



COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS DEPARTMENT OF ENVIRONMENTAL PROTECTION

TITLE V

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM FORM PART A CERTIFICATION

Property Address: 20 Hulst Rd.

Amherst, MA

Owner's Name: Terry Omnisky

Owner's Address: same

Date of Inspection: 08/11/2006

Name of Inspector: (please print) NickTorretti

Company Name: <u>CLEAN SEPTICS</u>
Mailing Address: <u>P.O. BOX 394</u>

LUDLOW, MA

Telephone Number: 583-2138

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 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:

X Passes

Conditionally Passes Needs Further Evaluation by the Local Approving Authority

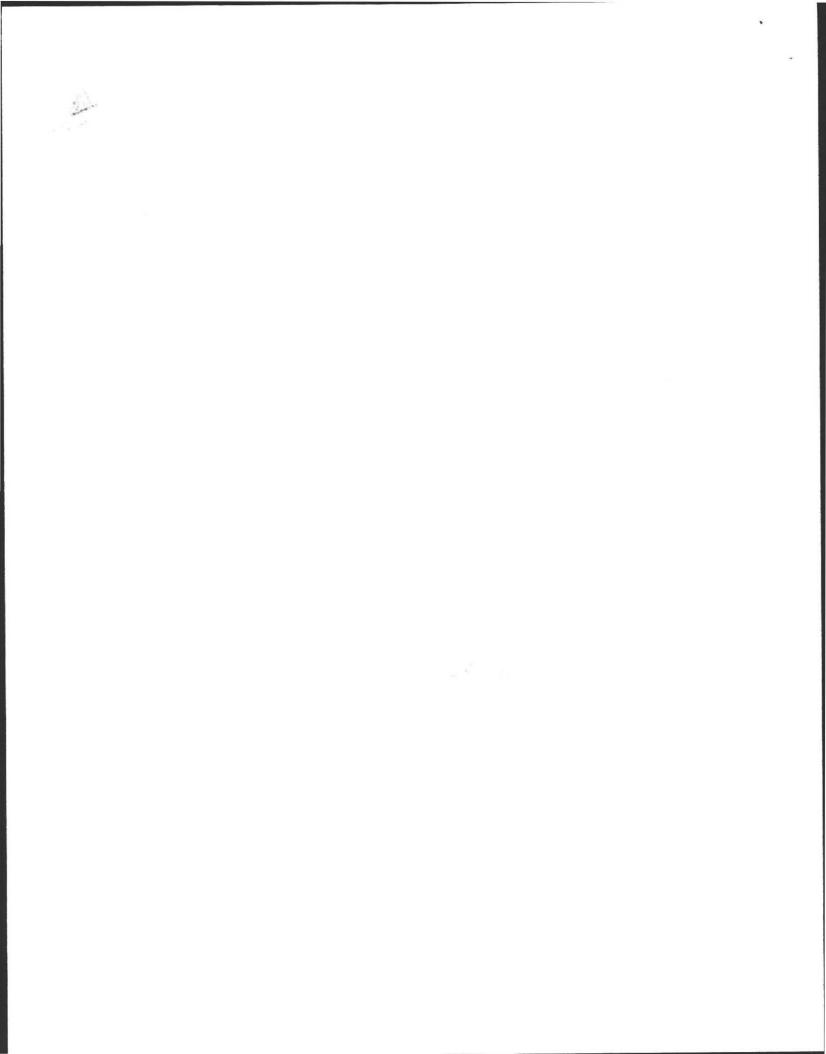
Inspector's Signature:

Date: 08/11/2006

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 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 DEP. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Notes and Comments

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.



OFFICIAL INSPECTION FORM-NOT FOR VOLUNTARY ASSESSEMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART A

Property Address: 20 Hulst Rd. Amherst, MA Owner's Name: Terry Omnisky Owner's Address: same Date of Inspection: 08/11/2006 Inspection Summary: Check A,B,C,D or E / ALWAYS complete all of Section D A. System Passes: X I have 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: Pump tank every Two (2) years. Recommend outlet filter and bacteria/enzymes. 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. Answer yes, no or not determined (Y,N,ND) in the 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. ND explain: Observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health): broken pipe(s) are replaced obstruction is removed distribution box is leveled or replaced ND explain: The system required pumping more than 4 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

ND explain:

Property Address: 20 Hulst Rd.

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART A

CERTIFICATION (continued)

Amherst, MA Owner's Name: Terry Omnisky Owner's Address: same Date of Inspection: 08/11/2006
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 public health, safety or the environment.
 System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, 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 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 coliform bacteria and

**This system passes if the well water analysis, performed at a DEP certified laboratory, 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, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.

3.	Other:

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART A

CERTIFICATION (continued)

Property Address: 20 Hulst Rd.

Amherst, MA

Owner's Name: Terry Omnisky

Owner's Address: same

Date of Inspection: 08/11/2006

D.	System	Failure	Criteria	applicable	to	all	systems:	

You must indicate "yes" or "no" to each of the following for all inspections:

Yes	No	
	X	Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool
_	_X	Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged S.A.S. or cesspool.
	\mathbf{X}	Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool
	\mathbf{X}	Liquid depth in cesspool is less than 6" below invert or available volume is less than ½ day flow
	_X	Required pumping more than 4 times in the last year <u>NOT</u> due to clogged or obstructed pipe(s). Number of times pumped .
	X	Any portion of the SAS, cesspool or privy is below high ground water elevation.
_	_X _	Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.
	X	Any portion of a cesspool or privy is within a Zone 1 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. [This system passes if the well water analysis, performed at a DEP certified laboratory, 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, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.]
NO	(Yes/	No) 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.
T T	2002	
To be You i	cons nust i	Systems: idered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd. indicate either "yes" or "no" to each of the following: ring criteria apply to large systems in addition to the criteria above)
yes	no	
 -		ne system is within 400 feet of a surface drinking water supply
	th	ne system is within 200 feet of a tributary to a surface drinking water supply
		ne system is located in a nitrogen sensitive area (Interim Wellhead Protection Area – IWPA) or a mapped one 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

owner should contact the appropriate regional office of the Department.

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

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OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART B CHECKLIST

Property Address: 20 Hulst Rd.

Amherst, MA

Owner's Name: Terry Omnisky

Owner's Address: same

Date of Inspection: 08/11/2006

Checl	k if the	following have been done. You must indicate "yes" or "no" as to each of the following:
Yes X	No	Pumping information was provided by the owner, occupant, or Board of Health
_	X	Were any of the system components pumped out in the previous two weeks?
X		Has the system received normal flows in the previous two week period?
_	_x_	Have large volumes of water been introduced to the system recently or as part of this inspection?
_	$\underline{\mathbf{X}}$	Were as built plans of the system obtained and examined? (If they were not available note as N/A)
_X	_	Was the facility or dwelling inspected for signs of sewage back up?
_X		Was the site inspected for signs of break out?
_X		Were all system components, excluding the SAS, located on site ?
X the ba	affles o	Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum?
X maint	enance	Was the facility owner (and occupants if different from owner) provided with information on the proper of subsurface sewage disposal systems?
	The	e size and location of the Soil Absorption System (SAS) on the site has been determined based on:
Yes	No X E	xisting information. For example, a plan at the Board of Health.
X		Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is inacceptable) [310 CMR 15.302(3)(b)]

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C SYSTEM INFORMATION

Property Address: 20 Hulst Rd.

Amherst, MA

Owner's Name: Terry Omnisky

Owner's Address: same

Date of Inspection: 08/11/2006

FLOW CONDITIONS
Number of bedrooms (design): Number of bedrooms (actual): _3 DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): _ Number of current residents: 1 Does residence have a garbage grinder (yes or no): No Is laundry on a separate sewage system (yes or no): No_[if yes separate inspection required] Laundry system inspected (yes or no): _No Seasonal use (yes or no): No Water meter readings, if available (last 2 years usage (gpd)): Town Water Sump pump (yes or no): No Last date of occupancy: Present
COMMERCIAL/INDUSTRIAL Type of establishment: Design flow (based on 310 CMR 15.203):gpd Basis of design flow (seats/persons/sqft,etc.): _ 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 date of occupancy/use:
OTHER (describe):
GENERAL INFORMATION Pumping Records Source of information: Three(3) years per home owner. Was system pumped as part of the inspection (yes or no): Yes If yes, volume pumped: 1500 gallons How was quantity pumped determined? measured Reason for pumping: maintenance
TYPE OF SYSTEM X Septic tank, distribution box, soil absorption system Single cesspool Overflow cesspool Privy Shared system (yes or no) (if yes, attach previous inspection records, if any) Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner) Tight tank Attach a copy of the DEP approval
X_ Other (describe): Leach Pit
Approximate age of all components, date installed (if known) and source of information: Approximately 1968 per home owner.

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C

SYSTEM INFORMATION (continued)

Property Address: 20 Hulst Rd. Amherst, MA
Owner's Name: Terry Omnisky
Owner's Address: same
Date of Inspection: 08/11/2006
BUILDING SEWER (locate on site plan)
Depth below grade: _5'5"
Materials of construction: cast iron XX 40 PVCother (explain):
Distance from private water supply well or suction line: Comments (on condition of joints, venting, evidence of leakage, etc.):
Joints and venting appear okay. No leaks.
SEPTIC TANK: X (locate on site plan)
Depth below grade: 4'6"
Material of construction: X_concrete metal fiberglass polyethylene_other
(explain)
If tank is metal list age: Is age confirmed by a Certificate of Compliance (yes or no): (attach a copy of certificate)
Dimensions: 8' x 5' x 5' 900 gallon Tetrault Tank Sludge depth: 1'
Distance from top of sludge to bottom of outlet tee or baffle:
Scum thickness: 3"
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: Measured Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as
related to outlet invert, evidence of leakage, Etc.):
Pump tank every Two (2) years. Baffles are intact. Liquid levels are normal. Tank is structurally sound. No
leaks.
CDEASE TDAR. (locate on site plan)
GREASE TRAP:(locate on site plan)
Depth below grade:
Material of construction:concretemetalfiberglasspolyethyleneother (explain):
Dimensions: gal required tank capacity
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: Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as
related to outlet invert, evidence of leakage, etc.):

OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C

SYSTEM INFORMATION (continued)

Property Address: 20 Hulst Rd. Amherst, MA Owner's Name: Terry Omnisky Owner's Address: same Date of Inspection: 08/11/2006
TIGHT or HOLDING TANK: (tank must be pumped at time of inspection)(locate on site plan)
Depth below grade: Material of construction:concretemetalfiberglasspolyethyleneother(explain):
Dimensions: gallons Capacity: gallons Design Flow: gallons/day Alarm present (yes or no): Alarm level: Alarm in working order (yes or no): Date of last pumping: Comments (condition of alarm and float switches, etc.):
DISTRIBUTION BOX:(if present must be opened)(locate on site plan) Depth of liquid level above outlet invert: Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.): PUMP CHAMBER: (locate on site plan)
Pumps in working order (yes or no): _ Alarms in working order (yes or no): _ Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

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OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C

SYSTEM INFORMATION (continued)

Property Address: 20 Hulst Rd. Amherst, MA Owner's Name: Terry Omnisky Owner's Address: same Date of Inspection: 08/11/2006 Date of Inspection: 07/18/2006 SOIL ABSORPTION SYSTEM (SAS): (locate on site plan, excavation not required)
If SAS not located explain why: X _ leaching pits, number: Leach Pit 9'x 5' Leach Pit is a homemade pit built out of cinderblocksleaching chambers, number: leaching galleries, number: leaching trenches, number, length: _ leaching fields, number, dimensions: _ overflow cesspool, number: innovative/alternative system Type/name of technology: Comments (note condition of soil, signs of hydraulic failure, level of ponding, damp soil, condition of vegetation, etc.): _ No signs of hydraulic failure. Soil and vegetation are okay. CESSPOOLS: (cesspool must be pumped as part of inspection)(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 (yes or no): Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):
PRIVY: (locate on site plan) Materials of construction: Dimensions: Depth of solids: Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C

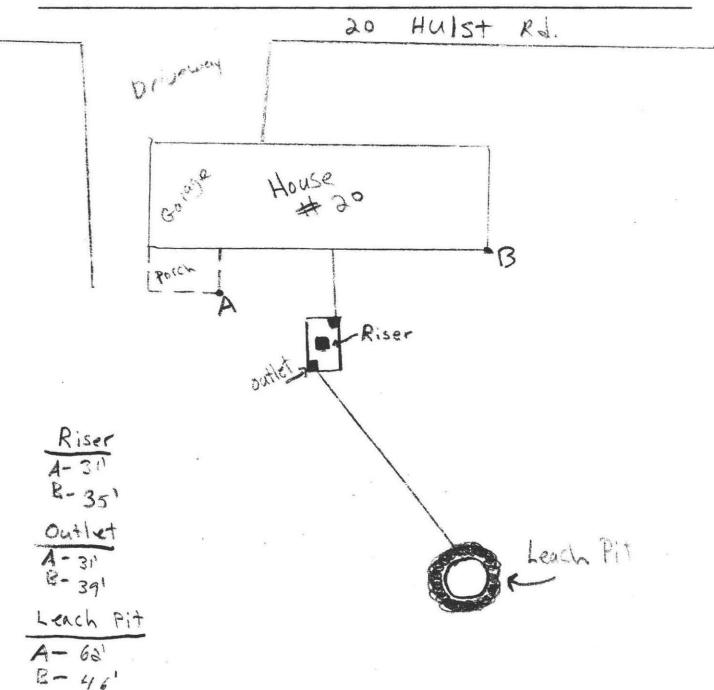
SYSTEM INFORMATION (continued)

Property Address:

Owner's Name: Owner's Address: Date of Inspection:

SKETCH OF SEWAGE DISPOSAL SYSTEM

Provide a sketch 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. Drawing not to scale.



