

281 Leverett Rd Hole 1H + 2H  
Northampton Assoc.

5/1 yloc  
writing for  
MS. Bort  
from Doug  
Minkley  
a/18/06  
too many cases??  
D.K.



No 06-03

*(Rec 1928)*  
Commonwealth of Massachusetts  
**AMHERST, Massachusetts**

*CH# 117*  
Fee 125.00 *9/24/02*  
*check 12208*  
*APPLIC 181 02*

**Application for Disposal System Construction Permit**

Application is hereby made for a Permit to Construct ( ) or Repair (X) an On-site Sewage Disposal system at:

Location Address or Lot No.  281 LEVERETT ROAD	Owner's Name, Address and Tel. #  AMHERST BUILDING COMPANY LLC 25 MAIN STREET SUITE 445 NORTHAMPTON, MA 01060 (413) 586-5340
Installer's Name, Address, and Tel. # LML CONSTRUCTION 608 LONG PLAIN ROAD LEVERETT, MA 01054 413-665-3788	Designer's Name, Address and Tel. # MacLeay Associates, Inc. 102 Bridge Street Shelburne Falls, MA 01370 (413) 625-9774

Type of Building:

Dwelling      No. of Bedrooms 3 Garbage Grinder NO  
  
Other      Type of Building \_\_\_\_\_ No. of Persons \_\_\_\_\_ Showers \_\_\_\_\_ Cafeteria \_\_\_\_\_  
Other Fixtures \_\_\_\_\_

Design Flow 330 gallons per day. Calculated daily flow 330 gallons  
Plan Date 4/10/06 Number of Sheets ONE Revision Date NONE  
Title SUBSURFACE SEWAGE DISPOSAL PLAN IN AMHERST, MASS FOR  
AMHERST BUILDING COMPANY LLC, 281 LEVERETT ROAD.

Description of Soil SANDY LOAM. SEE PLAN FOR DETAILED TEST PIT DESCRIPTIONS,  
SEASONAL HIGH GROUNDWATER AT 21" PERC RATE 35 MIN./INCH., WITNESSED BY  
DAVID ZAROZINSKI

Nature of Repairs or Alterations (Answer when applicable) INSTALL SEPTIC TANK, PUMP  
CHAMBER, D-BOX, AND PRESBY ENVIRO-SEPTIC LEACH FIELD.

Date last inspected: \_\_\_\_\_

-\*Agreement:

The undersigned agrees to ensure the construction and maintenance of the aforescribed on-site sewage disposal system in accordance with the provisions of Title 5 of the Environmental Code and not to place the system in operation until a Certificate of Compliance has been issued by this Board of Health.

