SEPTIC DESIGNS 294-304 Levelen for Cabins 098



HEALTH DEPT

NOTICE OF INTENT

Pursuant to the

Massachusetts Wetlands Protection Act Regulations, 310 CMR 10.00 & the Amherst MA, Wetlands Protection Bylaw

PROJECT:

Construction of a Barn and Greenhouse

PROJECT LOCATION:

Juggler Meadow Farms 260 Leverett Road Amherst, Massachusetts

Applicant:

Mr. Barre Tozloski Pocomo Road Nominee Trust 312 Leverett Road Amherst, MA 01002

Representative: Baystate Environmental Consultants, Inc. 296 N. Main Street East Longmeadow, MA 01028



December 2009



TABLE OF CONTENTS

WPA Form 3: Notice of Intent Application

NOI Wetland Fee Transmittal Form

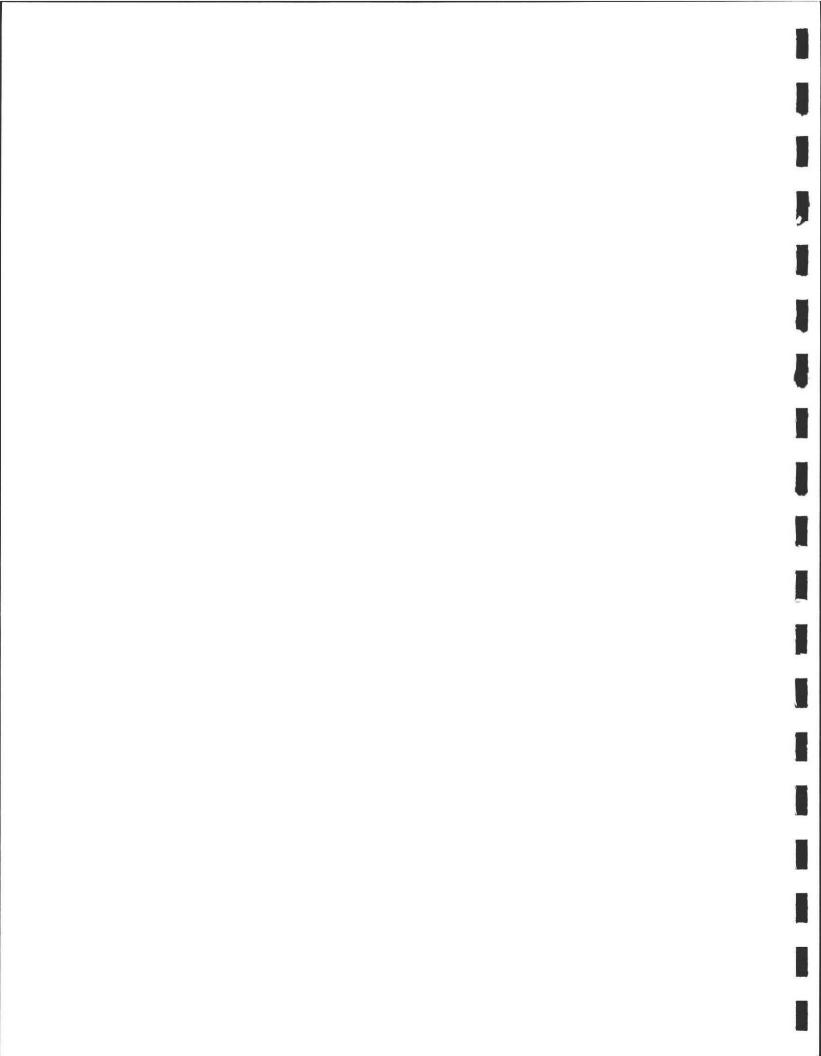
Addendum to Notice of Intent Introduction Existing Conditions Proposed Work Impact Assessment Site Photos

Appendix A: Maps Figure 1: Locus Map Figure 2: FEMA Map Figure 3: NHESP Areas Figure 4: Soils Map Figure 5: Turtle Habitat Assessment Figure 6: Vegetative Communities Figure 7: Turtle Impact Assessment

Appendix B: Abutter Information & Property Maps

Appendix C: MA DEP Data Forms

Appendix D: Site Plans





Provided by MassDEP:

MassDEP File Number

WPA Form 3 – Notice of Intent

A. General Information

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Document	Transaction	Number
Amherst		
City/Town		

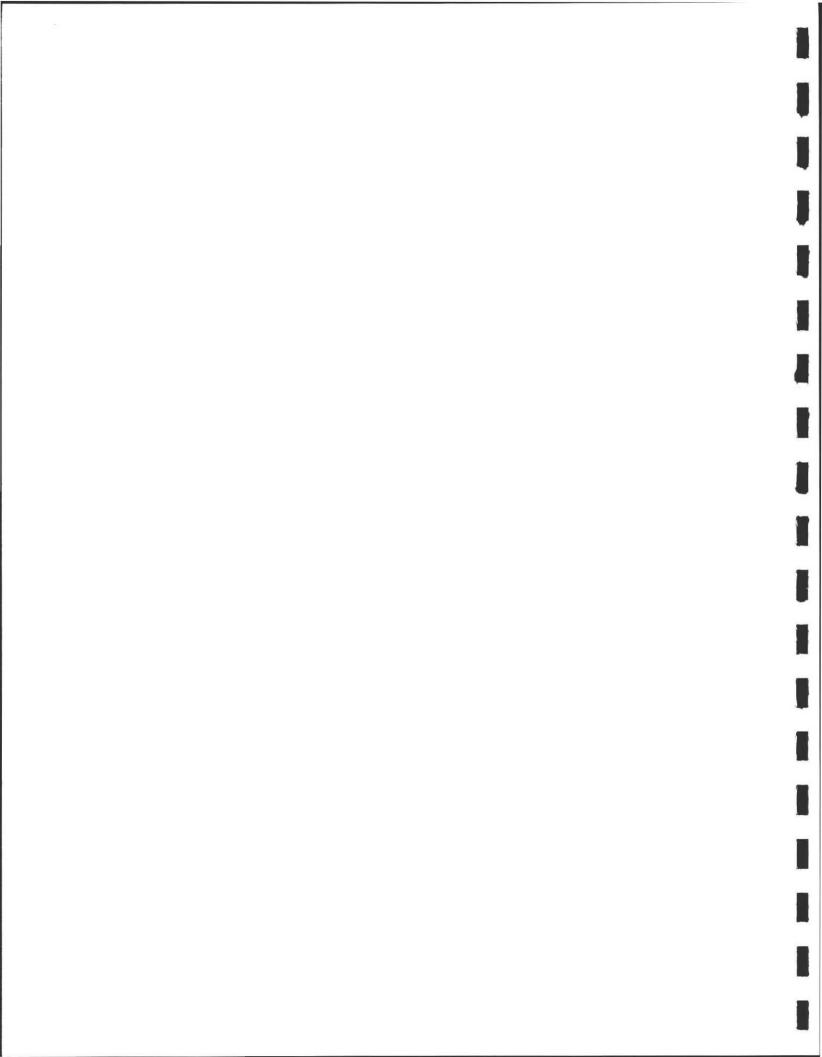
Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note: Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

260 Leverett Roa	ad	Amherst	01002		
a. Street Address		b. City/Town	c. Zip Code		
Latitude and Lor	aitudo:	72d 30' 44.7"	42d 25' 37.5"		
	gitude.	d. Latitude	e. Longitude		
3A		6 & 10			
f. Assessors Map/Pla	t Number	g. Parcel /Lot Num	ber		
Applicant:					
Barre		Tozloski			
a. First Name		b. Last Name			
Pocomo Road N	ominee Trust				
c. Organization					
312 Leverett Roa	ad				
d. Street Address		MA	01000		
Amherst e. City/Town		f. State	01002 g. Zip Code		
413-548-9802	413-548-8131	barret@jugglermea	1.500 ft		
h. Phone Number	i. Fax Number	j. Email Address			
Proporty owner (required if different from a		if more than one owner		
c. Organization					
d. Street Address					
e. City/Town		f. State	g. Zip Code		
h. Phone Number	i. Fax Number	j. Email address			
Representative (Representative (if any):				
Steven		Riberdy			
a. First Name		b. Last Name			
Baystate Environmental Consultants, Inc.					
c. Company					
296 North Main	Street				
d. Street Address		3.6.4	04000		
East Longmeado e. City/Town	W	<u>MA</u> f. State	01028		
413-525-3822	413-525-8348	SRiberdy@b-e-c.c	g. Zip Code		
h. Phone Number	413-525-6546 i. Fax Number	j. Email address	UIII		
Total WPA Fee I	Paid (from NOI Wetland F	ee Transmittal Form):			
\$750.00	\$36	2.50	\$387.50		

b. State Fee Paid





WPA Form 3 – Notice of Intent

Provided by MassDEP:

MassDEP File Number

Document Transaction Number Amherst City/Town

Massachusetts We	etlands Protection	Act M.G.L. c.	131, §40
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Α.	General	Information	(continued)
			(ooninine ou)

6. General Project Description:

Construction of a Barn within Buffer Zone and a greenhouse within previosul disturbed (lawn) Riverfront Area.

7a. Project Type Checklist:

1.	\boxtimes	Single Family Home	2.	Residential Subdivision

Limited Project Driveway Crossing 3.

- 5. Dock/Pier
- Coastal Engineering Structure 7
- Transportation 9.
- 7b. Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

6.

8.

4. Commercial/Industrial

Agriculture (e.g., cranberries, forestry)

Utilities

10. Other

1. Ves 🛛 No If yes, describe which limited project applies to this project:

2. Limited Project

8. Property recorded at the Registry of Deeds for:

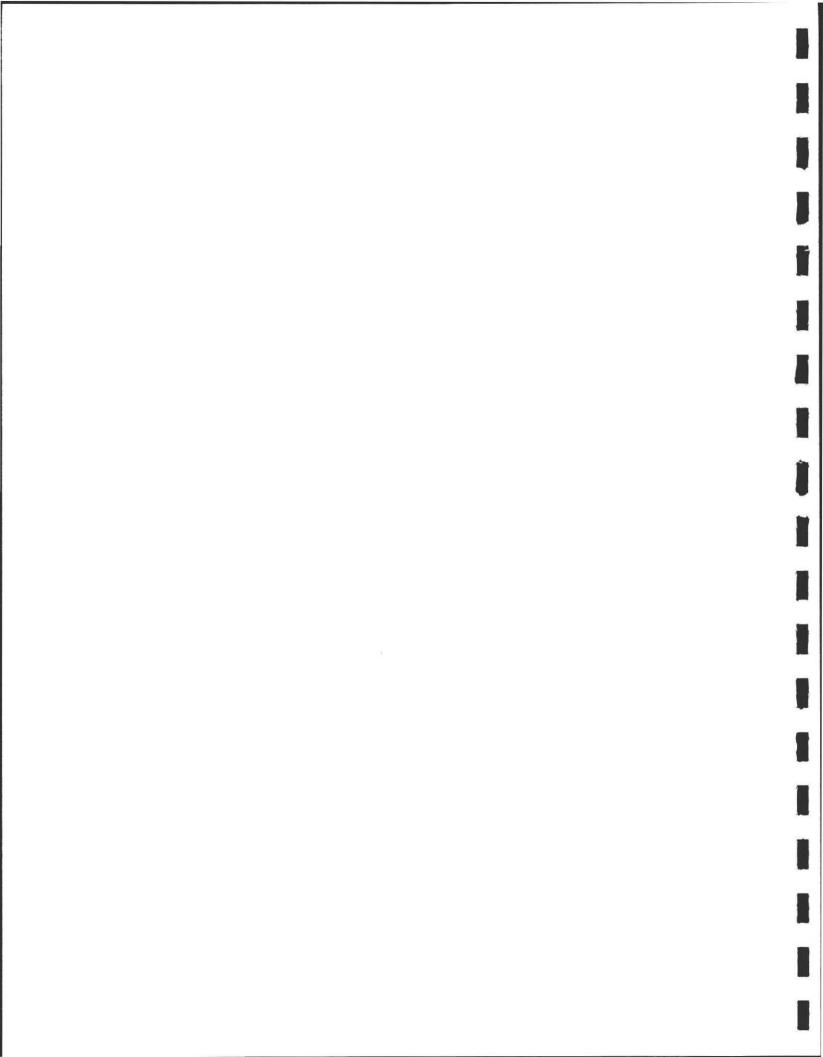
Hampshire	
a. County	b. Certificate # (if registered land)
145	105
c. Book	d. Page Number
where we are an are an are an	

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

- 1. D Buffer Zone Only Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

	Resou	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
For all projects affecting other Resource Areas,	a. 🗌	Bank	1. linear feet	2. linear feet
please attach a narrative explaining how	b. 🗌	Bordering Vegetated Wetland	1. square feet	2. square feet
the resource area was delineated.	c. 🗌	Land Under Waterbodies and	1. square feet	2. square feet
		Waterways	3. cubic yards dredged	-





Provided by MassDEP:

MassDEP File Number

WPA Form 3 – Notice of Intent

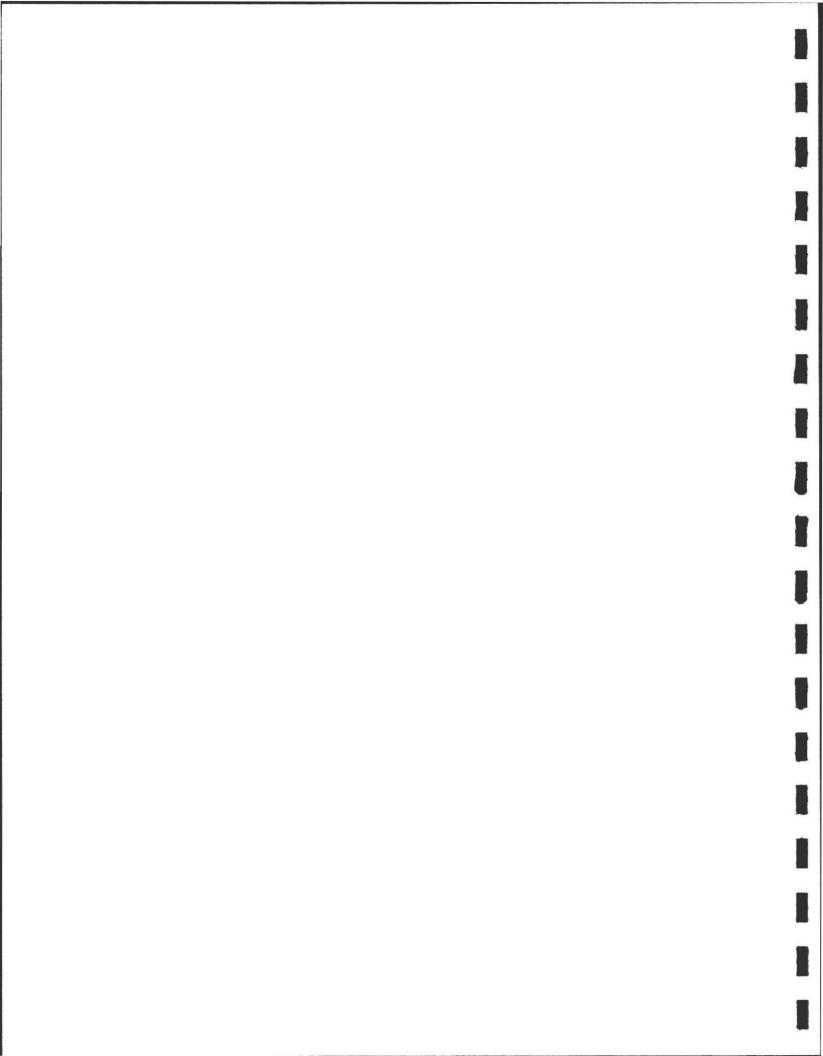
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Document Transaction Number Amherst City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

	Resour	ce Area	Size of Proposed Alteration	Proposed Replacement (if any)
	d. 🗌	Bordering Land Subject to Flooding	1. square feet	2. square feet
	e. 🗌	Isolated Land	3. cubic feet of flood storage lost	4. cubic feet replaced
		Subject to Flooding	1. square feet	
	f. 🖂	Riverfront Area	2. cubic feet of flood storage lost unnamed stream 1. Name of Waterway (if available)	3. cubic feet replaced
	2. \	Nidth of Riverfront Area (ch		
		25 ft Designated De	ensely Developed Areas only	
		100 ft New agricultu	ral projects only	
		🛛 200 ft All other proje	ects	
	3.	Total area of Riverfront Area	a on the site of the proposed projec	t: <u>155,000</u> square feet
	4.	Proposed alteration of the F	Riverfront Area:	
	94	4	800	144
	a.t	otal square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
	5. I	Has an alternatives analysis	s been done and is it attached to thi	s NOI? 🗌 Yes 🛛 No
	6. \	Was the lot where the activi	ty is proposed created prior to Aug	ust 1, 1996? 🛛 🛛 Yes 🗌 No
3.	Coa	astal Resource Areas: (See	310 CMR 10.25-10.35)	
Check all that apply below. Attach narrative and supporting documentation describing how the pro will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.				
	Resou	rce Area	Size of Proposed Alteration	Proposed Replacement (if any)
	a. 🗌	Designated Port Areas	Indicate size under Land Under	the Ocean, below
	b. 🗌	Land Under the Ocean	1. square feet	
			2. cubic yards dredged	
	c. 🗌	Barrier Beach	Indicate size under Coastal Beach	nes and/or Coastal Dunes below
	d. 🗌	Coastal Beaches	1. square feet	2. cubic yards beach nourishment
	e. 🗌	Coastal Dunes	1. square feet	2. cubic yards dune nourishment

Online Users: Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.





Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:

WPA Form 3 – Notice of Intent

MassDEP File Number

Document Transaction Number Amherst City/Town

B. Buffer Zone & Resource Area Impacts (temporary & permanent) (cont'd)

			Size of Proposed	Alteration	Proposed Replacement (if any)
	f. 🗌	Coastal Banks	1. linear feet		
	g. 🗌	Rocky Intertidal Shores	1. square feet		
	h. 🗌	Salt Marshes	1. square feet		2. sq ft restoration, rehab., creation
	i. 🗌	Land Under Salt Ponds	1. square feet		
			2. cubic yards dredge	ed	
	j. 🔲	Land Containing Shellfish	1. square feet		
	k. 🗌	Fish Runs			ks, inland Bank, Land Under the r Waterbodies and Waterways,
			1. cubic yards dredge	ed	
	I. 🗌	Land Subject to Coastal Storm Flowage	1. square feet		
4.	If the p	footage that has been enter			esource area in addition to the /e, please enter the additional
	a. square	e feet of BVW		b. square feet of S	Salt Marsh
5.	Pro	oject Involves Stream Cross	sings		
	a numbe	er of new stream crossings		b number of repla	cement stream crossings
C.		r Applicable Stan	dards and Re		
		• •		•	
51	reamiir	ied Massachusetts End	langered Specie	s Act/wetian	ds Protection Act Review
1.	the mo Heritag Natura	st recent Estimated Habita	t Map of State-Liste s Program (NHESF	ed Rare Wetlan ?)? To view hab	of Rare Wildlife as indicated on d Wildlife published by the Natural itat maps, see the <i>Massachusetts</i> abitat/online_viewer.htm.
	a. 🛛 1	Yes 🗌 No Ifyes, in	clude proof of ma	iling or hand d	lelivery of NOI to:
			al Heritage and End ion of Fisheries and		s Program

Route 135, North Drive

Westborough, MA 01581

2008

b. Date of map





WPA Form 3 – Notice of Intent

Provided by MassDEP:

MassDEP File Number

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Document Transaction Number Amherst City/Town

C. Other Applicable Standards and Requirements (cont'd)

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.C, and include requested materials with this Notice of Intent (NOI); OR complete Section C.1.d, if applicable. If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).

- 1. c. Submit Supplemental Information for Endangered Species Review*
 - 1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area

(b) outside Resource Area

rea	944 sf	
	percentage/acreage	
	24,000 sf	
	percentage/acreage	

- 2. Assessor's Map or right-of-way plan of site
- Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work ****
 - (a) Project description (including description of impacts outside of wetland resource area & buffer zone)
 - (b) Photographs representative of the site
 - (c) \boxtimes MESA filing fee (fee information available at:
 - http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_fee_schedule.htm). Make check payable to "Natural Heritage & Endangered Species Fund" and *mail to NHESP* at above address

Projects altering 10 or more acres of land, also submit:

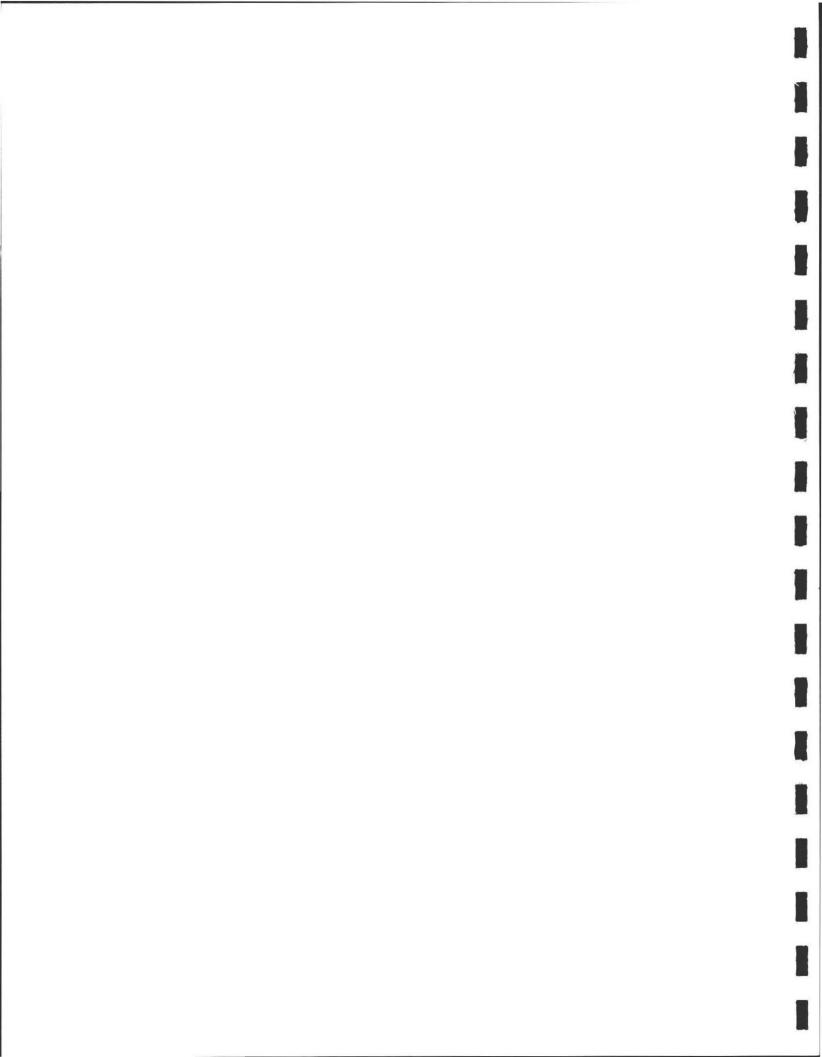
- (d) Vegetation cover type map of site
- (e) Project plans showing Priority & Estimated Habitat boundaries
- d. OR Check One of the Following
 - Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <u>http://www.mass.gov/dfwele/dfw/nhesp/regulatory_review/mesa/mesa_exemptions.htm;</u> the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)
 - 2. Separate MESA review ongoing.

a. NHESP Tracking #

b. Date submitted to NHESP

^{*} Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see http://www.mass.gov/dfwele/dfw/nhesp/nhesp.htm, regulatory review tab). Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

^{**} MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.





Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

Provided by MassDEP:

MassDEP File Number

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Document Transaction Number Amherst City/Town

C. Other Applicable Standards and Requirements (cont'd)

- 3. Separate MESA review completed. Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.
- 2. For coastal projects only, is any portion of the proposed project located below the mean high water line or in a fish run?

a. X Not applicable – project is in inland resource area only

b. Yes No If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

Division of Marine Fisheries -Southeast Marine Fisheries Station Attn: Environmental Reviewer 1213 Purchase Street – 3rd Floor New Bedford, MA 02740-6694 Division of Marine Fisheries -North Shore Office Attn: Environmental Reviewer 30 Emerson Avenue Gloucester, MA 01930

North Shore - Hull to New Hampshire:

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

Online Users: Include your document		a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). Note: electronic filers click on Website.
transaction number		b. ACEC
(provided on your receipt page) with all	4.	Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
supplementary information you		a. 🗌 Yes 🖾 No
submit to the Department.	5.	Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
		a. 🗌 Yes 🖾 No
	6.	Is this project subject to provisions of the MassDEP Stormwater Management Standards?
		 a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if: 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
		2. A portion of the site constitutes redevelopment
		3. Proprietary BMPs are included in the Stormwater Management System.
		b. No. Check why the project is exempt:
		1. Single-family house





Provided by MassDEP:

MassDEP File Number

WPA Form 3 – Notice of Intent

Massuer rile Nullibe

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Document Transaction Number Amherst City/Town

C. Other Applicable Standards and Requirements (cont'd)

- 2. Emergency road repair
- 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

Notice of Intent Plan	
a. Plan Title	
Baystate Environmental Consultants, Inc.	Thomas Jenkins, P.E.
b. Prepared By	c. Signed and Stamped by
	40
d. Final Revision Date	e. Scale
Existing Conditions Plan- Rose Associates	
f. Additional Plan or Document Title	g. Date
If there is more than one property owner.	please attach a list of these property owners not

5. If there is more than one property owner, please attach a list of these property owners not listed on this form.

- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.



BAYSTATE ENVIRONMENT



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided	by	Massu	k۲
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MassDEP File Number

Document	Transaction Number
Amherst	
Clty/Town	

E. Fees

1. Fee Exempt' No filling fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

203870	12/1/09	
2. Municipal Check Number	3. Check date	
203905	12/1/09	
4. State Check Number	5. Check date	
GZA GeoEnvironmental, Inc.		
6. Payor name on check: First Name	7. Payor name on check: Last Name	

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

12-6.04 1. Signature of Applican 2. Date 3. Signature of Property Owner (it different) 5-Bionature of Representative (

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.





Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When
filling out forms
on the computer,
use only the tab
key to move your
cursor - do not
use the return
key.

1.

2.



A. Applicant Information

Barre		Tozloski		
a. First Name		b. Last Name		
Pocomo Road Nomi	nee Trust			
c. Organization				
312 Leverett Road				
d. Mailing Address				
Amherst		MA	01002	
e. City/Town		f. State	g. Zip Code	
413-548-9802		Barret@jugglermeadow.c	om	
h. Phone Number	i. Fax Number	j. Email Address		
Property Owner (if d	ifferent):			
a. First Name		b. Last Name		
c. Organization				

e. City/Town		f. State	g. Zip Code
h. Phone Number	i. Fax Number	j. Email Address	
Project Location:			
260 Leverett Road	(Barn and Greenhouse)	Amherst	
a. Street Address		b. City/Town	

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

B. Fees

The fee should be calculated using the following six-step process and worksheet. Please see Instructions before filling out worksheet.

Step 1/Type of Activity: Describe each type of activity that will occur in wetland resource area and buffer zone.

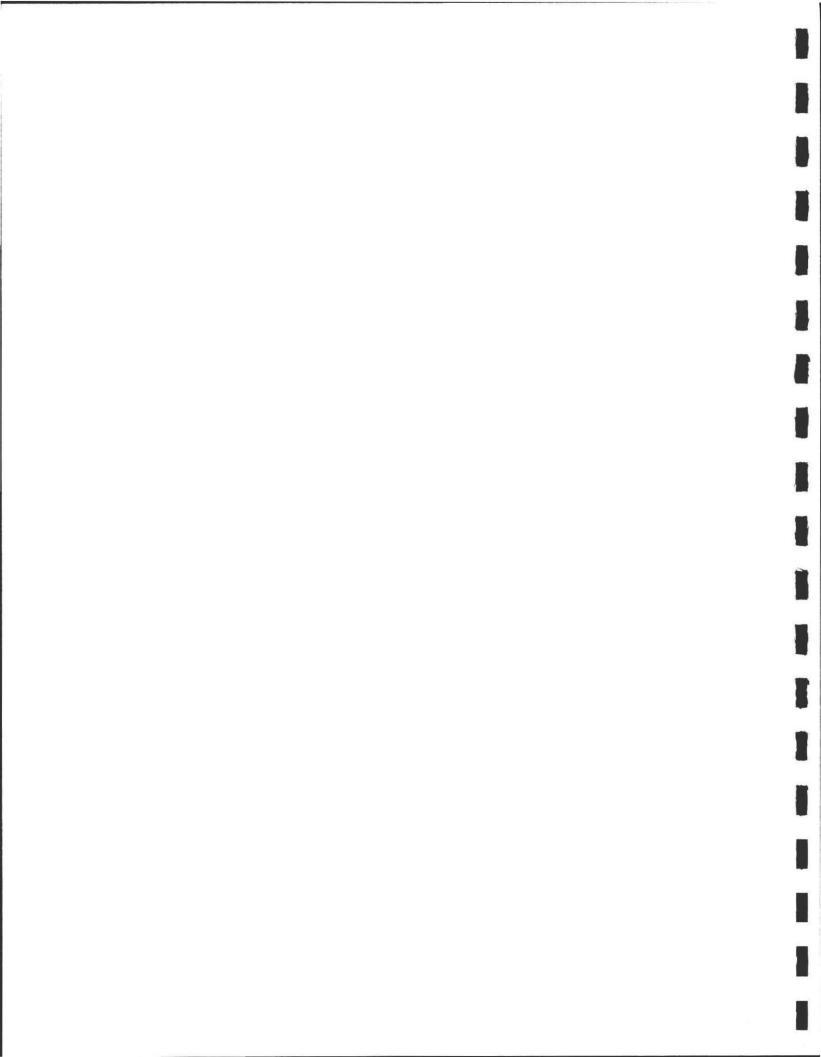
Step 2/Number of Activities: Identify the number of each type of activity.

Step 3/Individual Activity Fee: Identify each activity fee from the six project categories listed in the instructions.

Step 4/Subtotal Activity Fee: Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

Step 5/Total Project Fee: Determine the total project fee by adding the subtotal amounts from Step 4.

Step 6/Fee Payments: To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.





Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands NOI Wetland Fee Transmittal Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Fees (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
2 (j)-Other activity (Ancillary site buildings)		1	\$500.00
Riverfront Area		<u>x1.5</u>	\$250.00
	Step 5/Tc	otal Project Fee:	\$750.00
	Step 6/		
	Total Project Fee: State share of filing Fee:		\$750.00 a. Total Fee from Step 5
			\$362.50 b. 1/2 Total Fee less \$12.50
	City/Town share	e of filling Fee:	\$387.50 c. 1/2 Total Fee plus \$12.50

C. Submittal Requirements

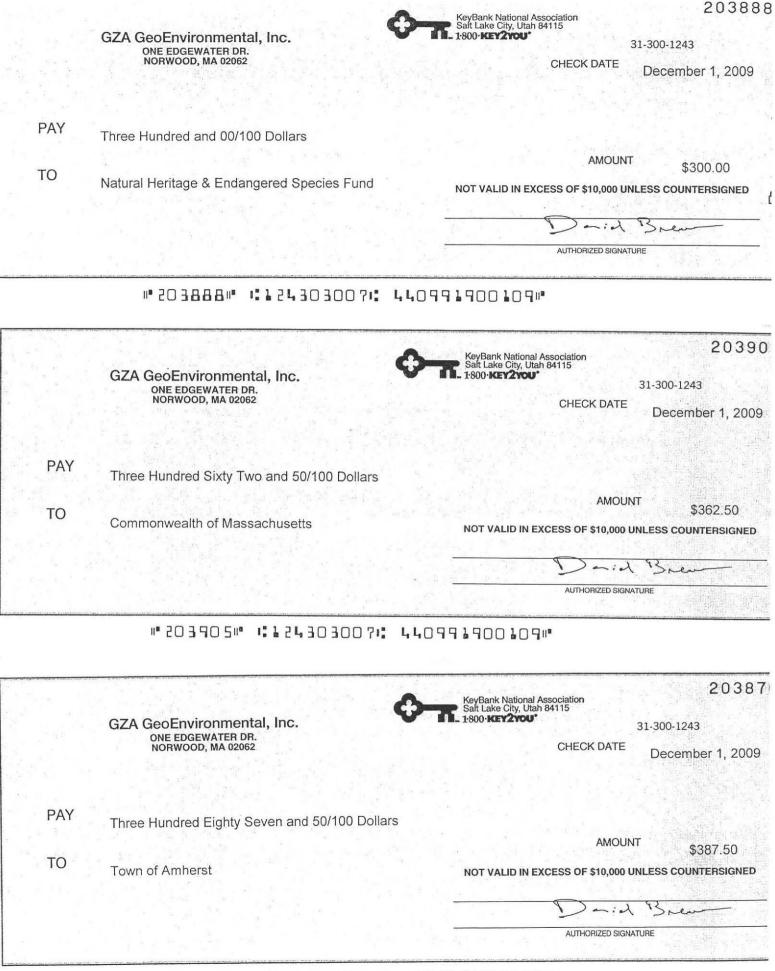
a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection Box 4062 Boston, MA 02211

b.) To the Conservation Commission: Send the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and the city/town fee payment.

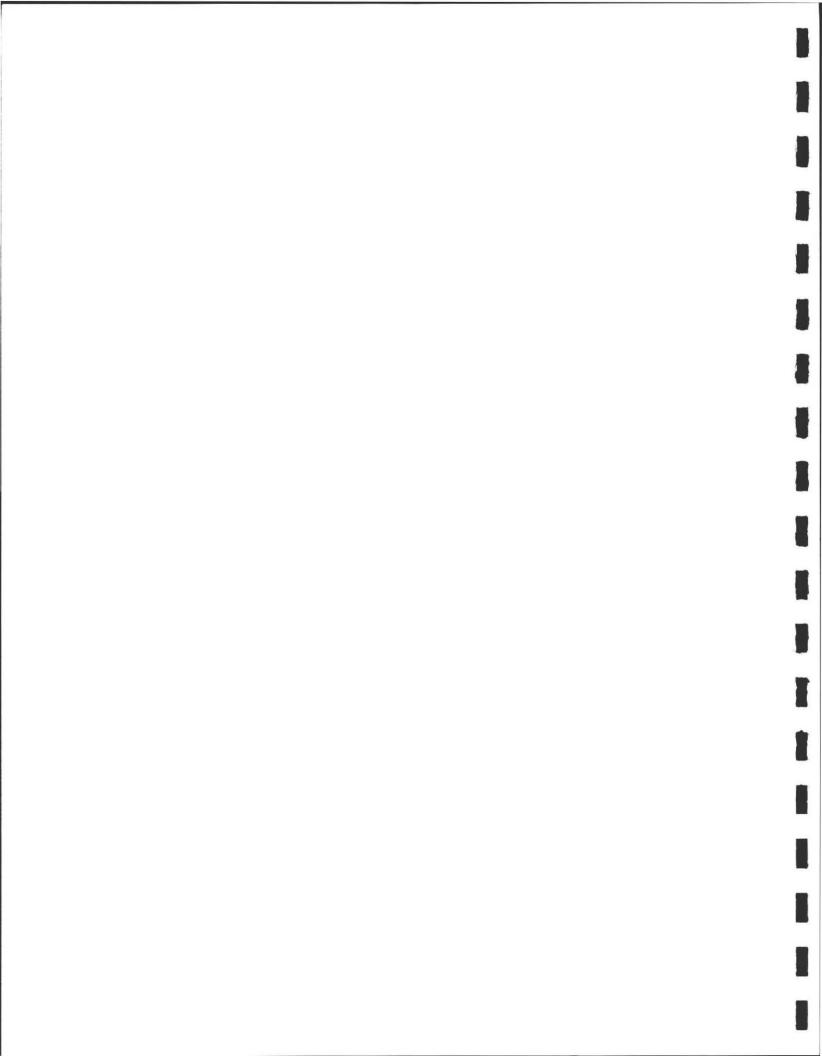
To MassDEP Regional Office (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a copy of this form; and a copy of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)





#203870# #124303007# 440991900109#

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Addendum to Notice of Intent

J

260 Leverett Road

Amherst, Massachusetts



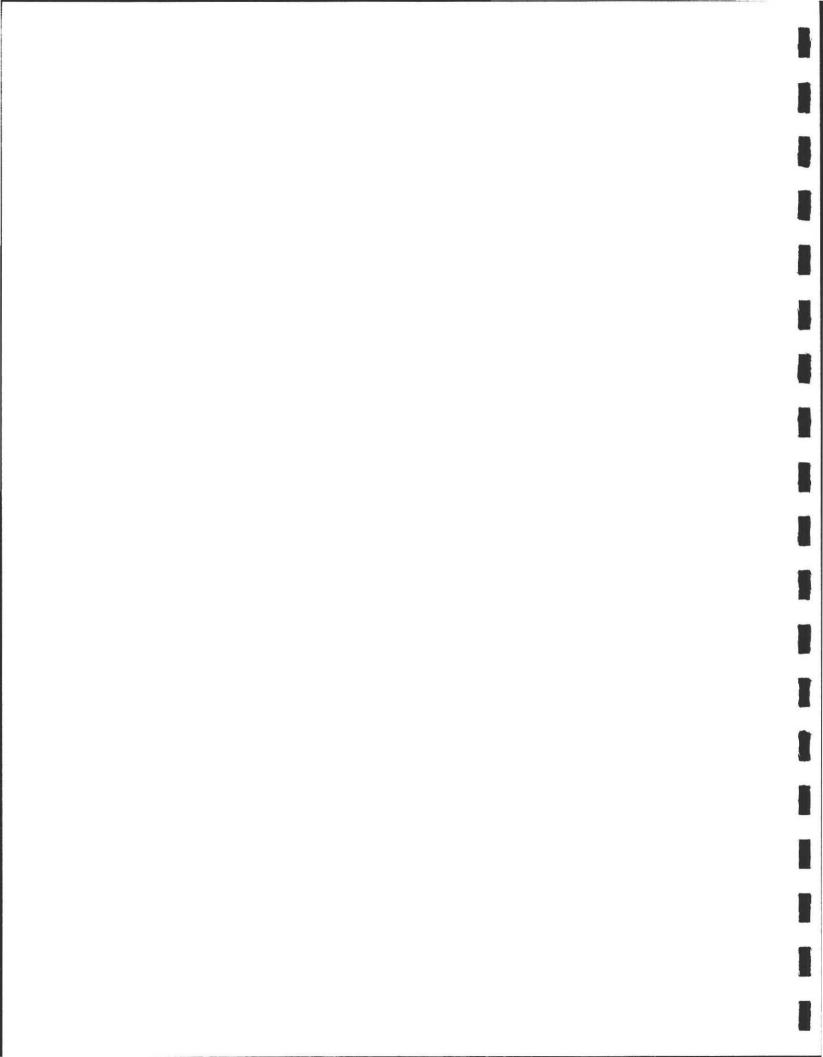
Introduction

The applicant, Juggler Meadow Farms, is proposing to implement site improvements at the existing single family home/farm/landscape business located at 260, Leverett Road, Amherst MA. These improvements include the construction of a 72 x 66 foot storage/maintenance barn within the existing mulch-compost storage area and the construction of a 40 x 20 foot greenhouse adjacent to the existing driveway. The applicant's intent is to continue to use this property in a similar manner as the previous owners, continuing to use the existing garden beds as well as the continued use of the composting operation in the western portion of the parcel. Because portions of the proposed work are in wither Buffer Zone and/or Riverfront Area, the applicant is seeking an Order of Conditions from the Amherst Conservation Commission for the construction of the two buildings and associated site work. Also, as the project is also in Priority Habitat for Rare Wildlife, The Applicant is also submitting this NOI for simultaneous review by the Massachusetts Natural Heritage and Endangered Species Program. An assessment of Eastern Box Turtle Habitat and associated impacts to this habitat is also included in this NOI for Review by NHESP.

Existing Conditions

The site consists of a 12.5 acre parcel, recently acquired by the applicant. The parcel has a single family home with frontage along Leverett Road and abuts the railroad embanked to the west. A power line easement is present along the western half of the parcel. Other land owned by the applicant is present to both the north and south of this area (Figure 1-Locus Map). Prior to purchase by the applicant this October 2009, the site was a former landscape/earthscape business, which grew native trees and shrubs as well as provided a base of operation for the landscaping operation. The site is occupied by a single family home, ancillary structures (barns, sheds, gazebos, etc.), a farm pond, numerous garden beds, and a topsoil/compost storage area in addition to many other landscaped features. The western limit of the property is bordered by a power line easement, which contains high tension overhead lines and in turn borders on a railroad right of way. The property is bordered to the north and south by other land owned by the applicant and by single family residential to the east.