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OFFICIAL INSPECTION FORM – NOT FOR VOLUNTARY ASSESSMENTS SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM PART C SYSTEM INFORMATION (continued)

Property Address: Owner's Name: T Owner's Address: Date of Inspection	Amherst, MA Terry Omnisky same		
Surface water	xxx xxx	*	
Estimated depth to	ground water: None @ 10'		
Please indicate (che	eck) all methods used to determine the high ground water elevation:		
X Observed Checked wit	n system design plans on record - If checked, date of design plan reviewed: site (abutting property/observation hole within 150 feet of SAS) h local Board of Health-explain: h local excavators, installers- (attach documentation) SGS database-explain:		
You must describe	how you established the high ground water elevation:		

Slope in yard and observed abutting properties



Commonwealth of Massachusetts City/Town of Certificate of Compliance

Form 3

DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

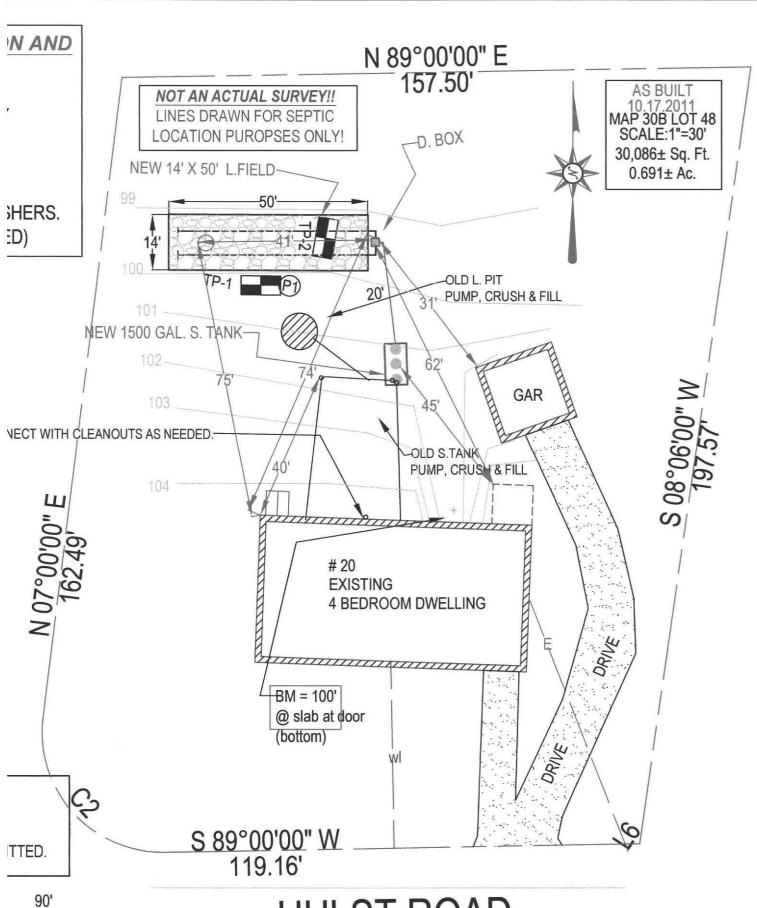
		the local Board of Health to determine the form they	/ use.	
		This is to Certify that the following work on an On-	Site Sewage Disposal	System
Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.		☐ Construction of a new system ☐ Repair or replacement of an existing system ☐ Repair or replacement of an existing system co Has been done in accordance with Title 5 and the D		truction Permit (DSCP):
S rab		Brakfield Fam Heuse	DSCP Date	
		Facility Owner 20 HUIST RD		
return		Street Address or Lot	MA	01007
		City/Town	State	Zip Code
		Designer Information:		
		Alan Weiss, RS, # 933	Cold Spring Environ	mental, Inc.
		Name	Name of Company	
		Signature	10 1 8 1 11 Date	
L	/	Installer Information: Name Signature Use of this system is conditioned on compliance with the system is con	Name of Company Date th the provisions set for	2011 orth below:
	/	The issuance of this certificate shall not be constructed designed. PMHERS? HEACTH DEPT. Approving Authority		
		Signature Sur FUE	10/18/20 Date	

t5form3.doc• 06/03

Certificate of Compliance • Page 1 of 1

FMAIL ->
ALAN

FAX FOR RUB ADAR



HULST ROAD

FAX	10-18- 2011	
	Number of page	es including cover sheet 2
TO Rob Adair	FROM	Edmund Smith
Adail	1.1.0	Amherst Health Department
		Bangs Community Center
	ē	70 Boltwood Walk
Phone		Amherst, MA 01002
Fax Phone 413.253.1519	Phone	(413) 259-3153
14X 1 11011C 110.200.1010	Fax Phone	(413) 259-2404
	E-Mail	smithe@amherstma.gov
Hi Rob – Here is your copy of the as-built.		
Thanks,		

'n

COMMONWEALTH OF MASSACHUSETTS Board of Health, Arrive 34., MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

	clo Dan Kaplar, Brookfield Form
Location 20 Hc15t . PD	Owner's Name Brody said Formland Consu. TNST.
Map/Parcel# 308/48	Address ZY 1/15+ 17
Lot# 48	Telephone# 253- 7991
Installer's Name Kori'S Excavely.	Designer's Name Alen Weiss
Address Hadly NA.	Address Belde Four, M.
Telephone# 349-5396	Telephone# 32.3-5957
Type of Building Re 5 du	Lot Size <u>30,0%</u> sq. ft.
	. Garbage grinder 🚧
	No. of persons Showers (), Cafeteria ()
Other Fixtures Design Flow (min. required) 440 gpd Calculated Plan: Date 1/9/10/1 Number of sheets Fitle Septic Systum Again Plans	design flow 140 Design flow provided 518 gpd / Revision Date
Description of Soil(s) c 1455 1 : SAND	
Soil Evaluator Form No Name of Soil Evalu	nator A-W455 Date of Evaluation 6/1/2011
DESCRIPTION OF REPAIRS OR ALTERATIONS	
	4 1
COMMONWEALTH Board of Health, Au CERTIFICATE (OF MASSACHUSETTS THEREST, MA. DE COMPLIANCE
COMMONWEALTH Board of Health,A CERTIFICATE (Description of Work: Sindividual Component(s) Complete The undersigned hereby certify that the Sewage Disposal System; Complete Component C	OF COMPLIANCE System
Board of Health,	OF COMPLIANCE System Constructed (), Repaired & Upgraded (), Abandoned ()
Description of Work: Sindividual Component(s) Complete The undersigned hereby certify that the Sewage Disposal System; Copy: KARL'S EKCAUATING at 20 HUST ROLD, AMBEST, HA OLD has been installed in accordance with the provisions of 310 CMR 1stapplication No, dated Approve	OF COMPLIANCE System Constructed (), Repaired & Upgraded (), Abandoned () 5.00 (Title 5) and the approved design plans/as-built plans relating to the design Flow (gpd)
Description of Work: Sindividual Component(s) Complete The undersigned hereby certify that the Sewage Disposal System; Copy: KARL'S EKCAUATING at 20 HUST ROLD, AMBEST, HA OLD has been installed in accordance with the provisions of 310 CMR 1stapplication No, dated Approve	OF COMPLIANCE System Constructed (), Repaired & Upgraded (), Abandoned () Column 1. System 5.00 (Title 5) and the approved design plans/as-built plans relating to
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Description of Work: Sindividual Component(s) Complete The undersigned hereby certify that the Sewage Disposal System; Copy: LAWLS EXCRUTTING That 20 HOUST ROLD, AMMERST, MA COD That spendication No, dated Approve The installer LARUS EXCRUTTING The issuance of this permit shall not be construed as a guarantee the	OF COMPLIANCE System Constructed (), Repaired & Upgraded (), Abandoned () 5.00 (Title 5) and the approved design plans/as-built plans relating to ded Design Flow 518 (gpd) Date: 7/5/2011
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COMMONWEALTH Board of Health, Au CERTIFICATE (COMMONWEALTH CERTIFICATE (CERTIFICATE (COMMONWEALTH CERTIFICATE (CERTIFICATE (COMMONWEALTH COMMONWEALTH COMMONWEALTH	OF MASSACHUSETTS System Constructed (), Repaired & Upgraded (), Abandoned () OT 5.00 (Title 5) and the approved design plans/as-built plans relating to the design Flow (gpd) Date: 7/5/2011 FEE 300.
COMMONWEALTH Board of Health, Au CERTIFICATE (Description of Work: Sindividual Component(s) Complete The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certify that the Sewage Disposal System; Cooperative The undersigned hereby certified he	OF MASSACHUSETTS System Constructed (), Repaired & Upgraded (), Abandoned () OT 5.00 (Title 5) and the approved design plans/as-built plans relating to the design Flow (gpd) Date: 7/5/2011 FEE 300.
COMMONWEALTH Board of Health, AM CERTIFICATE (Description of Work: Sindividual Component(s) Complete Che undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certify that the Sewage Disposal System; Or the undersigned hereby certified hereby certified hereby certified hereby certified hereby certified hereby certified hereby certi	OF COMPLIANCE System Constructed (), Repaired & Upgraded (), Abandoned () 5.00 (Title 5) and the approved design plans/as-built plans relating to the design Flow (gpd) MANUAL Date: 7/5/2011 Lat the system will function as designed. OF MASSACHUSETTS MA. CONSTRUCTION PERMIT Upgrade () Abandon () an individual sewage disposal system of MA 01007 as described in the application for

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		*

FORM 11 - SOIL EVALUATOR FORM

Page 1 of 3

ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional Registered Sanitarian Hydrogeologist President

350 Old Enfield Rd.

Belchertown, MA 01007

(413) 323-5957 & 323-4916 (FAX)

·Wetland Consults ·Soil and Water Testing

*21E Site Investigations ·Percolation Tests and

·Septic Designs

•Title 5 Inspections

aeweiss@charter.net

Date: 6/1/4

, Massachusetts Soil Suitability Assessment for On-site Sewage Disposal Performed By: A weisr Date: 6/1/11 Witnessed By: E. Sn. HS + Biodyamic Fernland Covervation Trus Location Address or Address, and ZO HUIST HUIST Rd Amherst, M. Office Review Published Soil Survey Available: No Year Published Publication Scale Soil Map Unit Drainage Class Soil Limitations Surficial Geologic Report Available: No Yes Year Published Publication Scale Geologic Material (Map Unit) Landform Flood Insurance Rate Map: Above 500 year flood boundary No Yes Within 500 year flood boundary No Yes Within 100 year flood boundary No Yes Wetland Area: National Wetland Inventory Map (map unit) Wetlands Conservancy Program Map (map unit) Current Water Resource Conditions (USGS): Month Range : Above Normal Normal Belev Normal Other References Reviewed:

Commonwealth of Massachusetts



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		b

Location Address or Lot No.	20 Hulst RD
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On-site Review

Deep Hole Number 1+2 Date: 6/1	111 Time: 10:35 Weather SUN. 80.
Location (identify on site plan)	was a second of the second of
Land Use RES. Slope (5	%) Surface Stones not
Vegetation 97255	
Landform TENG	The second secon
Position on landscape (sketch on the back)	
Distances from:	
Open Water Body f pe feet	Drainage way 56 4 feet
Possible Wet Area feet	Property Line 32 + feet
Drinking Water Well _100 4 feet	Other

And the second s		DEEP OB	SERVAT	TON HO	LE LOG*
Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Gravell Gravell
0-9" 9"-76" 76"-176"	Ap BW C,	F3 (5	10 4123h, 2.545h 2.544/3		Frakle, hoose. F. Sondy, grander. Med - (corse Sad, grander. Loose, 15% stors
0-8" 8'-76' 26">126"	Aρ βω (,,	fsc fs Ls	10416 3/3 2.545/6 2.544/3	Nd.	- Fraha Loose. - f. Sond, grander. - Med-Coarse, Sond, granda LOOSE, 15% Stars
- SAIINIISAI (A	M OF 2 HOLES F	ENTRIBEN AT EV	ERV PROPOSE	n niceacai	

Parent Material (geologic) DUNSS Depthto Bedrock:

Depth to Groundwater: Standing Water in the Hole: Weeping from Pit Face:

Estimated Seasonal High Ground Water: 120 49 7



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Lacation	Address	or Lot No.	20	HUIST	an.	

