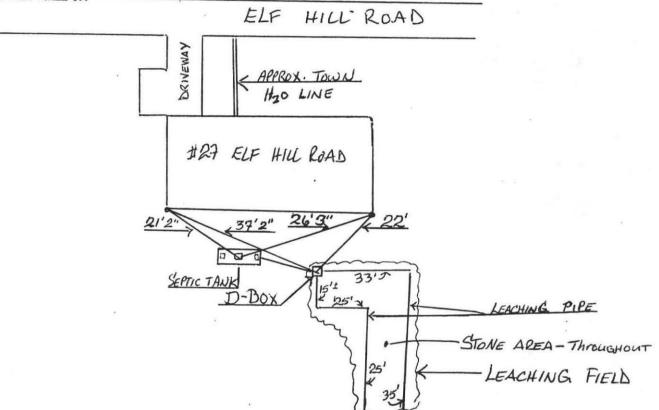
Property Address: 27 ELF HILL ROAD , AMHERST OWDER JOHN BANNER Date of Inspection: 1.13.47

SKETCH OF SEWAGE DISPOSAL SYSTEM:

. ..

include ties to at least two permanent references landmarks or benchmarks

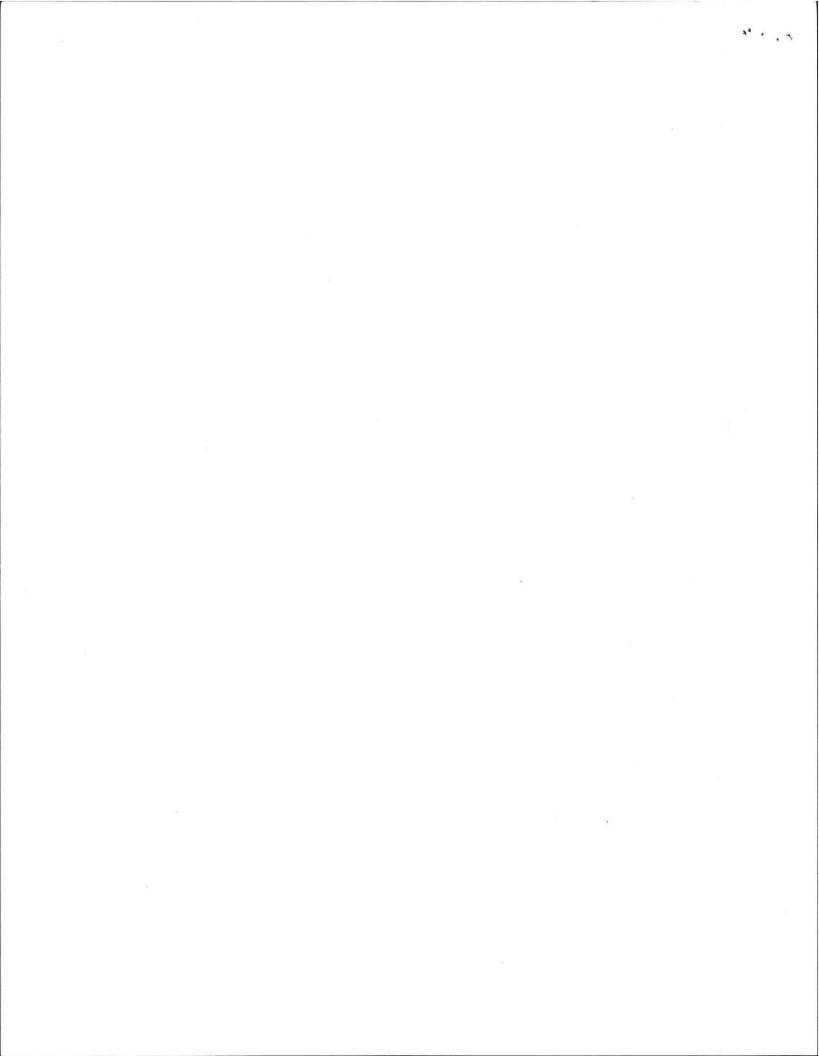
locate all wells within 100'-





DEPTH TO GROUNDWATER . 3 Depth to groundwater:___ feet OBSERVE method of determination or approximation: BORE HOLE UAS TO GROUNDWATER -ATER WAS OBSERVE 22" to Bottom of S.A.S) THIS 15 RELAL BOTTOM OF LEACHING FIETA ADDrav. (revised 11/03/95)

9



William J. Sieruta, P.E. 46 Upland Road Holyoke, MA. 01040

.