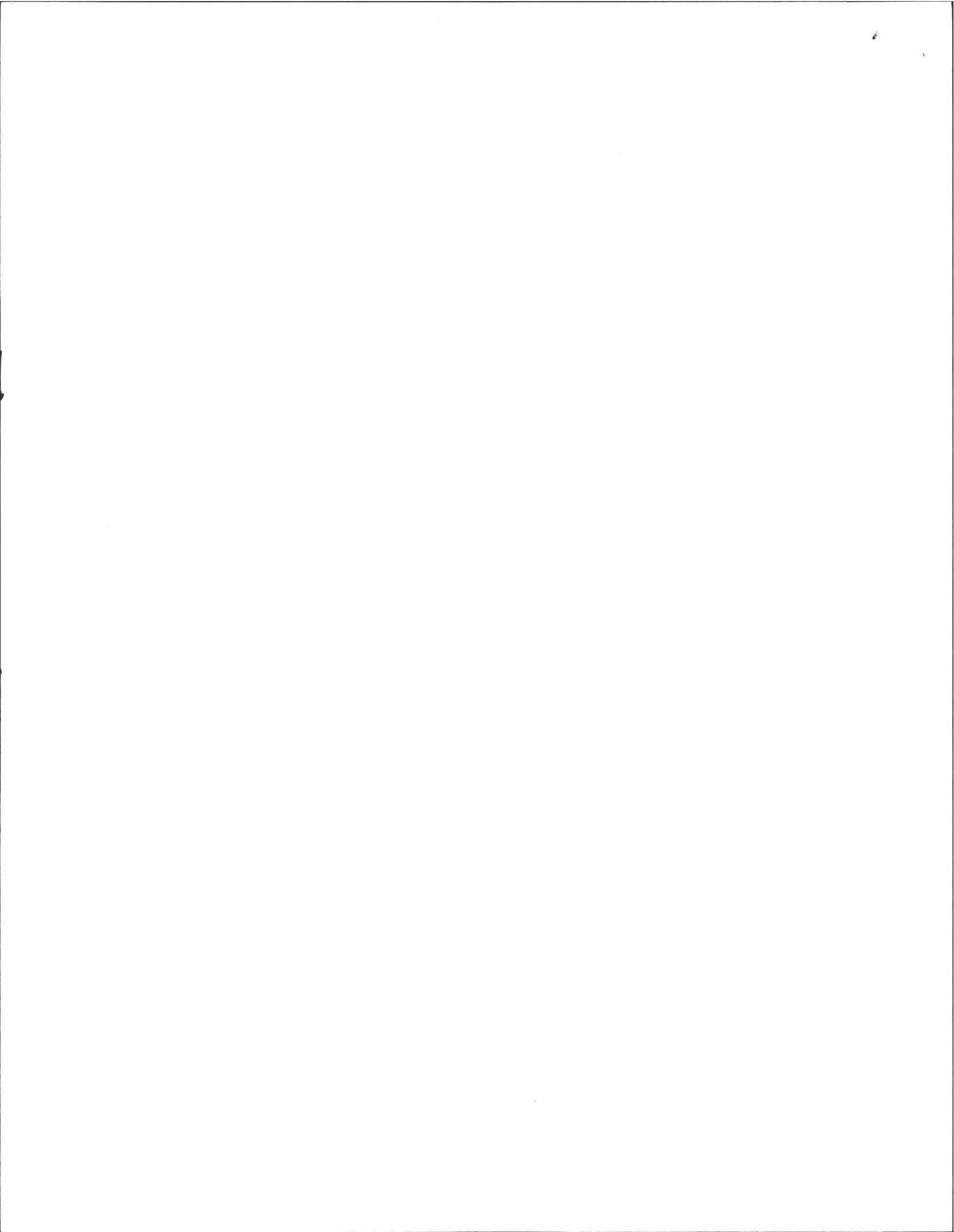
Signed *[Signature]* Date 4/18/06

Application Approved by *[Signature]* Date 4/15/06

Application Disapproved for the following reasons \_\_\_\_\_

Permit No. 06-03

Date Issued 4/15/06



Commonwealth of Massachusetts

AMHERST, Massachusetts

Certificate of Compliance

This is to Certify, that the On-site Sewage Disposal System installed ()  
or repaired/replaced (X) on \_\_\_\_\_ by \_\_\_\_\_  
LML CONSTRUCTION for AMHERST BUILDING COMPANY LLC  
at 281 LEVERETT ROAD

has been constructed in accordance with the provisions of Title 5 and the for  
Disposal System Construction Permit No. 06-03 dated \_\_\_\_\_  
Use of this system is conditioned on compliance  
with the provisions set forth below:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

The issuance of this certificate shall not be construed as a guarantee that  
the system will function as designed. The Certificate expires on

\_\_\_\_\_  
Date 9/14/06

Inspector Cecil Zuzmalis  
Robert T. Hawk, Esq.

John Miller  
John Rasko



Commonwealth of Massachusetts

AMHERST, Massachusetts

Disposal System Construction Permit

No. 06-03

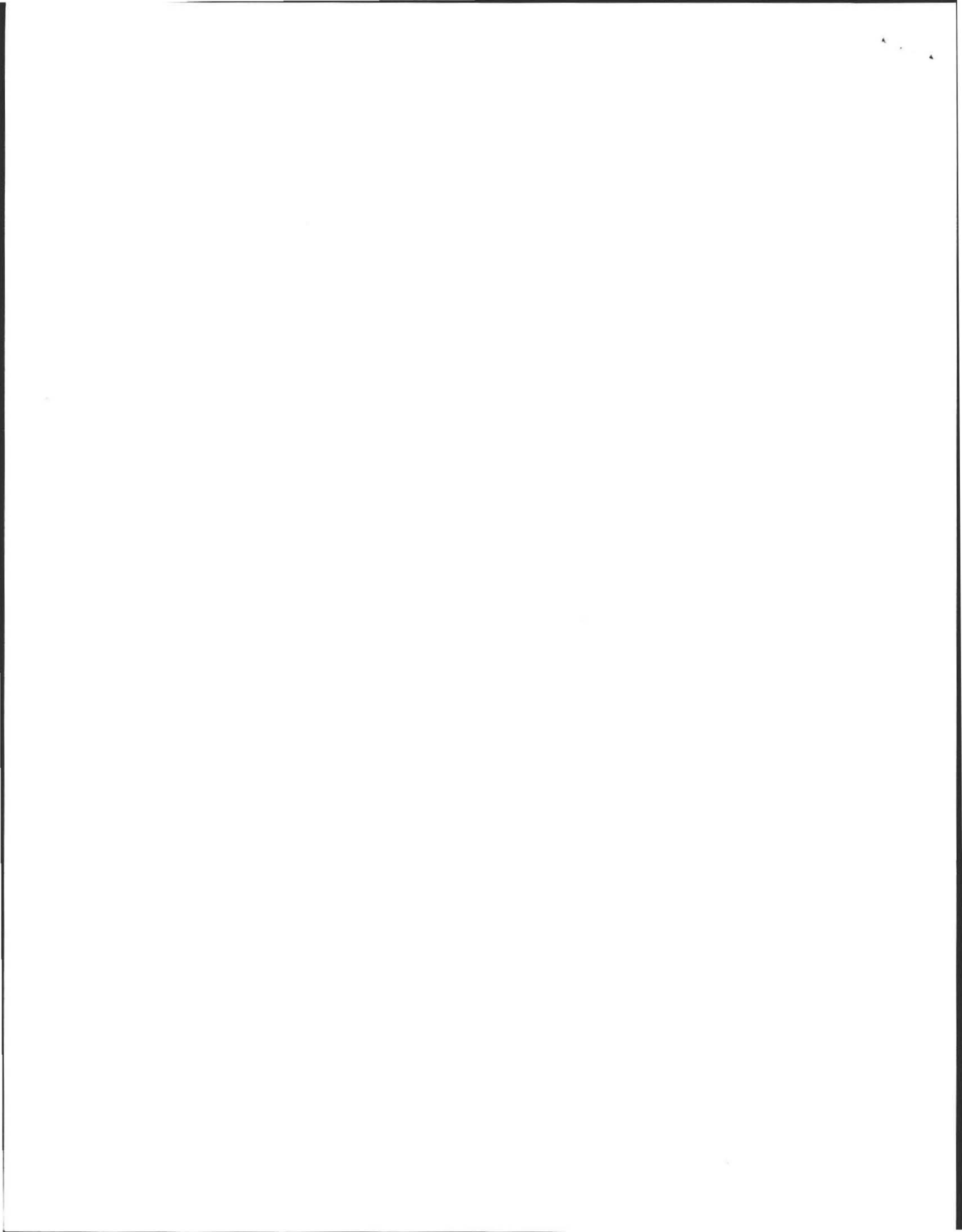
Permission is hereby granted to AMHERST BUILDING COMPANY LLC to  
construct ( ) or repair (X) an On-site Sewage System located at  
281 LEVERETT ROAD