COMMONWEALTH OF MASSACHUSETTS Anhort Massachusetts

	Percolation Te	est*
Date:	blilu	Time:, 10.45
Observation Hole #	P	10.17
Depth of Perc	CANT YOU	
Starí Pre-soak	HOLD (2
End Pre-soak	. Water	e .
Time at 12"		P
Time at 9"		a
Time at 6"		
- Time (9"-6")		
Rate Min./Inch	27	\ \ \

Site Passed	Site Failed
Performed By:	A Weiss
Witnessed By:	E. Smith
Comments:	

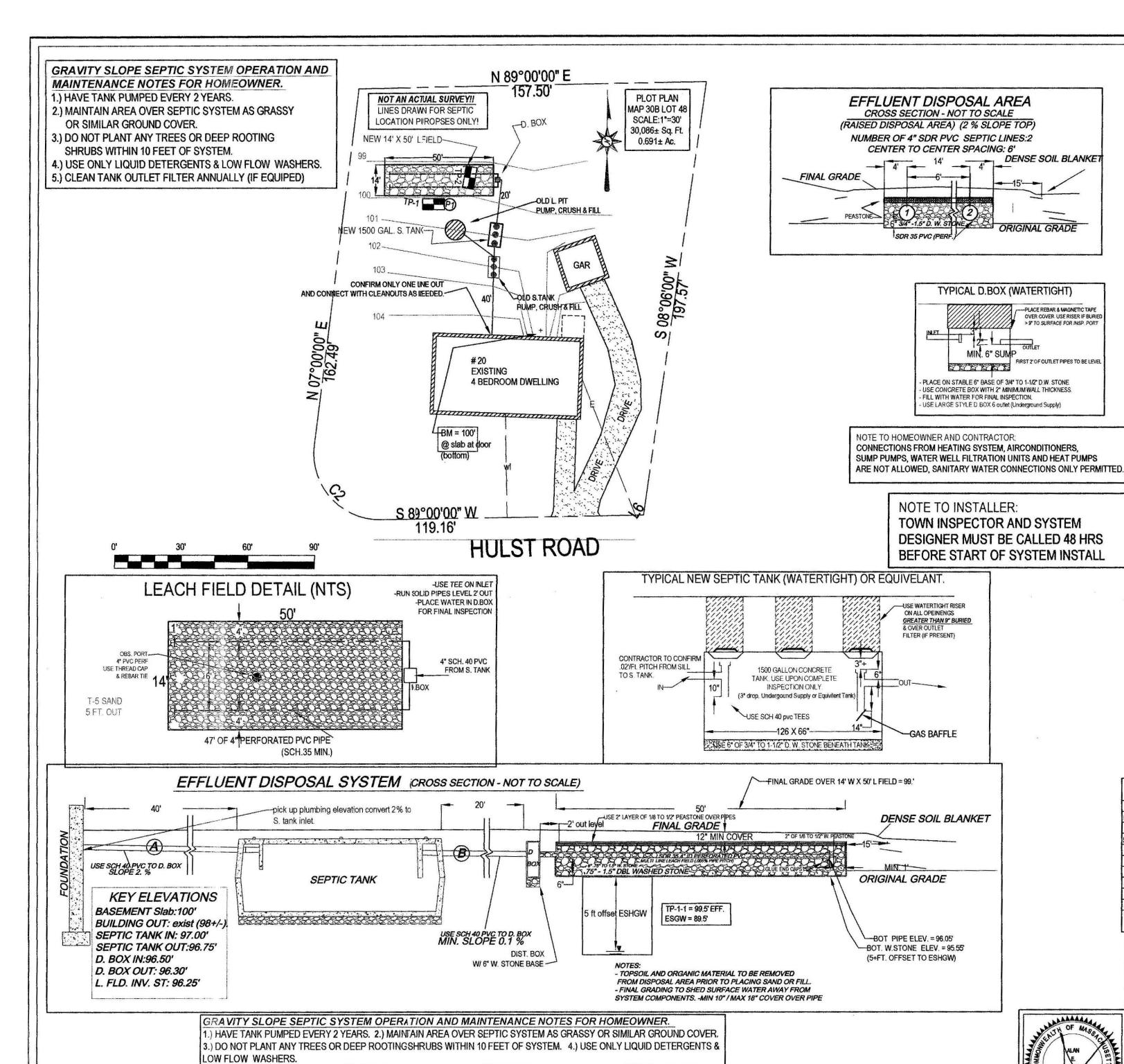


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*)		
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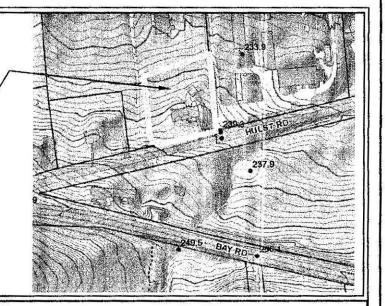
Location Address or Lot No. Zo Hulst PD
Determination for Seasonal High Water Table
Method Used:
Depth observed standing in observation hole inches Depth weeping from side of observation hole inches Depth to soil mottles //zo'f inches Ground water adjustment feet
Index Well Number
Adjustment factor Adjusted ground water level
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?
The depart of Materially occurring pervious materials
Certification
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.
Signature Date 6/1/11
ALAN E. WEISS REG. #983 Z SSE



	-			
•				



SUBJECT LOCATION



DESIGN NOTES AND CALCULATIONS:

1.) 4 (BEDROOM HOME) = 440 GPD MIN.REQUIRED,

-Use LEACHING FIELD 14' WIDE X 50' LONG WITH 6" OF 3" TO 12" DBL WASHED STONE BELOW INVERT

- BOTTOM (AREA: L. FIELD(14' W X 50' L) =700 SF.

- TOTAL AREA: 700 SF X .74 GAL/SF =518 GPD PROVIDED.

3. GARBAGE DISIPOSAL NOT PERMITTED.

4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.

5. NO OTHER WETLANDS WITHIN 50 FEET OF SAS 6. USE S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK

- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),

- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES

USE LARGE STYLE (6 OUTLET) D.BOX ONLY.

7A ALL D. BOX O)UTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS

- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.

7B ANY /ALL PLAISTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.

8. -USE (.75"-1 11/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.

-USE ONLY DIBL. WASHED APPROVED(.75"-1.5") FOR PLACEMENT IN LEACH AREA.

9. USE PROPER SCH. 40 PVC TEES AS SHOWN.

10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs)

11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.

13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND

ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)

14. USE 2% MIN. ISLOPE OVER SAS

- CLEAR TOP AND SUB TO 32" MIN. AS NEEDED (INSPECTION REQUIRED).

- CLEAR PAST BASE OF B (MIN. 32") & SCARIFY UNDER TRENCH PRIOR TO TITLE V SAND/STONE PLACEMENT. - EXCAVATE IEXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.

15. SOIL EVALUAITION BY A. WEISS, RS. (E. Smith), BOH AGENT).

- DEPTH OF PERC. 40"

- PERC RATE: = <2 MIN/IN,

- CLASS 1, SAND SOIL RATING

16. NO TREES WITHIN 10 FT. OF NEW LEACH AREA.

17. ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.

18. BM=100.00 @) (Slab, as noted), CONFIRM PROPER PIPE SLOPES

- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK

GRADE MULCH AND SEED OVER SAS AS NOTED.

20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

21. USE OBSERWATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM (OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR.

DATE OF EVALUATION: TEST PIT LOG: A. WEISS, RS 06.01.2011 TP-1 EFF. ELEV: 97.0' TP-2 EFF. ELEV: DEPTH: HORIZ: TEXTURE: (MUNSELL): HORIZ: TEXTURE: A SL 10 YR 3.3 FRIABLE Ap FSL 10 YR 3..3 FRIABLE 9-26" BW F. SAND 2.5Y 5.6 F. SAND, GRANULAR 8-26" BW F. SAND 2.5Y 5.6 F. SAND, GRANULAR 26-126" C1 C SAND 2.5Y 4.3 MED-CRSE SAND, GRANULAR 26-120" C1 C SAND 2.5Y 4.3 MED-CRSE SAND, GRANULAR LOOSE, 15% STONES LOOSE, 15% STONES NOT OBSERVED NOT OBSERVED OXIDES: **OXIDES** EHWT: 120" + STANDING H2O: STANDING H2O: WEEPING: WEEPING:

SEPTIC SYSTEM REPAIR PLAN FOR BIODYNAMIC FARMLAND CONSERVATION TRUST

20 HULST ROAD AMHERST, MA

Cold Spring Environmental Consultants Inc. 350 Old Enfield Road Belchertown, MA. 01007

PAFONE: (413) 323-5957 FAX: (413) 32:3-4916

c-Mail: AEWEISS@charter.nct

ALAN WEISS 06.12.2011 DRAWING NUMBER: 110-3590-0601 1"=30"

ATTENTION INSTALLER!!

CALL DIG SAFE BEFORE YOU DIG!I MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V.UTILITY IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO APPROVAL WILL NOT BE GIVEN TO BACKFILL.



COMMONWEALTH OF MASSACHUSETTS

Board of Health, AMVII , MA.

ALAN É MÚSSI REGJARÍSIS

APPLICATION FOR DISPOSAL (Application for a Permit to Construct() Repair (Application for a Permit to Co	SYSTEM CONSTRUCTION PERMIT V CALLES
	To Dan Kaplan, Brookfield for
Location 20 Hc/5t PD	Owner's Name Brody mic Ferminal Consu. TNST.
Map/Parcel# 30B/Y8	Address ZY HUIST (D)
Lot# 48	Telephone# 253 - 7991
Installer's Name Korl'S Excavely.	Designer's Name Alon Weiss
Address Hally MA.	Address Belderform, M.
Telephone# 549-539L	Telephone# 37.3-5957
Type of Building Resduce	Lot Size <u>30,086.</u> sq. ft.
Dwelling - No. of Bedrooms 4 Bedrus.	Garbage grinder 🚧
	No. of persons Showers (), Cafeteria ()
Other Fixtures	YVA STE
Plan: Date 1/2/1011 Number of sheets Title Septic System Major Plans	design flow 440 Design flow provided 518 gpd / Revision Date
Description of Soil(s) 1455 1: SAND	
Soil Evaluator Form No. Name of Soil Evalu	nator A-WG55 Date of Evaluation 6/1/201
DESCRIPTION OF REPAIRS OR ALTERATIONS	
м ²	6 16
The undersigned agrees to install the above described Individual Sefurther agrees to not to place the system in operation until a Certifi	5
Inspections	
	. :
NO. 12-O) COMMONWEALTH	OF MASSACHUSETTS
Board of Health,	HERST , MA.
CERTIFICATE (OF COMPLIANCE
Description of Work: Andividual Component(s)	System
The undersigned hereby certify that the Sewage Disposal System; Cby: レムという そくらい チャント	Constructed (), Repaired 🚜 , Upgraded (), Abandoned ()
at 20 HULST ROAD, AWHERST, HA	01002
has been installed in accordance with the provisions of 310 CMR 1 application No, dated Approve	5.00 (Title 5) and the approved design plans/as-built plans relating to ed Design Flow (gpd)
Installer KARI) EXCAVATIONS Designer: AZHA WEISS Inspector: ED	1110 Sully Don 7/2/2011
Designer: Pr CHA WELS Inspector: Ex-	
No	FEE
COMMONWEALTH	OF MASSACHUSETTS
Board of Health,	, MA.
	CONSTRUCTION PERMIT
Permission is hereby granted to; Construct() Repair()	Upgrade() Abandon() an individual sewage disposal system
The state of the s	as described in the application for
Disposal System Construction Permit No, dat	
	ars of the date of this permit. All local conditions must be met.
	and of the date of this period. An ideal conditions must be med

	*				
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FORM 11 - SOIL EVALUATOR FORM Page 1 of 3

Date: 6/1/11

ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional Registered Sanitarian Hydrogeologist President

350 Old Enfield Rd.

Belchertown, MA 01007

·Wetland Consults •Soil and Water Testing •21E Site Investigations

·Percolation Tests and

•Septic Designs
•Title 5 Inspections

(413) 323-5957 & 323-4916 (FAX) aeweiss@charter.net

Commonwealth of Massachusetts nhors+ , Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: A. Weisr Date: 6/1/11	1
Witnessed By: E. Sn. H.	
* Biodyamic Formland Confervation	TNS
Location Address or Dorrer's Name. Brook Field form h	ocuso
Zo Hulst Rd Telephone 1 ZO Hulst RD	
New Construction & Repair Repair Amherst, MA.	
Office Review	
Published Soil Survey Available: No Yes Yes	
Year Published Publication Scale . Soil Map Unit	
Drainage Class Soil Limitations	
Surficial Geologic Report Available: No Yes [
Year Published . Publication Scale	
Geologic Material (Map Unit)	
Landform	-
Flood Insurance Rate Map:	
Above 500 year flood boundary No Yes	
Within 500 year flood boundary No Yes	
Within 100 year flood boundary No Yes	
Wetland Area:	
National Wetland Inventory Map (map unit)	
Wetlands Conservancy Program Map (map unit)	
Current Water Resource Conditions (USGS): Month	
Range : Above Normal Normal Belaw Normal	7
Other References Reviewed:	



Location Address or Lot No	Zo	Hulst	ED	
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On-site Review

Deep Hole Number 112 Date: 6.	111 Time: 10:35 Weather SUN 80.
	engeringen og til en state og progresser i det skalare en skalare en
Land Use Res Slope (%) Surface Stones not
Vegetation 97255	
Landform Tene sal	
Position on landscape (sketch on the back)	
Distances from:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Open Water Body i De ffeet	Drainage way 56 4 feet
Possible Wet Area feet	Property Line 372 + feet
Drinking Water Well _100 4 feet	Other

		DEEP OF	SERVAT	ION HO	LE LOG*
Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, 9 Gravel)
9"-26."	Ap BW	fs L	10 7173月	-	Frakte, hoose. F. Sonly, grander.
76"-176"	.د,	(5	2.544/3		med - Course Sind, grandas Loose, 15% stores
0-8" 3'-76'	Ap Bw	fsc fs Ls	104R3/3 2545/L 2544/3	Not.	- Frank Locse. - f. Sond, grander. - Med-Coase, Soid, grander
	Ć r		213473	293-	LOOSE, 15% STENS
-		EQUIRED AT EVE			



		Ψ.	