The parcel contains mainly open, farmland, which has been used as a dairy pasture in the past and was most recently a landscape/earthscape business. The parcel contains numerous outbuildings and structures including a single family home, barn, gazebo and sheds located throughout the parcel with numerous garden beds and turfgrass areas located throughout. The site is mainly open land, with some hedgerows and tree lines also present. No extensive forested areas are present on the parcel; however, some scrubshrub areas are present around the periphery. The western and southern portions of the property contain numerous wetland areas associated with an unnamed perennial stream, pond and wet meadow areas.



The existing compost facility consists of an open area of compacted gravel roads, a large open sided barn, compost pile and sandy/gravelly areas around the perimeter. The edge areas around the perimeter are disturbed and sparsely vegetated with sparse grasses and forbs (timothy grass, fireweed, mullein, Queen Anne's lace and vetch) although sandy in appearance, these areas are fairly compacted by the previous landscaping operation as this area was sued for compost and material storage.

<u>Wetlands</u>

The site contains numerous wetland resource areas, all of which border on the Unnamed perennial stream that flows wetlands along the southern property line. These wetland resource areas are further described below:

Wetland 1: This wetland consists of a broad wet meadow that extends from the gravel access road, southward to the farm pond and continues to the west, wrapping around the southern end of the composting area. This wetland is predominately a wet meadow; being kept in this state through years of haying, mowing and grazing, the southern extreme of this wetland has begun to revegetate with shrubs and small trees, thus transitioning to a palustrine scrub-shrub wetland system. Wetland vegetation within this system is dominated by goldenrods and reed canary grass on the upper edges, transitioning to cattail, vervain, silky dogwood, wool grass, sensitive fern and lurid sedge in the wetter, interior, areas. The hydrology is seasonally saturated, with the wettest areas being located along the edges of the farm pond, or off site along the banks of the perennial stream. The shrub wetlands to the south of the parcel are dominated by silky dogwood and red maple saplings with dense herbaceous groundcover present throughout. This wetland extends westward to the base of the railroad embankment where it connects to drainage swales constructed along the base of the rail line.

Wetland 2: This wetland is located to the north of the gravel compost area access road and extends northward off site and wraps westward to the rail line. It appears that this wetland is connected to Wetland 1 off-site to the west, along the toe of the railroad embankment. This wetland is similar in vegetative composition to Wetland 1, in that it is dominated by wet meadow vegetation consisting of reed canary grass and goldenrods. Some cattail, sedges, rushes and vervain is also present within this wetland system, but to a lesser degree.

Wetland 3 (Perennial Stream and Bordering Wetland) : An unnamed perennial stream flows along the southern property line, leaving the property and flowing through neighboring land, before passing beneath the power line and railroad embankment on its course to the southwest, ultimately to Cushman Brook. On site the stream is 3-4 feet in width, 1-6 inches in depth with a sandy substrate. There is a bordering vegetated wetland along the banks of the stream, which varies in width from ~100 feet to near nonexistent in areas where the stem is channelized. Wetland vegetation within this system is dominated by reed canary grass and goldenrods on the upper edge, transitioning to cattail, skunk cabbage, joe-pye weed and sensitive fern in the wetter area long the stream channel.



Wetland 4 (Pond): A farm pond is situated in the western third of the parcel, and borders along Wetland 1. The pond contains a thin margin of bordering vegetated wetlands (which varies from less than a foot in width to 10-15 feet wide). These wetland areas are relatively steep and vegetated by stands of cattail and vervain. In some areas no BVW is present and only the Bank of the pond was delineated.

Wetlands within 100 feet of the proposed work were flagged with Pink, sequentially numbered flags, which denotes the edge of the Bordering Vegetated Wetlands. Blue, sequentially numbered flags were used to denote Bank Resource. Wetlands were delineated following State of Massachusetts and US ACE criteria, and are effectively coincident on this site.

Jurisdictional wetland resources on site include Bank and Land Under Water (associated with the Unnamed Perennial Stream and farm Pond), Bordering Vegetated Wetlands (BVW), and Riverfront Area (RA). No Bordering Land Subject to Flooding (BLSF) was found on site (Figure 2, FEMA Map).

The Mean Annual High Water Line of the River was delineated based on bankfull indicators, which in the field corresponded to changes in topography as well as vegetation.

The entire parcel is located within both Priority and Estimated Habitat, regulated by MA NHESP (Figure 3-NHESP Map) and as such a copy of this NOI has been submitted to MA NHESP for their review and comment. Based on another filing for this applicant, which is currently under review by NHESP on neighboring property, the Eastern Box Turtle was identified as the species of concern.

Eastern Box Turtle Habitat Assessment

Eastern Box Turtles (*Terrapene c. caroliana*) (EBT) are ubiquitous, utilizing many habitats that are present throughout the site and throughout the area in general. This species utilizes a variety of upland and wetland habitats for the majority of its life cycle, sometimes aestivating in shallow water. Eggs are typically lain in sandy, friable, well drained soils with exposed south or east facing aspects. Hatchlings typically forage and find cover in shallow water during their first years before venturing out into the forested uplands. Overwintering mostly occurs within the forested upland habitat, with the individual burying themselves into the ground typically beneath other cover objects (slash, logs, leaves) for added protection. Their activity period is rather long for a New England turtle species, with their emergence from hibernation as early as April and return to winter dormancy sometimes as late as November, depending on climatic conditions. During the year, they do not follow a typical movement cycle, and may be found within any of their preferred habitat, with nesting taking place in May/June when turtles move toward suitable nesting habitats.



Nesting Habitat: EBTs, like other turtles, generally nest in upland sandy soils, with a high degree of sun exposure to incubate the developing embryos. The preferred nesting sites typically contain well drained, sandy soils, with sparse groundcover to allow easy excavation. These species may nest anywhere suitable habitat exists within its range or, if suitable nesting area is not abundant, may travel outside its home range in search of suitable areas or conversely nest in less than suitable locations. Although the site is in a fairly open state, nesting opportunities are limited due to the sites wetness and the manicured nature of the majority of the parcel. Overall, of the sites 12.5 acres, only 7,800 SF (0.17 Acres) qualifies as good nesting habitat (open, loose sandy-gravelly soils). The remaining 222,800 SF (5.1 Acres) that are labeled as potential nesting habitat has a limited ability to provide this function due to the level and type of disturbances in these areas and wetness of the soils. Specifically, the vast majority of these areas are comprised of manicured garden and lawn areas and consists of a Gloucester very fine sandy loam. While some portions of these areas do provide potential nesting sites, the dense, manicured nature of the lawn areas, compaction on roadways from vehicles, tightshallow to water soils limit nesting in these areas. Overall, a conservative estimate of 25% of the potential nesting areas within this altered habitat was calculated as being suitable nesting habitat for the Eastern Box Turtle, thus of the ~222,800 SF of Limited Nesting area, an estimate of ~55,700 SF was determined to be potently useful as functional nesting habitat.

Forage Habitat: EBTs tend to forage within the upland habitats that they spend the majority of their spring-summer and fall traveling through. The typical diet of an adult EBT consists of various plant matter, while young tend to eat more insect matter and often forage in shallow water in vernal pools, pond edges and other slow moving to quiescent areas. Ample forage habitat exists on site to support a number of EBTs: both the wet meadow, shrub wetlands, gardens and patches of forested upland and wetland provide several low growing berry-producing and herbaceous vegetation. Box turtles are particularly attracted to the edge habitat between forest and open areas, where both cover and available food sources are abundant. Most of the site contains some forage habitat for the eastern box turtle, with the exception of the developed portion along Leverett Road. The garden areas do provide some forage habitat, although not all of the areas qualify as excellent forage habitat due to the lack of forage plants, insects, etc. The maintained lawn areas do not constitute forage habitat. A conservative estimate of 50% was used to calculate the percentage of functional forage habitat within these garden areas (taking into account the average amount of non-forage habitat located within). The remainder of the site, the shrubby edges, forested patches, dense grasslands, all provide excellent forage habitat. In total, the site contains 93,000 SF of high quality forage habitat along with another 99,000 SF of somewhat functional forage habitat within the garden and landscaped areas.



<u>Aestivation Habitat</u>: The EBT may aestivate in both aquatic and terrestrial environments, typically within its general home range and in the same areas that are typically used for forage and breeding. On site, these areas are also rather extensive, with large areas available within the shrubby and dense grasslands and edge habitats. Aestivation habitat on site for the most part, coincides with the forage/breeding habitat, also including shallow aquatic environments as well.

<u>Breeding Habitat</u>: EBTs typically breed in their terrestrial environments, which include both forested upland and wetland areas. These habitats are present throughout the site and includes the wet meadow areas, garden areas, and shrubby edge ecotones. On site these habitats are synonymous with the forage habitats.

<u>Overwintering Habitat:</u> The EBTs overwintering habitat typically coincides with their other terrestrial habitat needs (forage, breeding and migratory), in that forested upland and wetland habitats are used. However, due to the relative lack of such cover habitat on site, only a limited amount of overwintering habitat is present within the parcel boundaries. Overwintering habitat is present nearby, mainly to the south and west, where forested upland and wetland habitats are present in abundance. The agricultural and landscaped nature of this parcel does not provide available overwintering habitat, save for the periphery of the property.

<u>Travel Habitat</u>: The EBTs don't have a typical pattern upon emergence from overwintering in forested uplands/wetland. EBTs can be found anywhere within their home range during their active season with nesting usually taking place in late May-June and aestivation in mid to late summer. During nesting season EBTs can be expected to travel to suitable nesting areas on site to lay eggs and then back to their usual summer home ranges for forage and aestivation. Potential impediments to migration on site include the Leverett Road to the east and the rail line to the west, with the interior of the parcel relatively un-obstructed by travel barriers. On site travel habitat is assumed to be everything between, and within, the forested habitat and adjacent nesting areas.

Local Landscape Context: Although this site is cleared, heavily landscaped and under former agricultural development this parcel is situated within an otherwise forested landscape. Ample forage, travel, breeding, aestivation and overwintering habitat is found throughout the general area. The limiting habitat type present in the area appears to be nesting habitat based on a cursory review of the aerial photos and limited off site investigation. The fact that the majority of the nearby area is in a forested condition coupled with the fact that extensive wetlands are present in the general vicinity limits nesting areas to isolated patches of exposed, sunny, dry and sandy-gravelly areas in the general vicinity. Turtle migration through the area is likely impeded to some degree by Leverett Road to some degree as well as the active rail line, which impede east-west movement, the majority of turtle movement through the site would be expected to be on a north-south axis.



Turtle Habitat Summary: In general, the parcel is highly developed and maintained, that said, some turtle habitat still remains present on site. The shrub edges around the perimeter of the site are particularly useful to this species as are the grassy meadows (both upland and wetland), and portions of the garden areas as well. These areas are useful for forage, breeding, aestivating and travel habitat for the Eastern Box Turtle. Overwintering habitat appears absent from the vast majority of the parcel; however, is provided in abundance in nearby (off-site) habitat areas. Breeding habitat is limited on site due to wetness, turfgrass, dense meadow vegetation, roads, structures, and other past agricultural practices. The best areas of potential nesting habitat are in the extreme northwest and southwest corners of the parcel, where sunny-semi exposed, sandy-gravelly soils are present. The vast majority of the potential nesting habitat has limited usefulness in providing this function due to the afore mentioned factors; however, a conservative estimate of 25 percent of this habitat was used in determining how much actual nesting habitat is on site for the purposes of quantifying habitat impacts.

	Nesting		Breeding	Forage	Aestivation	Overwinter	Travel	Not
	High	Limited						Habitat
On- Site	7,800	222,800 (55,700)	193,500	193,500	193,500	0	460,000	113,000

All values in Square Feet

Proposed Project

The applicant is proposing to construct a 66 x 72 foot barn/storage building on the portion of the parcel that was the former compost-manure-material storage area. This structure will be constructed by conventional construction methodologies in a previously disturbed area, and thus not require the removal of any trees and/or vegetation. Work associated with this project will involve only minor earthwork and grading, in order to install the concrete footings and frost walls. Minor grading of the existing gravel surface will occur to re-align the gravel access road and make a level pad for the structure. Sedimentation and erosion controls will be established around the proposed limit of work (See Plan Sheet 2). The applicant is also proposing to construct a 20 x 40 foot greenhouse, to be located off of the excising driveway area on the eastern portion of the parcel. In addition the applicant is also proposing to re-use the existing garden beds in a similar fashion as the previous owner, and grow harvestable trees, shrubs and produce.



Impacts to Wetlands

Continued Maintenance of Garden Beds

The site contains numerous garden beds, which consist of mulched areas within the turfgrass areas of the site. All of these beds were in existence prior to the acquisition of this parcel by the current applicant. The intent of the applicant is to continue to use these beds for gardening purposes, including organic produce, and Christmas trees. No expansion of the existing beds is proposed. The extent of these garden beds is shown on the enclosed plans.

Barn/Storage Building

The proposed project will occur solely within the disturbed buffer zone to both Bank (pond) and BVW resources. At the closest point, the proposed building will be 50 feet from the BVW; however, separated from the wetland by a natural berm and tree line. All proposed work will be within the existing limit of the disturbance (cleared) buffer zone, with the building situated in the center of what was the former compost pile on site. The proposed work will not occur within the RA associated with the unnamed perennial stream.

Greenhouse

A 20 x 40 greenhouse is proposed off the edge of the existing driveway, within landscaped lawn areas. Although within the landscaped areas, this area is also within the Riverfront Area. In total impact to RA will be 800 SF and occur entirely within previously landscaped (lawn) portions of the site.

	BVW (sf)	Bank/LUW (sf)	BLSF (sf)	Riverfron	Buffer	
				RA-100	RA-200	Zone (sf)
Greenhouse	0	0	0	800*	0	800
Barn	0	0	0	0	144**	24,000
TOTAL	0	0	0	800*	144**	~25,000

Table 2: Wetland Impact Summary

*: All work within RA is within previously landscaped 'lawn' portions of the RA.

**: Temporary impact associated with grading only, area resorted to pre-construction condition.

BVW: No impact will occur within BVW on site

BLSF: No BLSF is present on site, therefore no work is proposed within BLSF *Bank:* There will be no work within or impact to Bank Resource as a result of this proposed project

LUW: There will be no work within the stream or pond, therefore no impact to LUW will occur as a result of this project



Riverfront Area: The work associated with the constriction of the greenhouse is located within the Riverfront Area associated with the unnamed perennial stream. All work within these areas will occur within the previously disturbed (lawn) portions of the Riverfront Area and the site qualifies a previously degraded Riverfront Area from the existing gravel driveway and structures located on site. No work within Riverfront Area will be closer to the river than the existing disturbed condition. However, degradation associated with the greenhouse will be closer than the existing degraded condition, which is currently at 65 feet. The proposed greenhouse will be located 31 feet from the MAHWL, and as such must be mitigated for on site at a 2:1 ratio. Stormwater will be erected as part of the proposed work. A minor amount of RA impact will occur as a result of minor grading activities associated with the placement of the storage building. All this impact is to existing gravel/hard packed surface associated with the former compost area, and will be restored to pre-construction condition following work.

Total RA on site	Degraded RA on site	New RA Impact*	Degraded RA on site with proposed work
183,600 sf	12,740 sf (6.9%)	944 sf**	13,540 sf (7.3%)

Table 3: Riverfront Area Impact Summary

*: All work within RA is within previously landscaped 'lawn' portions (disturbed) of the RA.

**:144 SF of RA impact will be restored in-place and is temporary in nature.

Riverfront Area Mitigation and Net Improvement: In order to comply with 310 CMR 10.58, the applicant must replace the newly degraded RA that is closer than the existing degraded condition at a 2:1 ratio (for disturbed areas) and also show a net improvement to RA above and beyond to comply with 310 CMR 10.58(5)(a). To accomplish this, the applicant is proposing to restore, at a \sim 2.2:1 ratio, areas of existing lawn/garden to native scrub-shrub upland. This will allow the restoration to be in compliance with both the restoration criteria as well as the net improvement standard.

Impacts to Eastern Box Turtle

The proposed impacts to box turtle will be limited and limited solely to areas of limited nesting habitat as the proposed structure will be located within the existing open portion of the site and within the portion of the open area that was used as compost/material storage. The majority of the impact associated with this proposed barn/storage building is to areas that are either to compact, developed or otherwise unsuitable nesting habitat (former compost areas, gravel road, etc.) and do not constitute usable nesting habitat in its present condition. As the compost and materials were only recently removed (less than two months ago), this area has not had a chance to become occupied by nesting Box Turtles. A thin strip of limited nesting habitat is present along the eastern side of the gravel road, and will be impacted by minor grading activities associated with the proposed work, in total impacting 3,190 SF of limited nesting habitat (See table 3 below). In total this impact to box turtle nesting habitat is relatively minor, given the overall amount of potential nesting that is present on site, less than one percent of the overall available nesting habitat, and have no direct impact to the high quality nesting habitat on site.

- 6-1

	Nesting		Breeding	Forage	Aestivation	Over-	Travel	Not
	High	Limited				winter		Habitat
Existing	7,800	222,800	193,500	193,500	193,500	0	460,00	113,00
Habitat		(55,700*)					0	0
Proposed Impact	0	3,190 (798*)	0	0	0	0	0	20,000
Net	0	(-1.4%)	0	0	0	0	0	NA

Table 4: Eastern Box Turtle Habitat Impact Summary, all areas in Square Feet.

*: Effective impact on Nesting Habitat assuming that the 'Limited Nesting Habitat' is only 25% useful in this capacity **: Permanent Impact only, an additional 500 SF of temporary impact will occur during construct9on only and will be restored following construction.

In order to reduce impacts to the Eastern Box Turtle and its habitat, the proposed work associated with the greenhouse and landscaping was situated within the existing landscaped portion of the site, and the proposed barn was situated within the area of previous heavy disturbance associated with the compost-material storage facility. In order to prevent direct harm to Eastern Box Turtle, the proposed site work is expected to occur over the winter-early spring months (outside of the nesting season), if work will occur during the nesting season, an exclusionary barrier will be erected around the entire construction zone, prior to May 15, to exclude any box turtle nesting attempts within the serve as both a turtle barrier and sedimentation and erosion control for the site. With above protection plan implemented, it is unlikely that a 'take' of the eastern box turtle or its habitat will result from the proposed project.

Compliance with MESA Regulations

As per MESA Regulations, the work within the existing landscaped areas associated with this single family property is considered and exempt activity. The work associated with the proposed greenhouse is situated in areas of low habitat value and within areas of existing lawn, and is thereby exempt from MESA regulations (321 CMR 10.14 (4)). The work associated with the construction of the proposed barn/storage building outside of the 'landscaped' areas of the site, and therefore is subject to MESA Review.





Photo of Proposed Storage Building Area, Limited Nesting Area to Right of Gravel Road, Former Compost Pile to Right of Gravel Road



Closeup of Compost Area, Following Compost Removal



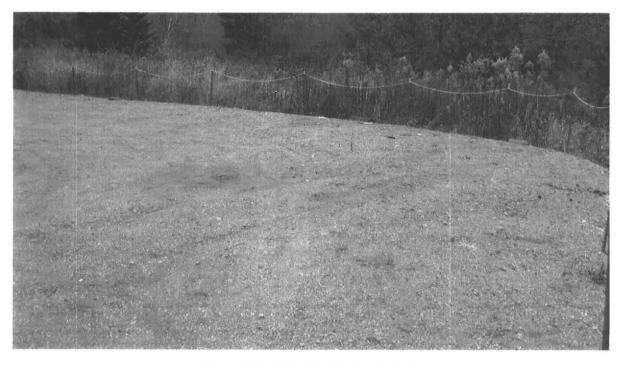


Photo of High Quality Nesting Habitat



Lawn/Garden Area





Lawn/Garden Area



Lawn/Garden Area, Facing East Toward Proposed Greenhouse

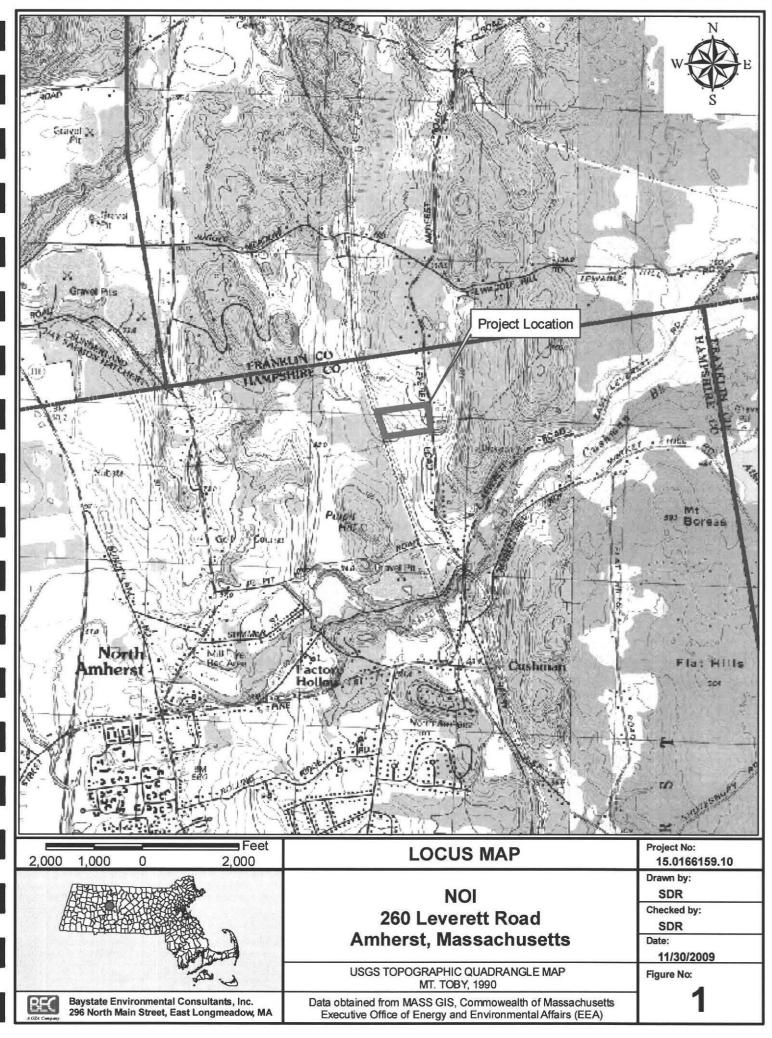
APPENDIX A

Locus Maps

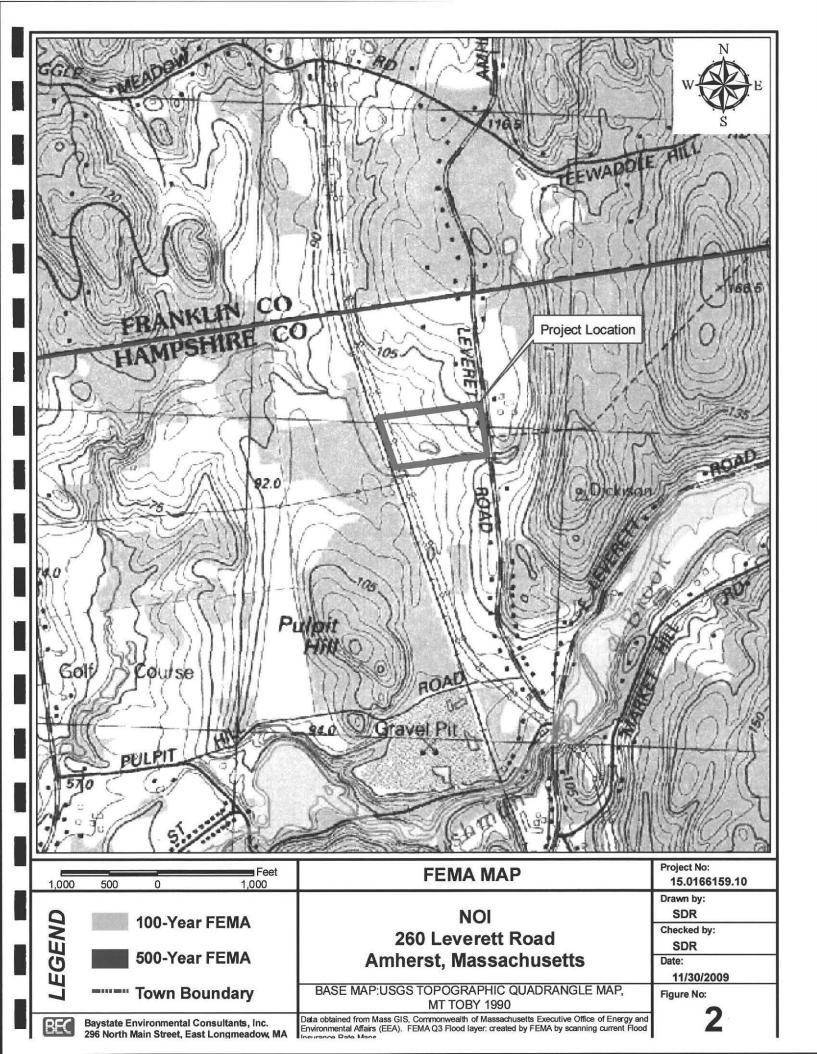
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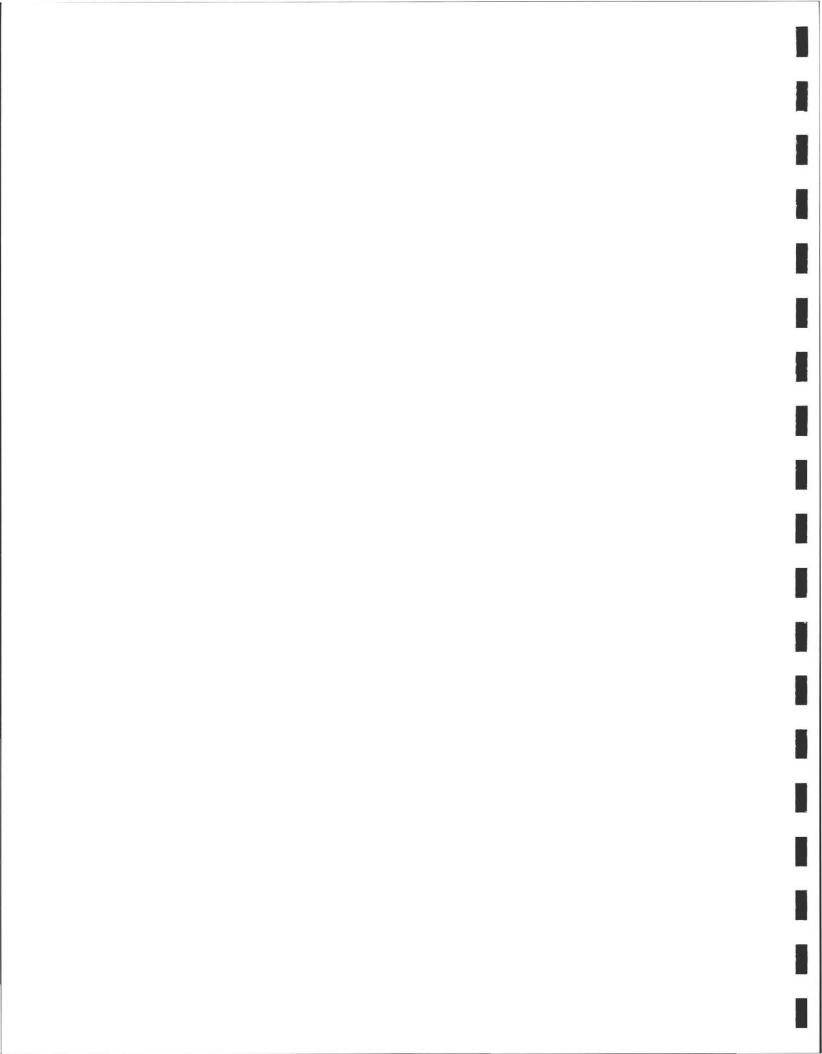
Amherst, Massachusetts