*

Board of Health Town Hall Boltwood Walk Amherst, MA. 01002 Attn: David Zarozinski

November 5, 2003

Subject: As Built Inspection Emmett Barcalow 27 Elf Hill Road Amherst, MA.

An "as built" inspection was completed for the subject septic system. The system is in compliance with 310 CMR 15.0 and local board of health regulations. If you need any additional information, please do not hesitate to contact me.

Very truly yours,

William J. Auruta PE,

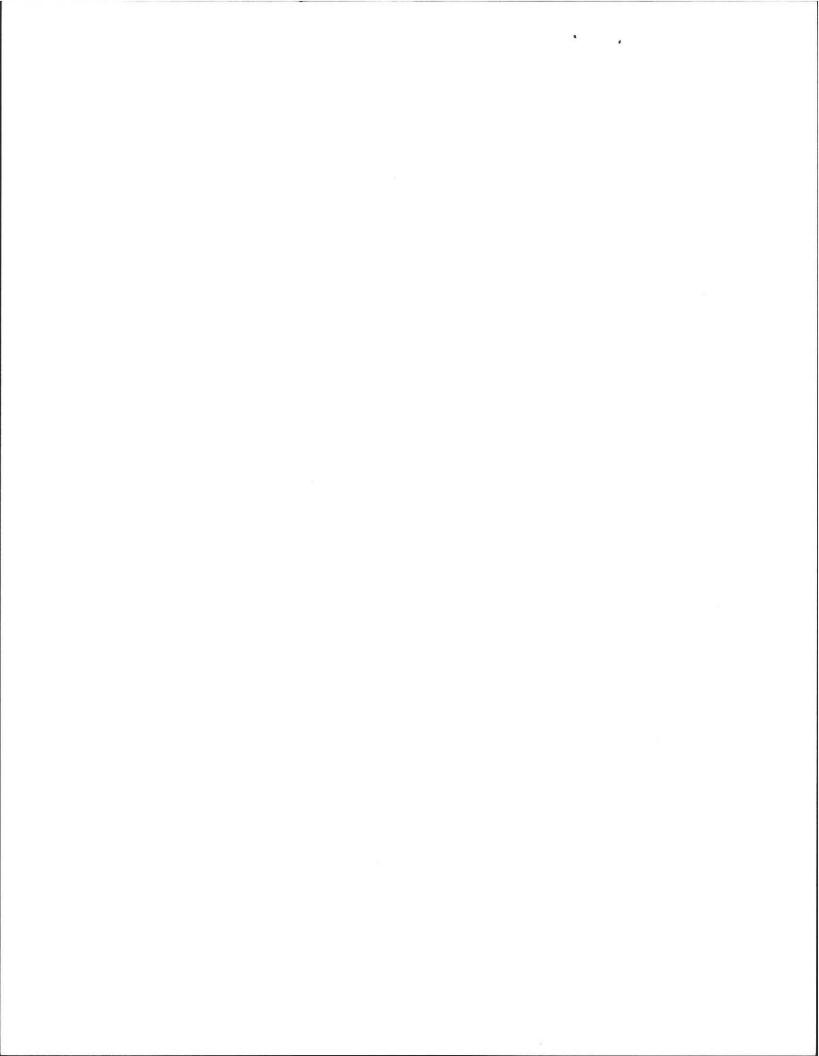
William J. Sieruta, P.E. (*MBS*)