Lacation Address or Lot No. 20 Hutst CD.

COMMONWEALTH OF MASSACHUSETTS

Anwor , Massachusetts

	Percolation Tes	st*
Date:	le la la	Time:, 10'.45 · ·
Observation Hole #	Pi	10.1)
Depth of Perc	CANT (40"	
Start Pre-soak	HOLD (2
End Pre-soak	Natu	e .
Time at 12"		P
Time at 9"	THE PROPERTY OF THE PROPERTY O	a
Time at 6"		
Time (9"-6")		
Rate Min./Inch	27	

· reserve ar	ea.
Site Passed 🗓	Site Failed
Performed By:	A Weiss
Witnessed By:	C. Saith
Comments:	

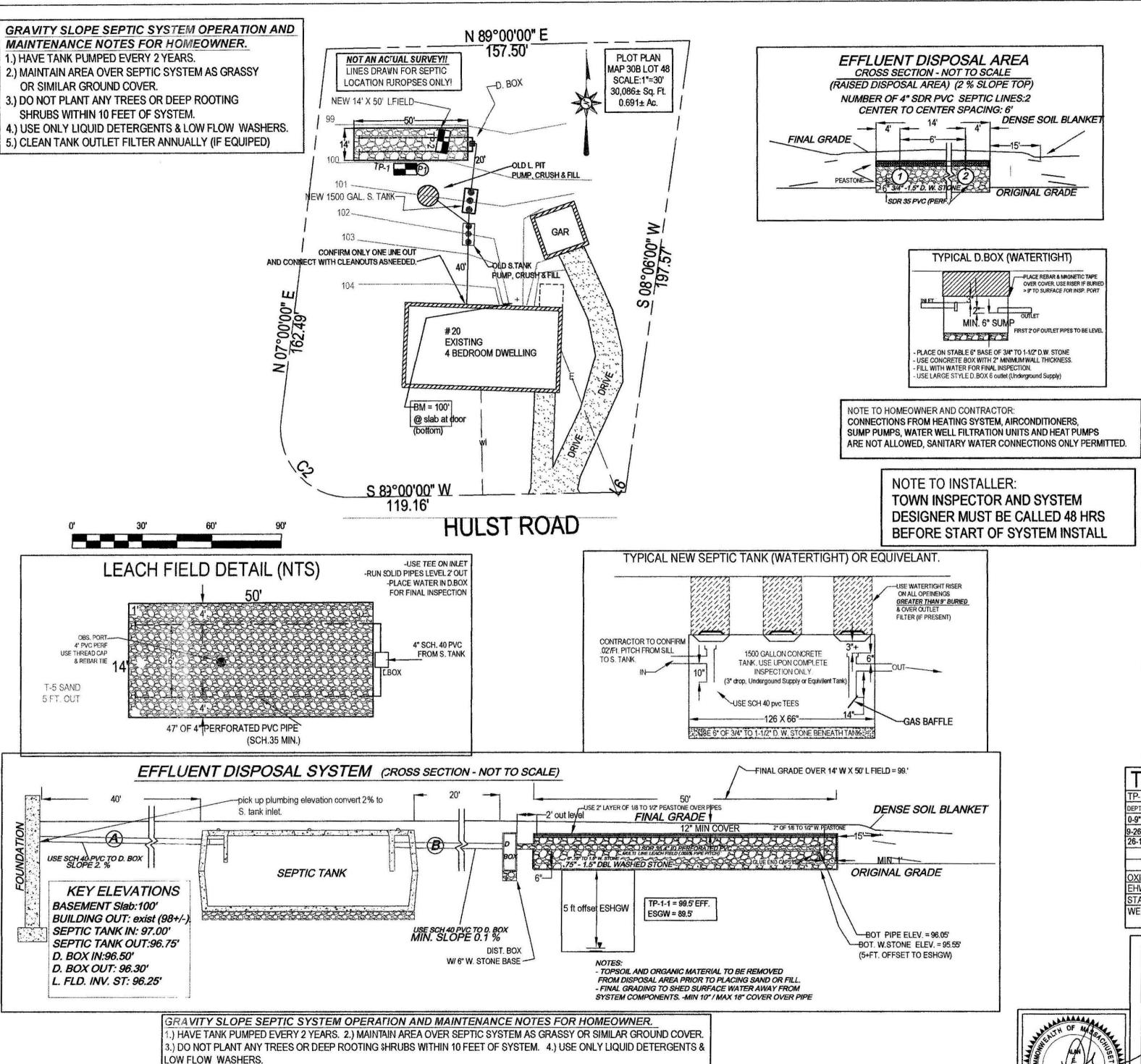


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		8	
		*	

Location Address or Lot No. Zo Hulst RD
Determination for Seasonal High Water Table
Method Used:
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 Number
Adjustment factor Adjusted ground water level
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
Signature Date 6/1/11
ALAN C. WEISS



*				
•				



NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO

APPROVAL WILL NOT BE GIVEN TO BACKFILL.

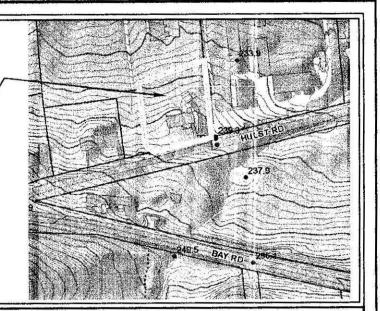
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND

REQUIRE THAT PREMARKING OF GAS. ELECTRIC. WATER, TELEPHONE AND CABLE T.V. LTILITY IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR

ATTENTION INSTALLER!!

LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATON.





DESIGN NOTES AND CALCULATIONS:

1.) 4 (BEDROOIM HOME) = 440 GPD MIN.REQUIRED,

-Use LEA(CHING FIELD 14' WIDE X 50' LONG WITH 6" OF 3" TO 12" DBL WASHED STONE BELOW INVERT:

-BOTTOM AREA: L. FIELD(14'W X 50'L) =700 SF.

- TOTAL AIREA: 700 SF X .74 GAL/SF =518 GPD PROVIDED.

3. GARBAGE DISPOSAL NOT PERMITTED.

4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.5. NO OTHER WETLANDS WITHIN 50 FEET OF SAS,

6. USE S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK

- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),

 ALL COMPONIENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE SURE TO MAIINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES
 USE LARGE STIYLE (6 OUTLET) D.BOX ONLY.

7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS

- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.

7B ANY /ALL PLAISTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.

8. -USE (.75"-1 11/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.

-USE ONLY DIBL. WASHED APPROVED (.75"-1.5") FOR PLACEMENT IN LEACH AREA.

USE PROPER SCH. 40 PVC TEES AS SHOWN.
 PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs)

11, SLOPE CALCS (SEE CONTOURS), SUBGRADE INSP. REQ'D.

13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)

14. USE 2% MIN. (SLOPE OVER SAS

- CLEAR TOP AND SUB TO 32" MIN. AS NEEDED (INSPECTION REQUIRED).

- CLEAR PAST BASE OF B (MIN. 32") & SCARIFY UNDER TRENCH PRIOR TO TITLE V SAND/STONE PLACEMENT. - EXCAVATE (EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.

15. SOIL EVALUATION BY A. WEISS, RS. (E. Smith), BOH AGENT).

- DEPTH OF PERC. 40"

- PERC RATE = <2 MIN/IN,

- CLASS 1, S/AND SOIL RATING

16. NO TREES WITHIN 10 FT. OF NEW LEACH AREA.

17. ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.

18. BM=100.00 @: (Slab, as noted), CONFIRM PROPER PIPE SLOPES

- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK

19. GRADE MULCH AND SEED OVER SAS AS NOTED.

20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR...

TEST PIT LOG:			SOIL EVALUATOR: A. WEISS, RS				DATE OF EVALUATION: 06.01.2011		
TP-1 EF	1 EFF. ELEV: 97.0'		TP-2 EFF. ELEV:						
DEPTH:	HORIZ:	TEXTURE:	(COLOR ((MUNSELL):	MATERIAL	DEPTH:	HORIZ:	TEXTURE:	(MUNSELL)	MATERIAL
0-9"	Ap	FSL	10 YR 33	FRIABLE	0-8"	A	SL	10 YR 3.	3 FRIABLE
9-26*	-	F. SAND	2.5Y 5.6	F. SAND, GRANULAR	8-26"	Bw	F. SAND	2.5Y 5.6	F. SAND, GRANULAR
26-126	C1	C SAND	2.5Y 4.3	MED-CRSE SAND, GRANULAR	26-120"	C1	C SAND	2.5Y 4.	3 MED-CRSE SAND, GRANULAR
				LOOSE, 15% STONES					LOOSE, 15% STONES
OXIDES:	1	1	NOT	OBSERVED	OXIDES	<u> </u>	1	NOT	OBSERVED
EHWT:			120" +		EHWT:				
STANDI	VG H2C);	-		STANDI	NG H2C):	-	
WEEPIN	G:		•		WEEPIN	G:	10.00	-	

SEPTIC SYSTEM REPAIR PLAN FOR BIODYNAMIC FARMLAND CONSERVATION TRUST

20 HULST ROAD

AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Dld Enfield Road
Belchertown, MA. 01007

PHONE: (413) 323-5957 FAX: (413) 323-4916

e-Mail: AEWEISS@charter.net

DRAWN BY:

06.12.20)11

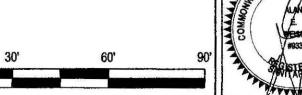
SCALE:

1"=30'

REVISED:

REVISED:

PRAWING NUMBER:
110-3590-0601



PERMITS/INSP PAYMENT RECPT#: 12002679
TOWN OF AMHERST
TOWN HALL
4 BOLTWOOD AVENUE
AMHERST MA 01002

DATE: 07/11/11 TIME: CLERK: publichea DEPT:

TIME: 10:37

PAID BY: BROOKFIELD FARM DAN PAYMENT METH: CHECK 1782

REFERENCE:

9819

AMT TENDERED: AMT APPLIED:

150.00 150.00 .00

CHANGE:

SITE ADDRESS: BROOKFIELD FARM

on 20 HOUST ROLL

FEES:

HEA017

150.00

TOTAL PAID:

150.00

munis app - 9819 Batch - 106

July 2011 INVOICE

AMHERST PUBLIC HEALTH DEPARTMENT

Bangs Community Center 70 Boltwood Walk Amherst, MA 01002

DATE: July 1, 2011

TO

Biodynamic Farmland Cons. Trust Dan Kaplan; 24 Hulst Road Amherst, MA 01002

RE: Invoice for

Septic Title V Plan Review

Services provided by

Edmund Smith & Javeria Mir

PAYMENT TERMS: Due Upon Receipt

QUANTITY	DESCRIPTION	UNIT PRICE	LINE TOTAL
1.00	Plan Review for 20 AVLST RD.	\$ 150.00	\$ 150.00
	0	· «	
,	Rec'd today your check #1782, Brookfield Farm, for \$150.00		
	this invoice is paid in full/thank you		
	<u> </u>	SUBTOTAL	
		SALES TAX TOTAL	

No		
180		

COMMONWEALTH OF MASSACHUSETTS Board of Health, AMOS ______, MA. APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION

Application for a Permit to Construct() Repair \ Upgrade()	Abandon() - Complete System Components
Location 20 HC/5t. PD	Owner's Name Booky mic Fermland Consu. TNST.
Map/Parcel# 30B/Y8	Address ZY HUIST (D)
Lot# 48	Telephone# 253- 7991
Installer's Name Kori's Excavely.	Designer's Name Alan Wei 55
Address Hadle, M.	Address Beldeton, Ma.
Address Harly, NA. Telephone# 549-5396	Telephone# 323-5957
Owelling - No. of Bedrooms 4 Bedroom. Other - Type of Building Other Fixtures Design Flow (min. required) 440 gpd Calculate	
Plan: Date 6/13/2011 Number of sheets	Revision Date Revision Date Paluator A-Wess Date of Evaluation 6/1/200
DESCRIPTION OF REPAIRS OR ALTERATIONS	· ·
nspections	Date of to fact
	H OF MASSACHUSETTS
	, MA.
CERTIFICATE	OF COMPLIANCE
Description of Work: Individual Component(s) Complete Che undersigned hereby certify that the Sewage Disposal System; Day:	; Constructed (), Repaired (), Upgraded (), Abandoned ()
at	R 15.00 (Title 5) and the approved design plans/as-built plans relating to oved Design Flow(gpd)
Designer: Inspector:	Date:
The issuance of this permit shall not be construed as a guarantee	
No	FEE
	H OF MASSACHUSETTS
	CONSTRUCTION PERMIT
Permission is hereby granted to; Construct() Repair() Upgrade() Abandon() an individual sewage disposal system as described in the application for
Disposal System Construction Permit No, d	
Provided: Construction shall be completed within three y	years of the date of this permit. All local conditions must be met.
Pate	Oseral of Wooleh

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FORM 11 - SOIL EVALUATOR FORM
Page 1 of 3

ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional Registered Sanitarian Hydrogeologist President

350 Old Enfield Rd.

Belchertown, MA 01007

(413) 323-5957 & 323-4916 (FAX)

•Wetland Consults
•Soil and Water Testing

•21E Site Investigations •Percolation Tests and

•Septic Designs •Title 5 Inspections

aeweiss@charter.net

Date: 6/1/11

, Massachusetts Soil Suitability Assessment for On-site Sewage Disposal Performed By: A weisr Date: 6/1/11 Witnessed By: E. Sn. H. + Biodyamic Fernland Covervation Trus Location Address or 20 Hulst Rd Amherst, M. Office Review Published Soil Survey Available: No Year Published Publication Scale Soil Map Unit Drainage Class Soil Limitations Surficial Geologic Report Available: No 4 Yes | Year Published Publication Scale Geologic Material (Map Unit) Landform Flood Insurance Rate Map: Above 500 year flood boundary No Yes Within 500 year flood boundary No Byes Within 100 year flood boundary No Yes Wetland Area: National Wetland Inventory Map (map unit) Wetlands Conservancy Program Map (map unit) Current Water Resource Conditions (USGS): Month Range : Above Normal Normal Bekey Normal

Commonwealth of Massachusetts



Other References Reviewed:

11

Location Address or Lot No	Zo	Hulst	ED	
----------------------------	----	-------	----	--

On-site Review

Deep Hole Number 1+2 Date: 6/	111 Time: 10:35 Weather Sun &
Location (identify on site plan)	
	%) Surface Stones not
Vegetation 97455	
Landform TENES	
Position on landscape (sketch on the back) .	
Distances from:	
Open Water Body 100 Heet	Drainage way 50 4 feet
Possible Wet Area	Property Line 32 + feet
Drinking Water Well feet	Other

		DEEP OF	SERVAT	TON HO	LE LOG*
		1			
Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munseil)	Soil Mording	Cther (Structure, Stones, Boulders, Consistency, Gravel)
0-9"	Ap	FSZ	10 4173/3	-	Frakte, hoose
9"-76"	BW	£5	2.545ん		F. Souly, grander.
76"-176"	٠, ٢,	(5	2.544/3		med - (corse Sid, granta
					Loose, 15% stores
0-8"	Ap	FSC	10413/3		Fraha Loose.
3"-Z6"	Bw	fs	2545/6	Not-	- f. Sond, granular
6">120"	C.,	LS	2.544/3	065.	- Med-Coase Said, gpull
				,	LOOSE, 15% Steas
=				1	
1		EQUIRED AT EVE			

Parent Material (geologic) Ochush DepthoBedrock:

Depth to Groundwater: Standing Water in the Hole: Weeping from Pit Face:

Estimated Seasonal High Ground Water: 120 4



*			

Lacation Address or Lot No.	20 Hulst an
	. /

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

Date:	Colilia	Time: 10:45 · ·	
Observation Hole #		10.1)	Andrew Comments
Depth of Perc	(ANT		- The state of the
Start Pre-soak	HOLD (R	
End Pre-soak	Water	e .	-
Time at 12"		P	
Time at 9"		a .	
Time at 6"			
Time (9"-6")		1 1	***************************************
Rate Min./Inch	27		

· reserve ar	ea.
Site Passed 🗓	Site Failed
Performed By:	A Weiss.
Witnessed By:	E. Smith
Comments:	

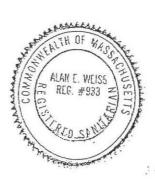


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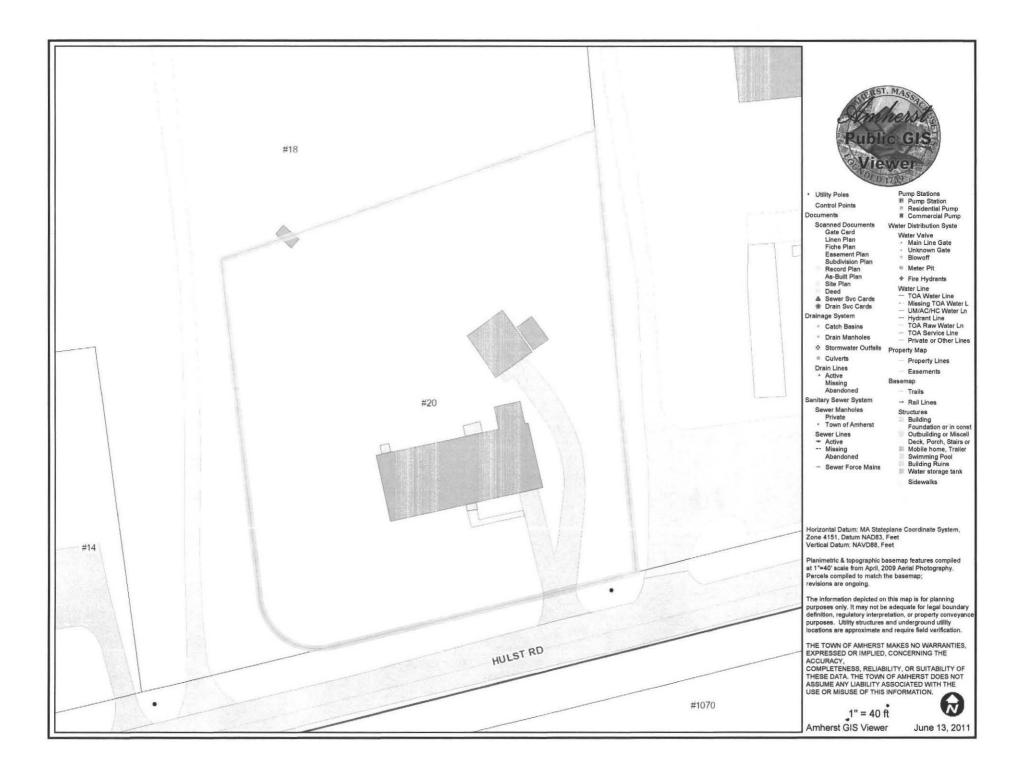
Page	2	25	2
1 age	J	UI	_

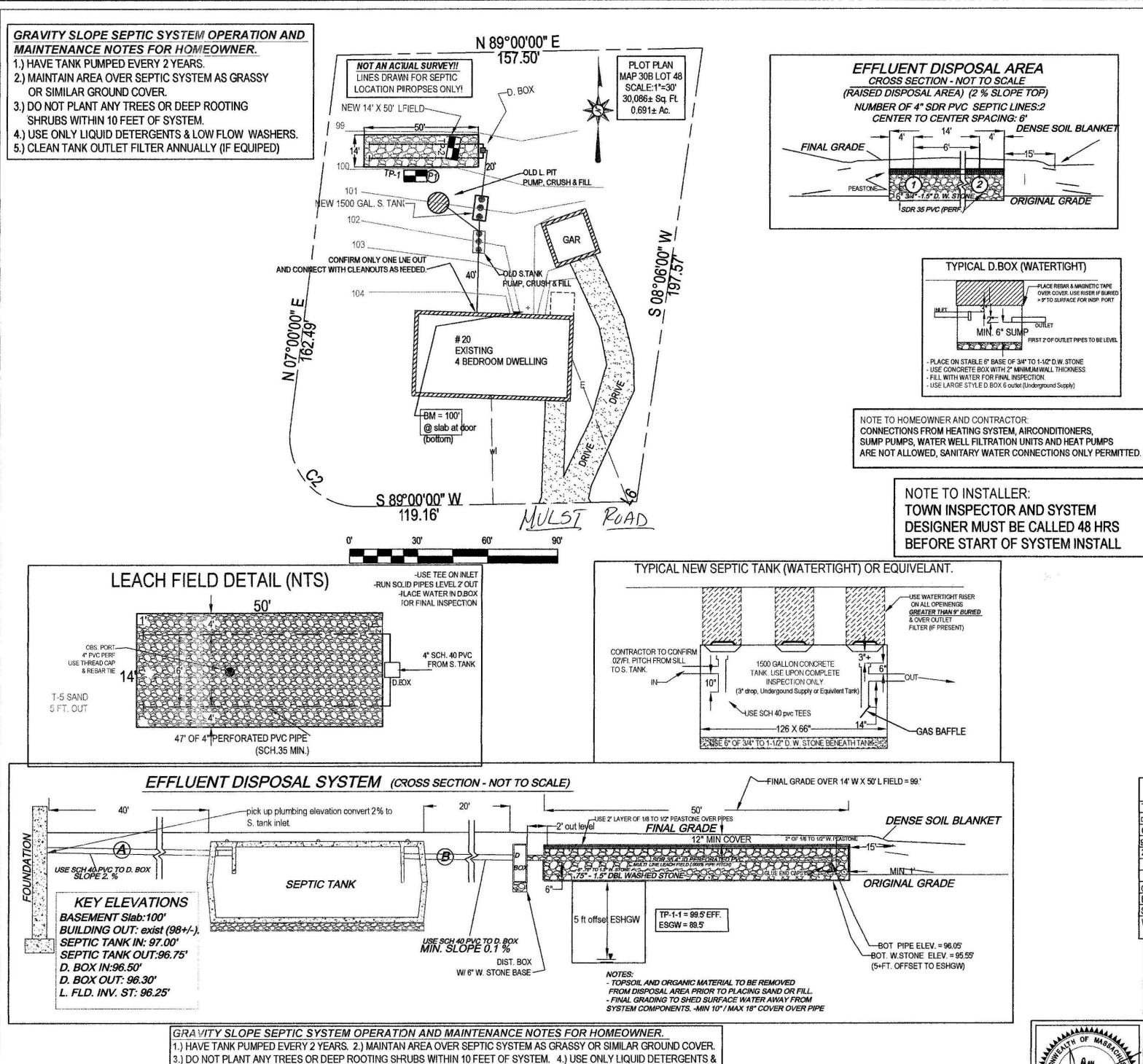
Location Address or Lot No. Zo Huist PD
Determination for Seasonal High Water Table
Method Used:
Depth observed standing in observation hole inches Depth weeping from side of observation hole inches Depth to soil mottles /// inches Ground water adjustment feet
Index Well Number
Adjustment factor Adjusted ground water level
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?
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.
Signature Date 6/1/11

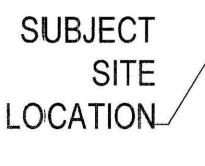


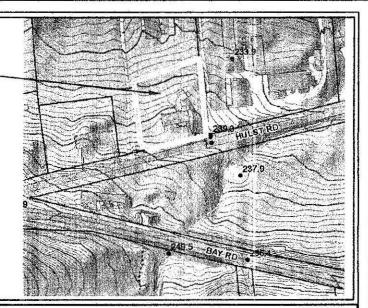


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DESIGN NOITES AND CALCULATIONS:

1.) 4 (BEDROOM HOME) = 440 GPD MIN.REQUIRED,

-Use LEAC:HING FIELD 14' WIDE X 50' LONG WITH 6" OF 3 TO 15 DBL WASHED STONE BELOW INVERT

- BOTTOM AREA: L. FIELD(14' W X 50' L) =700 SF.

- TOTAL AR(EA: 700 SF X .74 GAL/SF =518 GPD PROVIDED.