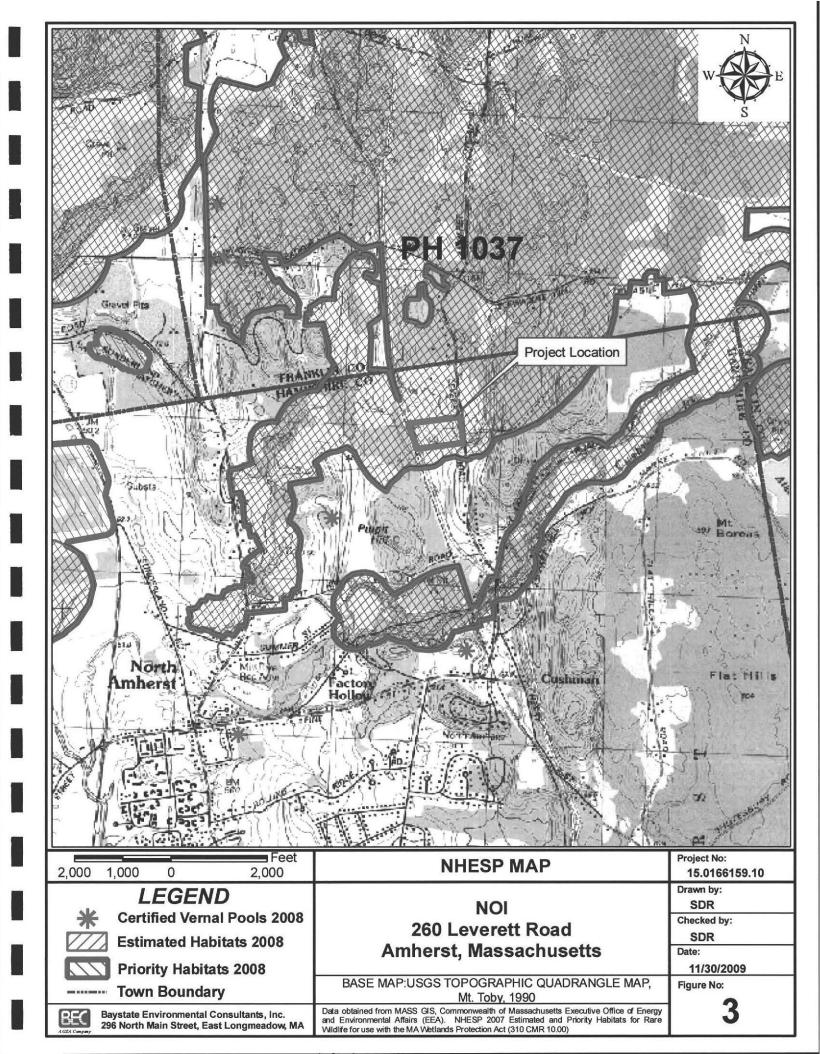


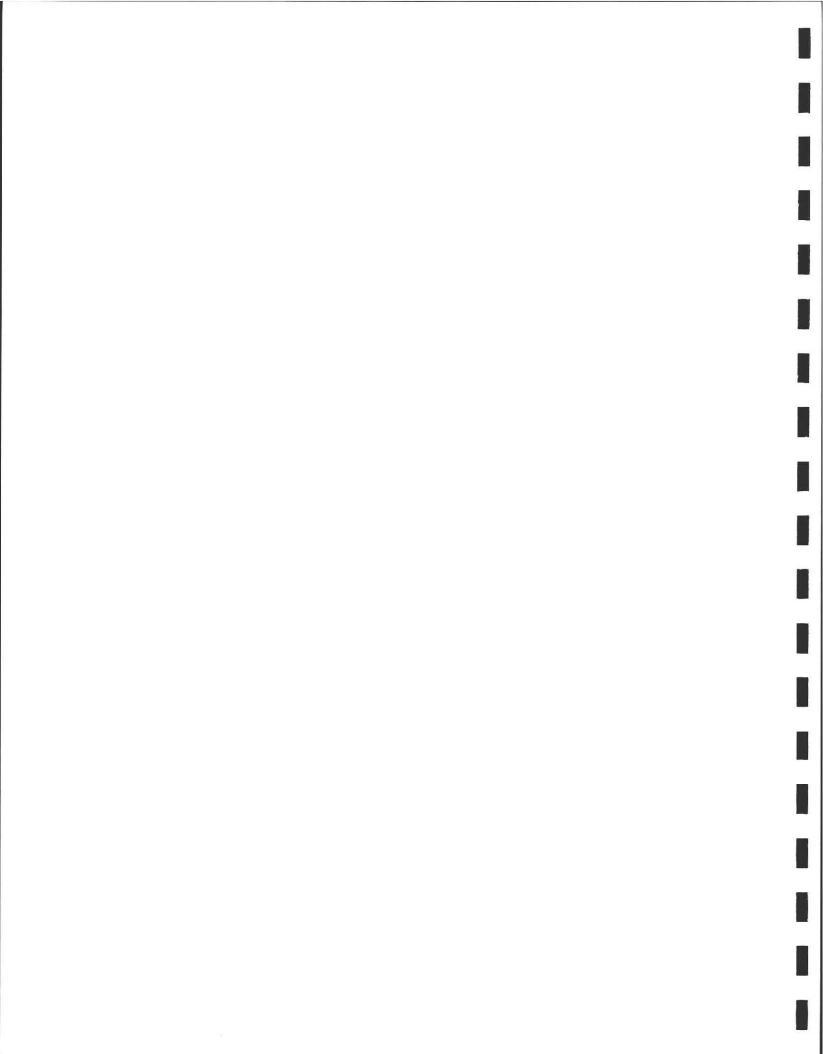


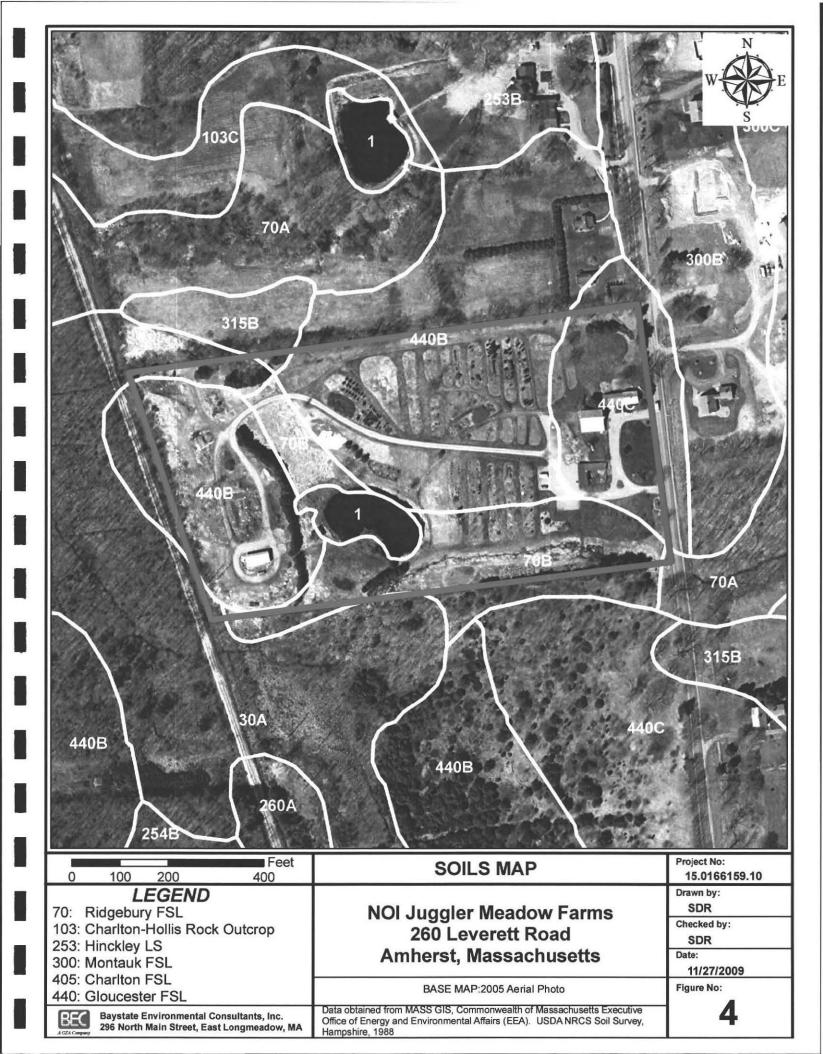


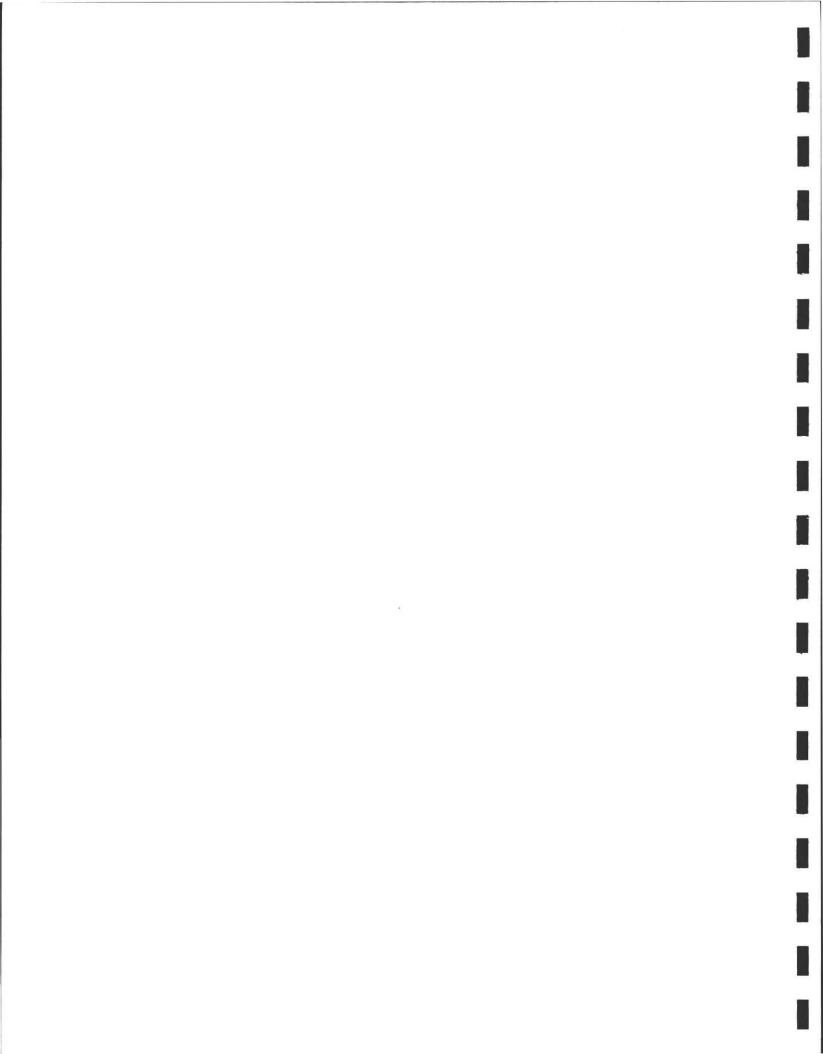


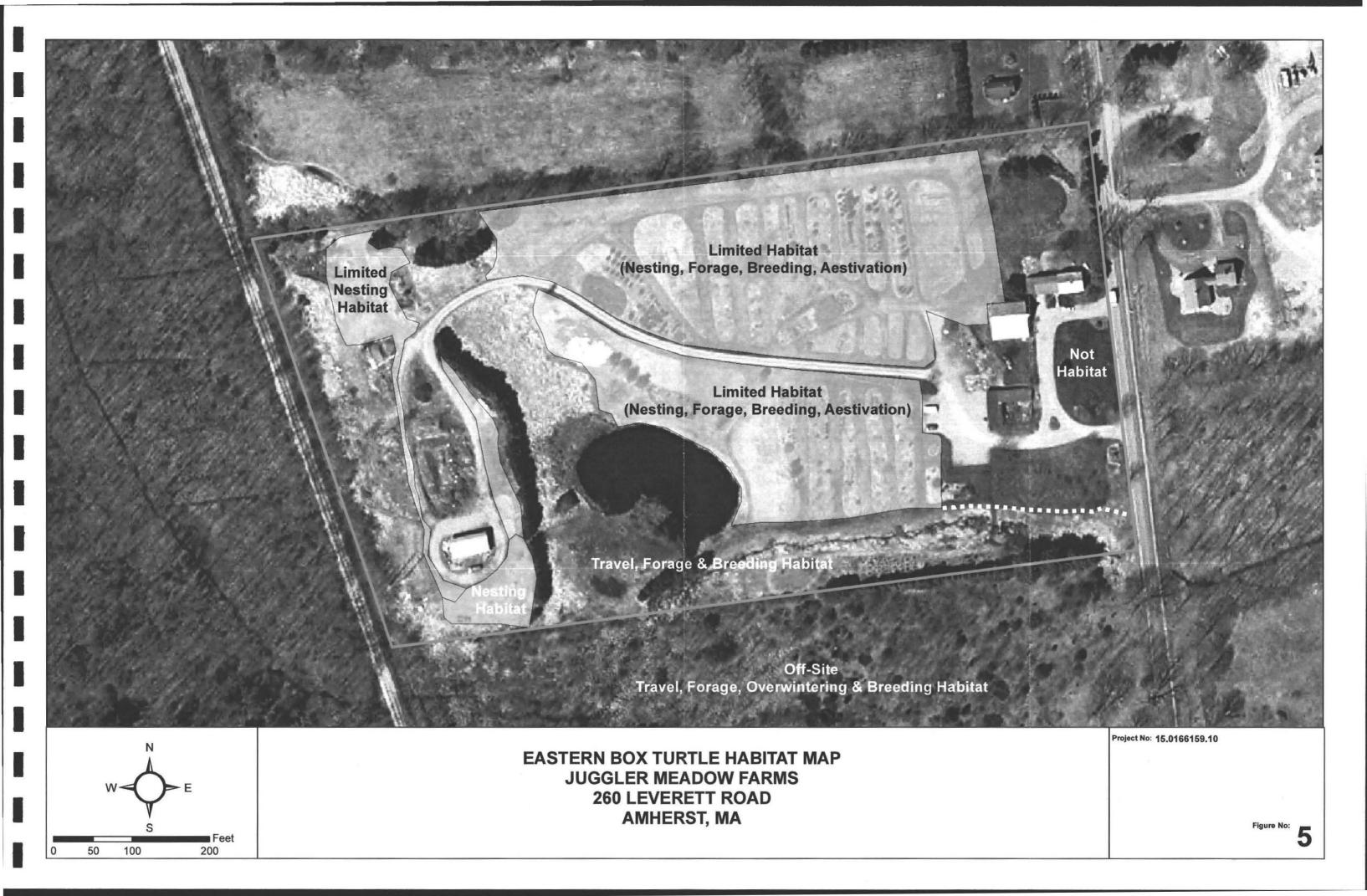






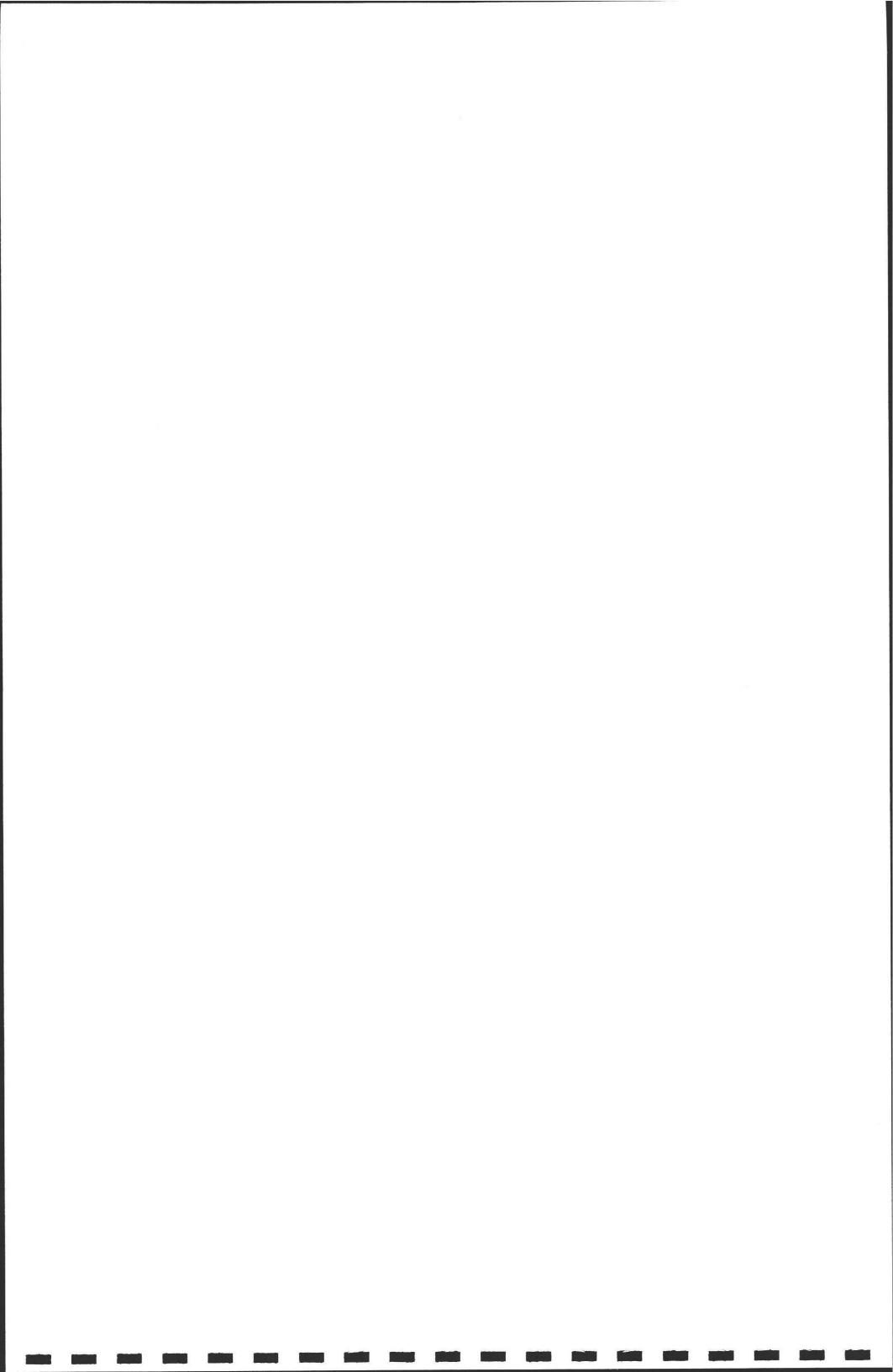










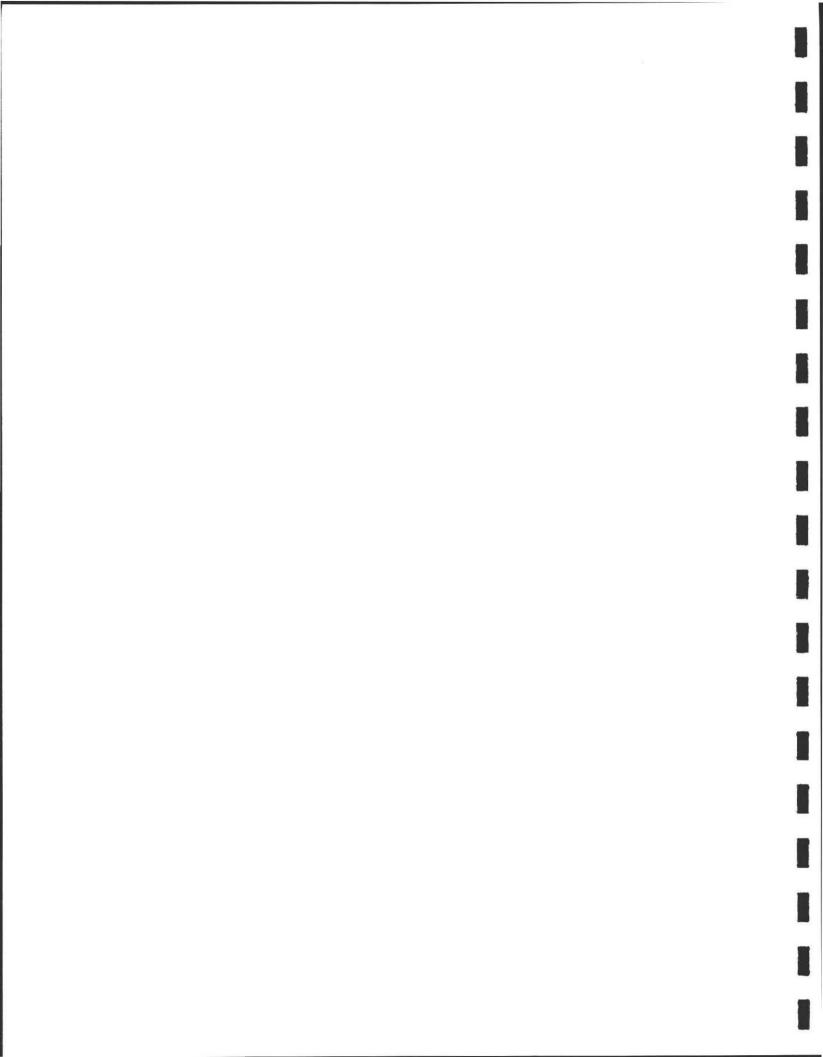


APPENDIX B

Abutters Information

260 Leverett Road

Amherst, Massachusetts



3A-2 AMHERST BUILDING COMPANY LLC 44 LILAC LNL AMHERST, MA 01002

3A-21 AMHERST REAL PROPERTIES LLC 930 WINTER ST SUITE 1500 WALTHAM, MA 02451

2B-4 W D COWLS INC 134 MONTAGUE RD, P.O. BOX 9677 NORTH AMHERST, MA 01059-9677

3A-100 HIGGINS, PAUL R 273 LEVERETT RD AMHERST, MA 01002

3A-97 MCCABE, MICHELE 281 LEVERETT RD AMHERST, MA 01002

3A-96 OBRIEN, THOMAS 305 LEVERETT RD AMHERST, MA 01002

2B-8 TOWN OF AMHERST CONSERV COMM TOWN HALL AMHERST, MA 01002 3A-23 AMHERST REAL PROPERTIES LLC 930 WINTER ST SUITE 1500 WALTHAM, MA 02451

3A-20 AMHERST REAL PROPERTIES LLC 930 WINTER ST SUITE 1500 WALTHAM, MA 02451

3A-4 FERRY, EDWARD M & ELIZABETH K 207 LEVERETT RD AMHERST, MA 01002

3A-99 HIGGINS, PAUL R & SUE R 273 LEVERETT RD AMHERST, MA 01002

3A-85 OLIVER, STEPHEN P TRUSTEE CALIBRE ADVISORY SERVICES 930 WINTER ST SUITE 1500 WALTHAM, MA 02451

3A-51 OLIVER, STEPHEN P TRUSTEE CALIBRE ADVISORY SERVICES 930 WINTER ST SUITE 1500 WALTHAM, MA 02451

2B-3 W D COWLS INC 134 MONTAGUE RD, P.O. BOX 9677 NORTH AMHERST, MA 01059-9677 3A-22 AMHERST REAL PROPERTIES LLC 930 WINTER ST SUITE 1500 WALTHAM, MA 02451

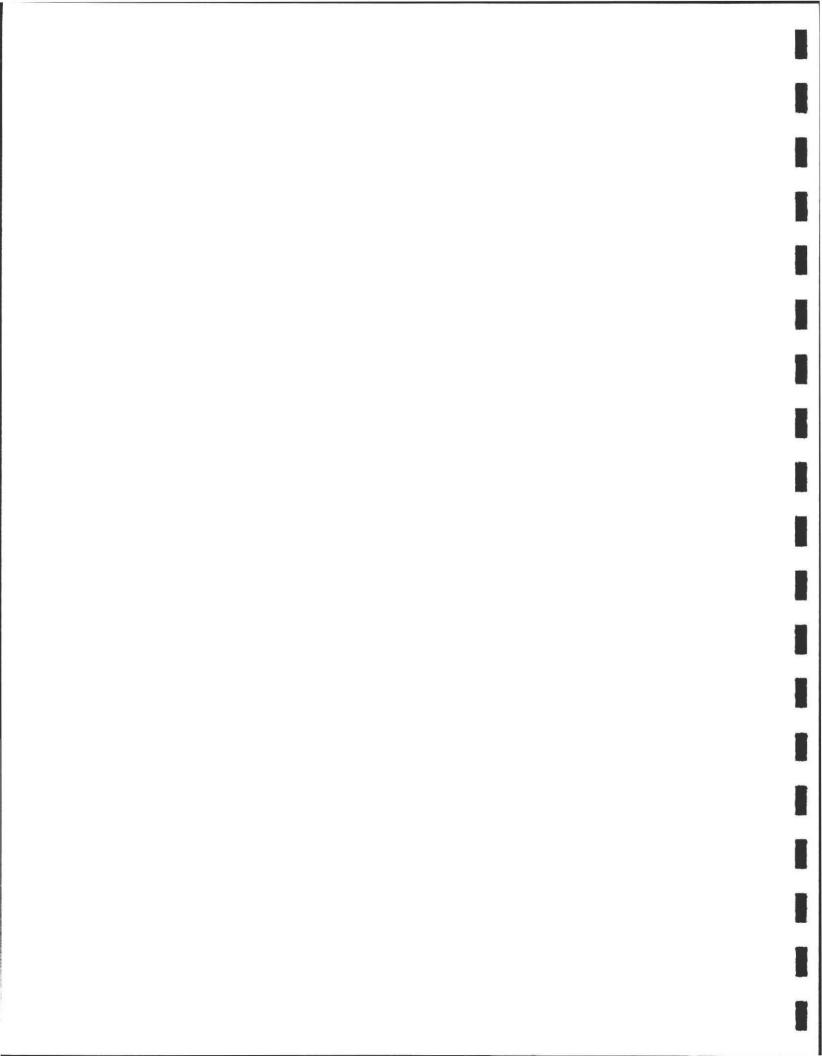
3A-62 OLIVER, STEPHEN P TRUSTEE CALIBRE ADVISORY SERVICES 930 WINTER ST SUITE 1500 WALTHAM, MA 02451

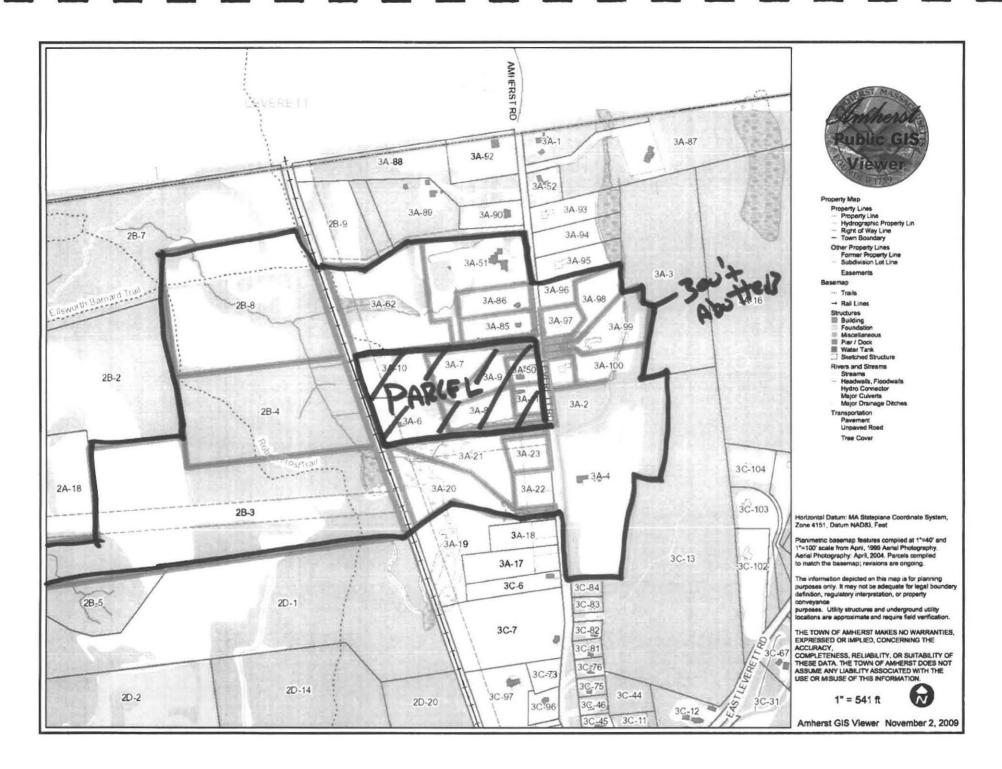
3A-101 HOCHMAN, JERE I & JOSETTE M P.O. BOX 188 BEDFORD HILLS, NY 10507

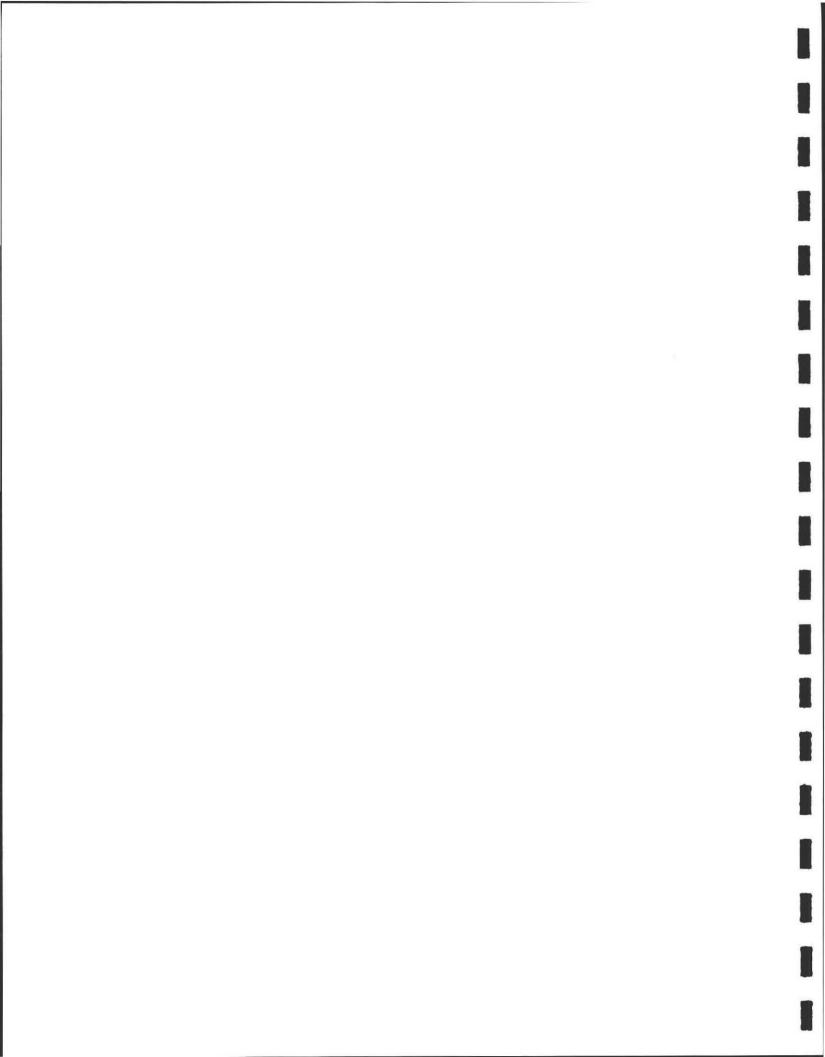
3A-98 KINGSLEY, SEAN E S & CHRISTINE M 275 LEVERETT RD AMHERST, MA 01002

3A-86 OLIVER, STEPHEN P TRUSTEE CALIBRE ADVISORY SERVICES 930 WINTER ST SUITE 1500 WALTHAM, MA 02451

3A-95 IRANI ZUBIN & JAMAJI FIROZA 317 LEVERETT RD AMHERST, MA 01002









Baystate Environmental Consultants Inc. A GZA Company

Civil Engineers Environmental Scientists Planners December 21, 2009

To: Project Abutters

From: Baystate Environmental Consultants, Inc. (BEC)

Re: Proposed Work at Juggler Meadow Farms, 260 Leverett Road, Amherst MA BEC File No. 15.0166159.10

Dear Project Abutter:

On behalf of the Applicant, BEC, Inc., has prepared and submitted a Notice of Intent application to the Amherst Conservation Commission for the proposed construction of a barn and greenhouse at Juggler Meadow Farms, 260 Leverett Road, Amherst MA. This project is within the 100 foot Buffer Zone and Riverfront Area to an unnamed perennial stream.

Pursuant to the Massachusetts Wetlands Protection Act regulations (310 CMR 10.00), the Applicant or representative must notify project abutters by certified mail or hand delivery, of the application filing. Should you have any questions, please call our office.

Sincerely yours,

BEC, Inc. Steven D. Riberdy

Wetland Ecologist

encl. Notification to Abutters

296 North Main Street East Longmeadow, MA 01028 Tel (413) 525-3822 Fax (413) 525-8348

> 120 Mountain Avenue Bloomfield, CT 06002 Tel (860) 286-8900 Fax (860) 243-9055

GZA Offices in Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, New York, New Jersey, Pennsylvania, Michigan, Ohio, Vermont, Wisconsin

> www.b-e-c.com www.gza.com



Notification to Abutters Under the Massachusetts Wetlands Protection Act (310 CMR 10.00) & Amherst Wetlands Protection Bylaw

In accordance with the second paragraph of the Massachusetts General Laws Chapter 31, Section 40, you are hereby notified of the following work within a wetland resource area or within the 100-foot buffer zone of a resource area:

- A. The name of the applicant is: Town of Amherst.
- B. Th e address of the lot where activity is proposed is: 260 Leverett Road.
- C. The applicant has filed a Notice of Intent with the Conservation Commission of the <u>Amherst</u> seeking permission to perform work within wetland resource areas or areas subject to protection under the Wetlands Protection Act (General Laws 131, Section 40).
- D. Copies of the Notice of Intent may be examined at the <u>Amherst</u> <u>Commission Office, 4 Boltwood Ave</u> between the hours of 8:30 and 4:00 on Monday-Thursday. For more information call: 1 (413) 259-3149.
- E. The public hearing for this application will be Wednesday, January 13, 2009 at TBD pm in the Town Room of the Town Hall, 4 Boltwood Ave, Amherst, MA 01002. Additional information regarding the public hearing for this application, may be obtained from the <u>Amherst Conservation Commission</u> between the hours of 8:30 and 4:00 on Monday-Thursday. For more information call: 1 (413) 259-3149.
- F. For more information regarding this notice or where copies of the NOI Application may be obtained, contact the applicant's representative: Mon. – FRI., 8:30 – 4:00 Baystate Environmental Consultants 296 North Main Street East Longmeadow, MA 01028 (413) 525-3822

Note: Notice of the public hearing, including its date, time, and place, will be published at least 5 days in advance in the following newspaper:

The Daily Hampshire Gazette

Note: You may also contact you're the West Springfield Conservation Commission or the nearest Department of Environmental Protection Regional Office for more information about this application or the Wetlands Protection Act. To contact DEP, call:

Western Region: 413-784-1100



APPENDIX C

MA DEP Data Forms

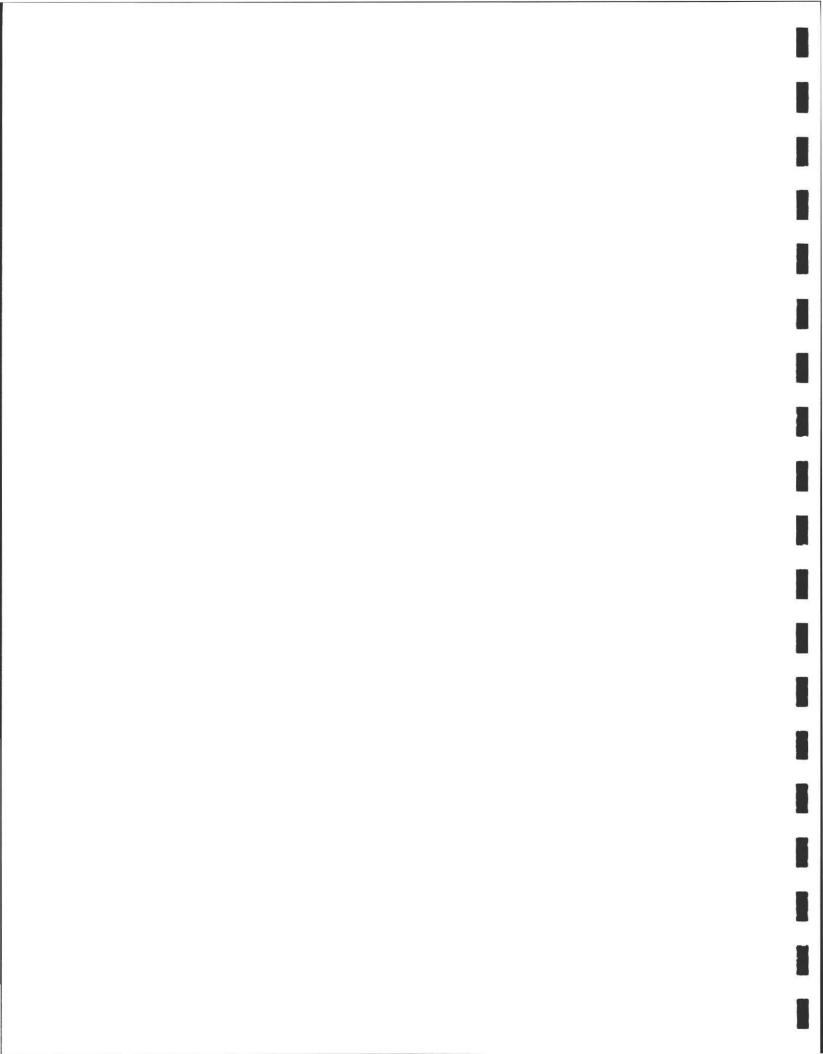
260 Leverett Road Amherst, Massachusetts



Section 1.	Vegetation	Observation Plot Number	: Uplar	nd Transect Number:	2W-1 Date of De	lineation: 10/23/2009
	Layer and Plant Species		ent Cover	C. Percent	D. Dominant Plant	E. Wetland Indicator
	mon/scientific name)	(or ba	sal area)	Dominance	(yes or no)	Category*
rees:	N/A					
ianas:	N/A					
Saplings:	Acer saccharum	Sugar-maple	3.0	100	Yes	FACU-
sapings.	N/A	Sugar-maple	5.0	100	165	FACU-
Shrubs:	N/A					
Groundcover:	Phalaris arundinaceae*	Reed-Canary Grass	98.0	88	Yes	FACW*
	Solidago altissima Asclepias syriaca	Tall Goldenrod Common Milkweed	10.5 3	9 3	No No	FACU- FACU-
	•					
	o mark indicator plant species listed in the	The last of the last of the second frances	and the second			
	V,FACW+, or OBL; or plants with physiolo orphological adaptations, describe the ad	• • • • • • • • • • • • • • • • • • • •	if any plants are ide	ntified as wetland indicator plar	nts due to	
	onclusion:					and the second se

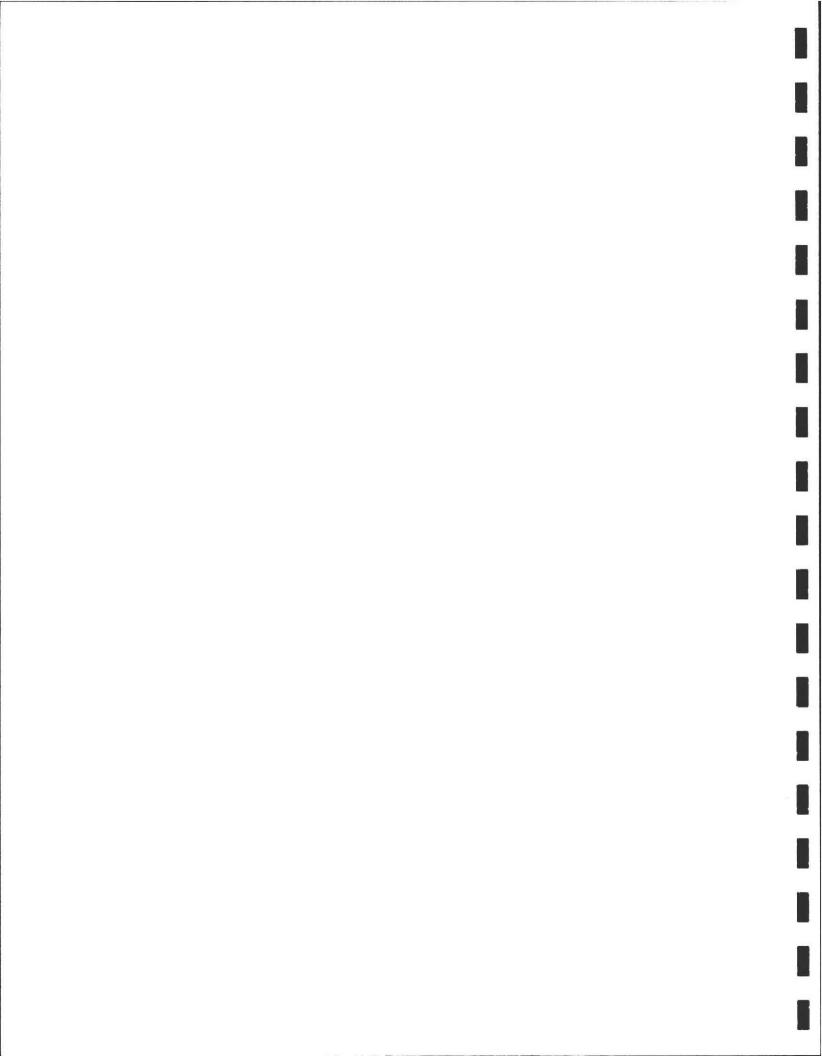


	il Interpretat		lydrology		Observation Plot Number: Upland Transect Number: 2w_1 Other Indicators of Hydrology: (check all that apply and describe) Site inundated:			
		survey for this	site?	YES	Depth to free water in observation hole:			
title/da			Hampshire Co	o, Central	Depth to soil saturation in observation hole:			
map ni	map number:				Water marks:			
soil type mapped: Glouces		Gloucester		Drift lines:				
hydric soil inclusions: NO		NO		Sediment deposits:				
Are field observations consistent with soil survey?			soil survey?	YES	Drainage Patterns in BVW:			
Remarks:					Oxidized rhizospheres:			
					Water stained leaves:			
2. Soil Description					Recorded data (stream, lake, or tidal gauge; aerial photo; other):			
Horizon Ap	Depth 0-11	Matrix Color 10YR 4/4	Texture SL	Mottles Color	Other:			
AB	11-13	10YR 5/4	FSL		Vegetation and Hydrology Conclusion			
Bw	13-18	10YR 5/3	FSL		YES NO Number of wetland indicator plants X > number of non-wetland indicator plants X			
Remarks:					Wetland hydrology present:			
3. Other:					hydric soil present X			
5. Other.					other indicators of hydrology			
					present X			
Conclusio	ns: Is soil hy	ydric?	NO	Submit this f	Sample location is in a BVW X s form with the Request for Determination of Applicability or Notice of Intent.			



	Vegetation	Observation Plot Number:	(B-5')	Transect Number:	2W-1 Date of Deli	ineation: 10/23/200
	e Layer and Plant Species nmon/scientific name)	B. Percer (or bas	nt Cover al area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category*
rees:	N/A					
ianas:	N/A	÷				
Saplings:	N/A					
Shrubs:	N/A N/A	:				
Groundcover:	Phalaris arundinaceae* Solidago altissima Asclepias syriaca	Reed-Canary Grass Tall Goldenrod Common Milkweed	98 3 3	94 3 3	Yes No No	FACW* FACU- FACU-

	il Interpretat		Hydrology		Observation Plot Number: (B-5') Transect Number: 2W-1 Other Indicators of Hydrology: (check all that apply and describe) Site inundated:
Is there a p	oublished soil	I survey for this	site?	YES	Depth to free water in observation hole:
title/da	te:		Hampshire Co	o, Central	X Depth to soil saturation in observation hole: 15"
map n	map number:				Water marks:
soil type mapped: Ridgebury			Drift lines:		
hydric soil inclusions: NO			Sediment deposits:		
Are field observations consistent with soil survey?			soil survey?	YES	Drainage Patterns in BVW:
Remarks:					Oxidized rhizospheres:
					Water stained leaves:
2. Soil Description					Recorded data (stream, lake, or tidal gauge; aerial photo; other):
Horizon A	Depth 0-6 "	Matrix Color 10YR 3/2	Texture SL	Mottles Color	Other:
AB	6-8	10YR 4/4	SL		Vegetation and Hydrology Conclusion
Bg	8-16	10YR 5/2	GSL	C2P 10YR 6/1 C3P 5YR5/6	YES NO Number of wetland indicator plants > number of non-wetland indicator plants X
Remarks:					Wetland hydrology present:
3. Other:					hydric soil present X
J. Ouler.					other indicators of hydrology X
Conclusio	ns: Is soil h	ydric?	YES	Submit this f	Sample location is in a BVW X



	Vegetation	Observation Plot Number	er: Upla	and Transect Number	: 2W-9	Date of Delineat	
	Layer and Plant Species mon/scientific name)		cent Cover asal area)	C. Percent Dominance		nant Plant s or no)	E. Wetland Indicator Category*
rees:	Picea abies Picea pungens	Norway Spruce Blue Spruce	883 145	286 258	Yes Yes		ND (FACW)* UPL
anas:	N/A						
aplings:	N/A						
nrubs:	N/A						
roundcover	Trifolium pratense	Red Clover	10.5	22	Yes		FACU-
oundcover.	Graminae sp.	Grass	3	6	No		ND
	Carex lurida*	Lurid Sedge	11	22	Yes		OBL*
	Plantago lanceolata	English Plantain	11	22	Yes		UPL
	Rumex crispus	Curled Dock	3	6	No		FACU
	Vicia sativa	Common Vetch	11	22	Yes		FACU-
C, FAC+, FACV	to mark indicator plant species listed in th V,FACW+, or OBL; or plants with physiok orphological adaptations, describe the ad	ogical or morphological adaptations					



title/date: Hampshire Co, Ce map number: soil type mapped: Gloucester hydric soil inclusions: NO			site? Hampshire Co Gloucester NO	YES o, Central NO	Observation Plot Number: Upland Transect Number: 2W9 Other Indicators of Hydrology: (check all that apply and describe) Site inundated: 1 Site inundated: Depth to free water in observation hole: 1 Depth to soil saturation in observation hole: 1 1 Water marks: 1 1 1 Drift lines: 1 1 1 Drainage Patterns in BVW: 1 1 1
Remarks:	Fill Soils (I	LS) (Gravel),	over buried Glo	ouscester	Oxidized rhizospheres: Water stained leaves:
2. Soil Description					Recorded data (stream, lake, or tidal gauge; aerial photo; other):
Horizon A C 2A	Depth 0-4 4-15 15-18+	Matrix Color 10YR 5/4 10YR 6/3 10YR 3/2	Texture GSL VGLS SL	Mottles Color	Other: Vegetation and Hydrology Conclusion YES NO Number of wetland indicator plants > number of non-wetland indicator plants
Remarks:					Wetland hydrology present:
3. Other:					hydric soil present X other indicators of hydrology
					present X
Conclusio	ns: Is soil h	ydric?	NO	Submit this	Sample location is in a BVW X orm with the Request for Determination of Applicability or Notice of Intent.

1



Section 1.	Vegetation	Observation Plot Number:	(B-5')	Transect Number:	2W-9 Date of Del	ineation: 10/23/2009
	e Layer and Plant Species	B. Percent		C. Percent	D. Dominant Plant	E. Wetland Indicator
	nmon/scientific name)	(or basal		Dominance	(yes or no)	Category*
rees:	Picea abies	Norway Spruce	286 258	53 47	Yes Yes	ND (FACW)*
	Picea pungens	Blue Spruce	256	47	Yes	UPL
ianas:	N/A					
aplings:	N/A					
Shrubs:	N/A					
roundcover	Typha latifolia* Phalaris arundinaceae*	Common Cattail Reed-Canary Grass	20.5 86	18 76	No Yes	OBL* FACW*
	Solidago rugosa*	Rough Stemmed Goldenro	3	3	No	FAC*
	Scirpus cyperinus*	Wool grass	3	3	No	FACW+*

 Number of dominant wetland indicator plants:
 1
 Number of dominant non-wetland plants:
 1

 Is the number of dominant wetland plans equal to or greater than the number of dominant non-wetland plants?
 1
 YES

 If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.
 1



Section II. Indicators of Hydrology Hydric Soil Interpretation 1. Soil Survey					Observation Plot Number: (B-5') Transect Number: 2W-9 Other Indicators of Hydrology: (check all that apply and describe) Site inundated:
Is there a p	ublished soil	survey for this	site?	YES	X Depth to free water in observation hole: 3"
title/da	te:		Hampshire Co	, Central	X Depth to soil saturation in observation hole: 0"
map number:					Water marks:
soil type mapped: Ridgebury			Drift lines:		
hydric	hydric soil inclusions: NO			Sediment deposits:	
Are field observations consistent with soil survey?			soil survey?	YES	Drainage Patterns in BVW:
Remarks:					Oxidized rhizospheres:
					Water stained leaves:
2. Soil Description					Recorded data (stream, lake, or tidal gauge; aerial photo; other):
Horizon			Mottles Color	Other:	
A Cg	0-23 23-27"+	10YR 2/2 10YR 5/1	Mucky SL GSL	C3p 5YR 5/6	Vegetation and Hydrology Conclusion
				C3F 10YR 6/1	YES NO Number of wetland indicator plants X > number of non-wetland indicator plants X
Remarks:					Wetland hydrology present:
0.01					hydric soil present X
3. Other:					other indicators of hydrology present X
Conclusio	ns: Is soil hy	/dric?	YES	Submit this f	Sample location is in a BVW X orm with the Request for Determination of Applicability or Notice of Intent.



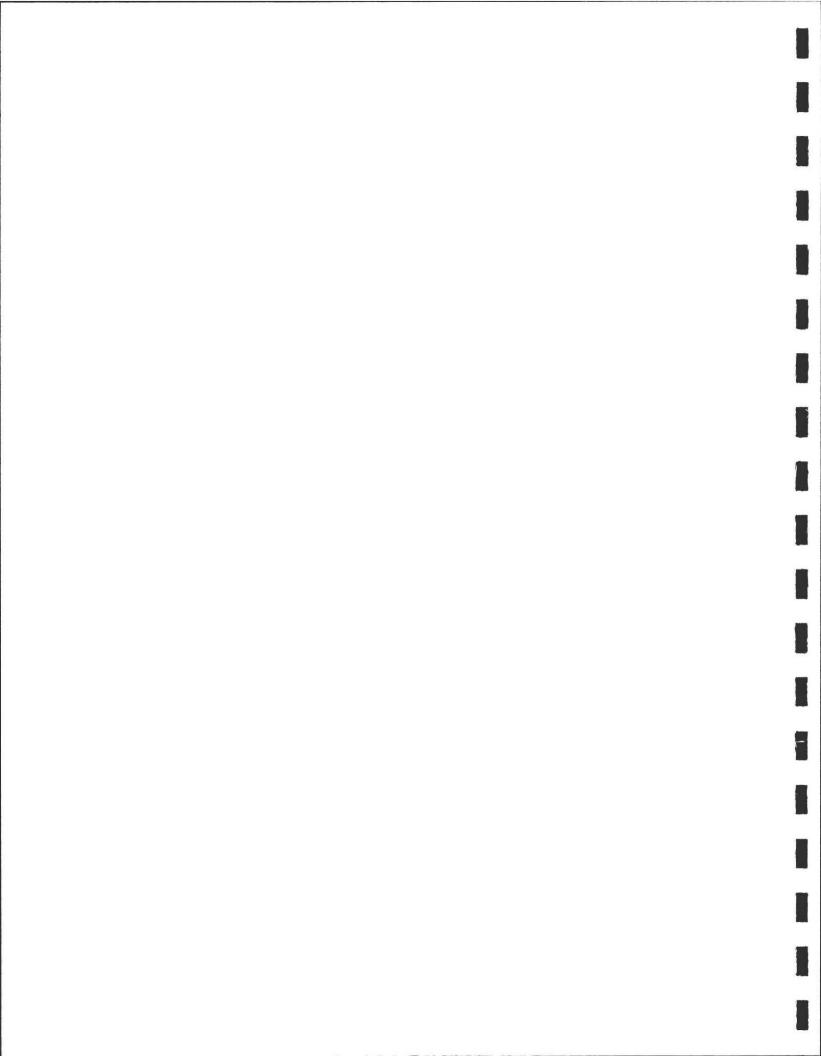
ection 1.	Vegetation	Observation Plot Number:	Uplan	d Transect Number:	2W-23 Date	of Delineation: 10/23/20
	Layer and Plant Species	B. Percent C	Cover	C. Percent	D. Dominant Pla	E. Wetland Indicator
	mon/scientific name)	(or basal a		Dominance	(yes or no)	
rees:	N/A					
ianas:	N/A					
Saplings:	N/A					
Shrubs:	N/A					
Froundcover:	Phalaris arundinaceae*	Reed-Canary Grass	20.5	26	Yes	FACW*
biodinacover.	Solidago altissima	Tall Goldenrod	10.5	13	Yes	FACU-
	Rumex crispus	Curled Dock	3.0	4	No	FACU
	Echinochloa crusgalli	Barnvard Grass	3.0	4	No	FACU
	Taraxacum officinale	Common Dandelion	10.5	13	Yes	FACU-
	Plantago lanceolata	English Plantain	10.5	13	Yes	UPL
	Daucus carota	Queen Ann's Lace (wild ca	10.5	13	Yes	ND(FACU)
	Phleum pratense	Timothy Grass	10.5	13	Yes	FACU
	r meum pratense	Thioday Grass	10.5	15	165	TAGO

and while have said the same said and said the said and



	I Interpretat		lydrology		Observation Plot Number: Upland Other Indicators of Hydrology: (check all tha Site inundated:	Transect Number: 2w 23 t apply and describe)			
		survey for this	site?	YES	Depth to free water in observatio	n hole:			
title/dat			Hampshire, Ce		Depth to soil saturation in observation hole:				
map nu					Water marks:				
			Gloucester		Drift lines:				
	e mapped:				Sediment deposits:				
15	soil inclusion		NO						
Are field observations consistent with soil survey? YES				YES	Drainage Patterns in BVW:				
Remarks:					Oxidized rhizospheres:				
					Water stained leaves:				
2. Soil Description				Recorded data (stream, lake, or	tidal gauge; aerial photo; other):				
Horizon	Depth	Matrix Color	Texture	Mottles Color	Other:				
A	0-5 5-7	10YR 4/3	SL SL		Vegetation and Hydrology Cond	lusion			
AB Bw	5-7 7-14	10YR 4/4 10YR 5/4	FSL		vegetation and hydrology cont	YES NO			
BC	14-20+	10YR 6/4	LS		Number of wetland indicator plants				
					> number of non-wetland indicator plants	X			
Remarks:	disturbed	soils in Power	rline, near railro	ad	Wetland hydrology present:				
					hydric soil present	X			
3. Other:					other indicators of hydrology present	X			
Conclusio	ns: Is soil hy	/dric?	NO	Submit this f	Sample location is in a BVW	X Dicability or Notice of Intent.			