and as described in the above Application for Disposal System Construction Permit. The applicant recognizes his/her duty to comply with Title 5 and the following local provisions or special conditions.

All construction must be completed within two years of the date below.

Date 4/15/96

Approved by David J. [Signature]





No. 06-03

*Rec # 1928*

*CH 117*  
Fee April 18, 06 *9/24/02*  
*CH # 12208 Pd*  
*125.00*  
*plus*

Commonwealth of Massachusetts  
**AMHERST, Massachusetts**

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Other Fixtures \_\_\_\_\_

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DAVID ZAROZINSKI

Nature of Repairs or Alterations (Answer when applicable) INSTALL SEPTIC TANK, PUMP  
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Date last inspected: \_\_\_\_\_

-\*Agreement:

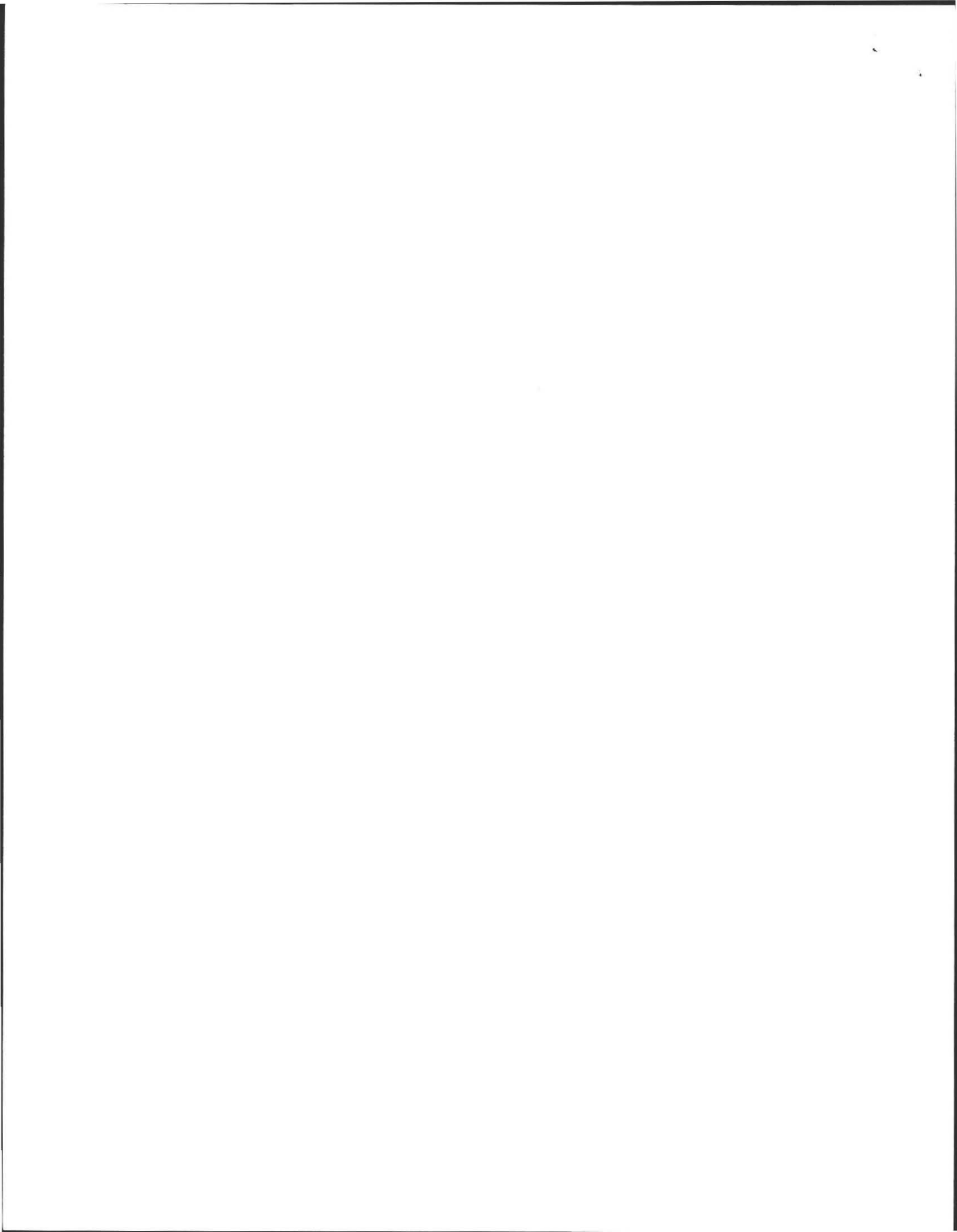
The undersigned agrees to ensure the construction and maintenance of the aforescribed on-site sewage disposal system in accordance with the provisions of Title 5 of the Environmental Code and not to place the system in operation until a Certificate of Compliance has been issued by this Board of Health.