3. GARBAGE DISP'OSAL NOT PERMITTED.

4. NO OTHER PRIWATE WELLS WITHIN 150 FEET OF SAS.

5. NO OTHER WETILANDS WITHIN 50 FEET OF SAS,

6. USE S. TANK AS: NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK - INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),

- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE

SURE TO MAINITAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES. USE LARGE STYLE (6 OUTLET) D.BOX ONLY.

7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS

- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.

7B ANY /ALL PLASITIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.

8. -USE (.75"-1 1/22") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.

-USE ONLY DBIL. WASHED APPROVED(.75"-1.5") FOR PLACEMENT IN LEACH AREA.

9. USE PROPER SCH. 40 PVC TEES AS SHOWN.

10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs)

 SLOPE CALCS ((SEE CONTOURS). SUBGRADE INSP. REQ'D. 13. USE FIELD DUE: TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND

ELEVATION OF: RESIDENCE & ESHGW (310 CMR 15.240)

14. USE 2% MIN. SILOPE OVER SAS

- CLEAR TOP AIND SUB TO 32" MIN. AS NEEDED (INSPECTION REQUIRED).

- CLEAR PAST (BASE OF B (MIN. 32") & SCARIFY UNDER TRENCH PRIOR TO TITLE V SAND/STONE PLACEMENT

- EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.

15. SOIL EVALUATION BY A. WEISS, RS. (E. Smith), BOH AGENT).

- DEPTH OF PEIRC. 40"

- PERC RATE =: <2 MIN/IN,

- CLASS 1, SAND SOIL RATING

16. NO TREES WITHIN 10 FT. OF NEW LEACH AREA.

17. ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.

18. BM=100.00 @ (Slab, as noted), CONFIRM PROPER PIPE SLOPES

- USE/INSPECT' SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK

GRADE MULCHI AND SEED OVER SAS AS NOTED.

20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF: STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR...

TEST PIT LOG:					SOIL EVALUATOR: A. WEISS, RS				DATE OF EVALUATION: 06.01.2011	
TP-1 EF	F. ELE\	/: 97.0°		VALUE OF THE REAL PROPERTY OF	TP-2 EF	F. ELE	<i>]</i> ;			
DEPTH:	HORIZ:	TEXTURE:	COLLOR (MUJNSELL):	MATERIAL:	DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSELL	.): MATERIAL:	
0-9*	Ap		10 YR 33	FRIABLE	0-8"	Α	SL	10 YR 3	.3 FRIABLE	
9-26"	Bw	F. SAND	2.5Y 5.6	F. SAND, GRANULAR	8-26"	Bw	F. SAND	2.5Y 5.	6 F. SAND, GRANULAR	
26-126	C1	C SAND	2:.5Y 4.3	MED-CRSE SAND, GRANULAR	26-120*	C1	C SAND	2.5Y 4	.3 MED-CRSE SAND, GRANULAR	
				LOOSE, 15% STONES					LOOSE, 15% STONES	
OXIDES: INOT OBSERVED			OBSERVED	OXIDES: NO			NOT	OBSERVED		
EHWT: 120"+					EHWT:					
STANDING H2O: -			STANDING H2O:							
WEEPING: -				WEEPING: -			-			

SEPTIC SYSTEM REPAIR PLAN FOR BIODYNAMIC FARMLAND CONSERVATION TRUST

20 HULST ROAD AMHERST, MA

Cold Spring Environmental Consultants Inc. 350 Old Enfield Road Belchertown, MA. 01007

PHONE: (413) 32:3-5957 FAX: (413) 323-4916 c-Mail: AEWEISS@charter.net DRAWN BY **ALAN WEISS** 06.12.2011 DRAWING NUMBER: 110-3590-0601 SCALE: 1"=30"



ATTENTION INSTALLER!! NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTLITY IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR

LOW FLOW WASHERS.

LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

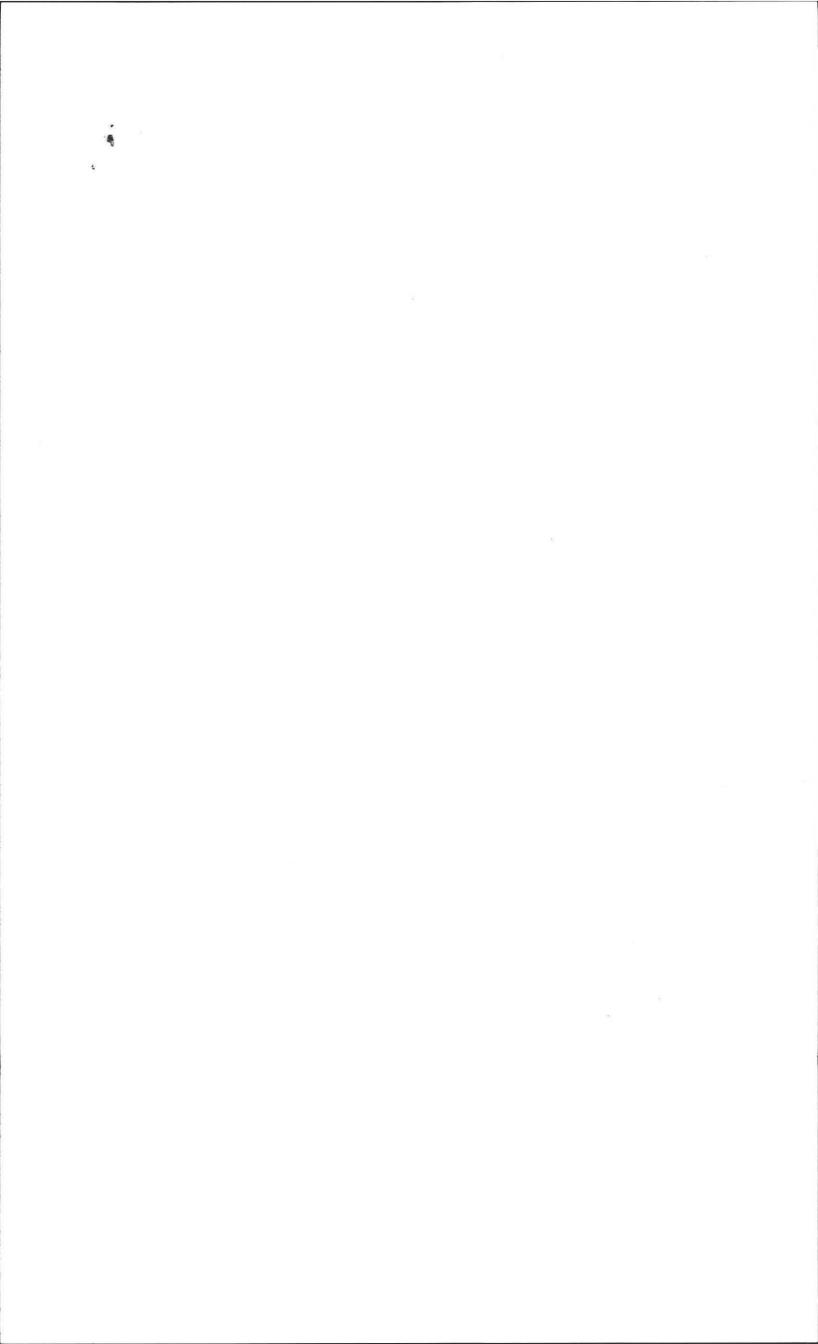
APPROVAL WILL NOT BE GIVEN TO BACKFILL.

No			

COMMONWEALTH OF MASSACHUSETTS Board of Health, AMPOST, MA.

			•.		20. F
Application for a Permit to Construct()	Repair	Upgrade()	Abandon()	- Complete System	☐ Individual Components

APPLICATION FOR DISPOSAL	SYSTEM CONSTRUCTION PERMIT
Location Zo HUIST PD	Owner's Name Boody, saic Formland Casu. TNST.
1 - /	
. 300/16	Address ZY 10/5+ 17 Telephone# 253 - 7991
7.6	
(C) CY Cavery	1/101 - 21.53
Address Hacky, NA. Telephone# 549-5396	perce perce, year
Type of Building Residual	Lot Size <u>30.086</u> . sq. ft.
	Garbage grinder
Other - Type of Building Other Fixtures	No. of personsShowers (), Cafeteria ()
Plan: Date 6/13/01 Number of sheets	
Soil Evaluator Form No Name of Soil Eva	luator #-Weis 3 Date of Evaluation 611280
DESCRIPTION OF REPAIRS OR ALTERATIONS	1
The state of the s	4
3	
inspections	ate Voil 10 2011
No. 4/1/2011 COMMONWEATTE	FEE \$150.00
12-01	
Board of Health, A	MHERST , MA.
CERTIFICATE	OF COMPLIANCE
Description of Work: Individual Component(s) M Complet The undersigned hereby certify that the Sewage Disposal System; Dy: KARUS EXCAIATING IT 20 HUST ROAD	Constructed (), Repaired (), Upgraded (), Abandoned ()
nas been installed in accordance with the provisions of 310 CMR application No, dated Appro-	15.00 (Title 5) and the approved design plans/as-built plans relating to ved Design Flow5(8)(gpd)
meraller KARLS Excapanic	Co Ol Custer
Designer: ALAN WEISS Inspector: E	DATE Date: 7/1/2011
The issuance of this permit shall not be construed as a guarantee	
No	
COMMONWEALTE	I OF M. C. L. Kasa +
Board of Health,	DIGN TRESE
DISPOSAL SYSTEM	
Permission is hereby granted to; Construct() Repair()	Upgrade
at	theath w/ propor on for
Disposal System Construction Permit No, da	ated ^
	Yel.
Provided: Construction shall be completed within three ye	A1
Form 1255 Rev. 5/96 A.M. Sulkin Co. Charlestown, MA DateBc	pard of He He —



FORM 11 - SOIL EVALUATOR FORM Page 1 of 3

ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional Registered Sanitarian Hydrogeologist

President

(413) 323-5957 & 323-4916 (FAX)

350 Old Enfield Rd.

Belchertown, MA 01007

·Wetland Consults •Soil and Water Testing •21E Site Investigations

·Percolation Tests and

*Septic Designs

•Title 5 Inspections

aeweiss@charter.net

Date: _6/1/11

Commonwealth of Massachusetts whorst , Massachusetts Soil Suitability Assessment for On-site Sewage Disposal

	0 1 0000
Performed By: A weisr Witnessed By: E. Son H.	Date: 6/1/11
	Biochyannic Fernland Conferentin Trus Owner's Name. Brook Fréld Farm house Accres, and ZO Hulst RD Amherst MA.
Office Review	
Published Soil Survey Available: No Yes Year Published Publication Scale Drainage Class Soil Limitations Surficial Geologic Report Available: No Yes Year Published Publication Scale Geologic Material (Map Unit) Landform Flood Insurance Rate Map: Above 500 year flood boundary No Yes Within 500 year flood boundary No Yes Within 100 year flood boundary No Yes Wetland Area:	Soil Map Unit
National Wetland Inventory Map (map unit) Wetlands Conservancy Program Map (map unit)	
Current Water Resource Conditions (USGS): Month Range: Above Normal Normal Delaw Normal Other References Reviewed:	



•			

Location Address or Lot No.	Zo	Hulst	ED	
-----------------------------	----	-------	----	--

On-site Review

Deep Hole Number 172 Date: 6	1/11 Time: 10:35 Weather SUN 80.
Location (identify on site plan)	
	(%) Surface Stones not
Vegetation 91255	
Landform 18 mg cal	
Position on landscape (sketch on the back)	The part of the second
Distances from:	The second secon
Open Water Body 100 Heet	Drainage way 56 4 feet
Possible Wet Area _loo't feet	Property Line 32 / feet
Drinking Water Well 100 4 feet	Other

Depth from	C-1111	1	1		
Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mortling	Other (Structure, Stones, Boulders, Consistency, Gravel)
0-9"	Ap	FSL	10 71 3/3	-	Frakte, hoose.
9"-26"	BW	£5	2.545元	į.	F. Souly, grander.
76"-176"	. ()	(5	2.544/3		med - course said, granda
1					Loose , 15% stores
0-8"	Ap	FSC	10413/3		- Fraha Loose
· '-26'	Bw	fs.	2.545/6	Not.	- f. Sendy, granular
6">120"	C	LS	2,544/3	065-	- Med-Coarse Said, growt
					LOOSE, 15% Steas



ja			

Lacation .	Address or	Lot No	20	Hutst	(D	

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

*	Percolation Te	st*
Date:	blila	Time:, 10:45
Observation Hole #	To the second se	10.1)
Depth of Perc	(ANT	
Start Pre-soak	HOLD (R
End Pre-soak	. Water	е.
Time at 12"		P
Time at 9"	-	a
Time at 6"		(
Time (9"-6")		
Rate Min./Inch	V 2	

· reserve at	ea.
Site Passed	Site Failed
Performed By:	A Weiss.
Witnessed By:	E. Saith
Comments:	