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Applicant: Juggler Me Check all that apply: Vegetation	alone presumed adequate to d	Prepared by: BEC, Inc. elineate BVW boundary: fill out Se gy used to delineate BVW bounda	ection I only	Project location: Lev			DEP File #:	
Method oth	er than dominance test used (a	ttach additional information)			014/00			40/00/0000
	ation and Plant Species cientific name)	Observation Plot Number: B. Percent (or basal	the second second second	Transect Number: C. Percent Dominance		Date of Deli ant Plant or no)	E. Wetla	a set and a set and a set at a
Lianas: N/A								
Saplings: N/A								
Shrubs: N/A								
Verbe	is arundinaceae* go altissima na hastata* ea sensibilis*	Reed-Canary Grass Tall Goldenrod Vervain, Blue Sensitive Fern	63 11 11 11	67 11 11 11	Yes No No No		E. Wetland India Category* FACW* FACU- FACW+ FACW*	FACU- FACW+*
FAC, FAC+, FACW, FACW physiological or morpholog Vegetation conclusion Number of dominant wet	, or OBL; or plants with physiolog cal adaptations, describe the adap on: and indicator plants:	Wetlands Protection Act (MGL c. 131 ical or morphological adaptations. if a otation next to the asterisk. 1 ater than the number of dominant n	ny plants are iden Number	ified as wetland indicator p of dominant non-wetland	lants due to	IYES 0	1	



	I Interpretat		lydrology		Observation Plot Number: (B-5') Transect Number: 2W- Other Indicators of Hydrology: (check all that apply and describe) Site inundated:	-23				
Is there a p	ublished soil	survey for this	site?	YES	Depth to free water in observation hole:					
title/da	te:		Hampshire, C	entral	X Depth to soil saturation in observation hole: ~14	•"				
map nu	map number:				Water marks:					
soil typ	soil type mapped: Ra		Raynham		Drift lines:					
hydric soil inclusions:		NO		Sediment deposits:						
Are field observations consistent with soil survey? YES				YES	Drainage Patterns in BVW:					
Remarks:	Soils in D I	ing near PP	embankment, p	ast horrow	Oxidized rhizospheres:					
Disturbed	50115 III P-L	ine, near KK	empankment, p	ast borrow	Water stained leaves:					
2. Soil Des	scription				Recorded data (stream, lake, or tidal gauge; aerial photo; oth	er):				
Horizon A	on Depth Matrix Color	Texture VFSL	Mottles Color	Other:						
AB	6-8	10YR 4/2	Sil		Vegetation and Hydrology Conclusion					
Ab	8-12	10YR 2/2	Sil	000 400/0 0/0	YES NO					
Bg	12-16"+	10YR 5/2	Sil	C2D 10YR 6/2	Number of wetland indicator plants > number of non-wetland indicator plants X					
Remarks:					Wetland hydrology present:					
					hydric soil present X					
3. Other:					other indicators of hydrology present X					
Conclusions: Is soil hydric? YES				Submit this	Sample location is in a BVW X					

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DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form Applicant: Juggler Meadow Prepared by: BEC, Inc. Project location: Leverett Road, Amherst DEP File #: Check all that apply: Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only Vegetation and other indicators of hydrology used to delineate BVW boundary : fill out Sections I and II Method other than dominance test used (attach additional information)											
	Section 1.	Vegetation	Observation Plot Number	r: Upland	Transect Number:	3W-22 Date	of Delineation: 11/11/2009				
	A. Sample Layer and Plant Species (by common/scientific name)		B. Percent Cover (or basal area)		C. Percent Dominance	D. Dominant Pla (yes or no)	Category*				
	Trees:	Acer rubrum*	Red Maple	154	100	Yes	FAC*				
	Lianas: Saplings: Shrubs:	N/A Picea pungens N/A	Blue Spruce	10.5	100	Yes	UPL				
1	Groundcover:	Solidago altissima Alliaria petiolata Phalaris arundinaceae*	Tall Goldenrod Garlic Mustard Reed-Canary Grass	38.0 20.5 3.0	62 33 5	Yes Yes No	FACU- FACU- FACW*				

* Use an asterisk to mark indicator plant species listed in the Wetlands Protection Act (MGL c. 131, s.40); plants in the genus Sphagnum; plants listed as FAC, FAC+,FACW,FACW+, or OBL; or plants with physiological or morphological adaptations. if any plants are identified as wetland indicator plants due to

physiological or morphological adaptations, describe the adaptation next to the asterisk.

 Vegetation conclusion:
 1
 Number of dominant non-wetland plants:
 3

 Number of dominant wetland indicator plants:
 1
 Number of dominant non-wetland plants:
 3

 Is the number of dominant wetland plans equal to or greater than the number of dominant non-wetland plants?
 NO
 1

 If vegetation alone is presumed adequate to delineate the BVW boundary, submit this form with the Request for Determination of Applicability or Notice of Intent.
 1
 1



	I Interpretat		lydrology		Observation Plot Number: Upland Transect Number: 2w 23 Other Indicators of Hydrology: (check all that apply and describe) Site inundated:			
	180	survey for this	site?	YES	Depth to free water in observation hole:			
title/dat		,	Hampshire, Central		Depth to soil saturation in observation hole:			
map nu					Water marks:			
soil typ	e mapped:		Gloucester fS	SL.	Drift lines:			
hydric soil inclusions:			NO		Sediment deposits:			
Are field ob	servations co	onsistent with s	soil survey?	YES	Drainage Patterns in BVW:			
Remarks:					Oxidized rhizospheres:			
					Water stained leaves:			
2. Soil Des	scription				Recorded data (stream, lake, or tidal gauge; aerial photo; other):			
Horizon Ap	Depth 0-18''	Matrix Color 10YR 3/3	Texture FSL	Mottles Color	Other:			
В	18-24"	10YR 5/4	SL	@20" C3P 2.5Y 5/3 F1P 5YR 4/6	Vegetation and Hydrology Conclusion			
					YES NO Number of wetland indicator plants X > number of non-wetland indicator plants X			
Remarks:					Wetland hydrology present:			
					hydric soil present X			
3. Other:					other indicators of hydrology present X			
Conclusio	ns: Is soil hy	/dric?	NO	Submit this f	Sample location is in a BVW X			

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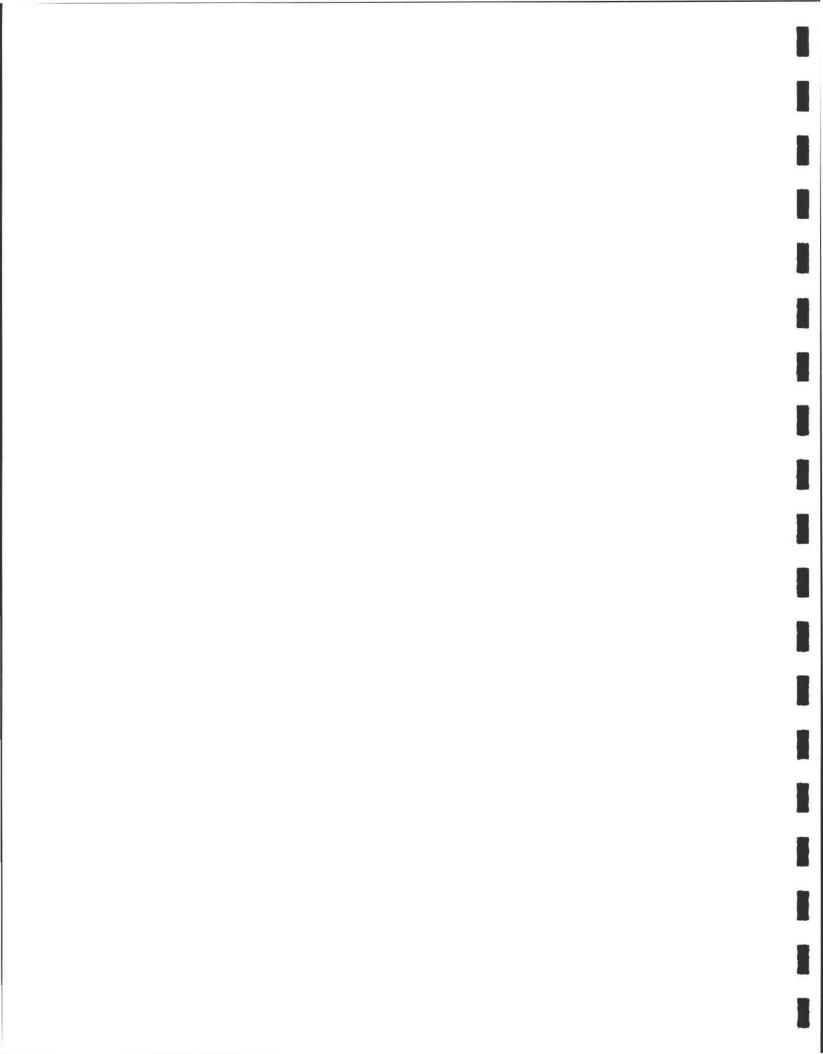
DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Section 1.	Vegetation	Observation Plot Number:	(B-5')	Transect Number:	3W-22 Date of	f Delineation: 11/11/200
	e Layer and Plant Species nmon/scientific name)	B. Percent (or basal		C. Percent Dominance	D. Dominant Pla (yes or no)	nt E. Wetland Indicator Category*
(by con Frees:	N/A	(0) 5454	, urcuj	Dominance	() co or no,	Galogory
ianas:	N/A					
Saplings:	N/A					
Shrubs:	N/A					
Groundcover	Phalaris arundinaceae* Solidago altissima Polygonum sagittatum* Alliaria petiolata	Reed-Canary Grass Tall Goldenrod Arrow-leaved Tearthumb Garlic Mustard	98.0 20.5 10.5 3.0	74 16 8 2	Yes No No	FACW* FACU- OBL* FACU-
	to mark indicator plant species listed in W.FACW+, or OBL; or plants with physic	the Wetlands Protection Act (MGL c. 131	and the second second second			



Section II. Indicators of Hydrology Hydric Soil Interpretation 1. Soil Survey					Observation Plot Number: (B-5') Transect Number: 3W-22 Other Indicators of Hydrology: (check all that apply and describe) Site inundated:
Is there a published soil survey for this site? YES					Depth to free water in observation hole:
title/date: Hampshire, Central			Hampshire, C	entral	Depth to soil saturation in observation hole:
map number:					Water marks:
soil typ	be mapped:		Ridgebury fS	L	Drift lines:
hydric	soil inclusior	IS:	NO		Sediment deposits:
Are field ob	servations c	onsistent with s	soil survey?	YES	Drainage Patterns in BVW:
Remarks:					Oxidized rhizospheres:
Disturbed Soils in P-Line, near RR embankment, past borrow					Water stained leaves:
2. Soil Description					Recorded data (stream, lake, or tidal gauge; aerial photo; other):
Horizon A	Depth 0-5"	Matrix Color 10YR 2/2	Texture FSL	Mottles Color	Other:
Bw C	5-12" 12-18"	10YR 4/2 10YR 5/2	FSL	C1P 7.5YR 5/6 C2P 7.5YR 5/6	Vegetation and Hydrology Conclusion YES NO
0	12-10	1011(0/2		021 7.011(0)0	Number of wetland indicator plants > number of non-wetland indicator plants
Remarks:					Wetland hydrology present:
0. Other					hydric soil present X
3. Other:					other indicators of hydrology X
Conclusions: Is soil hydric? YES Submit this					Sample location is in a BVW X form with the Request for Determination of Applicability or Notice of Intent.

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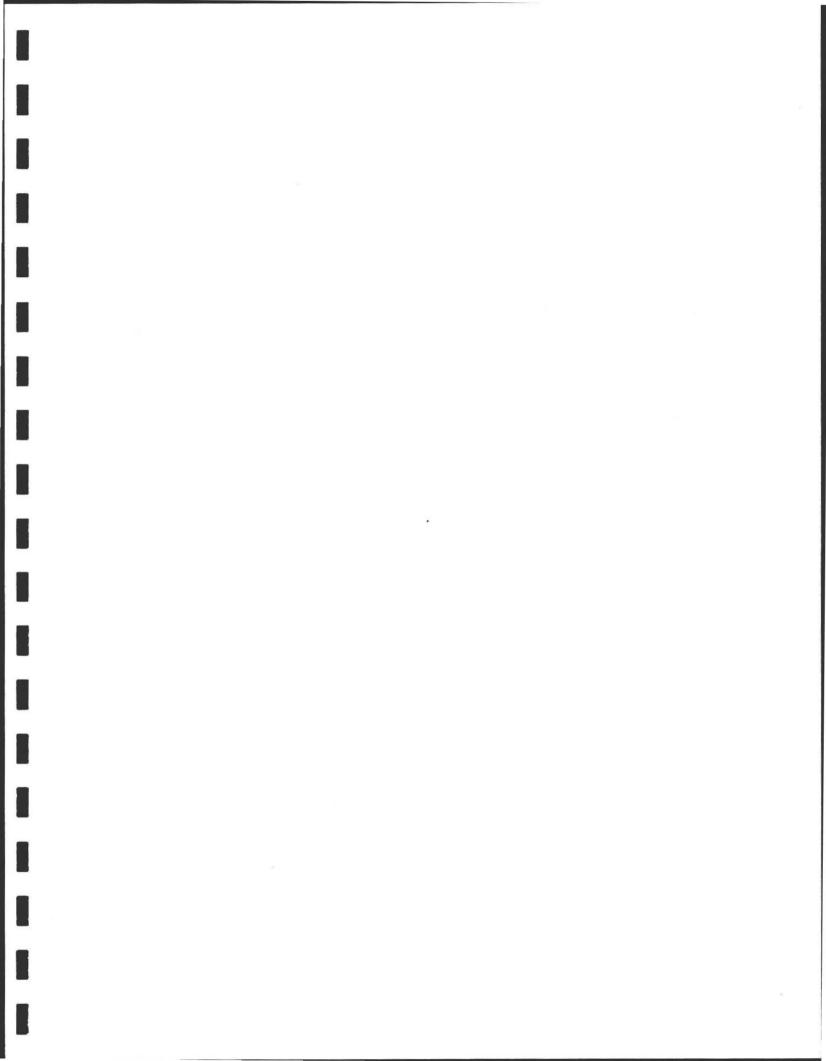


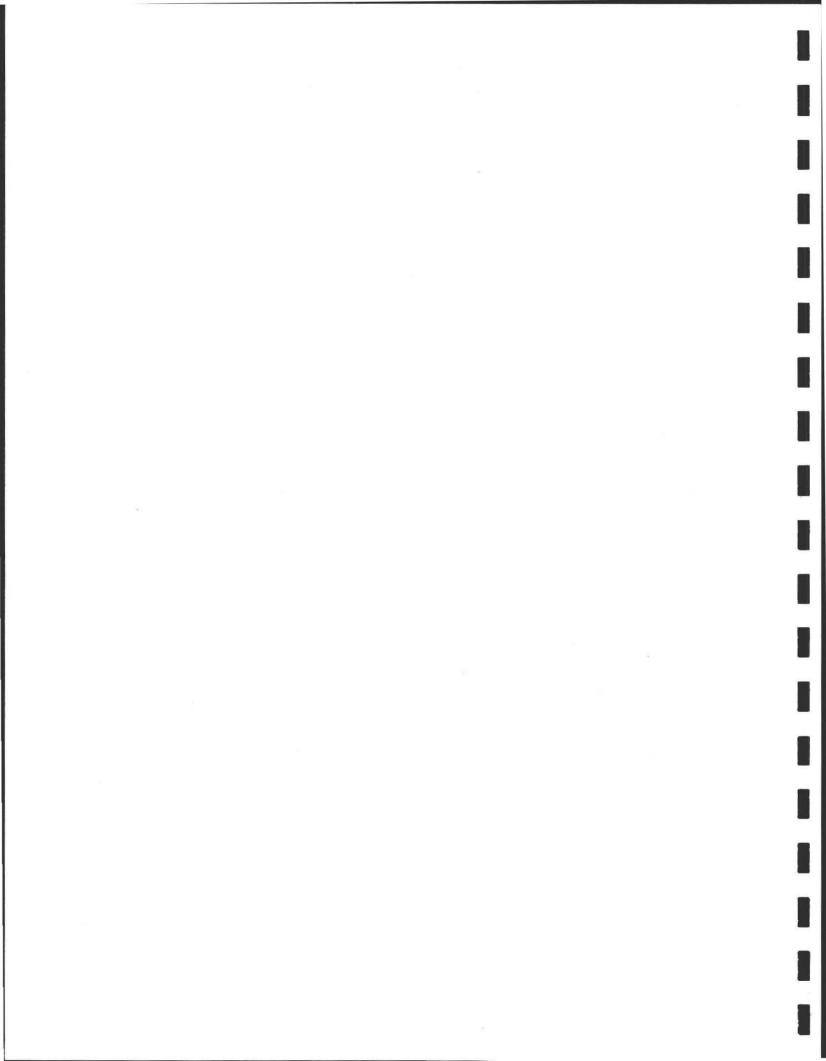
APPENDIX D

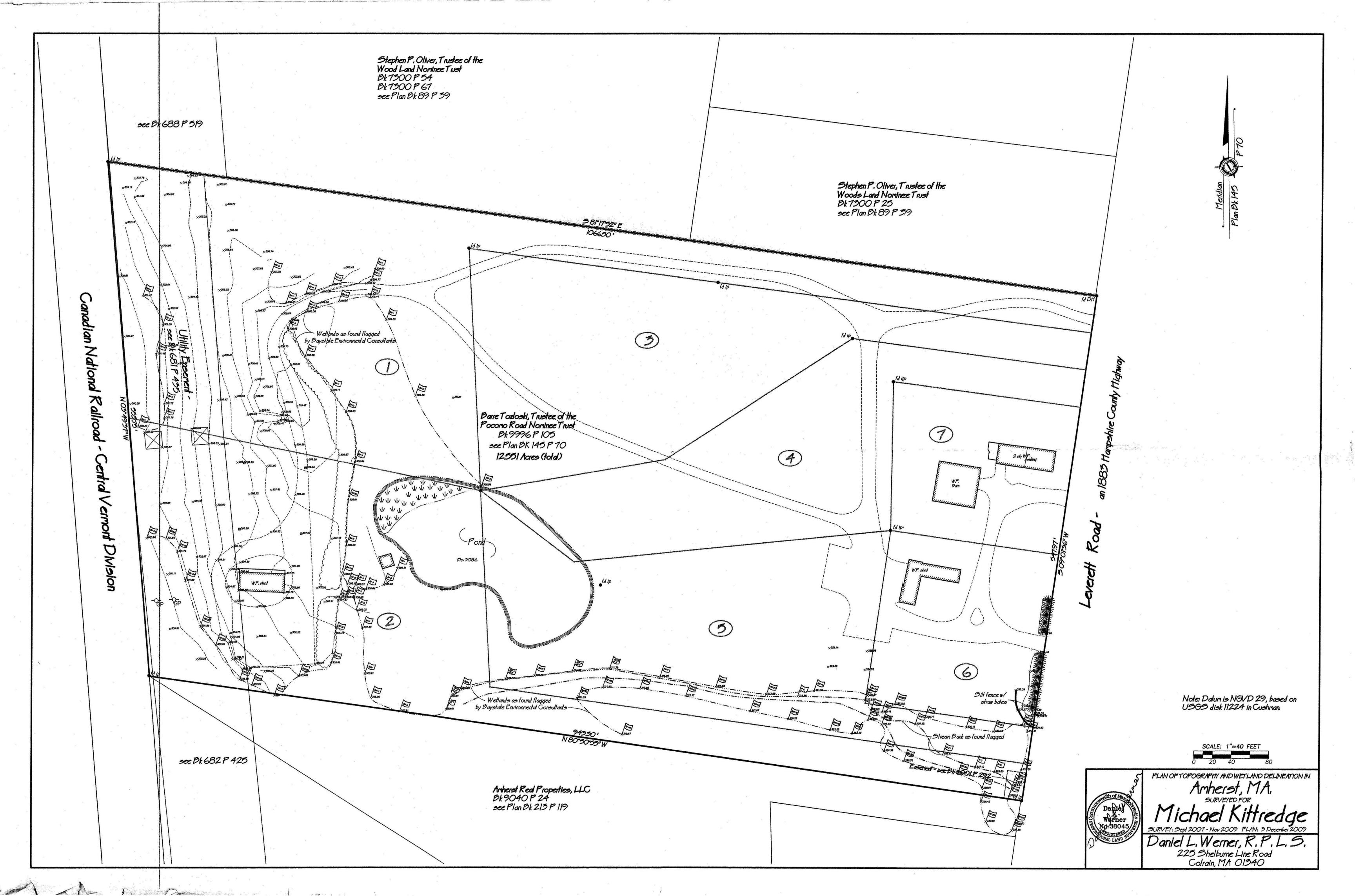
Site Plans

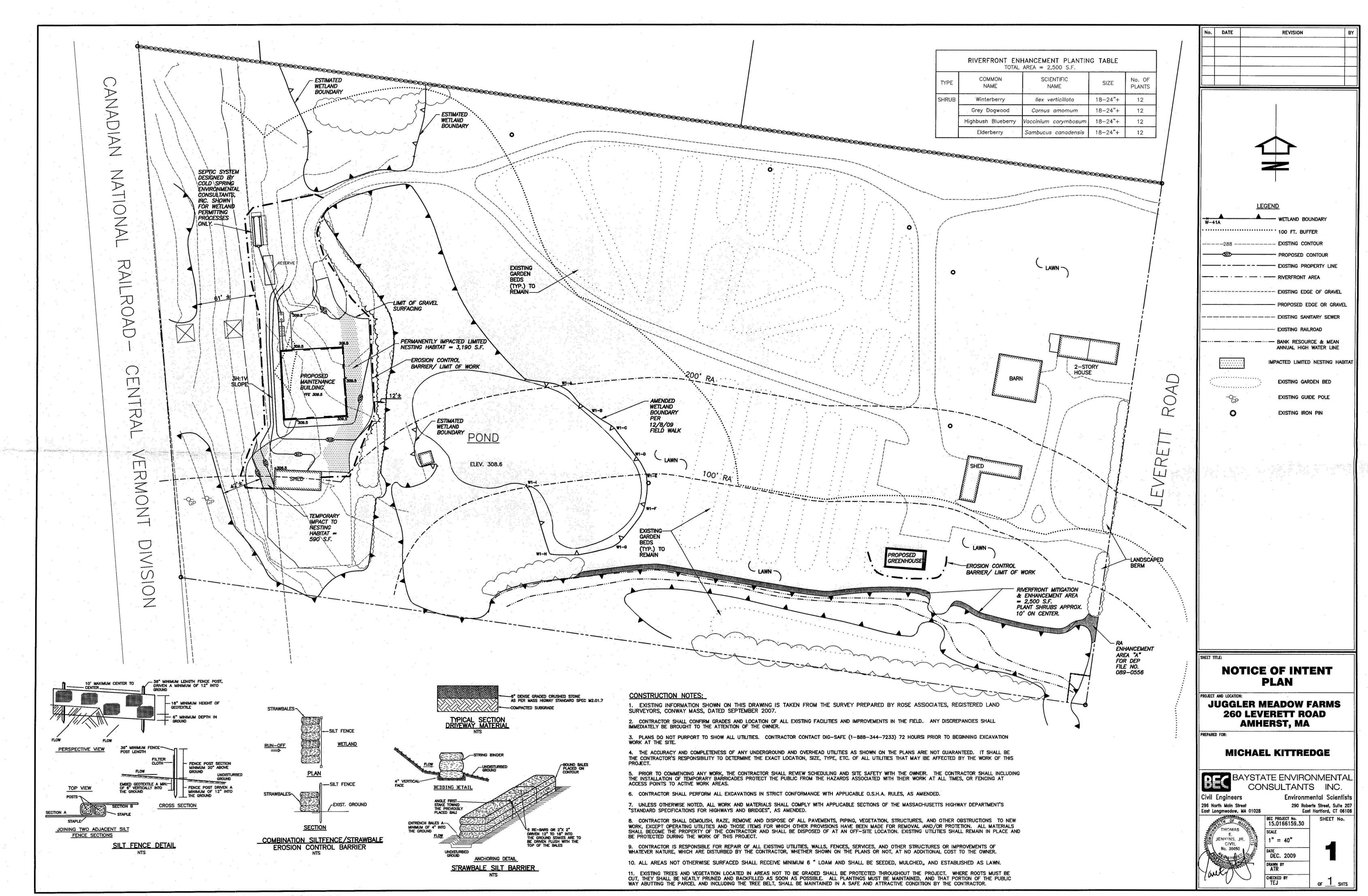
260 Leverett Road

Amherst, Massachusetts





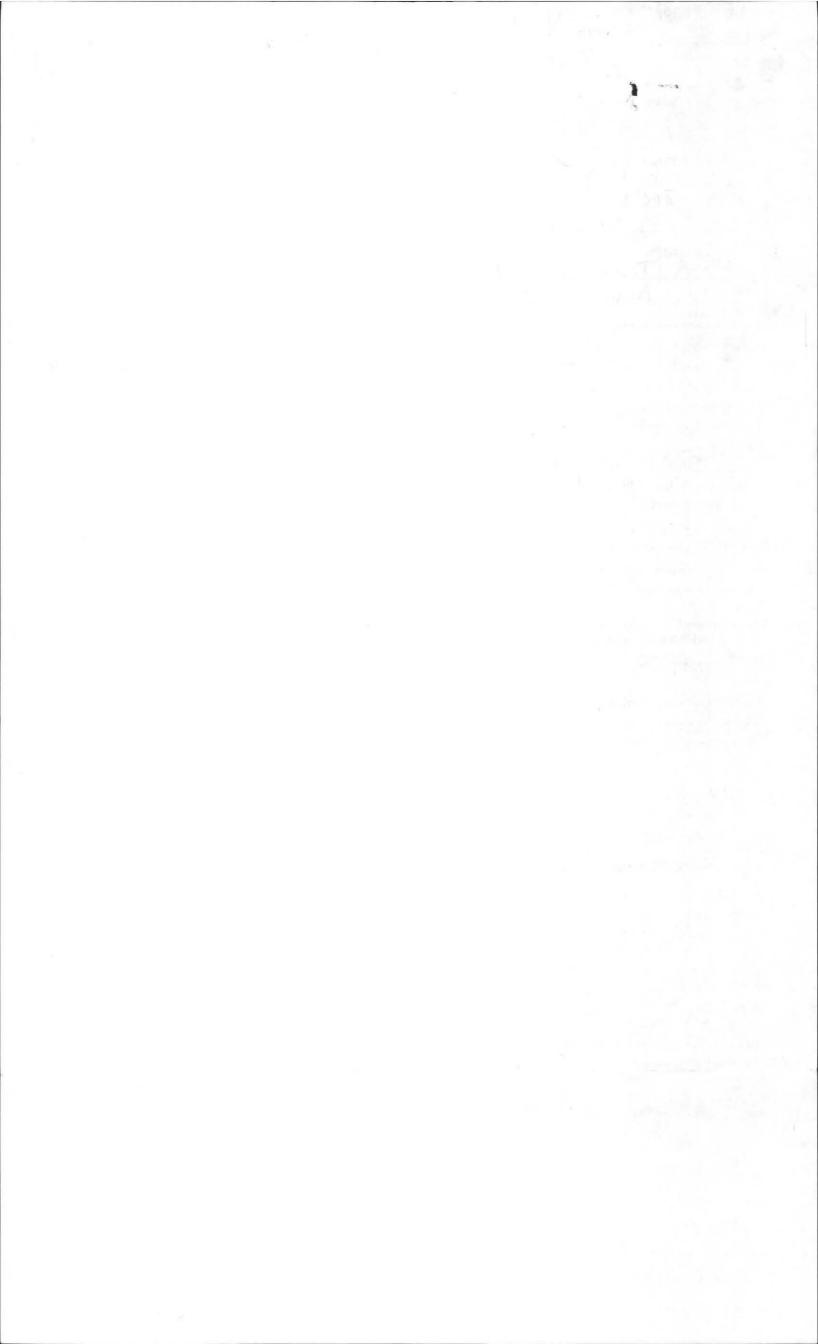




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2 COMMONWEALTH	ALAN E WEISS
Board of Health, _ (~)	nherst., MA.
APPLICATION FOR DISPOSAI	L SYSTEM CONSTRUCTION PERMIT
5 9 . Z	Abandon() - Complete System C Individual Components
Location 260 Lewott A.D. (Rec)	Owner's Name Parre FFN (U. /M. Kittidge.
Map/Parcel# 34 - 10	Address 312 Leworett RD.
Lot#	Telephone# 548 - 9802
Address A Land Const / P. Mistri	Eq. The wery , icro pring cite
Telephone#	Address Belchetaw, MA Telephone# 323-5957
	Lot Size $12 t/-A_{c}$ sq. ft.
Dwelling - No. of Bedrooms	Garbage grinder (∧√ No. of persons Showers (), Cafeteria ()
Other Fixtures	No. or persons Showers (), Calciena ()
	ed design flow Design flow provided gpd
Plan: Date Number of sheets	Revision Date
Title Septic Play For Mainter	ren le la age.
Description of Soil(s) $(455 \ddagger (L5))$	1 111165 19
Soil Evaluator Form No Name of Soil Eva	valuator A W H S Date of Evaluation $12 - 15 - 09$
DESCRIPTION OF REPAIRS OR ALTERATIONS	le-Contractule.
The undersigned agrees to install the above described Individual S further agrees to not to place the system in operation until a Cert Signed D	
further agrees to not to place the system in operation until a Cert Signed D	tificate of Compliance has been issued by the Board of Health. Date $13-33-09$
further agrees to not to place the system in operation until a Cert Signed D	tificate of Compliance has been issued by the Board of Health. Date $13-33-09$
further agrees to not to place the system in operation until a Cert Signed D Inspections	tificate of Compliance has been issued by the Board of Health. Date 13-33-09
further agrees to not to place the system in operation until a Cert Signed D Inspections	tificate of Compliance has been issued by the Board of Health. Date $13-33-09$
further agrees to not to place the system in operation until a Cert Signed D Inspections No. 09-12	tificate of Compliance has been issued by the Board of Health. Date 13-33.09
further agrees to not to place the system in operation until a Cert Signed D Inspections No No COMMONWEALTH	H OF MASSACHUSETTS
further agrees to not to place the system in operation until a Cert Signed D Inspections No No COMMONWEALTH	tificate of Compliance has been issued by the Board of Health. Date 13-33.09
further agrees to not to place the system in operation until a Cert Signed D Inspections No No No D COMMONWEALTH Board of Health,	H OF MASSACHUSETTS
further agrees to not to place the system in operation until a Cert Signed D Inspections No No No No No COMMONWEALTH Board of Health, CERTIFICATE	H OF MASSACHUSETTS <u>mherer</u> , MA. OF COMPLIANCE
further agrees to not to place the system in operation until a Cert Signed D Inspections D No O No O No O No O No O No O No O No O COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complet The undersigned hereby certify that the Sewage Disposal System;	H OF MASSACHUSETTS <u>mhere T</u> , MA. OF COMPLIANCE the System
further agrees to not to place the system in operation until a Cert Signed D Inspections D No O No COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complex The undersigned hereby certify that the Sewage Disposal System; by: DD	H OF MASSACHUSETTS <u>mhere r</u> , MA. OF COMPLIANCE the System Constructed (), Repaired (), Upgraded (), Abandoned ()
further agrees to not to place the system in operation until a Cert Signed D Inspections D No O No O COMMONWEALTH Board of Health, CERTIFICATE Description of Work: □ Individual Component(s) □ Complet The undersigned hereby certify that the Sewage Disposal System; by: D D D D D D D D D D D D D D	H OF MASSACHUSETTS <u>Mhere T</u> , MA. OF COMPLIANCE the System Constructed (¹ / ₂ , Repaired (), Upgraded (), Abandoned () Ref
further agrees to not to place the system in operation until a Cert Signed	FEE
further agrees to not to place the system in operation until a Cert Signed	FEE
further agrees to not to place the system in operation until a Cert Signed	H OF MASSACHUSETTS FEE
further agrees to not to place the system in operation until a Cert Signed	FEE
further agrees to not to place the system in operation until a Cert Signed	FEE
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Date 12/23/09 Board of Health Shyll autemanche



C.	COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.	FORM 11 - SOIL EVALUATOR FORM
	ALAN E. WEISS, M.S., L.S.P. Licensed Site Professional Registered Sanitarian	Page 1 of 3
350 Old Enf	President *Subsurface Investigations	
Belchenown (413) 323-59	ST & 323-4916 (FAX) Septic Designs	Date: 12-15-07
	Commonwealth of I	Massachusetts
	Coil C : I The Hanherst ,	Massachusetts
	Sou Suitability Assessment for	<u>· On-site Sewage Disposal</u>
	Performed By: A. Weiss	Date: 12-19-09
	Witnessed By: G Cost fuer de,	Date: 12-19 09
	Location Address or	r'i Name, D. F. (a)
	# 260 Lowerth (Venis) Addre	as, and Parafini (0, as, and 312 Loverett 120
	New Construction Prepair	Amhorst, MA.
	Office Review Privy by Shoel	
	Published Soil Survey Available: No 🗌 Yes 🛛	e
	Year Published Publication Scale	
	Drainage Class Soil Limitations	Soil Map Unit
	Surficial Geologic Report Available: No 🛃 Yes 🗌	
	Year Publication Scale	
	Geologic Material (Map Unit)	
	Lanoiom	
	Flood Insurance Rate Map:	4.
	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:	\$

DEP APPROVED FORM - 12/07/95

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FORM 11 - SOIL EVALUATOR FORM Page 2 of 3

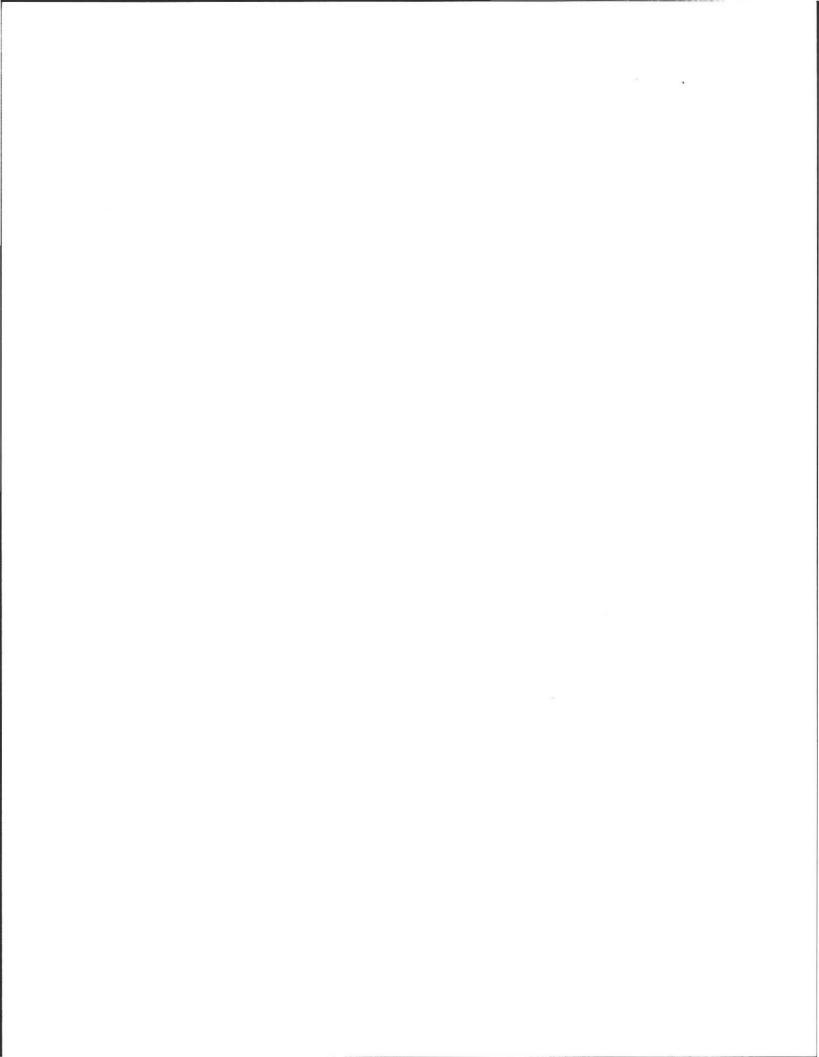
1

Location Address or Lot No. 260 Leverent RD.

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				<u>On-</u>	site Rev	view	÷	
	Deep Hole Location (ic Land Use_	# # Number <u>1 ₹7</u> dentify on site	Date:	12-15 09	Time:		Weather <u>Goods</u> 40°	² F
Vegetation Slope (%) _2 Su					2 Surf	ace Stones	Mayi	<u></u>
Landform Icanaced.								
	Position on landscape (sketch on the back) Distances from: Open Water Body						-	
								<u>ب</u> .
							and the second	
	POSS	Possible Wet Area 50'f fact feet						
	Drink	Drinking Water Well feet Other feet						
				Oure		* *		
			DEED	10000010		·		-
				DOSERVA	A TION H	OLE LOG*		
. 6_	Depth from Surface (Inches)	Soil Horizon	Soil Textur (USDA)	e Soil Color (Munseil)	1 001			
#1	0-6"	A				(Structure, S	Other itones, Boulders, Consistency, 9	6
	6"-1Z"	Bw	FSC SL	101833	1	- Frichler	Cravel,	
	12" > 108"	C.	1	7.5412416,	36"	- Friable i	20052	1
54	10-6"	10	25 754RY/6 104REKS	Fim Sady 9	= M Sady grace ily Abblation till			
455	6-13"	A B.	FSL	10412313		-Friebu :	Justances mit	\downarrow
	13'-50"	C.	SL LS	7154246		-Frichle, L		
			LS 7.5421		36"	F-M.S.	ocsi I	
451	0-81	A	FSL	104233	4 - 10	Jan	dy grave 1 Holution Ti	i (
-	0 -16" 16" - 78"	Bw	SL	1				+
	10 70	C,	LS	7:5446			*	1
H	0-91	A		7-5416	36"	Sal		
#4	9-12"	BN	FSL	10413/3				-
	10-59"	C .	SL	7.51146		~		1
F	* MINIMITA	010000	15	7.5-14/6	35.1	Sae		
* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA								
Depth to Groundwater: Standing Water in the Hole: Depth Depth Bedrock: 59 - 108 "								
	Estimated Seasonal High Ground Water: 36" Weeping from Pit Face: 70							
							/	
		FP A PPD CT-					1	
	Ľ	EP APPROVED FO	RM - 12/07/95				T T	
							l,	

i.