Signed [Signature] Date 4/18/06

Application Approved by [Signature] Date 4/15/06

Application Disapproved for the following reasons \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Permit No. \_\_\_\_\_ Date Issued \_\_\_\_\_



**Commonwealth of Massachusetts**

**AMHERST, Massachusetts**

**Certificate of Compliance**

This is to Certify, that the On-site Sewage Disposal System installed ( )  
or repaired/replaced (X) on \_\_\_\_\_ by \_\_\_\_\_  
LML CONSTRUCTION for AMHERST BUILDING COMPANY LLC  
at 281 LEVERETT ROAD

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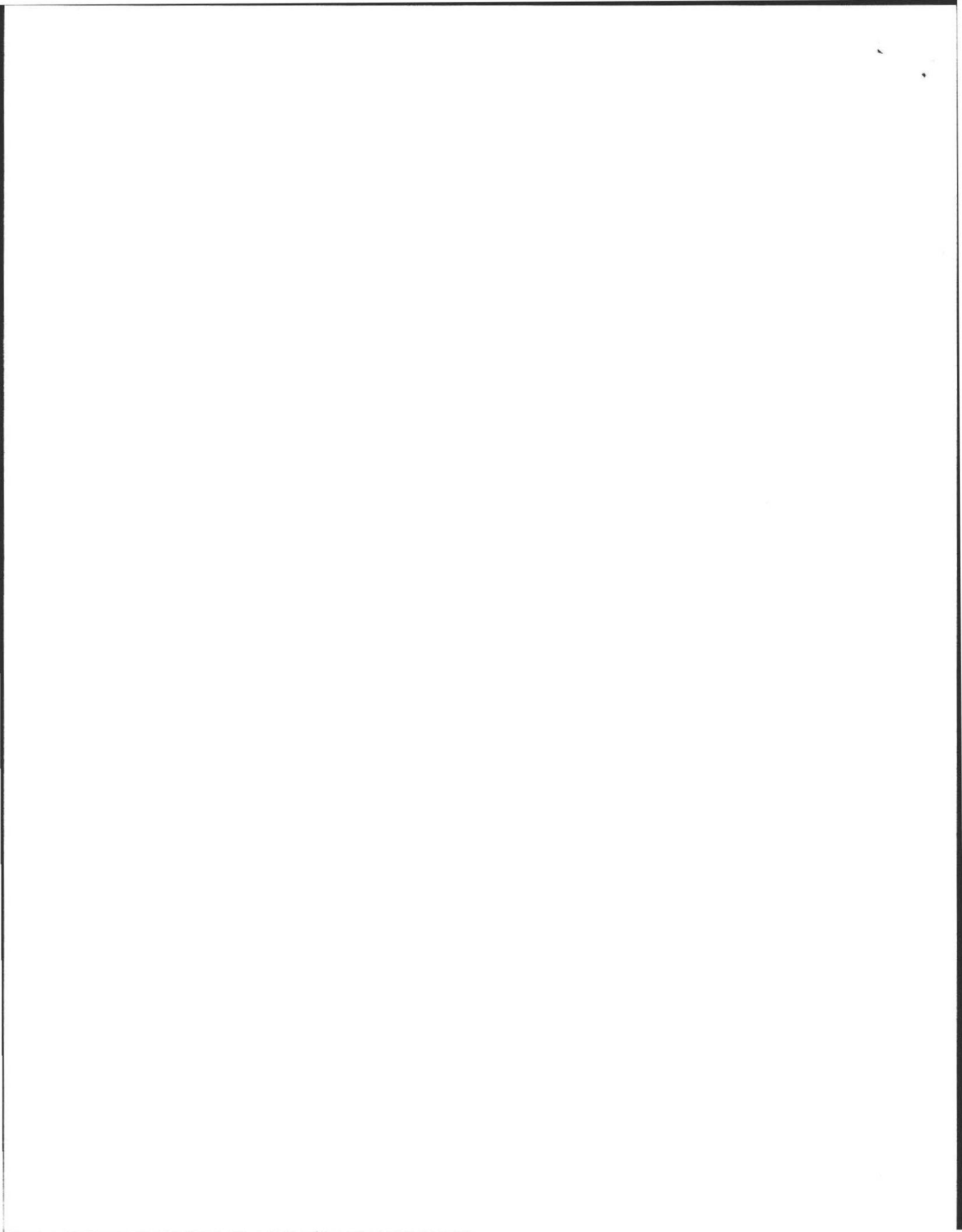
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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the system will function as designed. The Certificate expires on

\_\_\_\_\_

Date \_\_\_\_\_

Inspector \_\_\_\_\_



Commonwealth of Massachusetts

AMHERST, Massachusetts

Disposal System Construction Permit

No. 06-03

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All construction must be completed within two years of the date below.