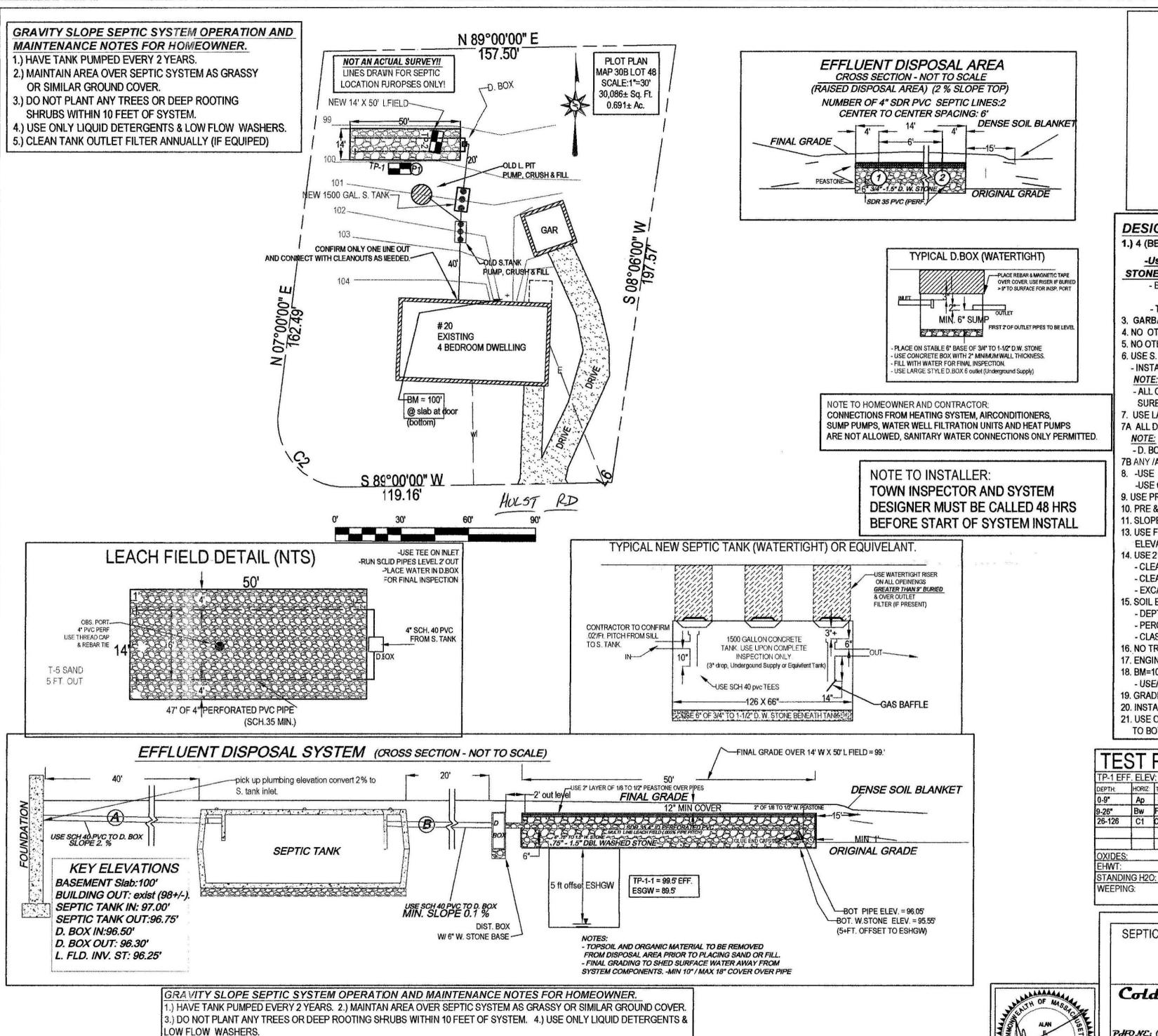


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Location Address or Lot No. 20 HUIST ID
Determination for Seasonal High Water Table
Method Used:
□ Depth observed standing in observation hole inches □ Depth weeping from side of observation hole inches □ Depth to soil mottles /// inches □ Ground water adjustment feet
Index Well Number Reading Date Index well level
Adjustment factor Adjusted ground water level
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 (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 Date 6/1/11
ALAN E. WEISS



<i>:</i>				
•				



NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO

APPROVAL WILL NOT BE GIVEN TO BACKFILL.

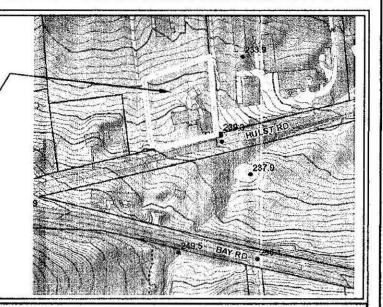
CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND

REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTLITY IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR

ATTENTION INSTALLER!!

LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

SUBJECT SITE LOCATION



DESIGN NOTES AND CALCULATIONS:

1.) 4 (BEDROOM HOME) = 440 GPD MIN.REQUIRED.

-Use LEACHING FIELD 14' WIDE X 50' LONG WITH 6" OF \(\frac{3}{4}\)" TO 1\(\frac{1}{2}\)" DBL WASHED STONE BELOW INVERT:

- BOTTOM /AREA: L. FIELD(14' W X 50' L) =700 SF.

- TOTAL ARREA: 700 SF X .74 GAL/SF =518 GPD PROVIDED.

3. GARBAGE DISPOSAL NOT PERMITTED.

4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.

5. NO OTHER WETTLANDS WITHIN 50 FEET OF SAS,

6. USE S. TANK AS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK

- INSTALL & INSIPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),

- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE

SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.

USE LARGE STYLE (6 OUTLET) D.BOX ONLY.

7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS

-D. BOXES WIT'H MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.

7B ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.

8. -USE (.75"-1 1/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.

-USE ONLY DBIL. WASHED APPROVED(.75"-1.5") FOR PLACEMENT IN LEACH AREA.

9. USE PROPER S(CH. 40 PVC TEES AS SHOWN.

10. PRE & POST CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs)

11. SLOPE CALCS (SEE CONTOURS). SUBGRADE INSP. REQ'D.

13. USE FIELD DUE: TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND

ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)

14. USE 2% MIN. SILOPE OVER SASCLEAR TOP AND SUB TO 32" MIN. AS NEEDED (INSPECTION REQUIRED)

- CLEAR PAST IBASE OF B (MIN. 32") & SCARIFY UNDER TRENCH PRIOR TO TITLE V SAND/STONE PLACEMENT

- EXCAVATE EXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.

15. SOIL EVALUATION BY A. WEISS, RS. (E. Smith), BOH AGENT).

- DEPTH OF PERC. 40"

- PERC RATE == <2 MIN/IN,

- CLASS 1, SAIND SOIL RATING

16. NO TREES WITHIN 10 FT. OF NEW LEACH AREA.

17. ENGINEER TO IINSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.

18. BM=100.00 @ (\Slab, as noted), CONFIRM PROPER PIPE SLOPES

- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK

19. GRADE MULCHI AND SEED OVER SAS AS NOTED.

20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

21. USE OBSERVAITION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR...

TEST PIT LOG:					SOIL EVALUATOR: A. WEISS, RS				DATE OF EVALUATION: 06.01.2011	
TP-1 EF	F. ELEN	/: 97.0 [']			TP-2 EF	F. ELE\				
DEPTH;	HORIZ:	TEXTURE:	COLOR (MUNSELL):	MATERIAL:	DEPTH:	HORIZ:	TEXTURE:	(MUNSELL):	MATERIAL:	
0-9"	Ap	FSL	10: YR 33	FRIABLE	0-8"	Α	SL	10 YR 3.		
9-26"	Bw	F. SAND	25Y 5.6	F. SAND, GRANULAR	8-26"	Bw	F. SAND	2.5Y 5.6	F. SAND, GRANULAR	
26-126	C1	C SAND	22.5Y 4.3	MED-CRSE SAND, GRANULAR	26-120"	C1	C SAND	2.5Y 4.3	3 MED-CRSE SAND, GRANULAR	
				LOOSE, 15% STONES					LOOSE, 15% STONES	
OXIDES: INOT OBSERVED		OBSERVED	OXIDES:		NOT	OBSERVED				
EHWT:			1220" +		EHWT:					
STANDI	NG H2C):	•		STANDING H2O:					
WEEPIN	G:		-		WEEPING: -					

SEPTIC SYSTEM REPAIR PLAN FOR BIODYNAMIC FARMLAND CONSERVATION TRUST

20 HULST ROAD AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Dld Enfield Road

DELCHERTOWN, W.A. 01007

DELCHERTOWN, W.A. 01007

DELCHERTOWN, W.A. 01007

DELCHERTOWN, W.A. 01007

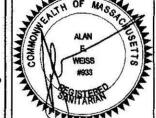
C-Wail: AEWEJSS@charter.net

DELCHERTOWN, W.A. 01007

C-Wail: AEWEJSS@charter.net

DELCHERTOWN, W.A. 01007

DELCHERTOWN, W.A. 0



No			
LYO.			

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amhorst

ADDITICATION FOR DISPOSALS	SYSTEM CONSTRUCTION PERMIT
Application for a Permit to Construct() Repair ⋈ Upgrade() A	
Application for a Termit to Construct() Repair (V Opgrade()) A	bandon() - G complete system G muvidual components
Location Zo Hc/St. PD	Owner's Name Book, swic Formland Consu. TNST.
Map/Parcel# 30B/Y8	Address ZY HUIST 10
Lot# 48	Telephone# 253 - 7991
Installer's Name Kori'S Excavely.	Designer's Name Alan Wei55
Address Hailly MA.	Address Belde Four, Man
Address Hailly MA. Telephone# 349-5396	Telephone# 32.3-5957
Type of Building Rosdul-	Lot Size <u>30,0%</u> sq. ft.
	. Garbage grinder
	No. of persons Showers (), Cafeteria ()
Other Fixtures	
Design Flow (min. required) 440 gpd Calculated	
Plan: Date 6/13/2011 Number of sheets	/ Revision Date
Title Septic System Regain Plans	
Description of Soil(s) (1455): SAND	
Soil Evaluator Form No Name of Soil Evalu	nator A-Wess Date of Evaluation 6111200
	*
DESCRIPTION OF REPAIRS OR ALTERATIONS	d.
	4
The undersigned agrees to install the above described Individual Sev	wage Disposal System in accordance with the provisions of TITLE 5 and
further agrees to not to place the system in operation until a Certific Signed Dat	
Signed Clauff Dat	c <u> </u>
Inspections	

·			

FORM 11 - SOIL EVALUATOR FORM

Page 1 of 3

ALAN E. WEISS, M.S., R.S., L.S.P.

Licensed Site Professional Registered Sanitarian Hydrogeologist President

350 Old Enfield Rd.

Belchertown, MA 01007

•Wetland Consults
•Soil and Water Testing

•21E Site Investigations ·Percolation Tests and

•Septic Designs
•Title 5 Inspections

(413) 323-5957 & 323-4916 (FAX) aeweiss@charter.net Date: 6/1/11

Hinhorst , Massachusetts	
Soil Suitability Assessment for On-site Sewage Disposal	
Performed By: A weisr Date: 6/1/11	
Witnessed By: E. Snits	
* Biodyanic Fernland Contervitan 7	
Location Address or Locati	30
Zo Hulst Rd Telephone 1 ZO Hulst RD	
New construction Repair Repair Amherst MA	
Office Review	
Published Soil Survey Available: No Yes Yes	
Year Published Publication Scale Soil Map Unit	
Drainage Class Soil Limitations	
Surficial Geologic Report Available: No Yes [
Year Published Publication Scale	
Geologic Material (Map Unit)	
Landform	
Flood Insurance Rate Map:	
Above 500 year flood boundary No Yes	
Within 500 year flood boundary No Yes	
Within 100 year flood boundary No Yes	
Wetland Area:	
National Wetland Inventory Map (map unit)	
Wetlands Conservancy Program Map (map unit)	
Current Water Resource Conditions (USGS): Month	
Range : Above Normal Normal Below Normal	,
Other References Reviewed:	

Commonwealth of Massachusetts



	*	

Location Address or Lot No.	Zo	Hulst	ED	
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On-site Review

Deep Hole Number 1+2 Date: 6/1	/11 Time: 10:35 Weather SUN 80.
Location (identify on site plan)	
Land Use RES. Slope (%) Surface Stones not
Vegetation 97255	
Landform Tengol	
Position on landscape (sketch on the back)	A STATE OF THE STA
Distances from:	The state of the s
Open Water Body 100 Heet	Drainage way . 56 4 feet
Possible Wet Area 100't feet	Property Line 30 / feet
Drinking Water Well 100 4 feet	
	Other

		DEEP OB	SERVAT	ION HO	LE LOG'
Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mortling	Cther (Structure, Stones, Boulders, Consistency, 9 Gravel)
0-9" 9"-26!" 76"-176"	Ap BW C,	fsz fs (5	10 4173/3 2.545/L 2.544/3		Frake, Loose. F. Sondy. grander. Med - (corse Sad, grander Loose. 15% Stores
0-8" 8'-26'	Ap Bw Ci	fsc fs Ls	104R 3/3 2545/L 2544/3	Not. 065-	- Frank Loose. - f. Sond, grander. - Med-Coase, Sond, grande LOOSE, 15% Sters
		QUIRED AT EVE		The state of the s	*