FORM 12 - PERCOLATION TEST

Location Address or Lot No. zwo heward RD.

COMMONWEALTH OF MASSACHUSETTS Ankerst, Massachusetts

Percolation Test* Date: 12-15-09 Time:, 10:00. Observation Hole # P. Pz Depth of Perc 44' 42" Start Pre-soak 10:25 End Pre-soak 10:30 10:40 Time at 12" 10:45 10:40 Time at 9" 10:45 10:50 Time at 6" 1055 11:05 Time (9"-6") 11:228 15 Min Rate Min./Inch 23 5 MIJ Lin * Minimum of 1 percolation test must be performed in both the primary area AND

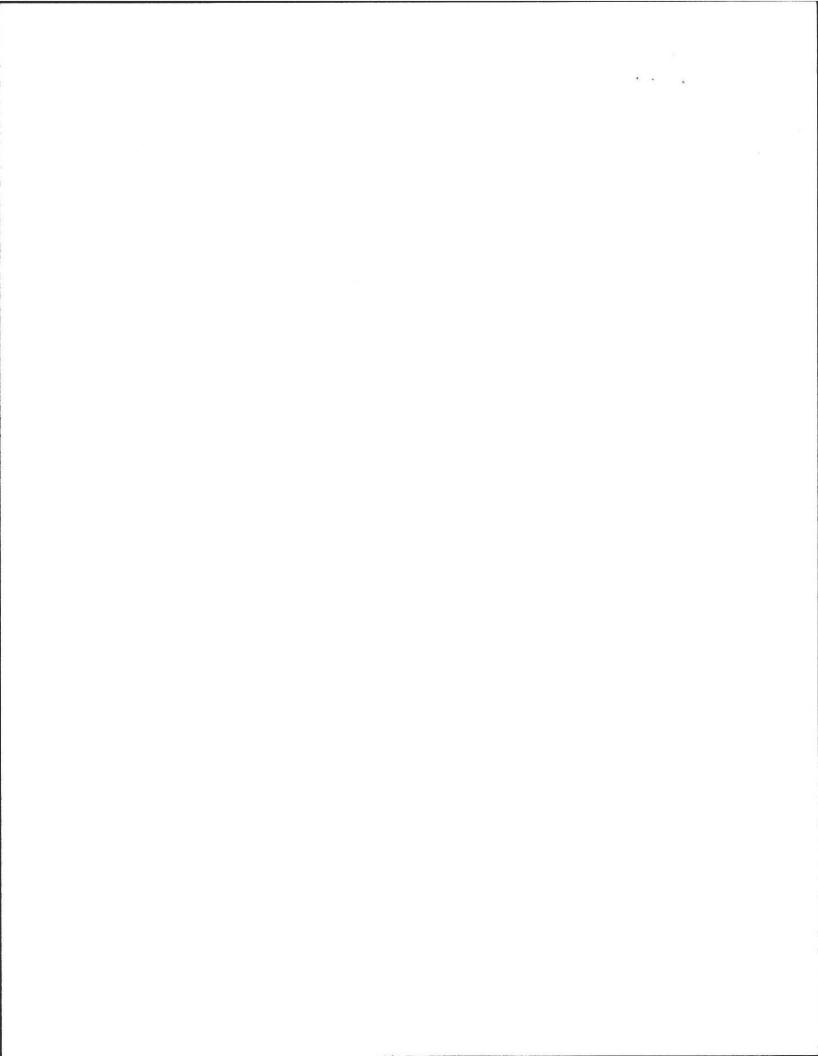
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Site Passed 💹 Site Failed Performed By: A.Weigs Witnessed By: 6. Contrade

Comments:



DEP APPROVED FORM - 12/07/95



Location Address or Lot No. 260 leveret 10.

Determination for Seasonal High Water Table

Method Used:

____ Depth observed standing in observation hole _____ inches

Depth to soil mottles 36 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

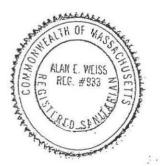
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? 4*5

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

Certification

I certify that on 6% (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.

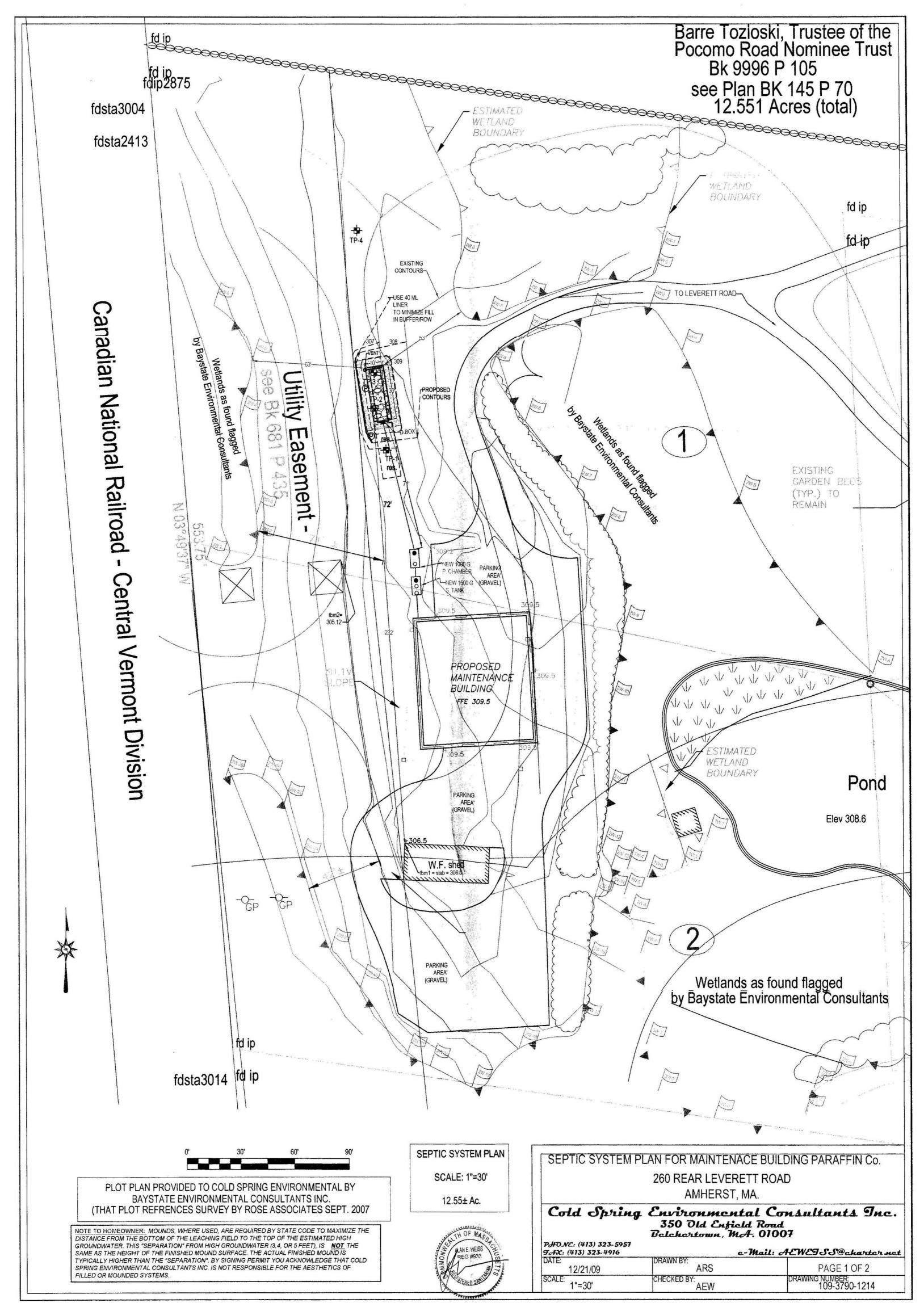
Date 12-15-69 Signature

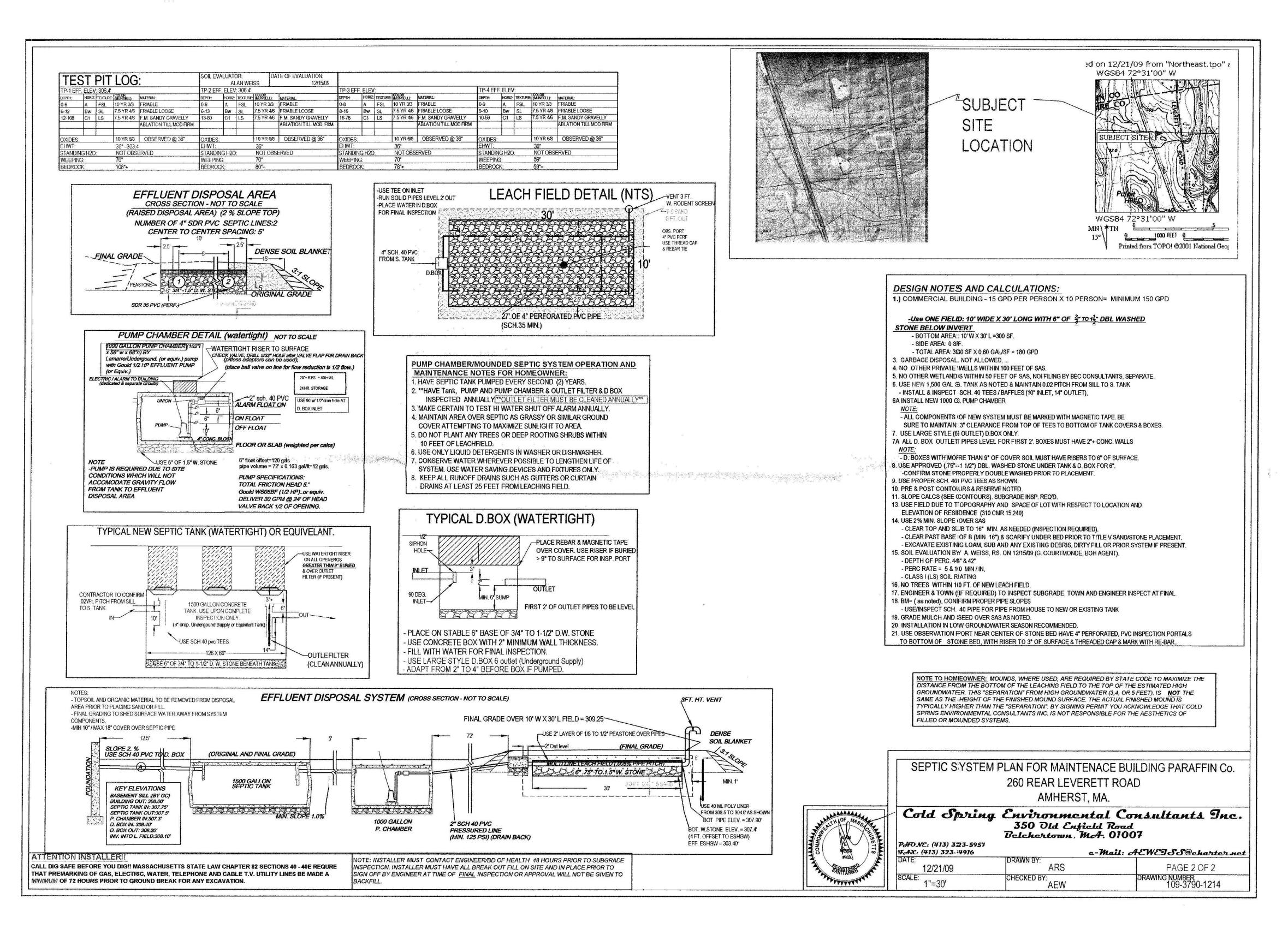




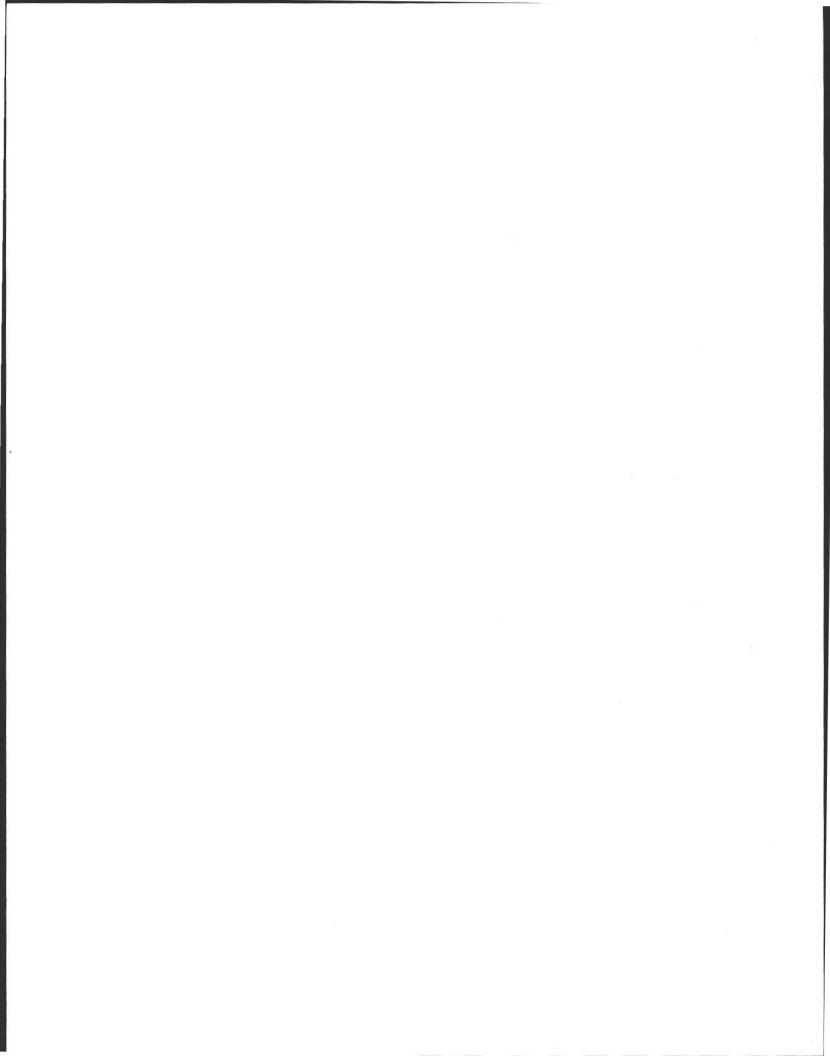
DEP APPROVED FORM - 12/07/95

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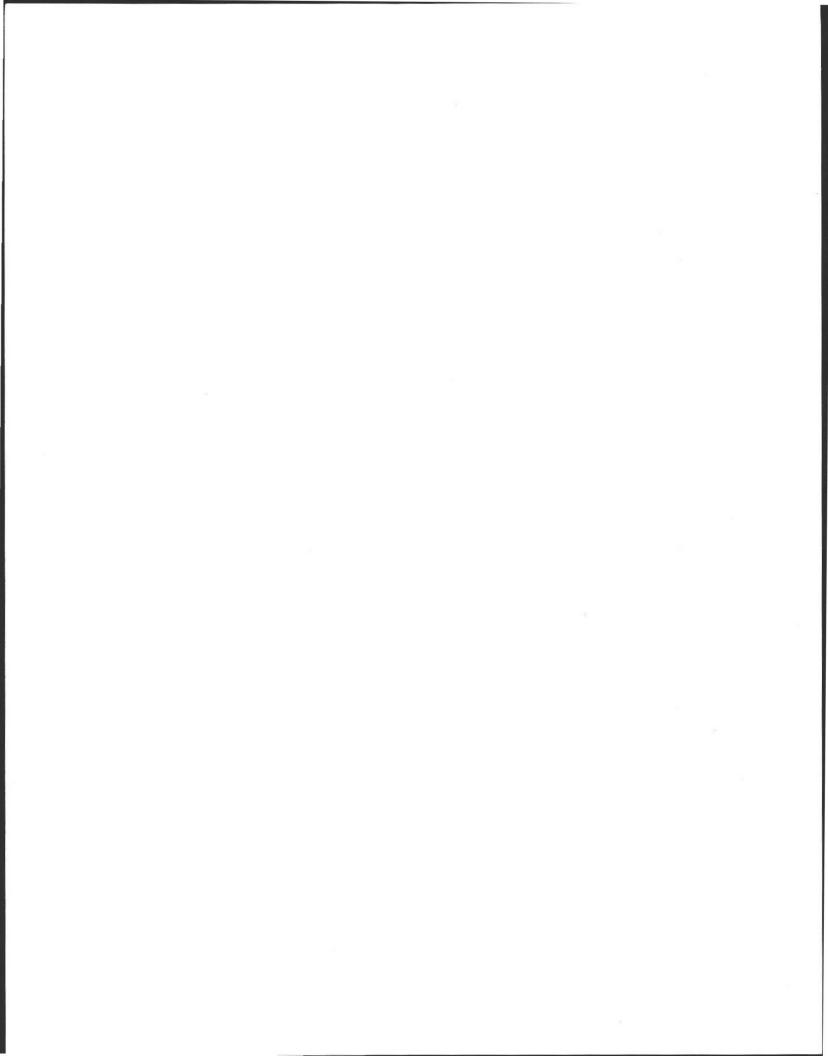




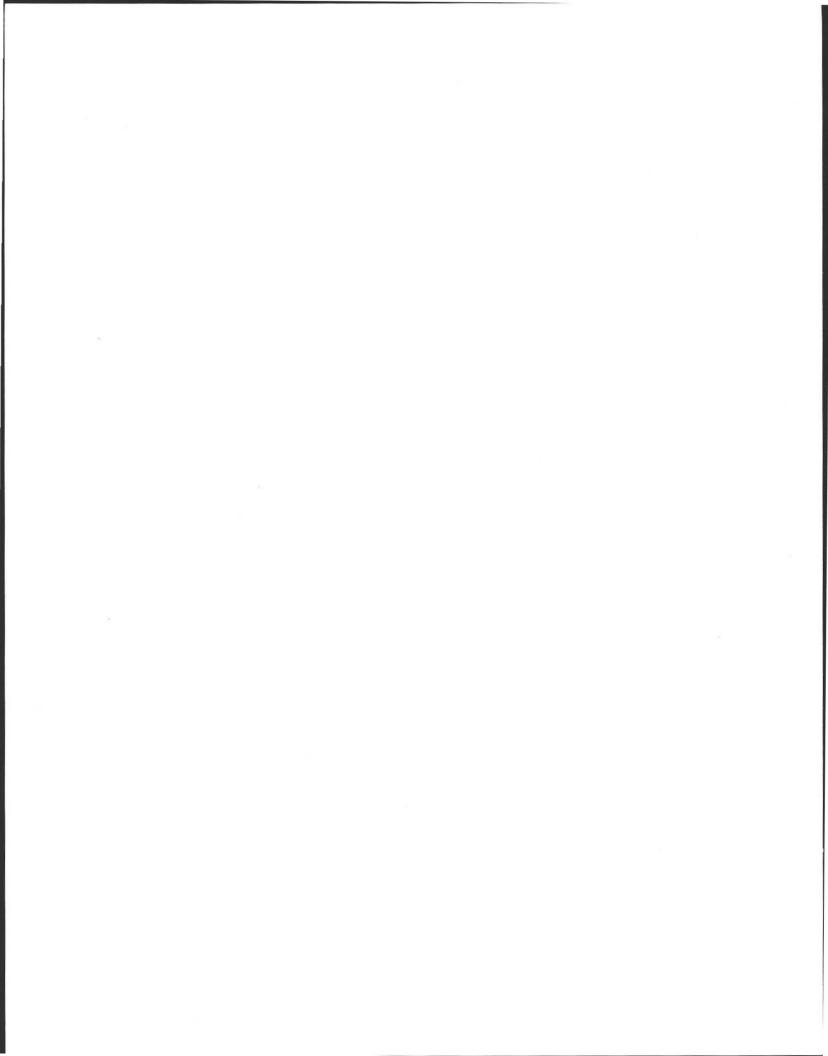
TOTAL PAID:



TOTAL PAID:



TOTAL PAID:





AMHERST

Massachusetts

AMHERST HEALTH DEPARTMENT, 70 BOLTWOOD WALK, AMHERST, MA 01002 (413) 259-3077 (413) 259-2404 - FAX Environmental Health Division (413) 259-3078

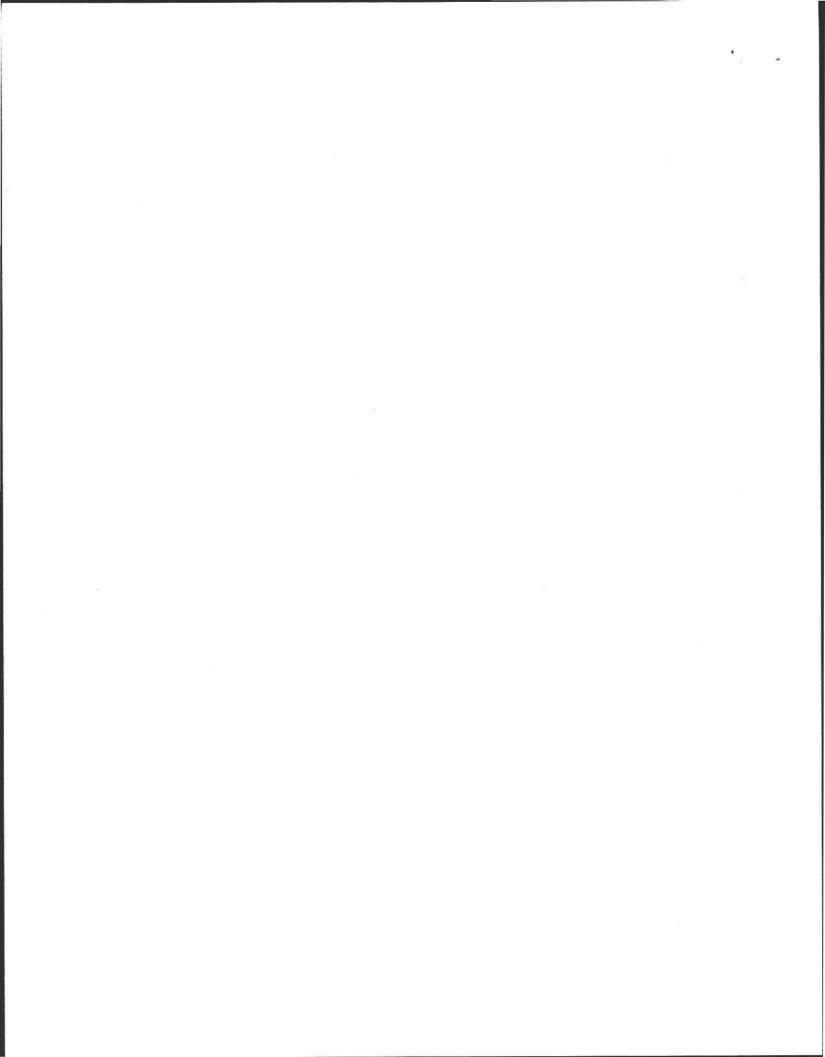
APPLICATION FOR A WELL CONTRUCTION PERMIT

I hereby petition the Board of Health of the Town of Amherst for a Well Construction Permit (WCP) to install a private well in the Town of Amherst.

ATTACHED IS A PLAN SHOWING THE PROPOSED LOCATION OF THE WELL (WITH ORIGINAL DATE, STAMP AND SIGNATURE OF AN ENGINEER REGISTERED SANITARIAN, OR REGISTERED LAND SURVEYOR) MEETING ALL THE REQUIREMENTS OF AMHERST RULES AND REGULATIONS FOR PRIVATE WELLS.

	1.	Address of Property:					
	2.	Assessor of Parcel Number:					
	3.	Name of Owner:	Telephone Number:				
		Address of Owner:	п				
	4.	Name of Well Driller: (Must be registered with Massachusetts Water Resources Commission)					
	5.	Purpose of Well: *Drinl	ing () Agricultural Only ()				
wh law	ich i 's of	is the matter of this application, s f the Town of Amherst and the C	nust, before commencing construction or use of the system ecure any and all other permits which may be required by the ommonwealth of Massachusetts, and agree to abide by all the Commonwealth of Massachusetts concerning private wells.				
	•	BUILDING PERMIT affectin	ds that if a private well is to be used for drinking purposes, a g the structure the well is to serves WILL NOT BE ISSUED cate has been granted by the Amherst Board of Health.				
Na	me o	of Applicant:	Fee: \$100.00				
Signature: Date:							
WI	CLL	_ PERMIT #					

MAKE SMOKING HISTORY



AMHERST BOARD OF HEALTH REGULATIONS FOR PRIVATE WELLS Adoption Date: October 30, 2008

I. PURPOSE

These regulations are intended to protect the public health and general welfare by ensuring that private wells are constructed in a manner which will protect the quality of the groundwater derived from private wells.

II. <u>AUTHORITY</u>

These regulations are adopted by the Amherst Board of Health, as authorized by Massachusetts General Laws, Chapter II1, section 31. These regulations supersede all previous regulations adopted by the Board of Health pursuant to the construction of private wells. These regulations are derived from the Massachusetts Department of Environmental Protection Model Board of Health Regulations for Private Wells, October 30, 1989, as revised February 1998.

III. DEFINITIONS

<u>Agent:</u> Any person designated and authorized by the Board to enforce these regulations. The agent shall have all the authority of the appointing Board and shall be directly responsible to the Board and under its direction and control.

<u>Applicant:</u> Any person who intends to have a private well constructed and is applying for a permit for same.

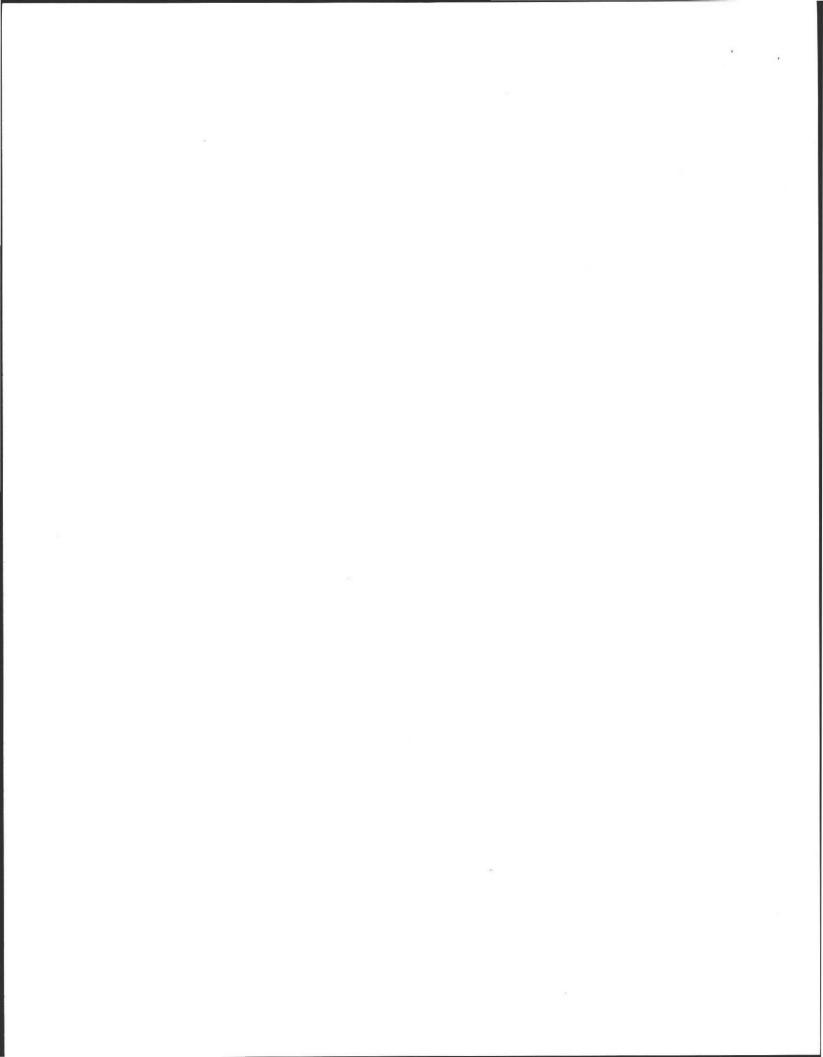
Board: The Board of Health of Amherst, Massachusetts or its authorized agent.

<u>Casing:</u> Impervious durable pipe placed in a boring to prevent the walls from caving and to serve as a vertical conduit for water in a well.

<u>Certified Laboratory:</u> Any laboratory currently certified by the Massachusetts Department of Environmental Protection for analysis of drinking water. Provisional certification shall also qualify.

1

Person: An individual, corporation, company, association, trust, or partnership.



<u>Private Well:</u> Any dug, driven, or drilled hole, with a depth greater than its largest surface diameter developed to supply water intended and/or used for human consumption and not subject to regulation by 310 CMR 22.00.

<u>Pumping Test:</u> A procedure used to determine the characteristics of a well and adjacent geologic formation by installing and operating a pump.

<u>Registered Well Driller:</u> Any person registered with the Department of Environmental Management/Office of Water Resources to dig or drill wells in the Commonwealth of Massachusetts.

Static Water Level: The level of water in a well under non-pumping conditions.

<u>Structure</u>: A combination of materials assembled at a fixed location to give-support or shelter, such as a building, framework, retaining wall, fence, or the like.

IV. WELL CONSTRUCTION PERMIT

The property owner or his designated representative shall obtain a permit from the Board of Health prior to the commencement of construction of a private well.

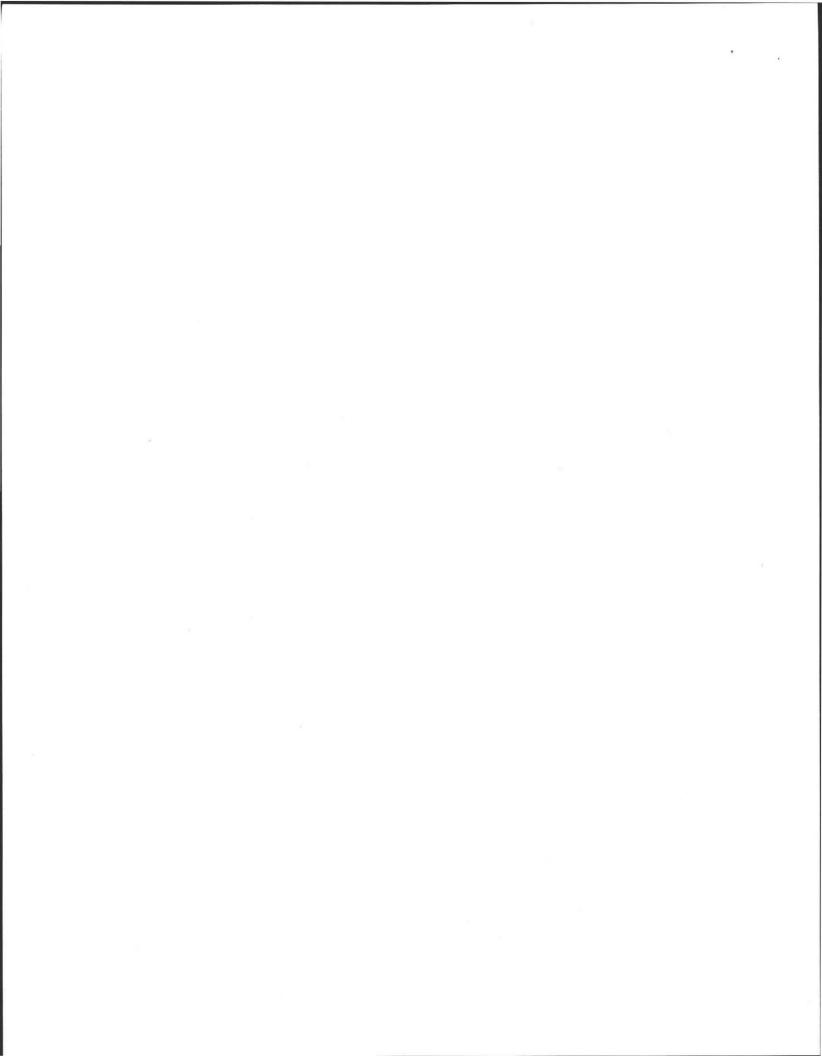
Each permit application to construct a well shall include the following:

- the property owner's name and address
- 2) the well driller's name and proof of valid state registration
- (3) a plan with a specified scale showing the location of the proposed well in relation to existing or proposed above or below ground structures on the subject property. 2 signed copies:
- A) a written description of visible prior and current land uses within twohundred (200) feet of the proposed well location, which represent a potential source of contamination, including but not limited to the following:
 - a) existing and proposed structures
 - b) subsurface sewage disposal systems
 - c) subsurface and above ground fuel storage tanks
 - d) public ways
 - e) utility rights-of-way
 - f) any other potential sources of pollution.
- \rightarrow ⁵⁾

proof that the owner of any property within one hundred and fifty (150) feet of the well and all property abutters have been notified by registered or certified mail, return receipt requested, of the applicant's intention to install a well.

6) a permit fee of \$100.00

The permit shall be posted in a visible manner on site at all times that work is taking place. Each permit shall expire one (1) year from the date of issuance unless revoked for cause. Permits may be extended for one additional six (6) months period provided that a



written request has been received by the Board prior to the one year expiration date, and the Board subsequently votes to grant such an extension. No additional fee shall be charged for a permit extension, provided there is no change in the plans for the proposed well.

Well Construction Permits are not transferable.

V. WATER SUPPLY CERTIFICATE

The issuance of a Water Supply Certificate by the Board shall certify that the private well may be used as a drinking water supply. No person shall use a private well, installed after the effective date of these regulations, as a drinking water supply without a Water Supply Certificate issued by the Board of Health.

The following shall be submitted to the Board of Health to obtain a Water Supply Certificate:

a) well construction permit

- (b) copy of the Water Well Completion Report as required by the DEM Office of Water Resources (313 CMR 3.00)?
- c) a copy of the Pumping Test Report required pursuant to Section VII of these regulations
- d) acopy of the Water Quality Report required pursuant to Section VIII of these regulations.

Upon the receipt and review of the above documents, the Board shall make a final decision on the application for a Water Supply Certificate. A final decision shall be in writing and shall comprise one of the following actions:

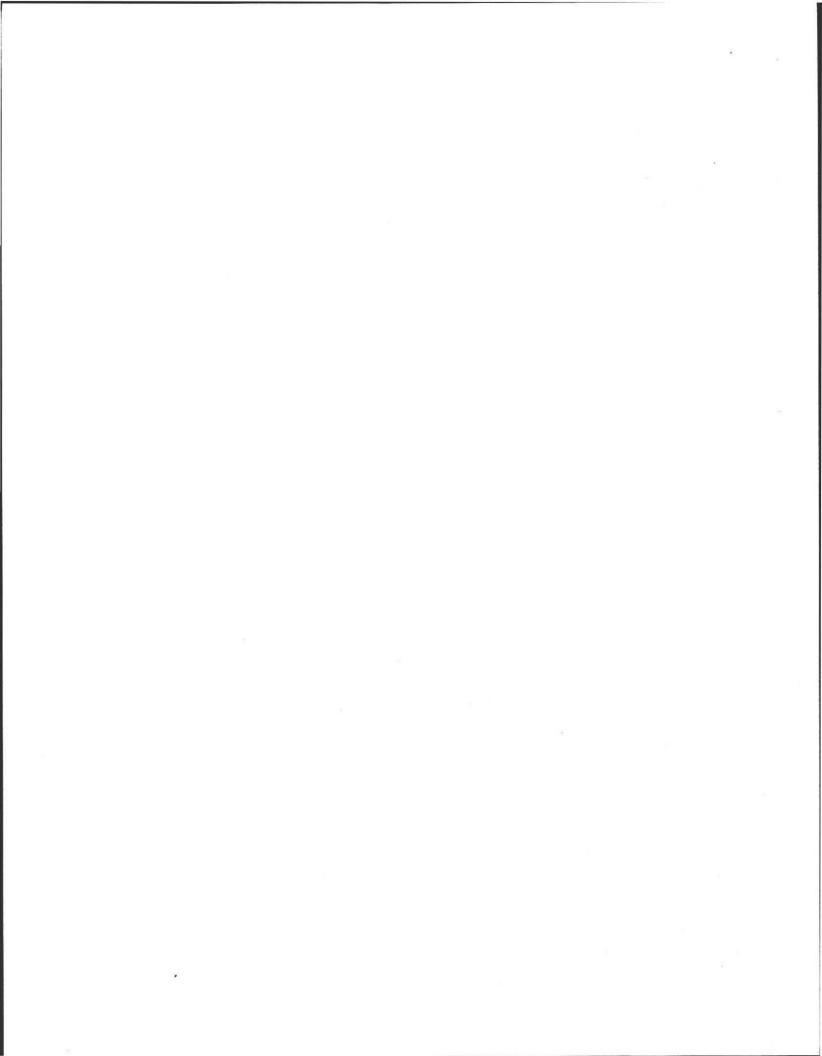
- a) Issue a Water Supply Certificate
- b) Deny the applicant a Water Supply Certificate and specify the reasons for the denial.

c) Issue a conditional Water Supply Certificate with those conditions which the Board deems necessary to ensure fitness, purity and quantity of the water derived from that private well. Said conditions may include but not be limited to requiring treatment or additional testing of the water.

It shall be the responsibility of the applicant to transmit a copy of any issued Water Supply Certificate or conditional Water Supply Certificate to the Building Commissioner in association with any request for a certificate cfacertificate of occupancy for any building(s) to be served by a private well.

VI. WELL LOCATION AND USE REQUIREMENTS

In locating a well, the applicant shall identify all potential sources of contamination which exist or are proposed within two hundred (200) feet of the site. When possible, the well shall be located upgradient of all potential sources of contamination and shall be as



far removed from potential sources of contamination as possible, given the layout of the premises.

Each private well shall be accessible for repair, maintenance, testing, and inspection. The well shall be completed in a water bearing formation that will produce the required quantity of water under normal operating conditions.

Each private well shall be located at least ten (10) feet from any property line. The centerline of a well shall, if extended vertically, clear any projection from an adjacent structure by at least five (5) feet.

All private wells shall be located a minimum of 25 feet away from the normal driving surface of any public roadway or a minimum of 15 feet from property boundary of the road right-of-way, whichever is greater.

Each private well shall be located at least 25 feet, laterally, from the normal high water mark of any lake, pond, river, stream, ditch, or slough. When possible, private water systems shall be located in areas above the 100-year floodplain.

A suction line or well shall be located a minimum of 10 feet from a building sewer constructed of durable corrosion resistant material with watertight joints, or 50 feet from a building sewer constructed of any other type of pipe; 50 feet from a septic tank; 100 feet from a leaching field; and 100 feet from a privy.

Water supply lines shall be installed at least 10 feet from and 18 inches above any sewer line. Whenever water supply lines must cross sewer lines, both pipes shall be constructed of class 150 pressure pipe and shall be pressure tested to assure **a** watertight-condition.