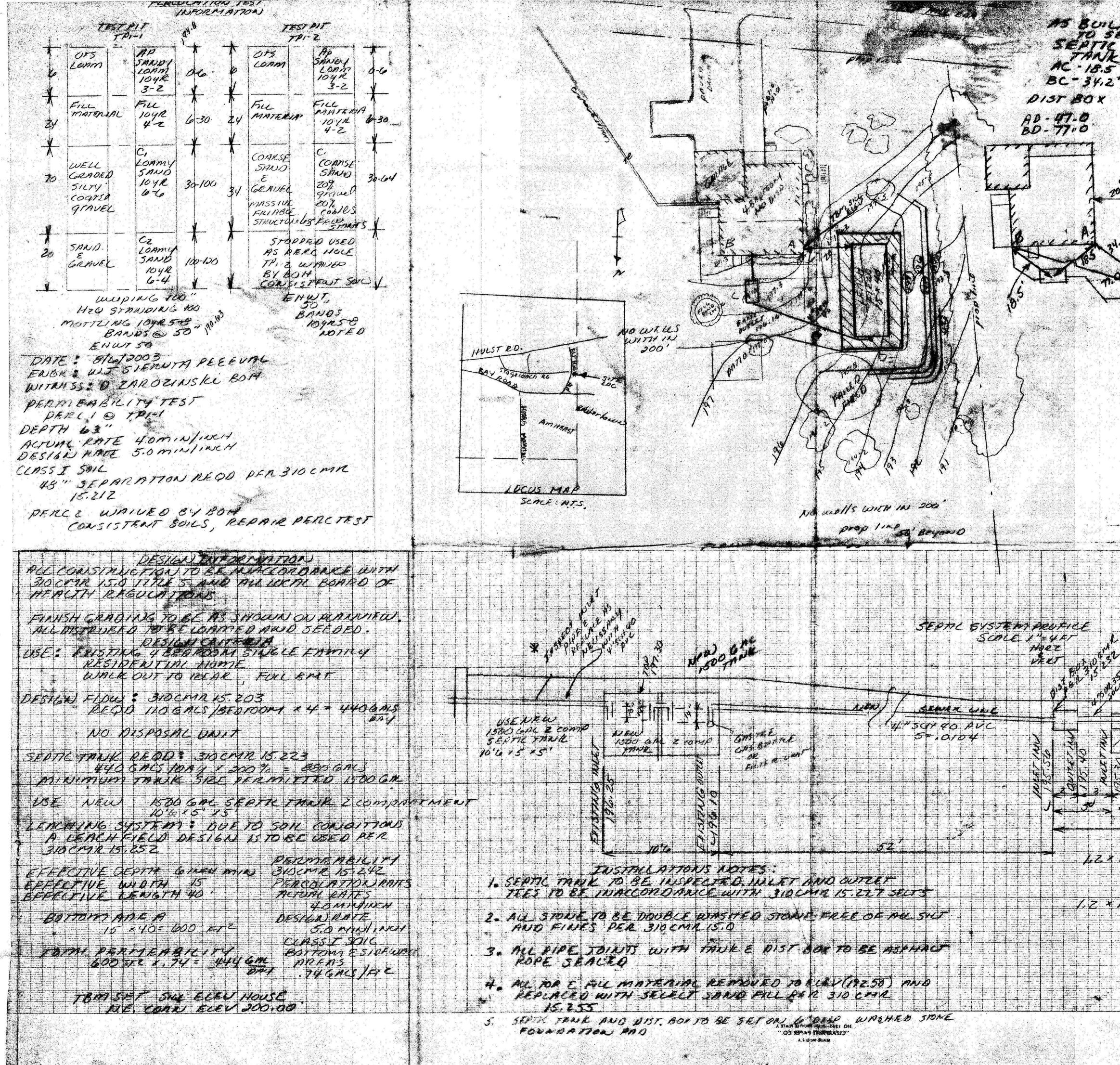
2CC: E. Barcalow

WJS:mbs

No. 03-15 COMMONWEALTH OF MASSACHUSETTS	FEE 275
Board of Health, MA.	
CERTIFICATE OF COMPLIANCE	
Description of Work: D Individual Component(s) Complete System	
The undersigned hereby certify that the Sewage Disposal System; Constructed (), Repaired (K , Upgraded (), Ababy: by: WICHAM T SIEWTH PE	ndoned ()
at 27 BIF HILL Rd	
has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as- application No. $03-17$, dated $9/15/03$. Approved Design Flow	built plans relating to
Installer & Wigerom Stenwon Mulluch	
Designer: Willichent Inspector: Shamer Sim Date: 11/1	6/03

The issuance of this permit shall not be construed as a guarantee that the system will function as designed.





Ethe System	L'ALECT SALE	E110 195.13	ENDINE END CONS 1965, 13 CINES	Ewerin 19513	SFT IN NEL BY SELELT SNOO		
BIN A	se in zes	10 35 PEAR PUL	R35 PERENC	vest penzouc	The REPUBLED	07	
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