Date 4/15/06

Approved by 



TOWN OF AMHERST  
HEALTH PERMITS/INSPECTION SERVICES

ck # 117  
No. 3086

Received of Mark Wisotzky (Northampton) Assoc of 281 Leverett Rd.  
Name Address

For Property Located at: same same  
Street Address Owner

<b>HEA009</b> Bakery R6510 443508	_____	<b>HEA015</b> Sanitary Code Booklets R6510 432305	_____
<b>HEA001</b> Bed & Breakfast R6510 443516	_____	<b>HEA016</b> Septic Tank Permit-Installers R6510 443511	_____
<b>HEA002</b> Catering License R6510 443507	_____	<b>HEA017</b> Septic Tank Permit-Private R6510 443510	_____
<b>HEA003</b> Food Handler R6510 443515	_____	<b>HEA018</b> Septic Tank Reinspection Fee R6510 432301	_____
<b>HEA004</b> Frozen Deserts R6510 443501	_____	<b>HEA019</b> Sub-Division Review Fee R6510 432306	_____
<b>HEA005</b> Health Dept. Housing Isp. R6510 432302	_____	<b>HEA012</b> Swimming Pool Permits R6510 443512	_____
<b>HEA006</b> Massage Therapy License R6510 443504	_____	<b>HEA020</b> Tanning License R6510 443509	_____
<b>HEA007</b> Milk & Cream License R6510 443500	_____	<b>HEA024</b> Funeral Director License R6510 443502	_____
<b>HEA008</b> Motel License R6510 443506	_____	<b>HEA034</b> Immunization Clinic R6510 432307	_____
<b>HEA010</b> Removal of Offal R6510 443513	_____	<b>HEA030</b> Car Seats 3407 258004	_____
<b>HEA021</b> Removal of Rubbish R6510 443520	_____	<b>HEA026</b> Smoking & Tobacco Reg. Violations R6510 443518	_____
<b>HEA011</b> Percolation Test Fees <u>(1) 175.00</u> R6510 432300	_____	<b>HEA023</b> TB Clinic R6510 432303	_____
<b>HEA013</b> Recreation Camp License R6510 443503	_____	<b>HEA022</b> Tobacco License R6510 443505	_____
<b>HEA014</b> Retail Store Permit R6510 443514	_____	<b>HEA</b>	_____
		<b>HEA</b>	_____

TOTAL FEE: \$ 175.00 9/24/02  
Date


Kelli Kydd  
Inspection Services/Health Department


**MARK WISOTZKY**  
67 ADAMS ROAD  
HAYDENVILLE, MA 01039

117  
53-7233/2118  
BRANCH 1

9-23-02 DATE

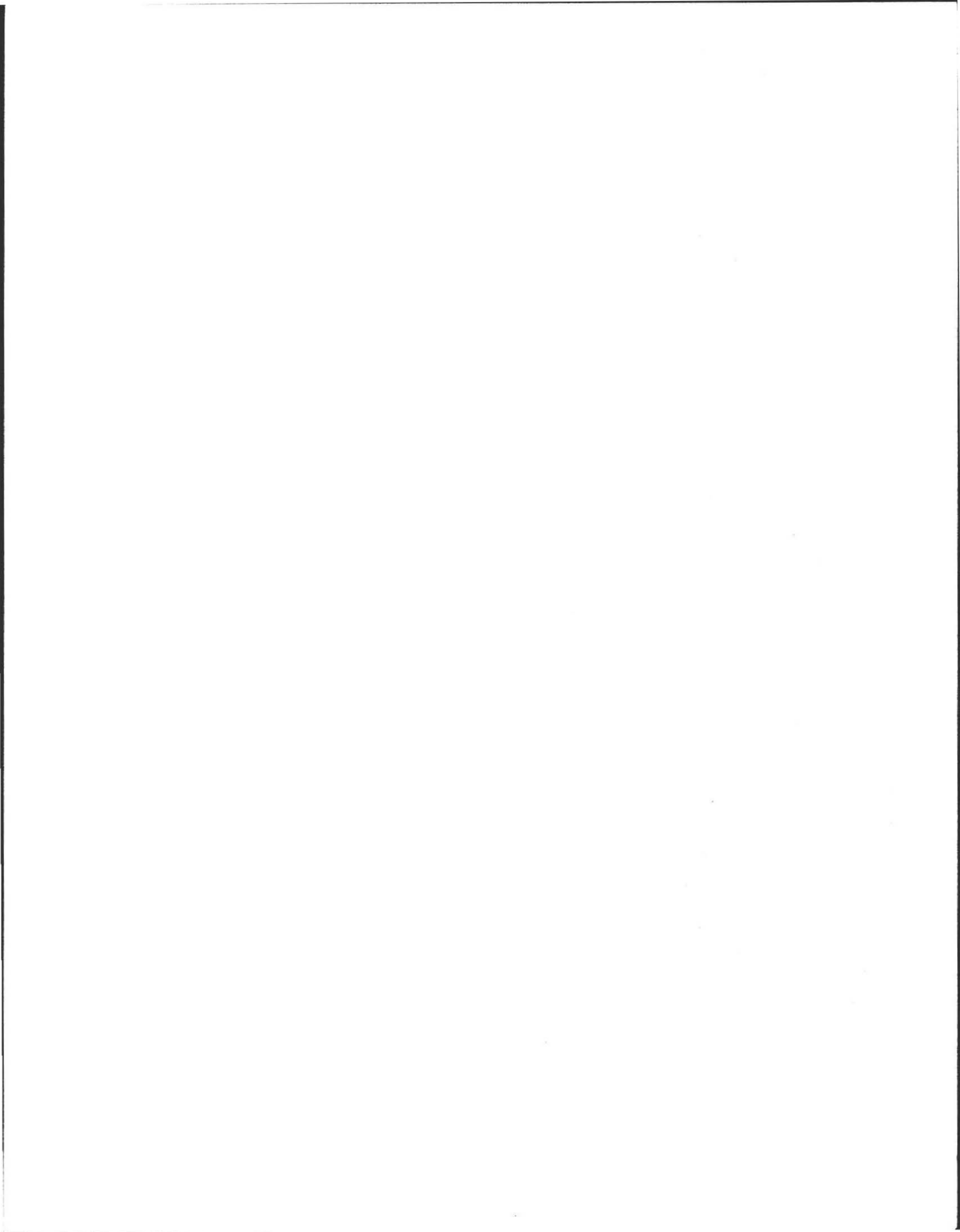
PAY TO THE ORDER OF Town of Amherst \$ 175 <sup>00</sup>/<sub>100</sub>