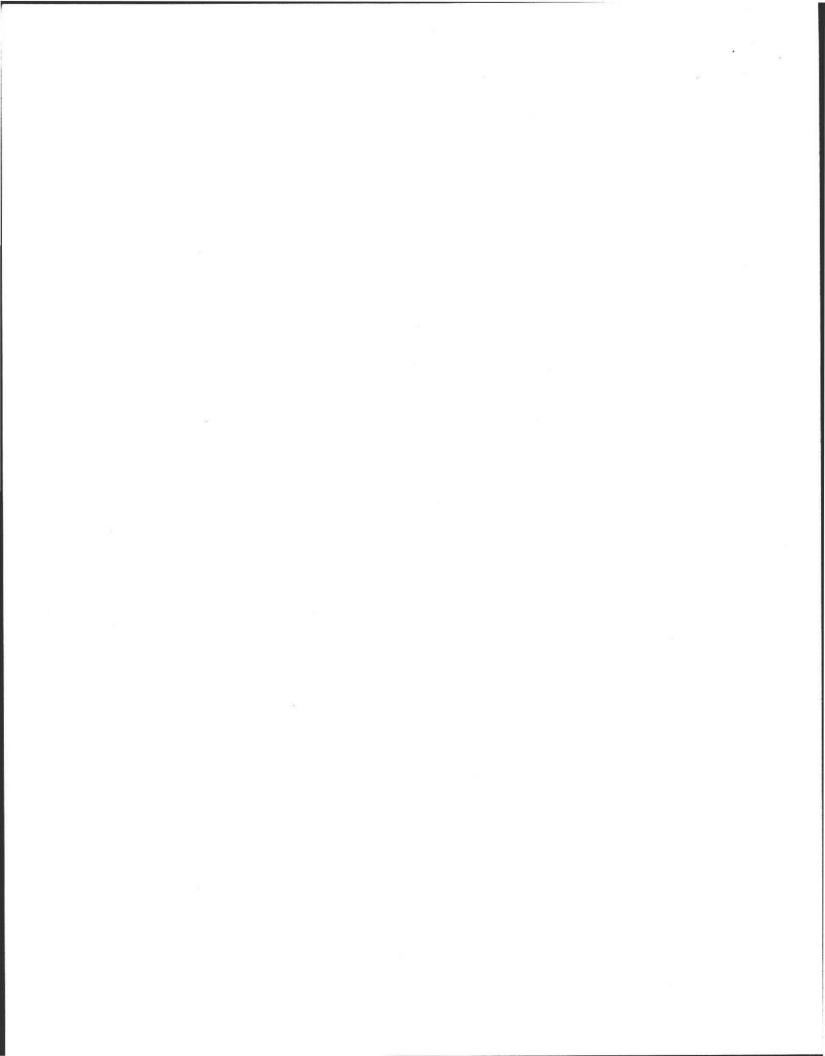
The Board reserves the right to impose greater dimensional requirements than those listed, and to impose minimum lateral distance requirements from other potential sources of contamination not listed above. All such special well location requirements shall be listed, in writing, as a condition of the well construction permit.

No private well, or its associated distribution system, shall be connected to either the distribution system of a public water supply system or any type of waste distribution system.

VII. WATER QUANTITY REQUIREMENTS

The applicant shall submit to the Board for review and approval a Pumping Test Report. The Pumping Test Report shall include the name and address of the well owner, description of well location if different from that described in the well construction permit application, date the pumping test was performed, depth at which the pump was set for the test, location for the discharge line, static water level immediately before

4



pumping commenced, discharge rate and, if applicable, the time the discharge rate changed, pumping water levels and respective times after pumping commenced, maximum drawdown during the test, duration of the test, including both the pumping time and the recovery time during which measurements were taken, recovery water levels and respective times after cessation of pumping, and reference point used for all measurements.

In order to demonstrate the capacity of the well to provide adequate water a Required Volume is pumped during the test. The Required Volume is calculated as follows:

The volume of water necessary to support the household's daily need shall be determined using the following equation: (number of bedrooms plus one bedroom) x (110 gallons per bedroom) x (a safety factor of 2) = number of gallons needed daily.

The storage capacity of the well shall be determined using the measured static water level and the depth and radius of the drillhole or casing.

3. The Required Volume shall be calculated by adding the volumes of water in (1) and (2) above.

Successful completion of the pumping test requires

2.

- a) that the well be pumped at a sustained rate of at least 0.5 gallons per minute
- b) that the Required Volume be pumped from the well within a period not to exceed 24-hours.
- c) that, within a twenty-four (24) hour period after the cessation of pumping, the water level in the well recovers to at least eighty-five (85) percent of the prepumped static water level.

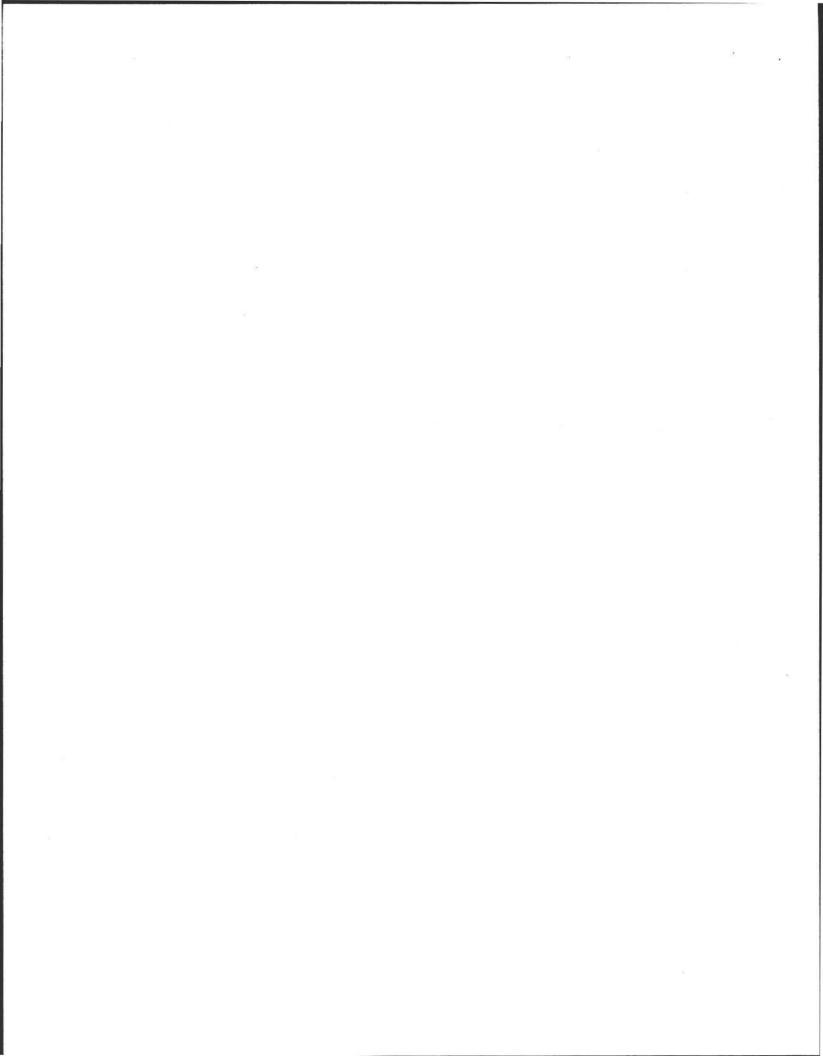
If the well fails to sustain a pumping rate of 0.5 gallons per minute, fails to yield the Required Volume within a 24 hour period, or if the water level in the well fails to recover to within 85 percent of the prepumped static water level within a 24 hour period, the well should be redeveloped, hydrofractured, and/ or deepened. After completing the chosen procedure(s), another pumping test should be conducted.

VIII. WATER QUALITY TESTING REQUIREMENTS

After the well has been completed and disinfected, and prior to using it as a drinking water supply, a water quality test shall be conducted.

A water sample shall be collected either after purging three well volumes or following the stabilization of the pH, temperature and specific conductance in the pumped well. The water sample to be tested shall be collected at the pump discharge or from a disinfected tap in the pump discharge line. In no event shall a water treatment device be installed prior to sampling.

5



The water quality test, utilizing an applicable US EPA approved method for drinking water testing shall be conducted by an EPA or Massachusetts certified laboratory and shall include analysis for the parameters listed in Appendix A. Samples taken from wells completed in crystalline bedrock should also be analyzed for radon, arsenic, and selenium. Additionally, in areas where current or historical land use includes agriculture, the sample should be analyzed for pesticides, herbicides, and arsenic. The results shall be compared to Massachusetts drinking water standards for public water supplies.

Following a receipt of the water quality test results, the applicant shall submit a Water Quality Report to the Board which includes:

- 1) a copy of the certified laboratory's test results
- 2) the name of the individual who performed the sampling
- 3) where in the system the water sample was obtained

Because water quality at a well can change over time the Board recommends that the well be retested at intervals not to exceed ten years. More frequent retesting should be conducted if the well is in an agricultural, commercial, industrial or high density residential area. Retesting should also be considered if any of these conditions occur: an extended drought, an extended wet (high water table) period, significant changes in local hydrologic conditions.

The Board reserves the right to require retesting of the above parameters, or testing for additional parameters when, in the opinion of the Board, it is necessary due to local conditions or for the protection of public health, safety, and welfare. All costs and laboratory arrangements for water testing are the responsibility of the applicant.

Retesting shall be conducted if the title to the property on which the well is placed is transferred. Exclusions from this requirement follow those described in 310 CMR 15.301 (Title V – for septic systems).

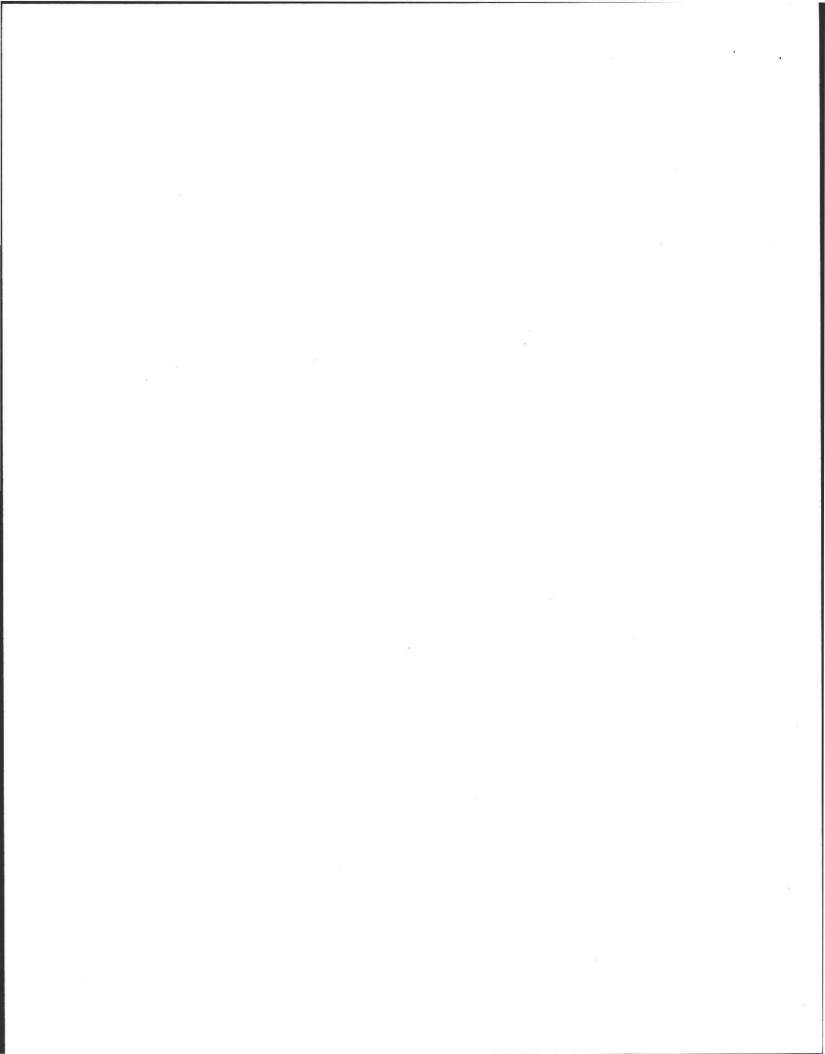
IX. WELL CONSTRUCTION REQUIREMENTS

No person shall construct a private well unless they are a Registered Well Driller as defined in these Regulations.

Any work involving the connection of the private well to the distribution system of the residence must conform to the local plumbing code. All electrical connections between the well and the pump controls and all piping between the well and the storage and/or pressure tank in the house must be made by a pump installer or registered well driller, including the installation of the pump and appurtenance in the well or house.

6

A physical connection is not permitted between a water supply which satisfies the requirements of these regulations and another water supply that does not meet the requirements of these regulations without prior approval of the Board.



All aspects of construction of a well, including well screen, well casing, wellhead completion, grouting and sealing, pumps, and disinfection shall be in accordance with the Massachusetts Department of Environmental Protection Private Well Guidelines.

In addition, the following requirements must be followed:

All private water supply wells shall be designed such that no unsealed opening will be left around the well that could conduct surface water or contaminated groundwater vertically to the intake portion of the well or transfer water from one formation to another.

Private water supply wells shall be constructed using either steel, thermoplastic or precast concrete pipe well casing. The casing shall be of adequate strength and durability to withstand anticipated formation and hydrostatic pressures, the forces imposed on it during installation, and the corrosive effects of the local hydrogeologic environment.

Private wells drilled in bedrock shall be grouted from the top of the weathered rock interface to fifteen (15) feet into competent bedrock.

All wells completed with the casing extending above grade shall have a surface seal designed to eliminate the possibility of surface water flowing down the annular space between the well casing and the surrounding backfilled materials.

All pumps shall be installed either below the frost line with a pitless adapter or in some other heated and protected sanitary location. Above ground pumps shall be installed in sheltered, dry, accessible locations and shall be protected from freezing.

X. <u>DECOMMISSIONING REQUIREMENTS</u>

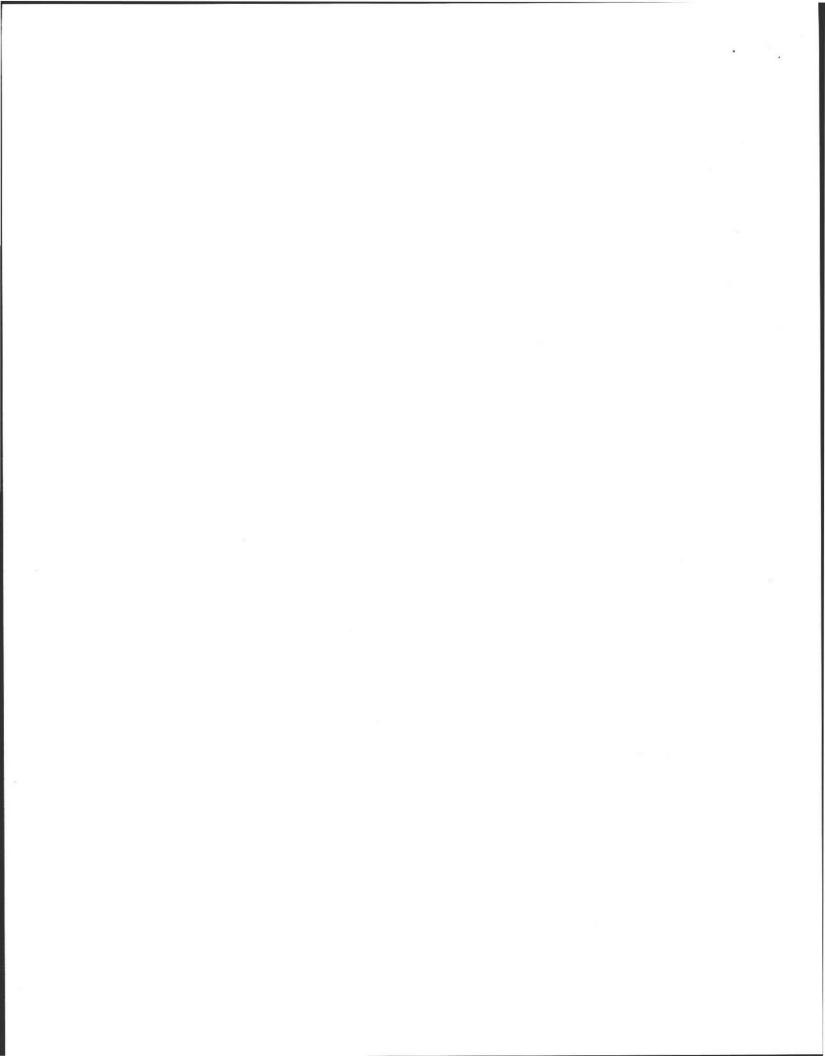
Abandoned wells, test holes, and borings shall be decommissioned to prevent the well and the annular space outside the casing from serving as a water conduit. The criteria for abandoning a well and the subsequent decommissioning procedures shall be in accordance with the Massachusetts Department of Environmental Protection Private Well Guidelines. Within 30 days of the decommissioning a copy of the Decommissioning Report, containing information described in the DEP Private Well Guidelines, shall be provided to the Board and filed at the Hampshire Registry of Deeds. A copy of a receipt for such filing shall be submitted to the Board.

XI. ENFORCEMENT

1. Permit or Certificate Suspension or Revocation

The Board of Health may suspend or revoke any Well Construction Permit, Water Supply Certificate, or variance issued pursuant to these regulations for any violation of these regulations, or any other applicable General Law, regulation or by-law, or if

7



the results of a well-test demonstrates that water from the well is no longer suitable for human consumption. Such revocation or suspension may take place after a hearing held by the Board of Health of which the permit holder is given seven (7) days written notice. Such notice shall be deemed given upon mailing same, certified mail, return receipt requested, to the address listed on the permit application.

Nothing in this section shall prevent the Town from taking emergency action to prevent an imminent risk to the health, safety or welfare of the public or the users of a private well.

2. Non-Criminal Disposition

This regulation may be enforced by any Town police officers or agents of the Town's Board of Health.

Whoever violates any provision of this regulation may be penalized by a non-criminal disposition process as provided in G.L. c.40, §21D and the Town's non-criminal disposition by-law. If non-criminal disposition is elected, then any person who violates any provision of this regulation shall be subject to a penalty in the amount of three hundred dollars (\$300.00) per day for each day of violation, commencing ten (10) days following day of receipt of written notice from the Board of Health. Each day or portion thereof shall constitute a separate offense. If more than one, each condition violated shall constitute a separate offense.

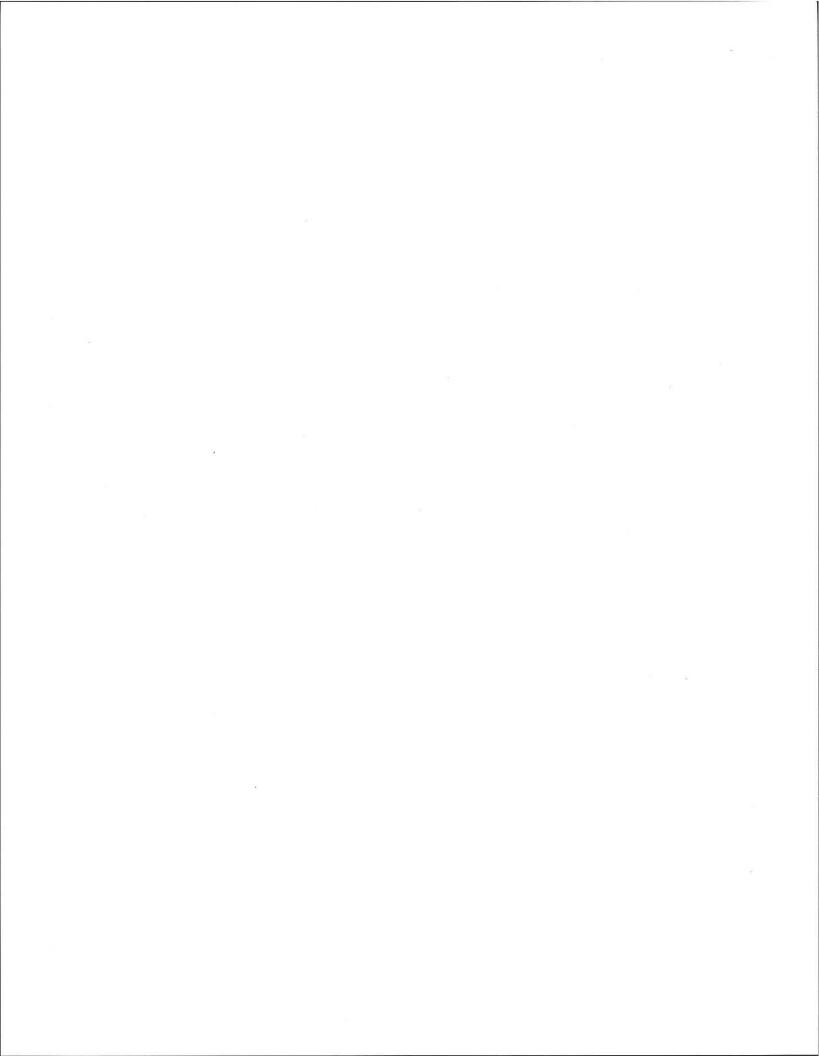
3. Other

Whoever violates any provision of this regulation may be penalized by indictment or on complaint brought in the district court. Except as may be otherwise provided by law and as the district court may see fit to impose, the maximum penalty for each violation or offense shall be one thousand dollars (\$1000.00). Each day or portion thereof shall constitute a separate offense. If more than one, each condition violated shall constitute a separate offense.

The Board of Health may enforce these Regulations or enjoin violations thereof through any lawful process, and the election of one remedy by the Board of Health shall not preclude enforcement through any other lawful means.

XII. VARIANCE

The Board may, after a public hearing, grant a variance to the application of these regulations when, in its opinion, the enforcement thereof would do manifest injustice, and the applicant has demonstrated that the equivalent degree of protection will still be provided to the private water supply without strict application to particular provisions of these regulations.



Every request for a variance shall be made in writing and shall state the specific variance sought and the reasons therefore. The writing shall contain all the information needed to assure the Board that, despite the issuance of a variance, the public health and environment will be protected. Notice of the hearing shall be given by the Board, at the applicant's expense, at least ten (10) days prior thereto, by certified mail to the owner of any property within one hundred and fifty (150) feet of the well to all abutters of the property upon which the private well is located and by publication in a newspaper of general circulation in the town or city in which the private well is located. The notice shall include a statement of the variance sought and the reasons therefore. Any grantor denial of a variance shall be in writing and shall contain a brief statement of the reasons for approving or denying the variance. A copy of each variance shall be conspicuously posted for thirty (30) days following its issuance and shall be available to the public at all reasonable hours in the office of the Town Clerk, Building Commissioner, or Office of the Board of Health. No work shall be done under any variance until thirty (30) days shall have elapsed from its issuance, unless the Board certifies in writing that an emergency exists.

Any variance may be subject to such qualification, revocation, suspension, condition, or expiration as is provided in these regulations or as the Board expresses in its grant of the variance. A variance may otherwise be revoked, modified or suspended, in whole or in part, only after the holder thereof has been notified in writing and has been given an opportunity to be heard, pursuant to Section XI of these regulations.

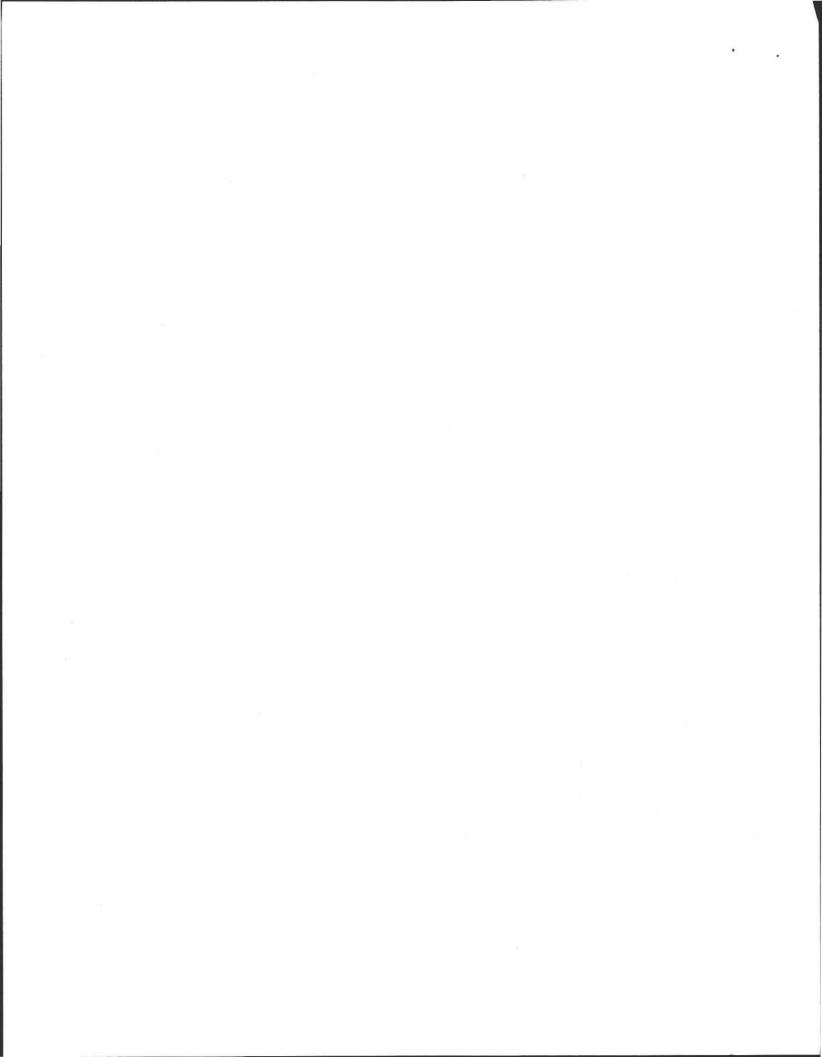
XIII. SEVERABILITY:

If any provision of these regulations or the application thereof is held to be invalid by a court of competent jurisdiction, the invalidity shall be limited to said provision(s) and the remainder of these regulations shall remain valid and effective. Any part of these regulations subsequently invalidated by a new state law or modification of an existing state law shall automatically be brought into conformity with the new or amended law and shall be deemed to be effective immediately, without recourse to a public hearing and the customary procedures for amendment or repeal of such regulation.

XIV. EFFECTIVE DATE

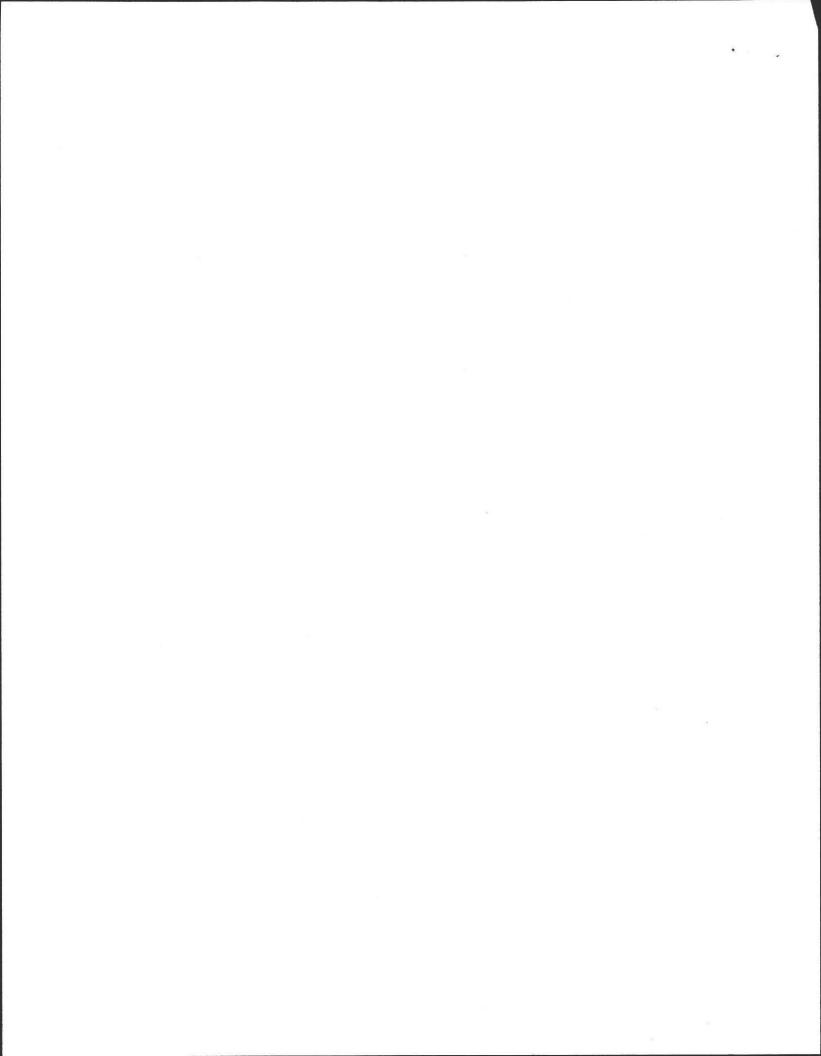
These regulations were adopted by vote of the Amherst Massachusetts Board of Health, at their regularly scheduled meeting held on October 30, 2008 and are to be in full force and effect on and after December 1, 2008. Before said date, these regulations shall be published and a copy thereof be placed on file in the Board of Health Offices and filed with the Department of Environmental Protection, Division of Wastewater Management (formerly Division of Water Pollution Control) in Boston. These regulations or any portions thereof may be amended, supplemented or repealed from time to time by the Board, with notice as provided by law, on its own motion or by petition.

9



XV. DISCLAIMER

The issuance of a well permit shall not be construed as a guarantee by the Board or its agents that the water system will function satisfactorily nor that the water supply will be of sufficient quality or quantity for its intended use.

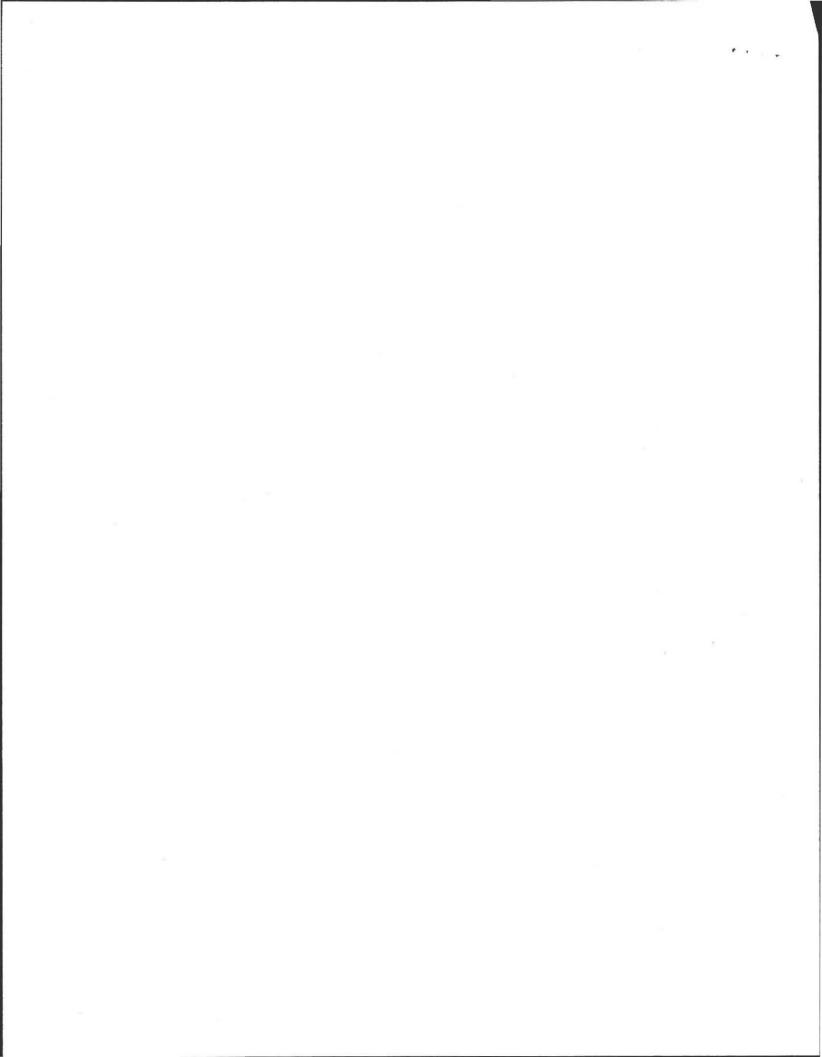


Appendix A: Required Analytes for Testing of Private Well Water Quality

Aluminum	
Chloride	
Coliform Bacteria	
Color	
Copper	
Fluoride	
Foaming Agents	*
Iron	
Manganese	
Nitrate	
Odor	-
pH	•
Silver	
Sodium	
Sulfate	
Total Dissolved Solids	T.
Turbidity	
Zinc	

Volatile Organic Compounds Benzene Carbon Tetrachloride Dichloromethane o-Dichlorobenzene p-Dichlorobenzene 1,2-Dichloroethane cis-1,2-Dichloroethylene trans-1,2-Dichloroethylene 1,1-Dichloroethylene 1,2-Dichloropropane Ethylbenzene Methyl Tertiary Butyl Ether(MTBE) Monochlorobenzene Styrene Tetrachlorothylene (PCE) Toluene Trichloroethylene (TCE) 1,1,1-Trichloroethane (1,1, 1-TCA) 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane Vinyl Chloride (VC) Xylenes(total)

11





WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

	eDEP Transaction #	-
	Amherst NOI10-	
	1180	
	City/Town	
42	d25m37.5s	
e. L	ongitude	

A. General Information (cont.)

Latitude and Longitude, if known:

Property recorded at the Registry of Deeds for (attach additional information if more than 6 one parcel):

d. Latitude

72d30m44.7s

Hampsh	nire				
a. County		b. Certificate Number (if re	b. Certificate Number (if registered land)		
145		105			
c. Book		d. Page			
Deter	December 21, 2009	January 27, 2010	January 29, 2010		
Dates:	a. Date Notice of Intent Filed	b. Date Public Hearing Closed	c. Date of Issuance		

Final Approved Plans and Other Documents (attach additional plan or document references 8 as needed):

Notice of Intent Plan Juggler Meadow Farms 260 Leverett Road Amherst. MA prepared for Michael Kittredge

Baystate Environmental Consultants, Inc.	a Signad and Stampad by	
b. Prepared By	c. Signed and Stamped by	
1/11/10	1"=40'	
d. Final Revision Date	e. Scale	
		December 2009
f. Additional Plan or Document Title		g. Date

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act:

Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act (the Act). Check all that apply: N/ Decention of

a.	\boxtimes	Public Water Supply	b.	\boxtimes	Land Containing Shellfish	C.	Prevention of Pollution	
d.	\boxtimes	Private Water Supply	е.	\boxtimes	Fisheries	f.	Protection of Wildlife	F
g.	\boxtimes	Groundwater Supply	h.	\boxtimes	Storm Damage Prevention	i.	Flood Control	

This Commission hereby finds the project, as proposed, is: (check one of the following boxes) 2.

Approved subject to:

a. X the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.

HEALTH DEPT

3/1/10 Received



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

A. General Information

Important: When filling	1. Fr	om:	Amherst Conservation Commission				
out forms on the computer, use only the		iis issua heck or	ance is for	a. ⊠Order of Con	ditions b. 🗌 Arr	ended Order	of Conditions
tab key to	3. To	: App	olicant:				
move your cursor - do	1	Barre			Tozloski		
not use the	2	a. First Na	ame		b. Last Name		
return key.	I	Pocomo	o Road Nominee Tru	st			3
	(c. Organiz	zation 🗢				5-
	:	312 Lev	verett Road				
	C	d. Mailing	Address				
return	1	Amhers	t		MA	÷1	01002
	6	e. City/To	wn		f. State		g. Zip Code
	4. Pr	operty (Owner (if different fro	om applicant):			
	2	a. First Na	ame		b. Last Name		ii
	0	c. Organiz	zation				
	Ċ	d. Mailing	Address				
		e. City/To	wn		f. State		g. Zip Code
	5. Pr	oject Lo	ocation:				
	2	260 Lev	verett Road		Amherst	(a) 1	
	6	a. Street /	Address		b. City/Town		
		3A			6&10		
	C	c. Assess	ors Map/Plat Number		d. Parcel/Lot Numb	ber	



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

B. Findings (cont.)

Re	sour	ce Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
9.	\boxtimes	Riverfront Area	944 a. total sq. feet	944 b. total sq. feet		
		Cathuithin 100 A	800	800		
		Sq ft within 100 ft	c. square feet	d. square feet	e. square feet	f. square feet
		Sq ft between 100-	144	144		
		200 ft	g. square feet	h. square feet	i. square feet	j. square feet
Co	asta	I Resource Area Impac	ts: Check all that	at apply below.	(For Approvals 0	Only)
10.		Designated Port Areas	Indicate size un	der Land Unde	r the Ocean, bel	w
11.		Land Under the Ocean	a. square feet	b. square feet		
			c. c/y dredged	d. c/y dredged		
12.		Barrier Beaches	Indicate size un below	der Coastal Be	aches and/or Co	astal Dunes
13.		Coastal Beaches	a. square feet	b. square feet	cu yd c. nourishment	cu yd d. nourishment
			a. square reet	D. Square leet		
14.		Coastal Dunes	a. square feet	b. square feet	cu yd c. nourishment	d. nourishment
15.		Coastal Banks	a. linear feet	b. linear feet		
16.		Rocky Intertidal				
		Shores	a. square feet	b. square feet		
17.		Salt Marshes	a. square feet	b. square feet	c. square feet	d. square feet
18.		Land Under Salt		bi equale feet	o. oquuro root	a. oquaro roor
		Ponds	a. square feet	b. square feet		
19.		Land Containing	c. c/y dredged	d. c/y dredged		
		Shellfish	a. square feet	b. square feet	c. square feet	d. square feet
20.		Fish Runs		or inland Land	nks, Inland Bank Under Waterboo	

21. Land Subject to Coastal Storm a.

a. c/y dredged b. c/y dredged a. square feet b. square feet



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

B. Findings (cont.)

Denied because:

b. If the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. A description of the performance standards which the proposed work cannot meet is attached to this Order.

c. I the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).

Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)

 Buffer Zone Impacts: Shortest distance between limit of project disturbance and Bank or Bordering Vegetated Wetland boundary (if available)

a. linear feet

		Proposed	Permitted	Proposed	Permitted
Re	source Area	Alteration	Alteration	Replacement	Replacement
4.	Bank	a. linear feet	b. linear feet	c. linear feet	d. linear feet
5.	Bordering	a. square feet	b. square feet	c. square feet	d. square feet
6.	Vegetated Wetland Land Under	a. square reet	b. square reet	c. square reet	u. square reet
	Waterbodies and Waterways	a. square feet	b. square feet	c. square feet	d. square feet
		e. c/y dredged	f. c/y dredged		
7.	Bordering Land Subject to Flooding	a. square feet	b. square feet	c. square feet	d. square feet
	Cubic Feet Flood Storage	e. cubic feet	f. cubic feet	g. cubic feet	h. cubic feet
8.	Isolated Land Subject to Flooding	a. square feet	b. square feet		
	Cubic Feet Flood Storage	c. cubic feet	d. cubic feet	e. cubic feet	f. cubic feet



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- 9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.
- A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

"Massachusetts Department of Environmental Protection" [or, "MassDEP"]

"File Number 89-0557

- Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.
- 12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
- 13. The work shall conform to the plans and special conditions referenced in this order.
- 14. Any change to the plans identified in Condition #12 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
- 15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
- This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
- 17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

Flowage

B. Findings (cont.)

22. Restoration/Enhancement:

a. number of new stream crossings

2,500

a. square feet of BVW

b. square feet of salt marsh

23. Stream Crossing(s):

b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

- 1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
- 2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
- 3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
- 4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. the work is a maintenance dredging project as provided for in the Act; or
 - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
- This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
- If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on January 29, 2013 unless extended in writing by the Department.
- Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
- This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i*.) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii*.) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.

d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.

e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.

f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

Commission.

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. The work associated with this Order (the "Project") is (1) ☐ is not (2) ⊠ subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:

a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.

b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that: *i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;

iii. any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;

iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition; *v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction #	
Amherst NOI10-	
1180	
City/Town	

D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Xes No

- 2. The Amherst hereby finds (check one that applies):
 - a. In that the proposed work cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw, specifically:

1. Municipal Ordinance or Bylaw

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued.

- b. A that the following additional conditions are necessary to comply with a municipal ordinance or bylaw:
 - Town of Amherst Wetlands Protection Bylaw
 - 1. Municipal Ordinance or Bylaw

2. Citation

2. Citation

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

The special conditions relating to municipal ordinance or bylaw are as follows (if you need more space for additional conditions, attach a text document): see attached



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

- g) The responsible party shall:
 - Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 - 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 - Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.

h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.

i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.

j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.

k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.

I) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):

see attached



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

G. Recording Information

This Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

Amherst

Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

Amherst Conservation Commission

Please be advised that the Order of Conditions for the Project at:

260 Leverett Road
Project Location

89-0557; Town File #NOI10-1180 MassDEP File Number

Has been recorded at the Registry of Deeds of:

Coun	ty	Book	Page	
for:	Property Owner			
and has	been noted in the chain of title	e of the affected property in:		

Book

Page

In accordance with the Order of Conditions issued on:

Date

If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:



WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

Please indicate the number of members who will sign this form. This Order must be signed by a majority of the Conservation Commission. 1. Date of Issuance

2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

gnatures.	Todo U Walk
Brianthen	Jak Sel
Hause B Moler	
	by certified mail, return receipt
by hand delivery on	requested, on
Date	Date

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request of Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in

Order of Conditions - Special Conditions

Issued to: Barre Tozloski. Pocomo Road Nominee Trust

For: construction of a barn & greenhouse

Date of Issuance: January 29, 2010

This Order of Conditions pertains to the construction of a barn and greenhouse in the riverfront resource area. Riverfront area enhancement has been proposed at a ratio of greater than 2:1 along the byw boundary in the vicinity of the greenhouse.

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1. Conditions #1-#20 on pages 1& 2 of this form shall be followed in their entirety.

2. Before any site work begins, the applicant shall record the Order of Conditions at the Hampshire County Registry of Deeds within the chain of title for this property and submit proof of recording to the Commission.

3. No activity may proceed until the applicant has received all other permits required by law, including but not limited to any permit required by Health Inspections, Planning Board, Zoning Board of Appeals, Department of Environmental Protection, and/or the Army Corps of Engineers.

4. Before any work begins on the site, a performance deposit of (NA) shall be submitted to the Commission. The deposit will be returned with any accumulated interest upon completion of the project to the satisfaction of the Commission, together with the issuance of a Certificate of Compliance.

5. Before any site work begins, a site meeting scheduled by the applicant shall be held to review the Order of Conditions. Representatives of the applicant, the Commission, and the contractor in charge of site work shall be present.

6. The Wetlands Administrator shall receive forty-eight (48) hours advance notice, before the commencement of any activity within, or within the 100 foot buffer zone of, the resource area(s), including site preparation and construction.

7. Work shall conform to plans and information submitted to the Commission in the Notice of Intent, and to these special conditions:

a. No further alteration shall be allowed within the restoration/mitigation area(s) except as may be required to maintain the area in its restored/mitigated condition.

b. Condition 7a. above shall serve as a permanent condition and shall be recorded as an ongoing condition in the Certificate of Compliance.

c. Turtle exclusion fencing shall be placed around the perimeter of the entire construction zone. At the beginning of each work day, a qualified environmental scientist or biologist shall inspect for and remove any turtles that have entered the construction site to an appropriate location outside the work zone.



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 5 – Order of Conditions Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: 89-0557 MassDEP File #

eDEP Transaction # Amherst NOI10-1180 City/Town

Document Number

Signature of Applicant

18. The Commission reserves the right to amend this Order of Conditions if changed conditions or new information so warrants.

19. Representatives of the Commission shall have the right to inspect the premises to ensure compliance with the Conditions and the Performance Standards applying to this Order and with the Massachusetts Wetland Protection Act and the Town of Amherst Wetlands Protection By-Law.

20. This Order shall apply to every successor in interest of the property described in the Notice of Intent and accompanying plans. In the event that this land changes ownership before or during construction, the current owner shall notify the new owner of this Order by registered mail prior to the transfer of ownership and shall forward proof of this notification to the Commission.

d. Weekly "turtle sweep" reports shall be submitted to the Commission during the construction period.

e. Before a Certificate of Compliance is issued, an "as built" plan shall be submitted to the Commission.

8. Work shall proceed in strict accordance to referenced plan(s) in the Permit, and to information submitted in the Application. For any change in the approved plans, the applicant shall inquire of the Commission in writing whether the change is substantial enough to require an Amended Order of Conditions or the filing of a new Notice of Intent.

9. Before any work begins, erosion control shall be installed along the limit-of-work line. The Commission shall approve the actual location in the field. Extra materials shall be kept onsite for use as needed. Such controls shall remain in place and be maintained until all disturbed areas have been stabilized to the satisfaction of the Commission.

10. No grading, operation of machinery, storage of materials, stockpiling of fill or brush or other work shall occur on the wetland side of the erosion control. The area between this line and the wetland edge shall be kept as a permanent vegetated buffer for the purpose of minimizing any potential negative wetland impacts.

11. No fill or topsoil shall be stored within 20 feet of the silt fence.

12. All disturbed areas in the Buffer Zone shall be loamed, seeded, mulched and stabilized within 48 hours of project completion.

13. A copy of the Permit shall be kept on-site at all times during construction. All contractors and sub-contractors engaged during construction shall be provided with a copy of the Permit, and should be prepared to produce said Permit upon request of the Commission or its agent.

14. All structures, facilities, and equipment as part of the project shall be continually operated and maintained so as to comply with the Permit. This provision applies specifically to all heavy equipment used on the project. Any leakage of oil, hydraulic fluid, gasoline, or any other pollutant must be cleaned up immediately, and the defective equipment responsible for said leaking shall be repaired immediately or taken off-site.

15. All work shall be completed in such a manner as to prevent eutrophication or sedimentation in wetlands, water bodies, or public or private water supplies.

16. Any substantial changes made or intended to be made in the plans shall require the applicant to file a new Notice of Intent or to inquire of the Commission, in writing or by certified mail, whether the change is so substantial as to require the filing of a new Notice.

17. A Certificate of Compliance shall be requested from the Commission upon completion of the proposed work. Said request shall be accompanied by a written statement from the professional who prepared the plan certifying compliance with all plans, as well as an "as built" plan.

Plan:	09-13 Designed by: Alan Weicz
	CHECK LIST FOR SEPTIC PLANS
•	Application page attached to plan
× *	PE or RS stamp, date, signature
-	Yariances to property line setback distances must have Surveyor Stamp 15970 (3)
	Legal boundaries noted
	Easements noted (Uriciti)
	Dwellings and buildings existing or proposed noted
	Location of driveway or parking areas, other impervious areas
· · · ·	Location and dimensions of reserve area (new) CMR 15.248(1), 15.104(4)
e 1 a.	System design calculations
11 I - 1	Garbage grinder Y on
S	Benchmark not disturbed during construction, within 75 feet of facility CMR15.220 (4)(q)
1 Berlin	North arrow CMR 15.200 (4) (g)
	Contours
	Deep hole location and data
H.	Perc hole location and data
	Elevations
	Names of approving authority and soil evaluator CMR 15.211 p. 49
14 . A . A .	Location of every water supply, public and private CMR 15.220(k):
읽는 전문	Within 400 feet of system in case of surface water and gravel packed public water supply
1.2	Within 250 feet of system in case of tubular public water supply
	Within 150 feet of private supply wells 100' septic size. So Fank
	Well statement if applicable NIA
	Location of any surface waters, rivers, vegetated wetlands
$\left(\begin{array}{c} 1 \\ 2 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \\ 2 \end{array} \right) \left(\left(\begin{array}{c} 1 \end{array} \right) \left(\left(\begin{array}{c} 1 \end{array} \right) \left(\left(\begin{array}{c} 1 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \end{array} \right) \right) \left(\left(\begin{array}{c} 1 \end{array} \right) \left(\left(\begin{array}{c} 1 \end{array} \right) \left(\left(\left(\begin{array}{c} 1 \end{array} \right) \right) \left(\left(\left(\begin{array}{c} 1 \end{array} \right) \left(\left(\left(\left(\begin{array}{c} 1 \end{array} \right) \right) \right) \left($	Location of water lines and other subsurface utilities MIA
	\bigcirc Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n)
و بالمبدعة	Profile of system
	Locus plan to show location of facility, including nearest street
1.1.1	Materials of construction and specs for system
1 2. a. e	Gas Baffle 15227.4
int in the	Pipe in center line of tank 310 CMR 15.227, 15.06(8)
1.1.14	Double washed stone
	Schedule 40 PVC for trafficked areas, house to tank
	Distances noted from house to tank, etc. /PA
	If dosing is proposed, design and specs of dosing system
1.21	When alternative technology is required, complete plan and specs, including hydraulic profile N/A
14,1774	Trenches preferred over beds CMR 15.240 (6)
1 49 gr 1 - 1 1 T	Buoyancy calculations for tanks or components partly below H20 table 15.221(8) p. 56
24 B	3 to 1 slope outside of mound, toe ending 5 feet from property line
1. 1. 1. 1. A	\mathcal{N} Local upgrade requests on the plan \mathcal{N}/\mathcal{A}
1. 1.	Local upgrade forms attached to application NIA
· · · · · ·	Note on plan listing all variances sought in conjunction with the plan NONE
NOTE	
NOTE	
1	이 생활 사람들에서 가장 전 것 같아요. 이 가지 않는 것 같아요.

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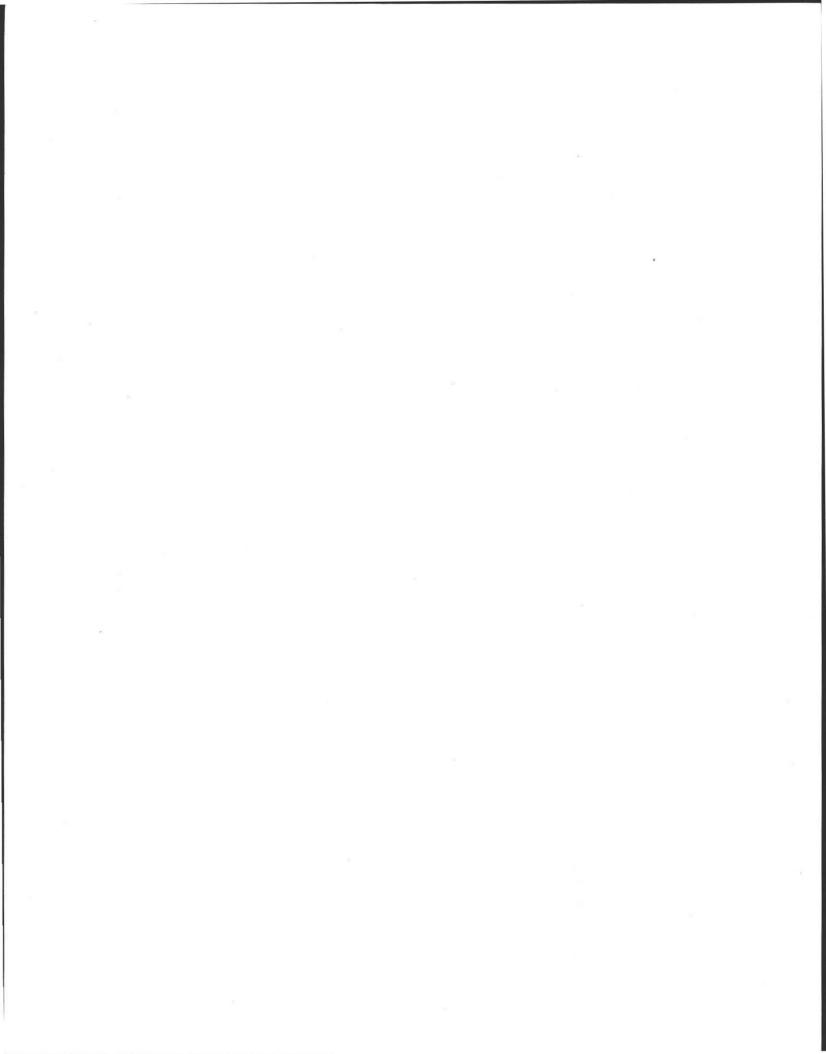
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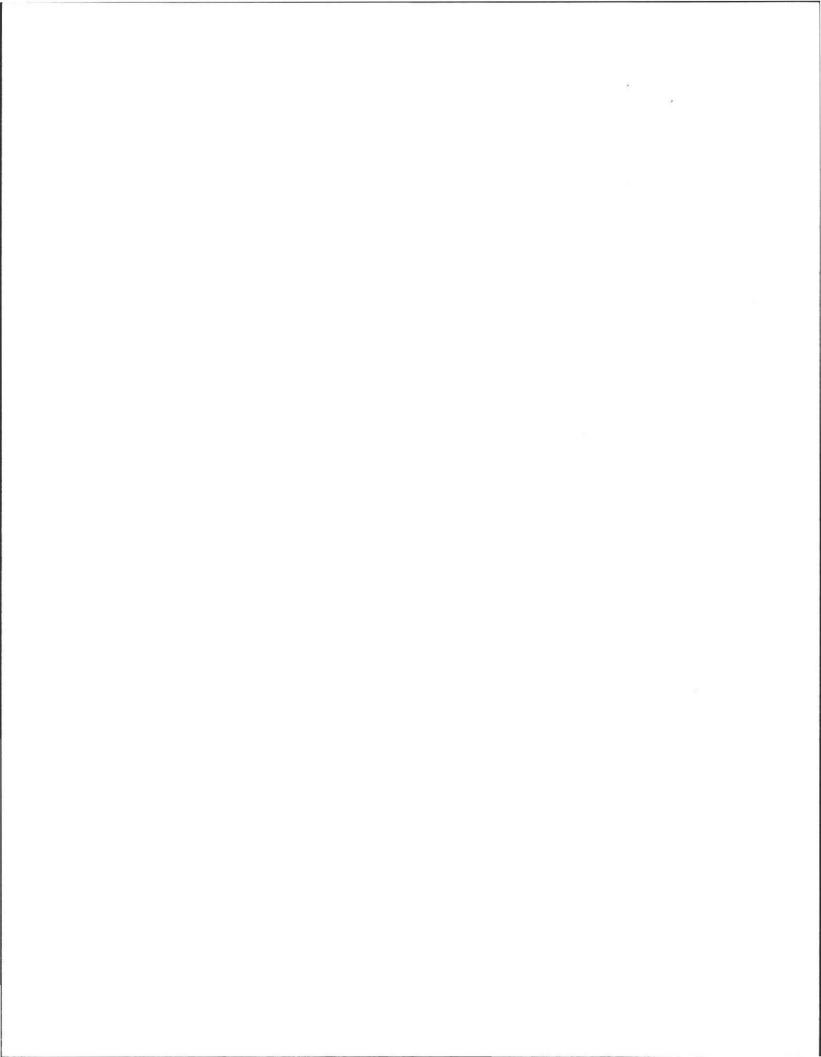
No	
COMMONWEALTH OF MASSACHUSETTS	
Board of Health, Amberst. , MA.	
APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT	
Application for a Permit to Construct (Repair() Upgrade() Abandon() - Complete System Individual Components	
Location 260 Lewrett D.D. (Rew)	Owner's Name Parroffw Co. M. Kittnidge.
Map/Parcel# 3+ -10	Address 312 Leworth RD.
	Telephone# 548-9802
Installer's Name DMO CONST/R, MIStrika	, , , , , , , , , , , , , , , , , , , ,
Telephone#	Address Belchedaw, nut- Telephone# 323-5957
Type of Building Mart. Duldy, Lot Size 12 /- Ac sq. ft.	
Dwelling - No. of Bedrooms	
Other - Type of Building 15 GAL / Person J No. of persons IB Showers (), Cafeteria ()	
Other Fixtures Design flow (min. required) gpd Calculated design flow Design flow provided gpd	
Plan: Date Number of sheets Revision Date	
Title Septic Play For Maintenaure Garage.	
Description of Soil(s) <u>C(455 1; (L5)</u> Soil Evaluator Form No Name of Soil Evaluator <u>A. WESS</u> Date of Evaluation <u>12-15-09</u>	
La Casta order	
DESCRIPTION OF REPAIRS OR ALTERATIONS	
The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health. Signed Date _/ 2 2 0 4	
No COMMONWEALTH OF MASSACHUSETTS	
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 (), Upgraded (), Abandoned ()	
by:at	
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, dated Approved Design Flow(gpd)	
Installer	Contemporte Date:
The issuance of this permit shall not be construed as a guarantee that the system will function as designed.	
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No COMMONWEALTH (DF MASSACHUSETTS
Board of Health,, MA.	
DISPOSAL SYSTEM CONSTRUCTION PERMIT	
Permission is hereby granted to; Construct() Repair(Upgrade() Abandon() an individual sewage disposal system	
at 360 R Leverent IRD as described in the application for	
Disposal System Construction Permit No, dated	
Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.	
Form 1255 Rev. 5/96 A.M. Sulkin Co. Charlestown, MA Date Board of Health	

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ALAN E. WRISS, M.S., LS.R. FORM 11 - SOIL EVALUATOR FORM Page 1 of 3 ALAN E. WRISS, M.S., LS.R. Page 1 of 3 Registered statistics "Alabama Registered statistics Precision "Alabama Registered statistics Sto Old Ended Ra "Alabama Registered statistics Precision "Alabama Registered statistics Sto Old Ended Ra "Alabama Registered statistics Precision "Alabama Registered statistics Sto Old Ended Ra "Alabama Registered statistics Performed By: A. Weise Commonwealth of Massachusetts Soill Suitability Assessment for On-site Sewage Disposal Performed By: A. Weise Date: 12 - 15 - 07 Witnessed By: C Constructor Date: 50 - 150	G	COLD SPRING ENVIRONMENTAL CONSULTANTS, INC.	
Notice of the second secon		ALAN E. WEISS, M.S., L.S.P. Licensed Site Professional Registered Sanitariae	FORM 11 - SOIL EVALUATOR FORM Page 1 of 3
Authorst , Massachusetts Soil Suitability Assessment for On-site Sewage Disposal Performed By: A. Weise Date: 12-19-09 Witnessed By: C. Contractor Date: 12-19-09 Weise Yes Year Published Publication Scale Geologic Material (Map Unit) Date: 10-09 Landform Diserve Map: Hood Insurance Rate Map: Dise	Deichertown	Hydrogcologist Subsurface Investigations President *Subsurface Investigations *Id Rd. *21E Site Investigations MA 01007 *Pollution Remediation *7 & 323-4916 (FAX) Septic Designs	
Performed By: A. Weise Witnessed By: C Continued a. Date: 12-19-09 Date: 12		Hacherst M	assachusetts
Image:		Performed By: A. Weiss	•
Office Review Prive by Shed Published Soil Survey Available: No Yes Year Published Publication Scale Soil Map Unit Drainage Class Soil Limitations Surficial Geologic Report Available: No Yes Year Published Publication Scale Soil Map Unit 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 Wes 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		tar # 260 Lowerth (France) Address, at Telephone	nd Tarating (0,
Published Soil Survey Available: No Yes Soil Map Unit Year Published Publication Scale Soil Map Unit Drainage Class Soil Limitations Surficial Geologic Report Available: No Yes 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 500 year flood boundary No Yes Within 100 year flood boundary No Yes Current Water Resource Conditions (USGS): Month Range : Above Normal Normal Below Normal			An horst, MA.
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 Within 100 year flood boundary No Yes Wetland Area: National Wetland Inventory Map (map unit) Wetlands Conservancy Program Map (map unit) Wetlands Conservancy Program Map (map unit) Current Water Resource Conditions (USGS): Month Range :Above Normal Normal Belcy Normal		Published Soil Survey Available: No Yes Year Published Publication Scale	Soil Man Univ
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		Son Emilations	Son Map Onn
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 Belgy Normal		Year Published Publication Scale Geologic Material (Map Unit) Landform	
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 Belgy Normal		Above 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			
Range : Above Normal INormal Belev Normal		Within 100 year flood boundary No Yes Wetland Area: National Wetland Inventory Map (map unit)	
		Range : Above Normal Normal Belevy Normal	`

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FORM 11 - SOIL EVALUATOR FORM Page 2 of 3

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Location Address or Lot No. 260 Leverent RD.

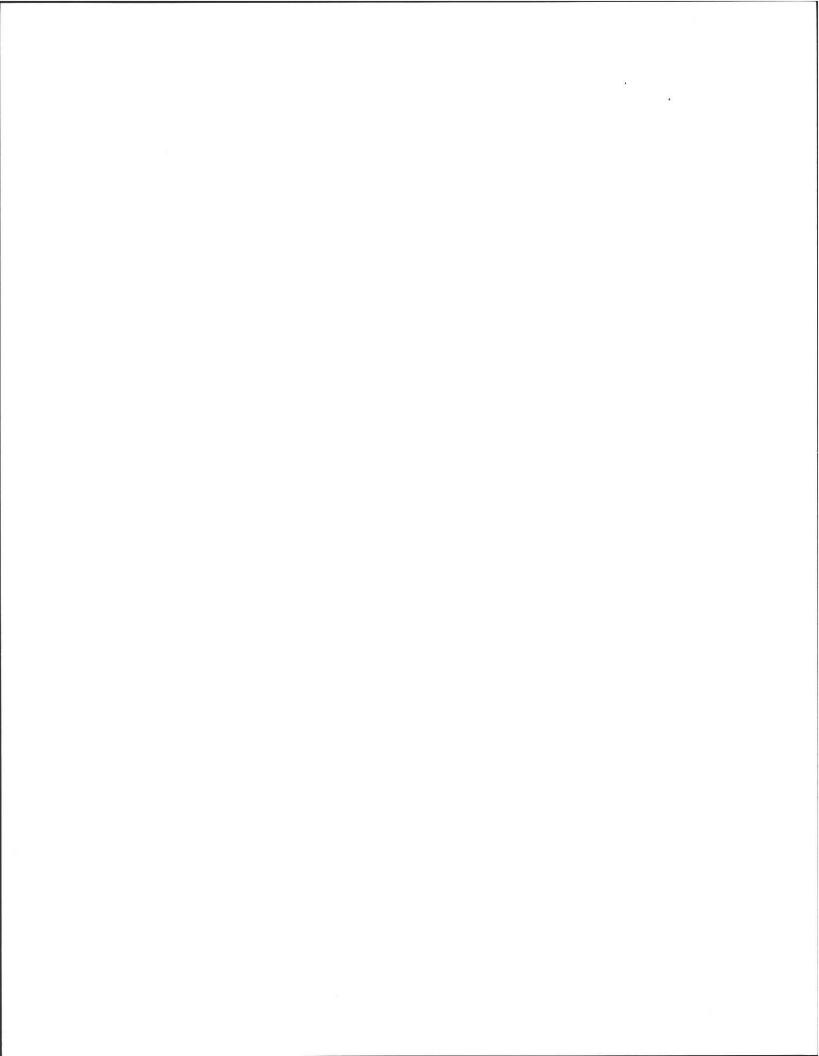
On-site Review

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Deep Hole Number 1 34 Date: 12-	15 09 Time:	Weather Gouds 40°F
	(%)_2Surface Stone	s May :
Landform Transced.	A	
Position on landscape (sketch on the back)	
Distances from:		
Open Water Body <u>50 1</u> feet	Drainage way	feet
Possible Wet Area 50 4 feet	Property Line 254 f	eet
Drinking Water Well feet	Other	

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munseil)	Soil Mottiing	Other (Structure, Stones, Boulders, Consistency Gravel)
0-6" "6"-12" 12" -> 108"	Α. Bw C,	FSC SL LS	104R313 7.542416, 2542416	36" 1047-615	- Frichle, - Frichle Loose F.M. Safg grave ily Abbution till
6 -13" 13"-80"	A B ² C.	FSL SL LS	1048313 71548460 71548460 7154846	36" 10426/8	-Frieble: -Frieble: Loose F.M. Saudy grade ! Holation
0-8" 8"-16" 16"-78"	A BU C	fsc sc Ls	1048313 7:59466 7:5946	36"	Sert
0 -91 9 - 12" 12 -59"	A Bio Ci	FSL SL LS	10412313 7-541246 7-54146	32''	Sac
* MINIMU Parent Material (geo Depth to Groundwate		m Hl			AREA theoBedrock: 57 - 108 " Weeping from Pit Face: 70 "
Estimated Seasonal I	High Ground Wat	er: 3	56 ^{ti}		\





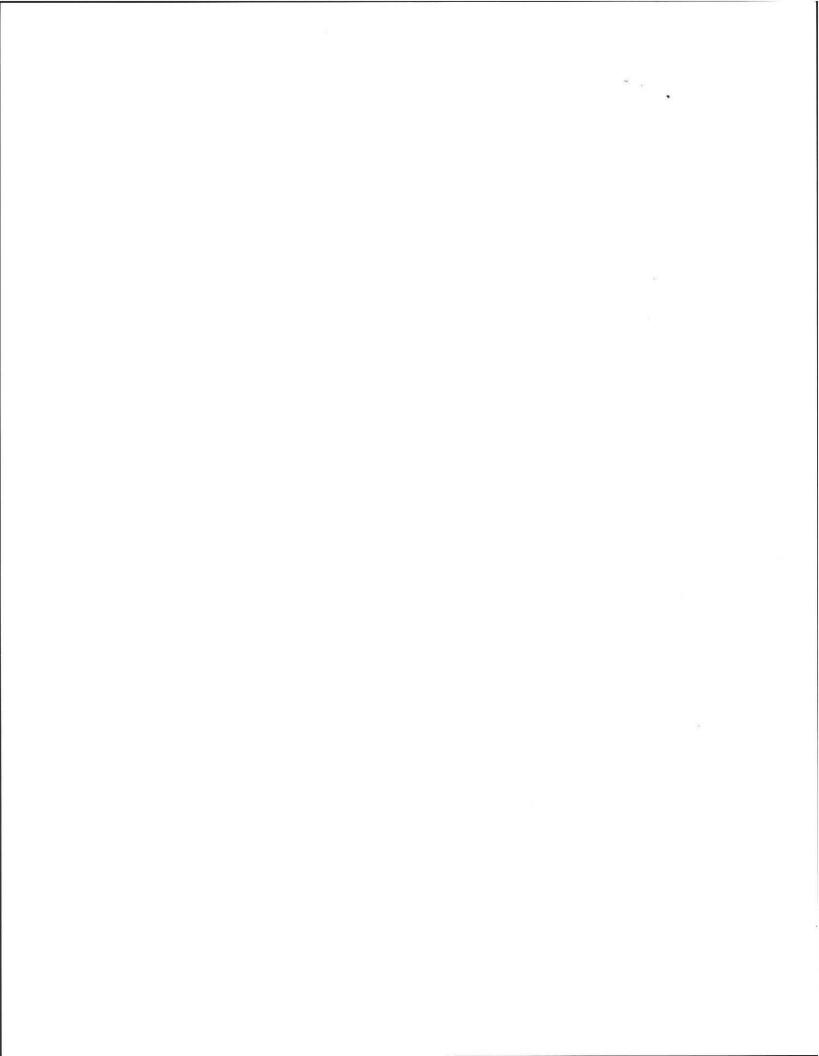
FORM 12 - PERCOLATION TEST

Location Address or Lot No. zwo heuter PD.

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COMMONWEALTH OF MASSACHUSETTS Amherst, Massachusetts

	Percolation Te	st*	
	-15-09	Time: 10'ee	
Observation Hole #	P.	11me:, 10:00	
Depth of Perc		P ₂	
Start Pre-soak	44	4Z"	
End Pre-soak	10:25	iu : 3 0	
Time at 12"	10:40	10:45	
Time at 9"	10:40	10:45	
Time at 6"	10:50	1055	
Time (9"-6")	11:05	11:22 5	
Rate Min./Inch	15 MIN	27	
	5 mil	10 MIN	
* Minimum of 1 per	colation test must be	I IN IN	
	a condist de pe	erformed in both the primary area	AN
te Passed 🗵 Site Fa	iled		
rformed By: A. Weigs			********
itnessed By: L. Contract	she .		
mments:			



Location Address or Lot No. 260 leveret 10.

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 36 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? 4*S If not, what is the depth of naturally occurring pervious material? _

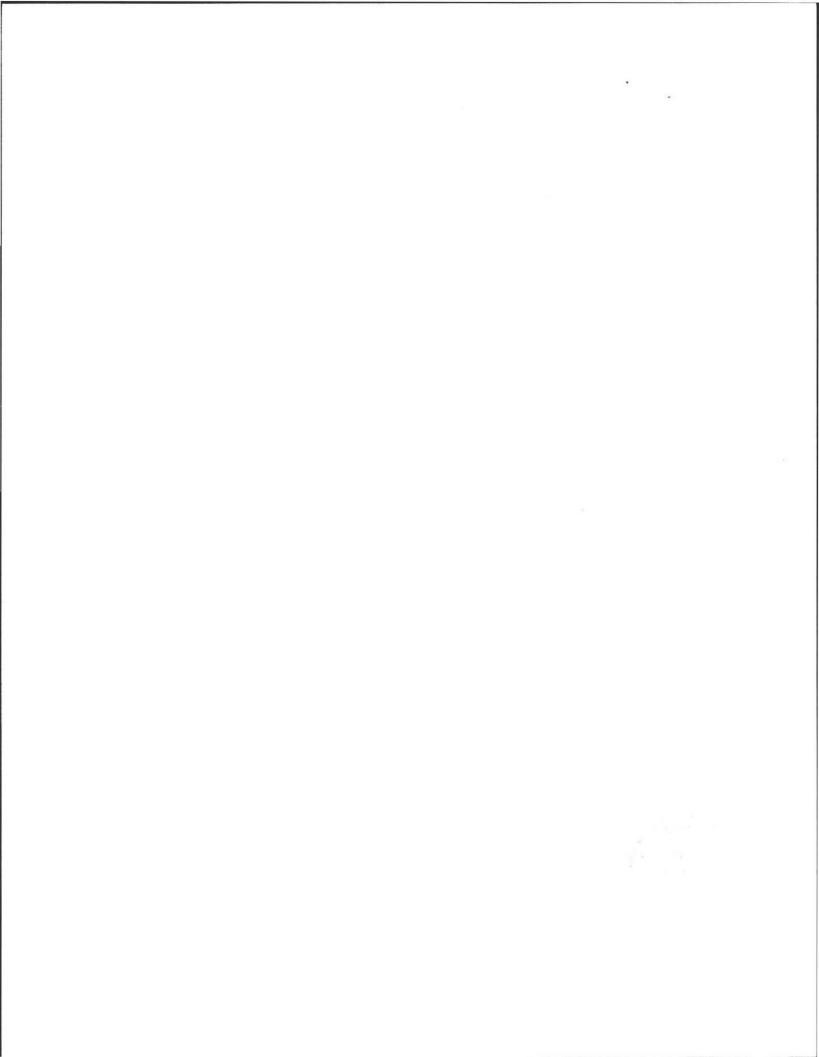
Certification

I certify that on 6% (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 _____ Date _____ 72-15-69







FORM 12 - PERCOLATION TEST Parafine 312 Levevett Ro

Location Address or Lot No. 260 R- Leverett.

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COMMONWEALTH OF MASSACHUSETTS

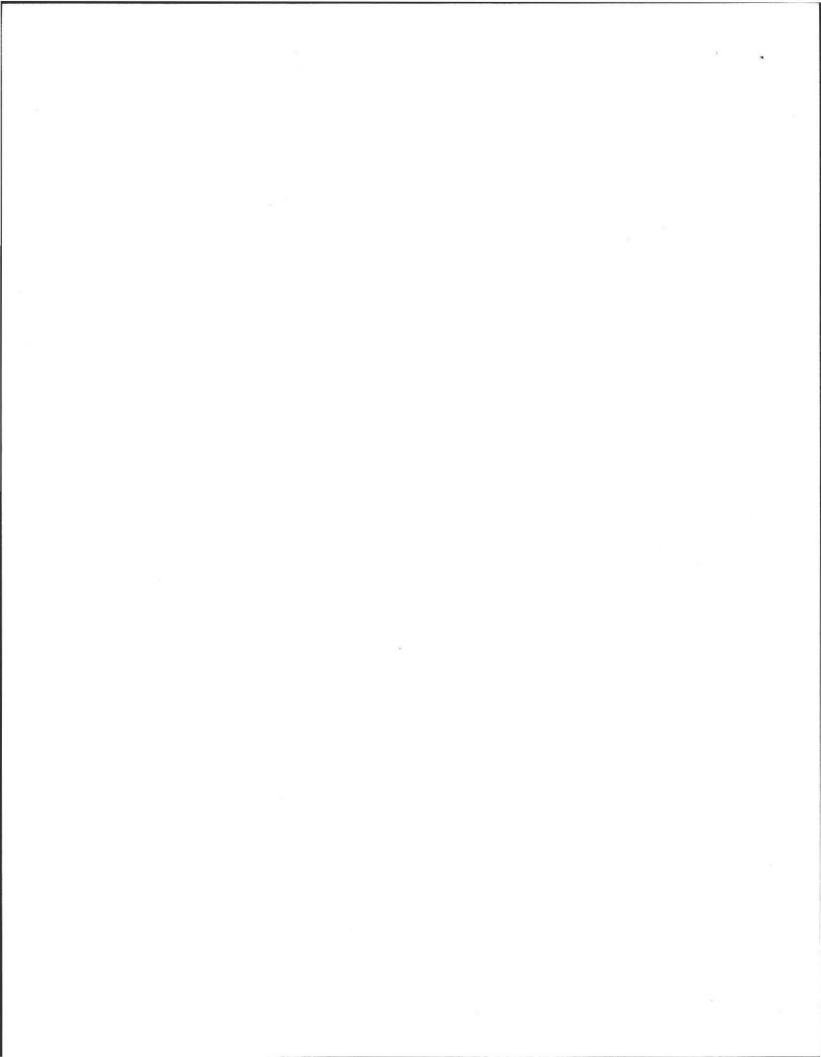
, Massachusetts

	Percolation Test*	
Date: 12	Time	8:
Observation Hole #	Pi	P2
Depth of Perc	42/"	42"
Start Pre-soak	10:15	10.30
End Pre-soak	10:40	10:45
Time at 12"	10.40	10:45
Time at 9"	10.50	1053
Time at 6"	11:05	1122
Time (9"-6")	. 15	27
Rate Min./Inch	5 min.	lomin .

* Minimum of 1 percolation test must be performed in both the primary area AND reserve area.

Site Passed	Site Failed	·			•
Performed By:	Alam Lysierz	2			
Witnessed By:	Aug Court	marche	-		
Comments:	MOUNT 5	YSEEM	TOBE	TUSTALLE Of.	





FORM 11 - SOIL EVALUATOR FORM Page 2 of 3

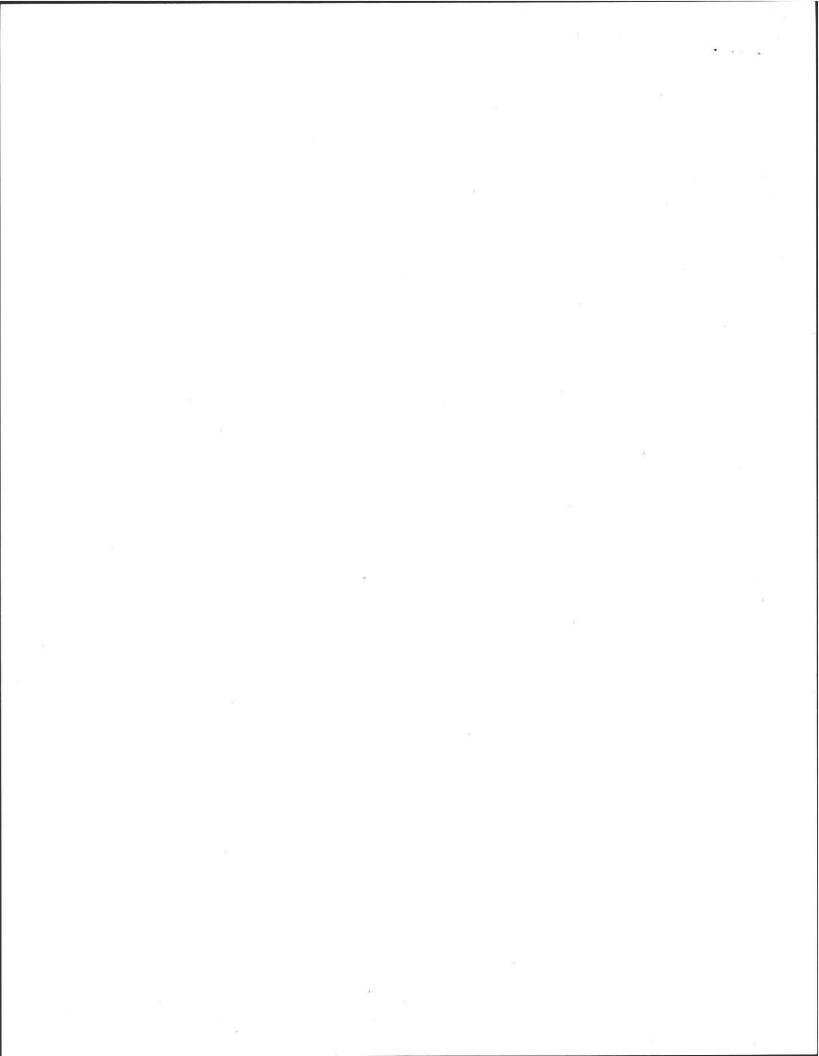
Location Address or Lot No.