Location Address or Lot No	20 Hutst RD.
	, ,

COMMONWEALTH OF MASSACHUSETTS

, Massachusetts

,	Percolation T	'est*
Date:	1011	Time:, In'UC
Observation Hole #	11111	11me:, 10.45 ··
Obdervation: Note ::	a company	
Depth of Perc	CAS	
	CANT	
Start Pre-soak	HOLD (0
End Pre-soak	1 1000	i C
LINGTIEFSUEK	. Water	е.
Time at 12"		
		P
Time at 9"		a
Time at 6"		
Time (9"-6")		
Rate Min./Inch	V)	1
i	1 20	V

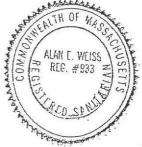
· reserve ar	ea.
Site Passed	Site Failed
Performed By:	A Weiss.
Witnessed By:	E. Saitu
Comments:	evenue evenue en



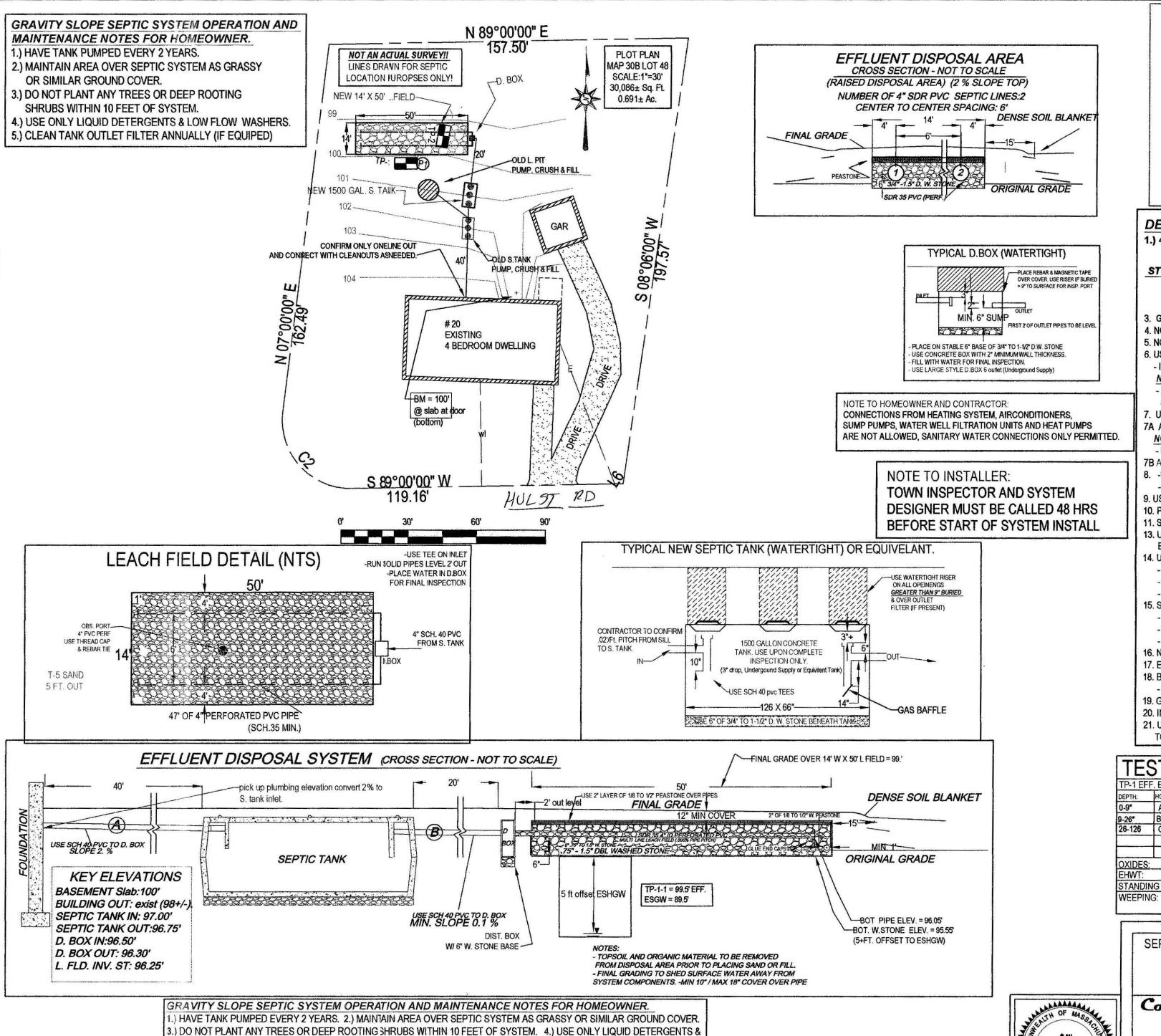
# 5				

Location Address or Lot No. Zo 7	Huist RD
<u>Determination fo</u>	r Seasonal High Water Table
Method Used:	
☐ Depth observed standing☐ Depth weeping from side☐ Depth to soil mottles . /Z☐ Ground water adjustment	
Index Well Number Read	ding Date Index well level
Adjustment factor Adju	usted ground water level
Depth of Naturally Occurring Perviou	us Material
Does at least four feet of na observed throughout the area	turally occurring pervious material exist in all areas proposed for the soil absorption system?
If not, what is the depth of na	aturally occurring pervious material?
Certification	
,	(date) I have passed the soil evaluator examination f Environmental Protection and that the above analysis nt with the required training, expertise and experience
Signature A	Date 6/1/11
	CATH OF MAC





r *		



NOTE: INSTALLER MUST CONTACT ENGINEER/BD OF HEALTH 48 HOURS PRIOR TO

APPROVAL WILL NOT BE GIVEN TO BACKFILL

LOW FLOW WASHERS.

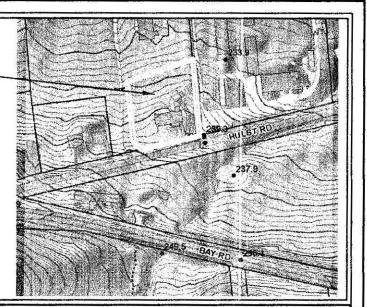
LINES BE MADE A MINIMUM OF 72 HOURS PRIOR TO GROUND BREAK FOR ANY EXCAVATION.

CALL DIG SAFE BEFORE YOU DIG!! MASSACHUSETTS STATE LAW CHAPTER 82 SECTIONS 40 - 40E SUBGRADE INSPECTION. INSTALLER MUST HAVE ALL BREAK OUT FILL ON SITE AND

REQUIRE THAT PREMARKING OF GAS, ELECTRIC, WATER, TELEPHONE AND CABLE T.V. UTILITY IN PLACE PRIOR TO SIGN OFF BY ENGINEER AT TIME OF FINAL INSPECTION OR

ATTENTION INSTALLER!!

SUBJECT SITE LOCATION_



DESIGN NOTES AND CALCULATIONS:

1.) 4 (BEDROOM HOME) = 440 GPD MIN.REQUIRED,

-Use LEA:CHING FIELD 14' WIDE X 50' LONG WITH 6" OF \(\frac{3}{4}\)" TO 1\(\frac{1}{2}\)" DBL WASHED STONE BELOW INVERT:

- BOTTOMI AREA: L. FIELD(14' W X 50' L) =700 SF.

- TOTAL AIREA: 700 SF X .74 GAL/SF =518 GPD PROVIDED.

. GARBAGE DISPOSAL NOT PERMITTED.

4. NO OTHER PRIVATE WELLS WITHIN 150 FEET OF SAS.

5. NO OTHER WETLANDS WITHIN 50 FEET OF SAS,

6. USE S. TANK ALS NOTED & MAINTAIN 0.02 PITCH FROM SILL TO S. TANK

- INSTALL & INSPECT SCH. 40 TEES / BAFFLES (10" INLET, 14" OUTLET),

- ALL COMPONENTS OF NEW SYSTEM MUST BE MARKED WITH MAGNETIC TAPE. BE

SURE TO MAINTAIN 3" CLEARANCE FROM TOP OF TEES TO BOTTOM OF TANK COVERS & BOXES.

7. USE LARGE STYLE (6 OUTLET) D.BOX ONLY.

7A ALL D. BOX OUTLET PIPES LEVEL FOR FIRST 2'. BOXES MUST HAVE 2"+ CONC. WALLS

- D. BOXES WITH MORE THAN 9" OF COVER SOIL MUST HAVE RISERS TO 6" OF SURFACE.

7B ANY /ALL PLASTIC RISERS MUST BE SECURED WITH STAINLESS STEEL SCREWS.

8. -USE (.75"-1 11/2") STONE UNDER TANK & D. BOX FOR 6" FOR STABLE BASE.
-USE ONLY DIBL. WASHED APPROVED(.75"-1.5") FOR PLACEMENT IN LEACH AREA.

9. USE PROPER (SCH. 40 PVC TEES AS SHOWN.

10. PRE & POST (CONTOURS NOTED AS NECESSARY, RESERVE AS NOTED (not required for repairs)

11. SLOPE CALC'S (SEE CONTOURS), SUBGRADE INSP. REQ'D.

13. USE FIELD DUE TO TOPOGRAPHY AND SPACE OF LOT WITH RESPECT TO LOCATION AND

ELEVATION OF RESIDENCE & ESHGW (310 CMR 15.240)

14. USE 2% MIN. 'SLOPE OVER SAS
 CLEAR TOP' AND SUB TO 32* MIN. AS NEEDED (INSPECTION REQUIRED).

- CLEAR PAS'T BASE OF B (MIN. 32") & SCARIFY UNDER TRENCH PRIOR TO TITLE V SAND/STONE PLACEMENT - EXCAVATE IEXISTING LOAM, SUB AND ANY EXISTING DEBRIS, DIRTY FILL OR PRIOR SYSTEM IF PRESENT.

15. SOIL EVALUATION BY A. WEISS, RS. (E. Smith), BOH AGENT).

- DEPTH OF PERC. 40"

- PERC RATE = <2 MIN/IN,

- CLASS 1, SAND SOIL RATING
16. NO TREES WITHIN 10 FT. OF NEW LEACH AREA.

17. ENGINEER TO INSPECT SUBGRADE, TOWN AND ENGINEER INSPECT AT FINAL.

18. BM=100.00 @ (Slab, as noted), CONFIRM PROPER PIPE SLOPES

- USE/INSPECT SCH. 40 PIPE FOR PIPE FROM HOUSE TO NEW OR EXISTING TANK

19. GRADE MULCH AND SEED OVER SAS AS NOTED.

20. INSTALLATION IN LOW GROUNDWATER SEASON RECOMMENDED.

21. USE OBSERVATION PORT NEAR CENTER OF STONE BED HAVE 4" PERFORATED, PVC INSPECTION PORTALS TO BOTTOM (OF STONE BED, WITH RISER TO 3" OF SURFACE & THREADED CAP & MARK WITH RE-BAR...

TEST PIT LOG:				SOIL EVALUATOR: A. WEISS, RS				DATE OF EVALUATION: 06.01.2011		
TP-1 EF	F. ELE	V: 97.0'		50-000 NOSSE - 1. WEATON WEATON - 1. WEATON WEATON	TP-2 EF	F. ELE\	<i>l</i> :		A CONTRACTOR OF THE CONTRACTOR	
DEPTH:	HORIZ:	TEXTURE:	(COLOR I(MUNSELL):	MATERIAL:	DEPTH:	HORIZ:	TEXTURE:	COLOR (MUNSEL	L): MATERIAL:	
0-9"	Ap	FSL	10 YR 33	FRIABLE	0-8"	Α	SL	10 YR 3	3.3 FRIABLE	
9-26*	Bw	F. SAND	2.5Y 5.6	F. SAND, GRANULAR	8-26*	Bw	F. SAND	2.5Y 5	.6 F. SAND, GRANULAR	
26-126	C1	C SAND	2.5Y 4.3	MED-CRSE SAND, GRANULAR	26-120"	C1	C SAND	2.5Y 4	4.3 MED-CRSE SAND, GRANULA	
				LOOSE, 15% STONES	.,				LOOSE, 15% STONES	
OXIDES: NOT OBSERVED			OBSERVED	OXIDES: N			NOT	OBSERVED		
EHWT: 120" +			EHWT:							
STANDING H2O: -				STANDING H2O:						
WEEPING: -				WEEPING: -						

SEPTIC SYSTEM REPAIR PLAN FOR BIODYNAMIC FARMLAND CONSERVATION TRUST

20 HULST ROAD

AMHERST, MA

Cold Spring Environmental Consultants Inc.
350 Old Enfield Road
Belchertown, MA. 01007