One Hundred + Seventy Five <sup>00</sup>/<sub>100</sub> DOLLARS  Security Features Details on Back.

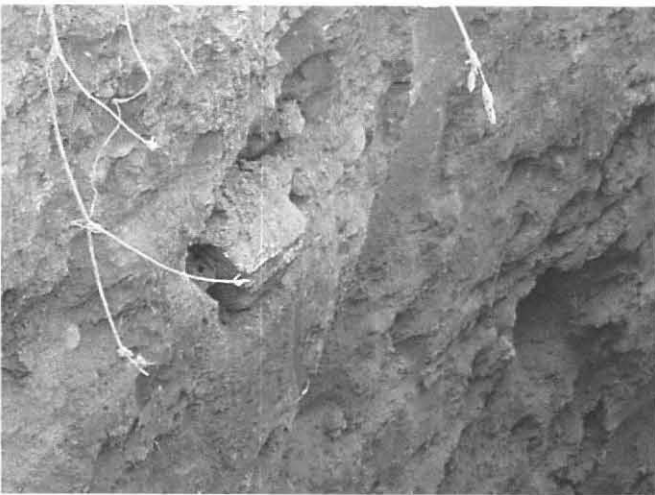
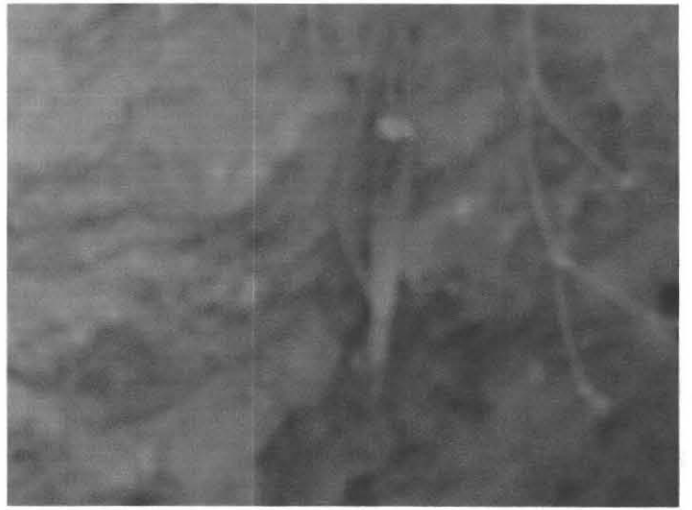
 COOP GOLD ACCOUNT

FOR Leverett Rd perc. Mark Wisotzky MP

⑆ 211872331⑆ 01 22 002446⑈ 0117

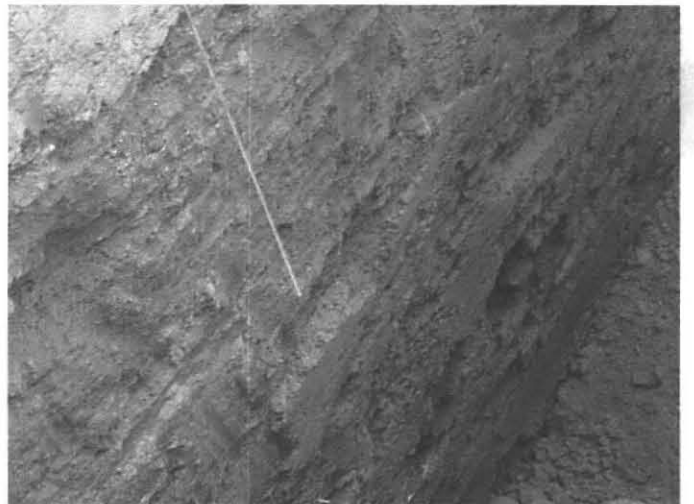
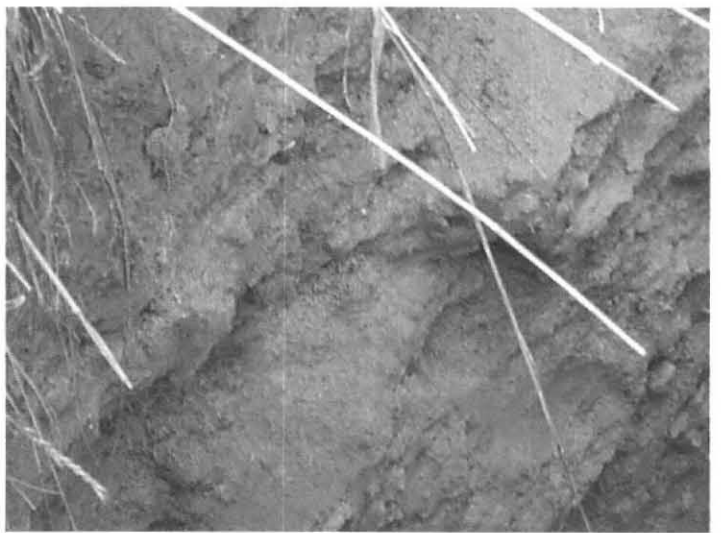