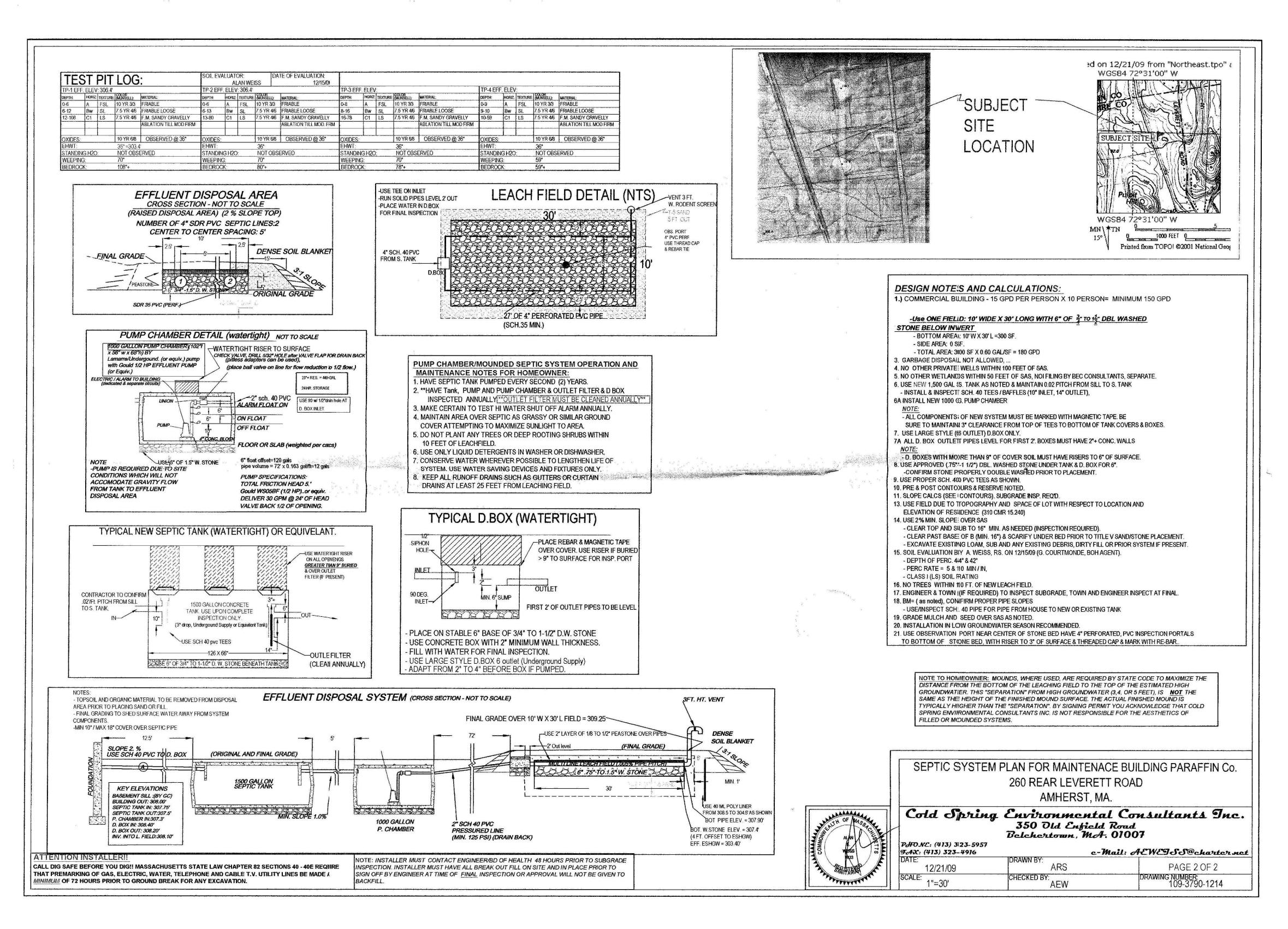
On-site Review

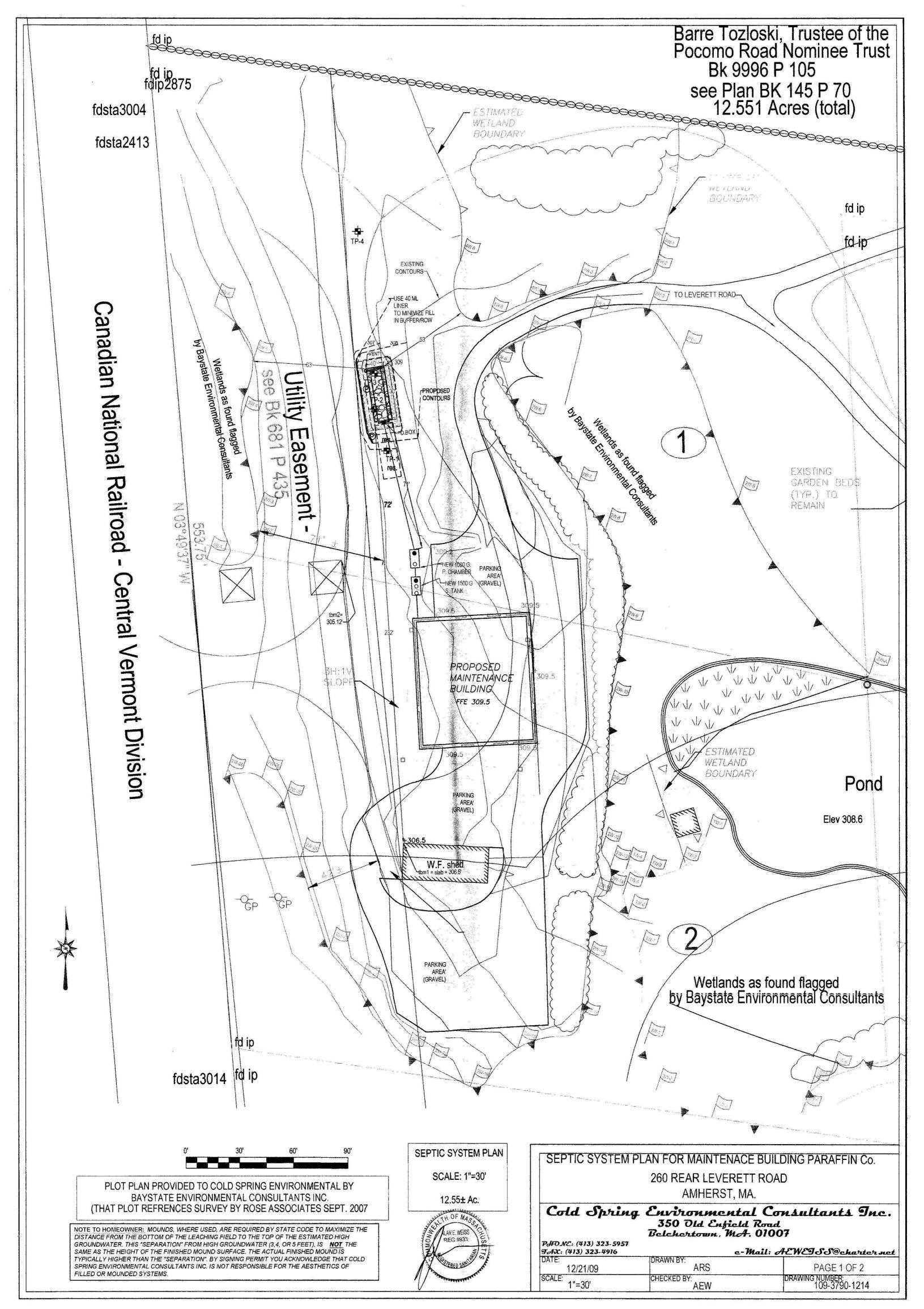
Deep Hole Number	Date:	Time:	Weather	······································
Location (identify on site plan)			· · · · · · · · · · · · · · · · · · ·
Land Use	Slope (%) Surface Ston	es	
Vegetation				
Landform				· · · · · · · · · · · · · · · · · · ·
Position on landscape (sketch	on the back)	····		······································
Distances from:				
Open Water Body	feet	Drainage way	feet	
Possible Wet Area	feet	Property Line	feet	
Drinking Water Well	feet	Other	~	

Depth from urface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munseil)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency Gravel)	, 9
		-				
*	2.53	17		De:		
		5				
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		-		ас.		
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* MINIMU	M OF 2 HOLES P	REQUIRED AT EV	ERY PROPOSE	D DISPOSAL	ABEA	=

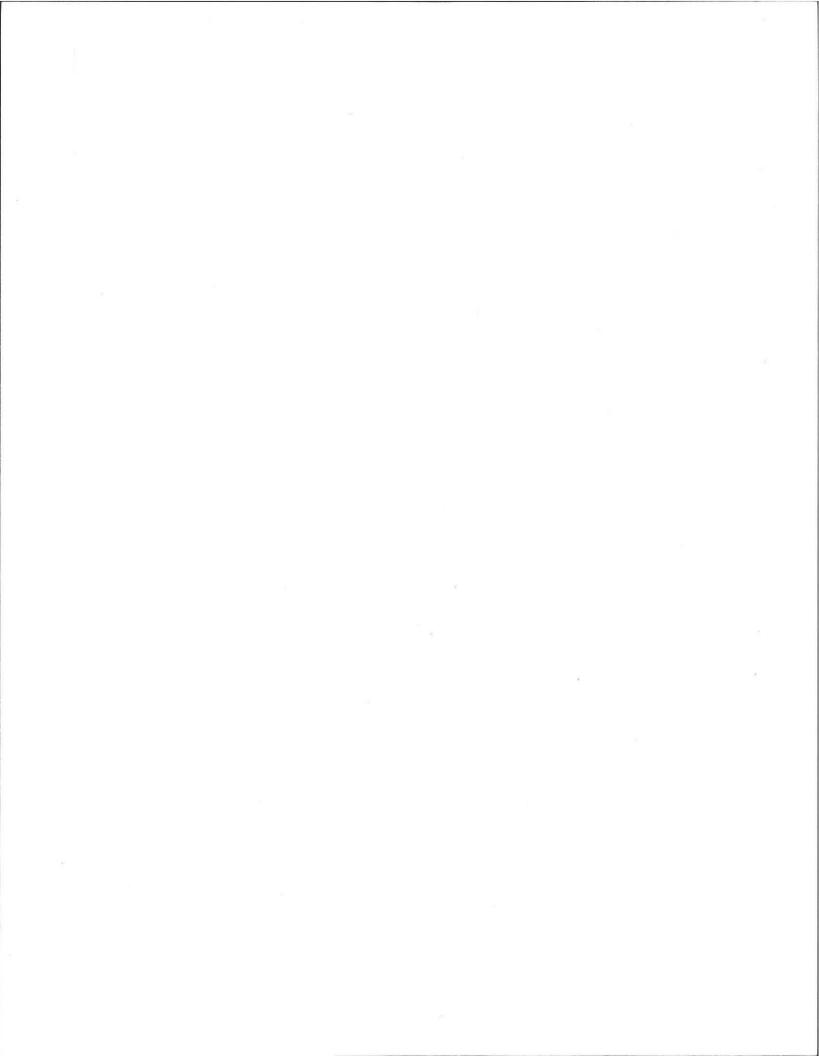








3A. 852 86 304 Leveren HIAN Wrecz Designed by: Plan: CHECK LIST FOR SEPTIC PLANS Application page attached to plan PE or RS stamp, date, signature Variances to property line setback distances must have Surveyor Stamp 15020 (3) Legal boundaries noted Easements noted NIH Dwellings and buildings existing or proposed noted Location of driveway or parking areas, other impervious areas Location and dimensions of reserve area (new) CMR 15.248(1), 15. 104 (4) System design calculations N/H Garbage grinder Y or N Benchmark not disturbed during construction, within 75 feet of facility CMR15.220 (4)(q) North arrow CMR 15.200 (4) (g) Contours Deep hole location and data (existing leach Perc hole location and data Elevations Names of approving authority and soil evaluator CMR 15.211 p. 49 1917 Location of every water supply, public and private CMR 15.220(k): Within 400 feet of system in case of surface water and gravel packed public water supply Within 250 feet of system in case of tubular public water supply Within 150 feet of private supply wells 100' septic sus. So Fank Well statement if applicable N/ANA Location of any surface waters, rivers, vegetated wetlands Location of water lines and other subsurface utilities Observed and adjusted ground water elevation in the vicinity of system 15.220 (4)(n)Profile of system Li Locus plan to show location of facility, including nearest street Materials of construction and specs for system Gas Baffle 15.227.4 Pipe in center line of tank 310 CMR 15.227, 15.06(8) Double washed stone Schedule 40 PVC for trafficked areas, house to tank Distances noted from house to tank, etc. If dosing is proposed, design and specs of dosing system NIH When alternative technology is required, complete plan and specs, including hydraulic profile N/PTrenches preferred over beds CMR 15.240 (6) N existing Buoyancy calculations for tanks or components partly below H20 table 15.221(8) p. 56 P/A3 to 1 slope outside of mound, toe ending 5 feet from property line Local upgrade requests on the plan ν/R Local upgrade forms attached to application -NTA Note on plan listing all variances sought in conjunction with the plan MANOTES:



COMMONWEALTH OF MASSACHUSETTS Board of Health, _____, MA.

LANE. WEIS REG #933

No

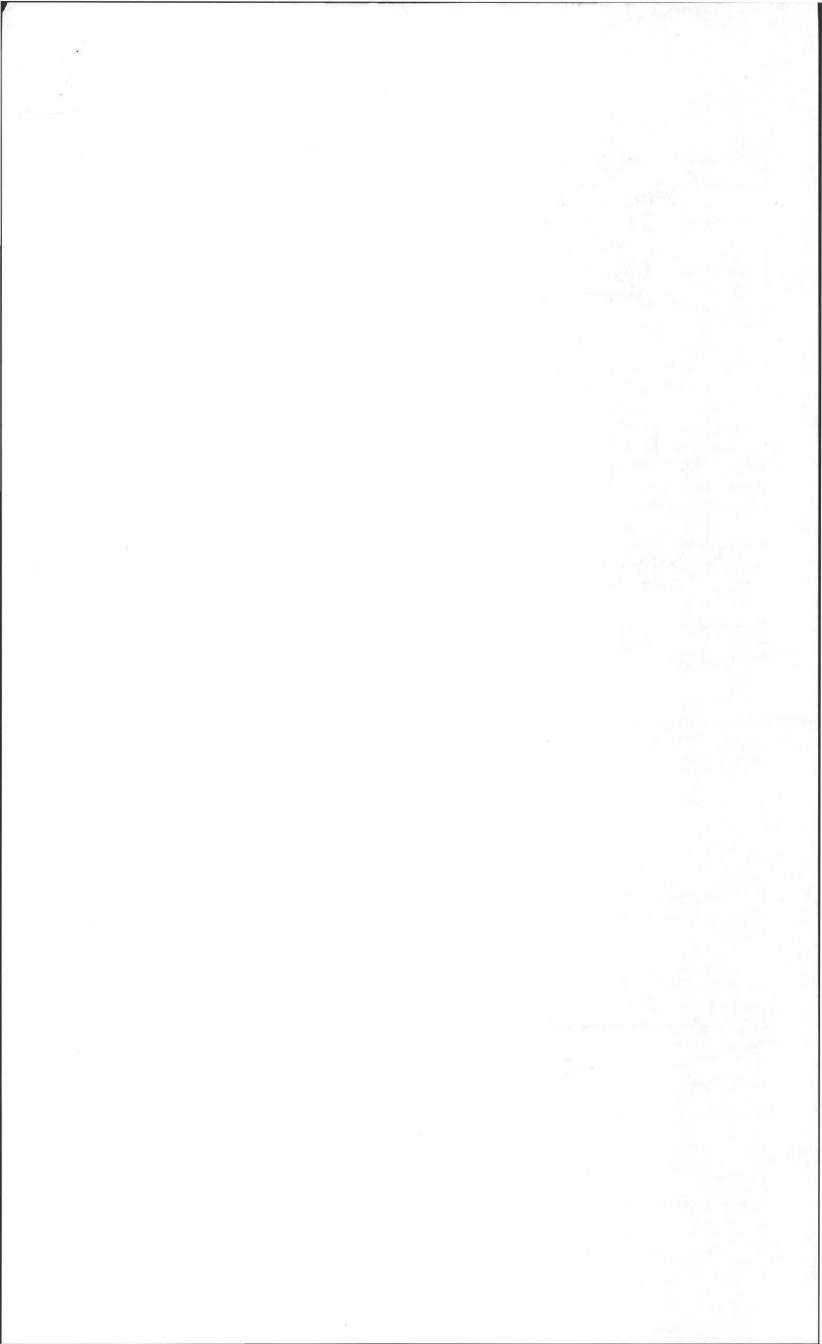
APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for a Permit to Construct () Repair () Upgrade () Abandon () - Complete System Individual Components

1	
Location 294-304 Leverett RD.	Owner's Name Parattin (U.
Map/Parcel# 3A 85+86.	Address 312 Leverett RD
Lot# 85 + 86	Telephone# 548-19807
Installer's Name DMG CONST	Designer's Name Ala Wei55
	Aller 2//
Telephone#	/ ticherious,
Type of Building Kest Storage B Dwelling - No. of Bedrooms (3)	Lot Size $1.5+1.5$ Ac $+1.5$ Garbage grinder ()
	No. of personsShowers (), Cafeteria ()
Other Fixtures	
Design Flow (min. required) 110 gpd Calculated	l design flow <u>330</u> Design flow provided <u>330</u> gpd
Plan: Date 72-16 M Number of sheets	v at 304 Leverett D W Ejectur Rup.
Title Existing JyStim Tied INT	2 at say Leverth I my I) ecter hup.
Description of Soil(s)	
Soil Evaluator Form No Name of Soil Evalu	uator Date of Evaluation
DESCRIPTION OF REPAIRS OR ALTERATIONS _ Charge	Cabis at 294 to storage space
	pup to SFH dwelly System
at #304 Lewrett MD. J	
Inspections	
Board of Health,	
by:	
at	
has been installed in accordance with the provisions of 310 CMR 1 application No. $\underline{09-13}$, dated $\underline{14/23/09}$. Approve Installer $000000000000000000000000000000000000$	15.00 (Title 5) and the approved design plans/as-built plans relating to ed Design Flow <u>330</u> (gpd)
Designer: A Inspector:	autemante Date: 12-16-06
The issuance of this permit shall not be construed as a guarantee th	
i de la compañía de l	en ang terreterne bener serie ang ang terreterne series ang g
No. <u>09-13</u>	FEE 150 The
COMMONWEALIH	OF MASSACHUSETTS
Board of Health, Am	heist, MA.
DISPOSAL SYSTEM C	CONSTRUCTION PERMIT
Permission is hereby granted to; Construct() Repair(4)	Upgrade() Abandon() an individual sewage disposal system as described in the application for
Disposal System Construction Permit No. <u>09-13</u> , date	
	ard of Health
Form 1255 Rev. 5/96 A.M. Sulkin Co. Charlestown, MA Date Date Boa	ard of Health And accept Majolie

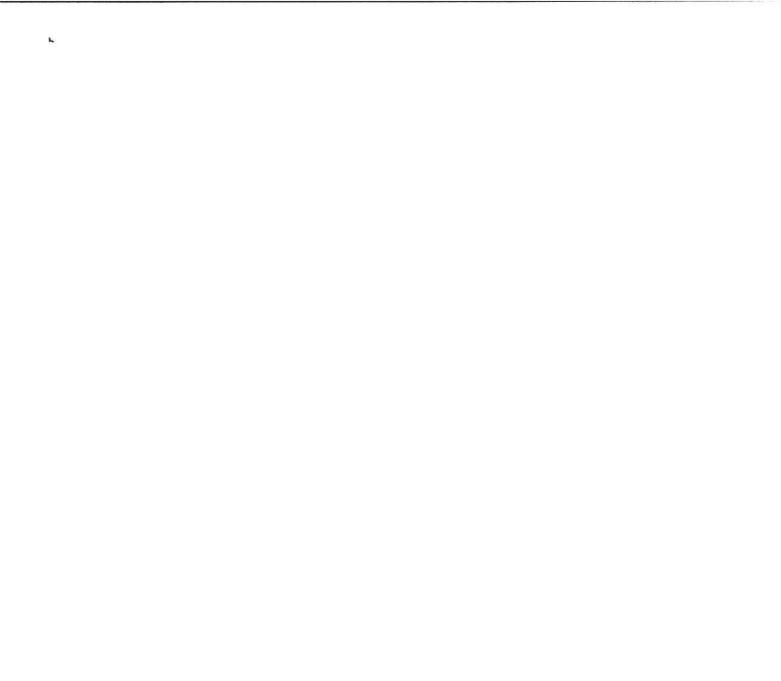
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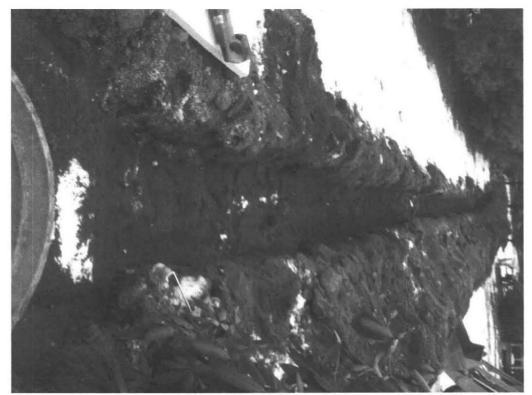
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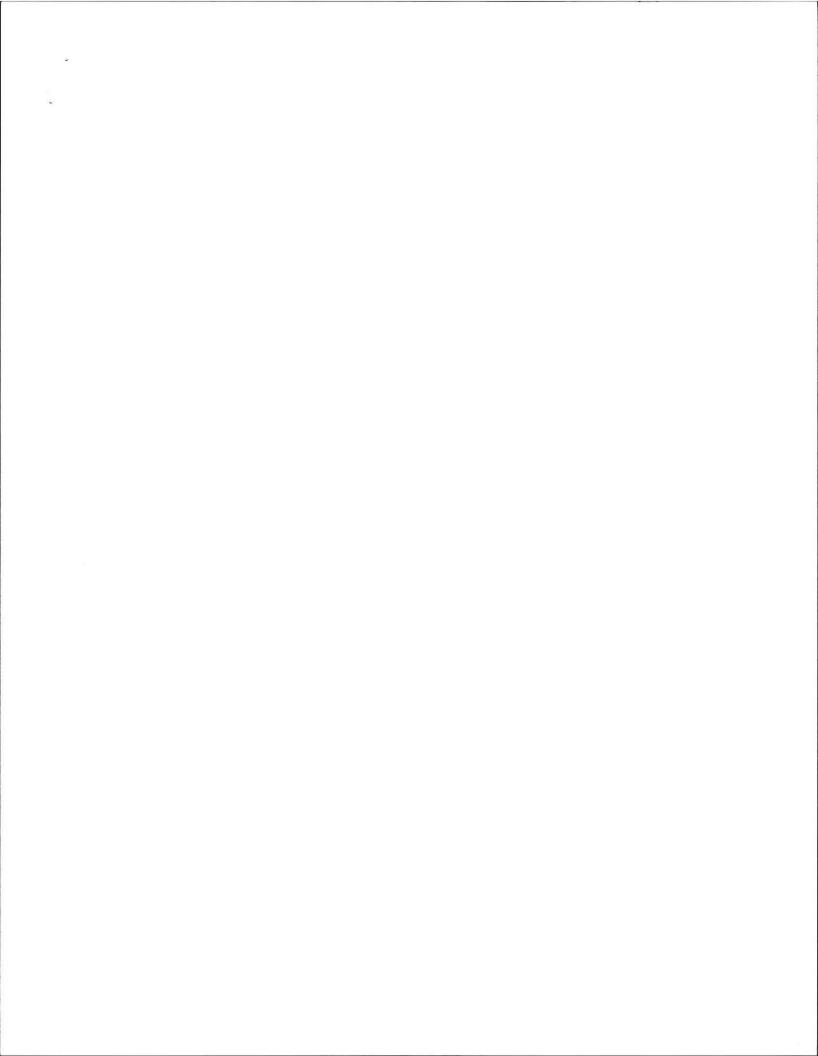


Ejector Pump (Little Giant) 294-304 Leverett Road Amherst, MA 12.16.2009



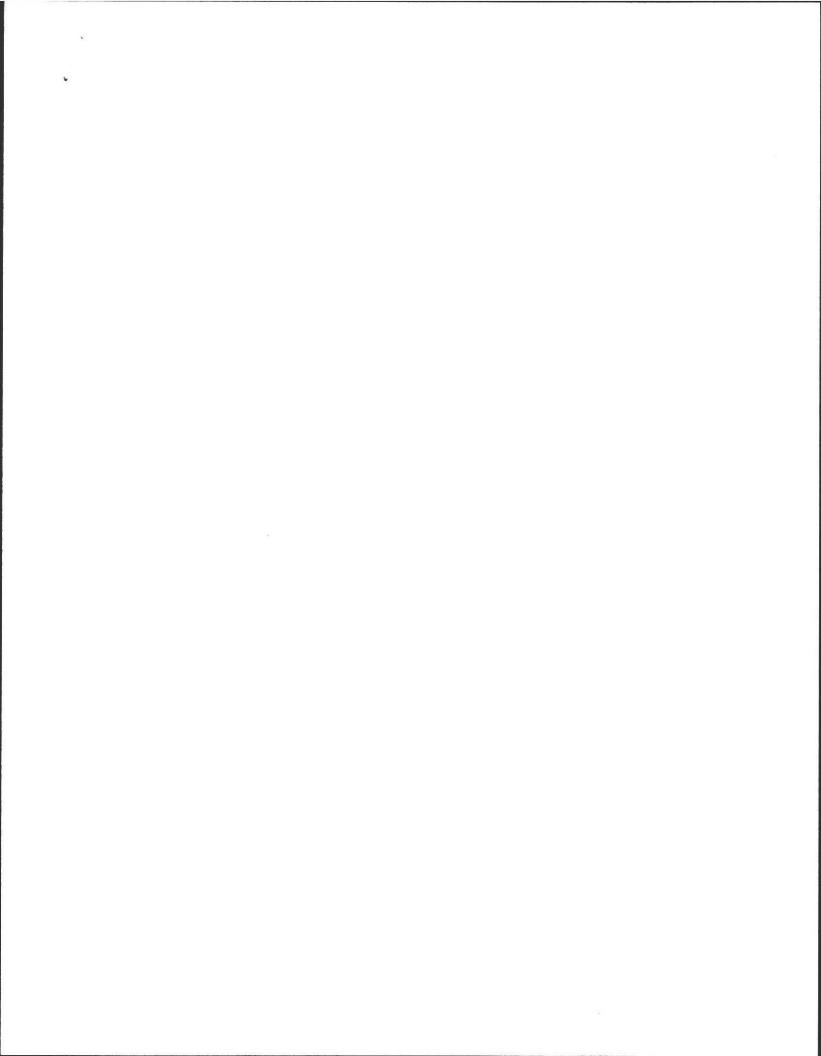


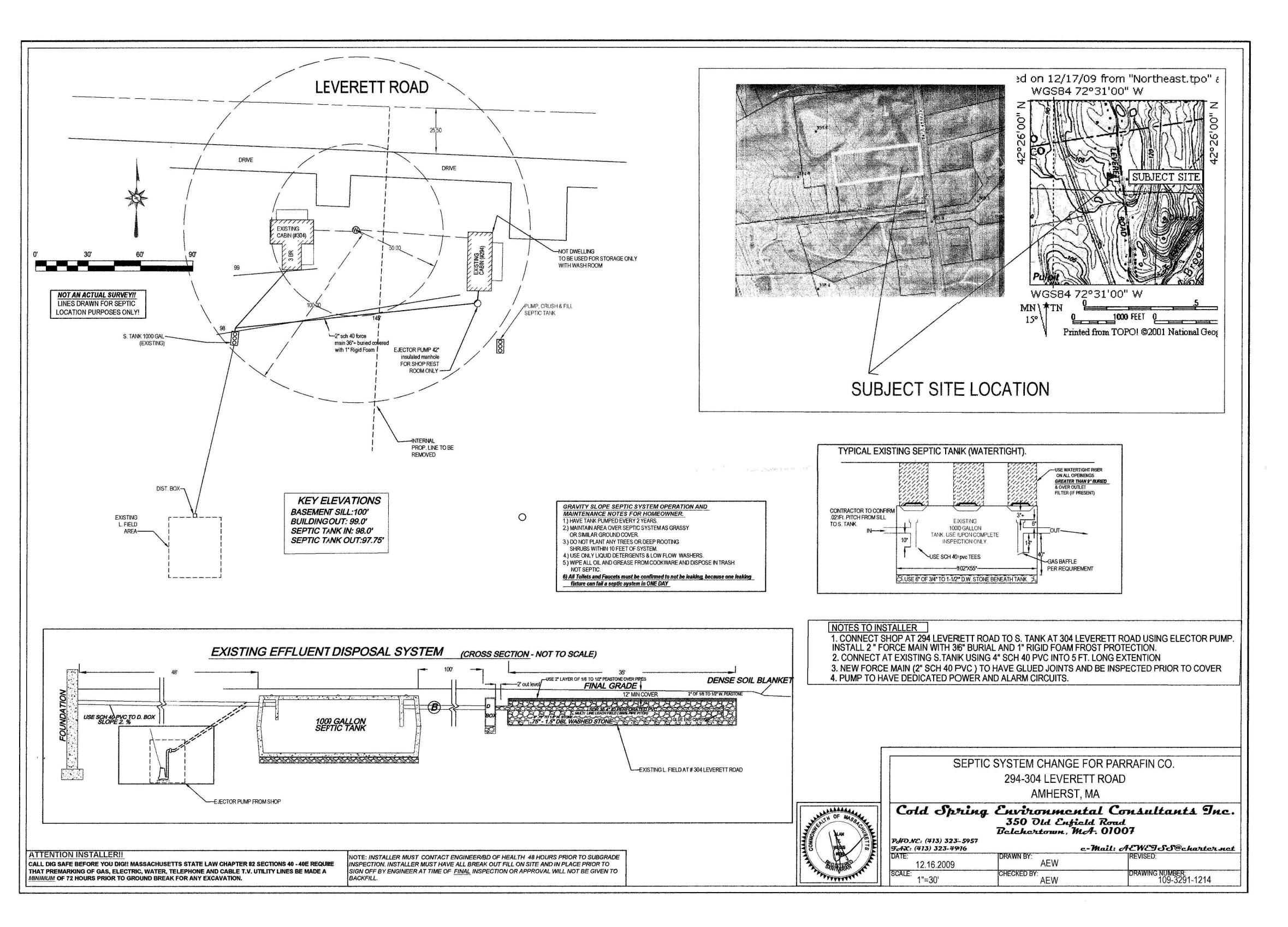
Ejector Pump Force Main 294-304 Leverett Road Amherst, MA 12.16.2009



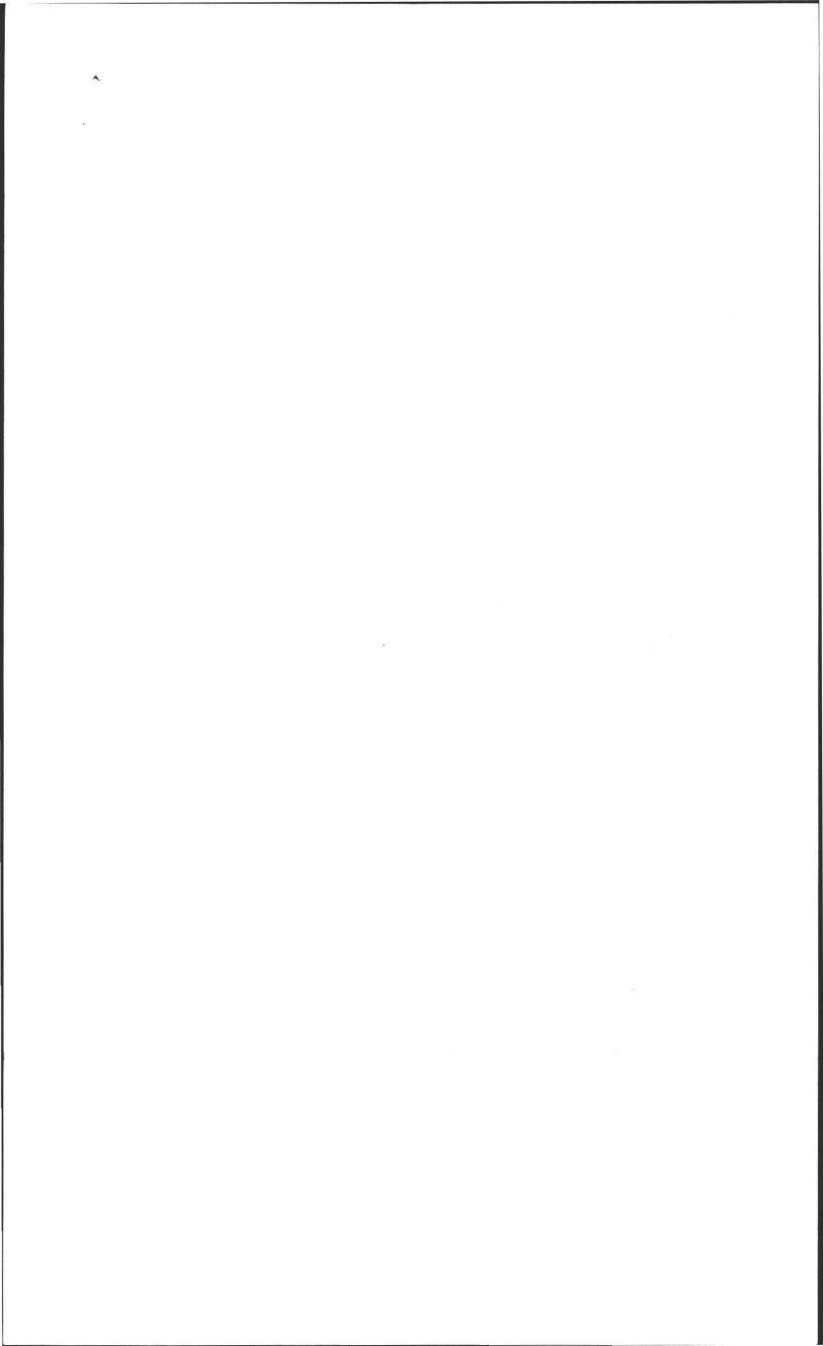


Ejector Pump 294-304 Leverett Road Amherst, MA 12.16.2009



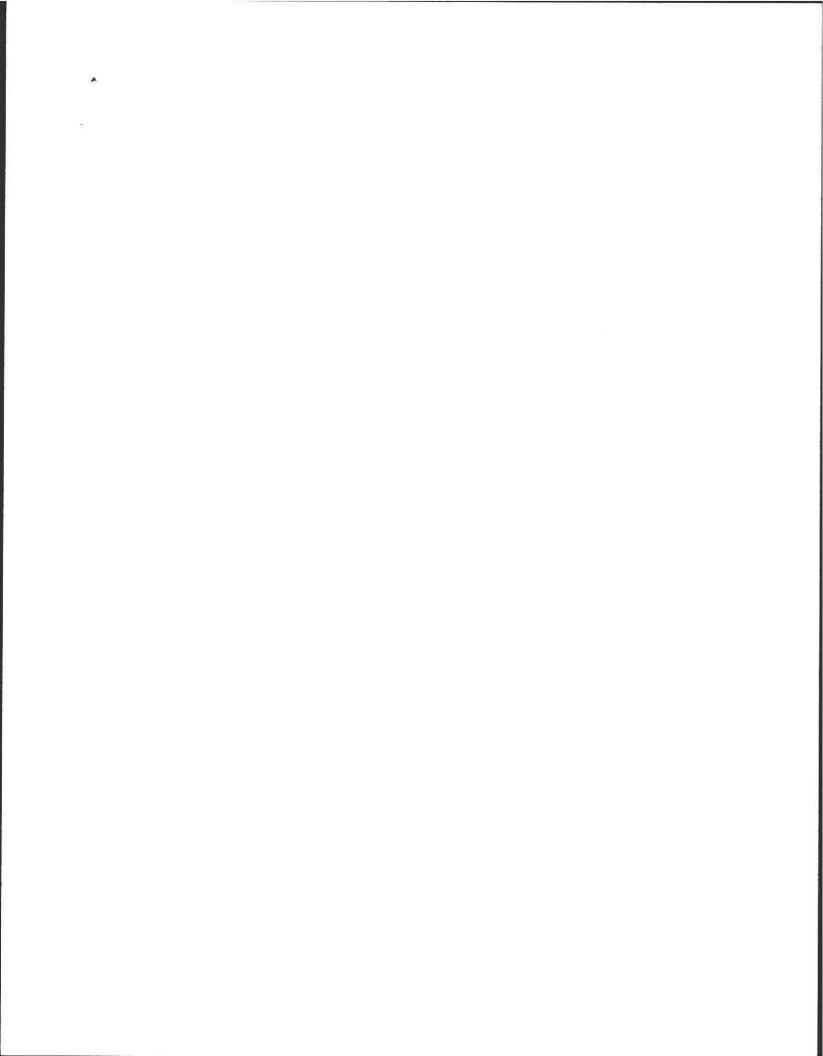


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COMMONWEALTH	OF MASSACHUSETTS
Board of Health, AM	
	19.18
	SYSTEM CONSTRUCTION PERMIT
Application for a Permit to Construct (Y Repair (Y Upgrade () A	bandon() - Complete System Individual Components
Location 294-304 Leverett RD.	Owner's Name Parafin Cu.
Map/Parcel# 3A 85+86.	Address 312 Levenett RD
Lot# 85 +86	Telephone# 548-9802
Installer's Name DMU CUNST	Designer's Name Ala Wer55
Address AmheBt MA.	Address Belchortow,
Telephone#	Telephone# 323-5957
Type of Building Rest Storage Bl	d_{g} Lot Size $1.571.5$ AC $\frac{1}{sq.ft}$
Dwelling - No. of Bedrooms	Garbage grinder ()
	No. of persons Showers (), Cafeteria ()
Other Fixtures Design Flow (min. required) 110 gpd Calculated of	design flow Design flow provided gpd
Tille EXISTIN, System Fiel inte	at 304 Leverett 2 W Ejector Rup,
Description of Soil(s)	
Soil Evaluator Form No Name of Soil Evalu	ator Date of Evaluation
DESCRIPTION OF REPAIRS OR ALTERATIONS Charge	The second se
with bathrain any to ejector	
at #304 Lewrett ND.	
Inspections	-
	OF MACCACHUCETTO
COMMONWEALTH	
Board of Health,	
CEDTIFIC ATE O	Nerst, MA.
LEKIIFICALE U	herst., MA.
Description of Work: D Individual Component(s) CERTIFICATE U	F COMPLIANCE
Description of Work: Individual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co	DE COMPLIANCE System Onstructed (), Repaired (), Upgraded (), Abandoned ()
Description of Work: Individual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	DF COMPLIANCE System Denstructed (), Repaired (), Upgraded (), Abandoned ()
Description of Work: D Individual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. OF COMPLIANCE System Onstructed (), Repaired (), Upgraded (), Abandoned () .00 (Title 5) and the approved design plans/as-built plans relating to a Design Flow(gpd)
Description of Work: Individual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. OF COMPLIANCE System onstructed (), Repaired (), Upgraded (), Abandoned () .00 (Title 5) and the approved design plans/as-built plans relating to 1 Design Flow(gpd)
Description of Work: D Individual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. DF COMPLIANCE System Onstructed (), Repaired (), Upgraded (), Abandoned () .00 (Title 5) and the approved design plans/as-built plans relating to 1 Design Flow(gpd) Date: _12-16-09
Description of Work: Individual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. DF COMPLIANCE System Onstructed (), Repaired (), Upgraded (), Abandoned () .00 (Title 5) and the approved design plans/as-built plans relating to 1 Design Flow(gpd) Date: _12-16-09
Description of Work: □ Individual Component(s) □ Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. OF COMPLIANCE System Onstructed (), Repaired (), Upgraded (), Abandoned () .00 (Title 5) and the approved design plans/as-built plans relating to 1 Design Flow(gpd) Date: <u>12-16-66</u> at the system will function as designed. FEE
Description of Work: □ Individual Component(s) □ Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. OF COMPLIANCE System onstructed (), Repaired (), Upgraded (), Abandoned () .00 (Title 5) and the approved design plans/as-built plans relating to 1 Design Flow(gpd) Date: <u>12-16-09</u> the system will function as designed.
Description of Work: Dindividual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. OF COMPLIANCE System Onstructed (), Repaired (), Upgraded (), Abandoned () .00 (Title 5) and the approved design plans/as-built plans relating to 1 Design Flow(gpd) Date: <u>12-16-09</u>
Description of Work: □ Individual Component(s) □ Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. OF COMPLIANCE System Onstructed (), Repaired (), Upgraded (), Abandoned () .00 (Title 5) and the approved design plans/as-built plans relating to 1 Design Flow(gpd) Date: <u>12-16-66</u>
Description of Work: □ Individual Component(s) □ Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	Jest, MA. OF COMPLIANCE System onstructed (), Repaired (), Upgraded (), Abandoned ()
Description of Work: □ Individual Component(s) □ Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	Jost
Description of Work: D Individual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	MA. OF COMPLIANCE System Destructed (), Repaired (), Upgraded (), Abandoned ()
Description of Work: D Individual Component(s) Complete S The undersigned hereby certify that the Sewage Disposal System; Co by:	Mest, MA. OF COMPLIANCE System Destructed (), Repaired (), Upgraded (), Abandoned ()



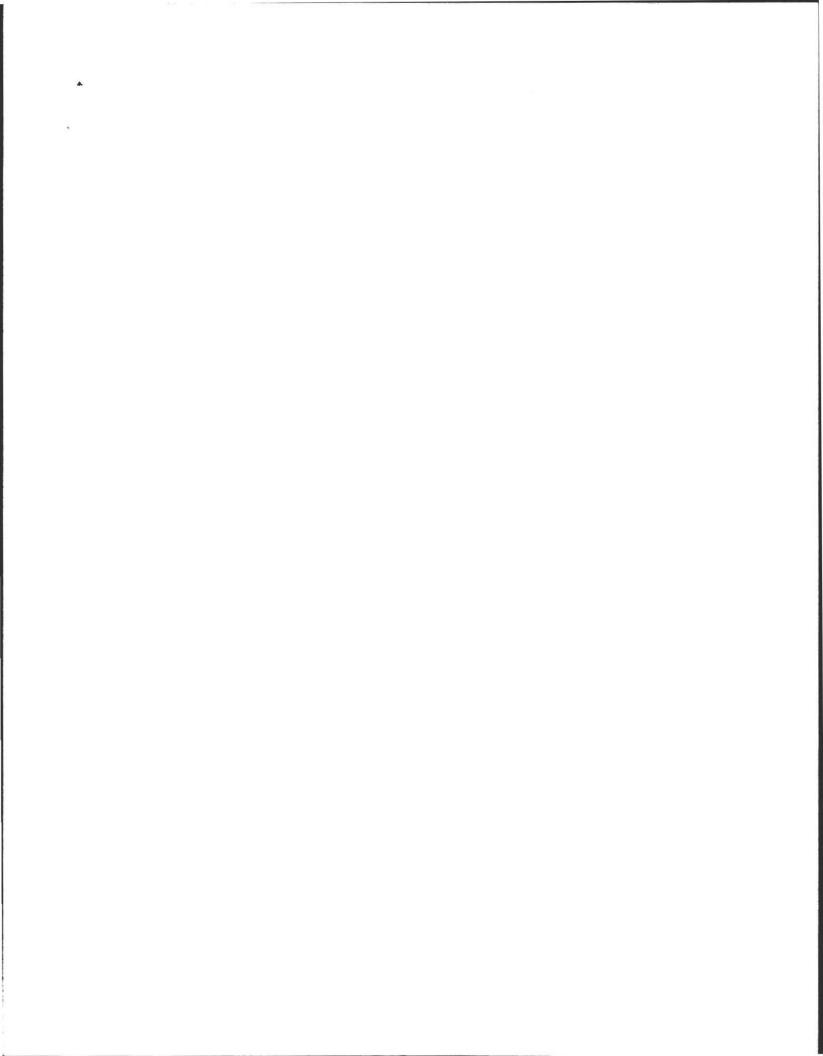


Ejector Pump 294-304 Leverett Road Amherst, MA 12.16.2009





Ejector Pump (Little Giant) 294-304 Leverett Road Amherst, MA 12.16.2009





Ejector Pump Force Main 294-304 Leverett Road Amherst, MA 12.16.2009