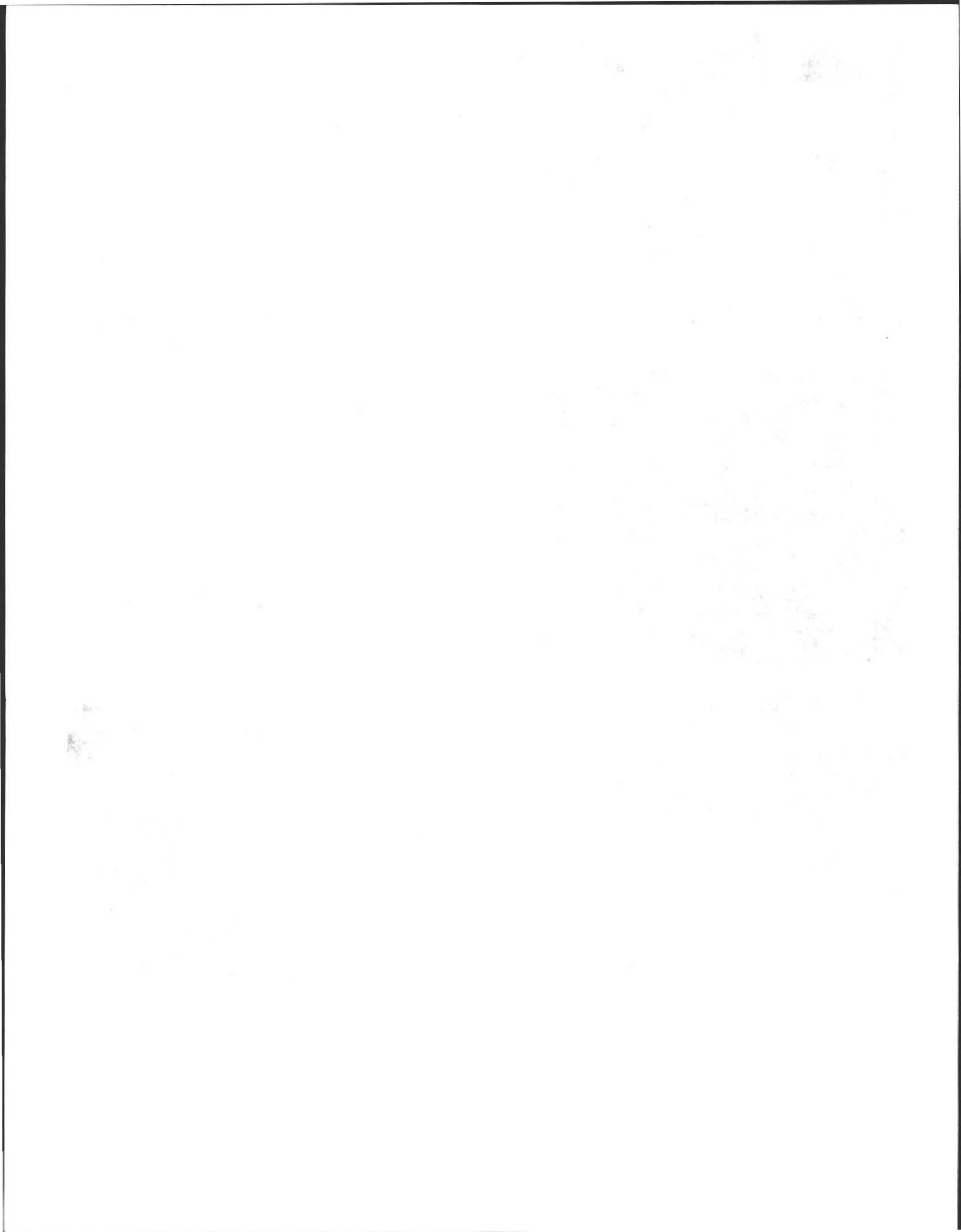


281 LEVERETT RD  
HOLE 1H





281 LEVERETT RD  
HOLE 2H



MARK WISOTZKY  
67 ADAMS ROAD  
HAYDENVILLE, MA 01039

117

9-23-02 DATE

53-7233/2118  
BRANCH 1

PAY TO THE  
ORDER OF

Town of Amherst

One Hundred + Seventy Five

\$ 175 <sup>00</sup>/<sub>100</sub>

DOLLARS



Security  
Features  
Details on  
Back.



COOPERATIVE  
BANK  
NORTHAMPTON, MA 01060

COOP GOLD ACCOUNT

FOR

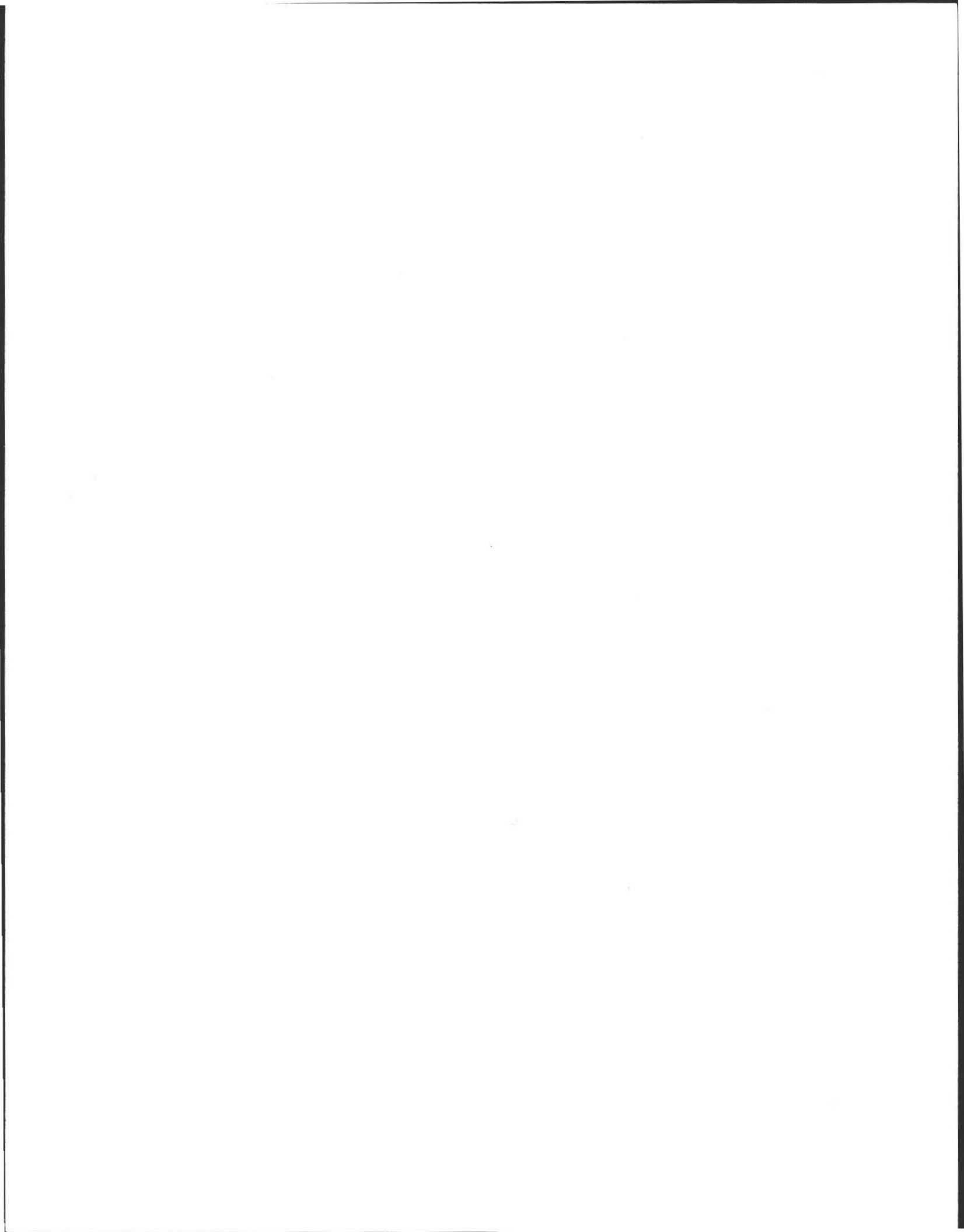
Verett Rd Res.


Mark Wisotzky

MP

⑆ 211872331⑆ 01 22 002446⑈ 0117

© HARLAND



MARK  
WISOTZKI  
CK   
117

Commonwealth of Massachusetts

Town of \_\_\_\_\_

**Soil Suitability Assessment : On-Site Sewage Disposal**

Performed By: Doug Mackey Date: 9/28/02  
 Witnessed By: David Zarewicz

Location Address of: Lot #	Owner's Name: Address of: Telephone:
	<u>Northampton Assoc</u> <u>(Stowell prop)</u> <u>281 Leventer Rd</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

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 \_\_\_\_\_  
 Geologic Material (map unit) \_\_\_\_\_  
 Landform \_\_\_\_\_

Flood Insurance Rate Map:  
 Above 500 year flood boundary? No  Yes   
 Within 500 year flood boundary? No  Yes   
 Within 100 year flood boundary? No  Yes

Wetland Area:  
 National Wetland Inventory Map (map unit) \_\_\_\_\_  
 Wetlands Conservancy Program Map (map unit) \_\_\_\_\_

Current Water Resource Conditions (USGS): month \_\_\_\_\_  
 Range: Above Normal  Normal  Below Normal

Other Reference Reviewed:

**Determination: Seasonal High Water Table**

Methods Used:

- Depth observed standing in observation hole \_\_\_\_\_ inches
- Depth weeping from side of observation hole \_\_\_\_\_ inches
- Depth to soil mottles \_\_\_\_\_ inches
- Ground water adjustment \_\_\_\_\_ feet

Index Well No. \_\_\_\_\_ Reading Date \_\_\_\_\_ Index Well Level \_\_\_\_\_  
 Adjustment factor \_\_\_\_\_ Adjusted ground water level \_\_\_\_\_

Depth of Naturally Occurring Previous Material

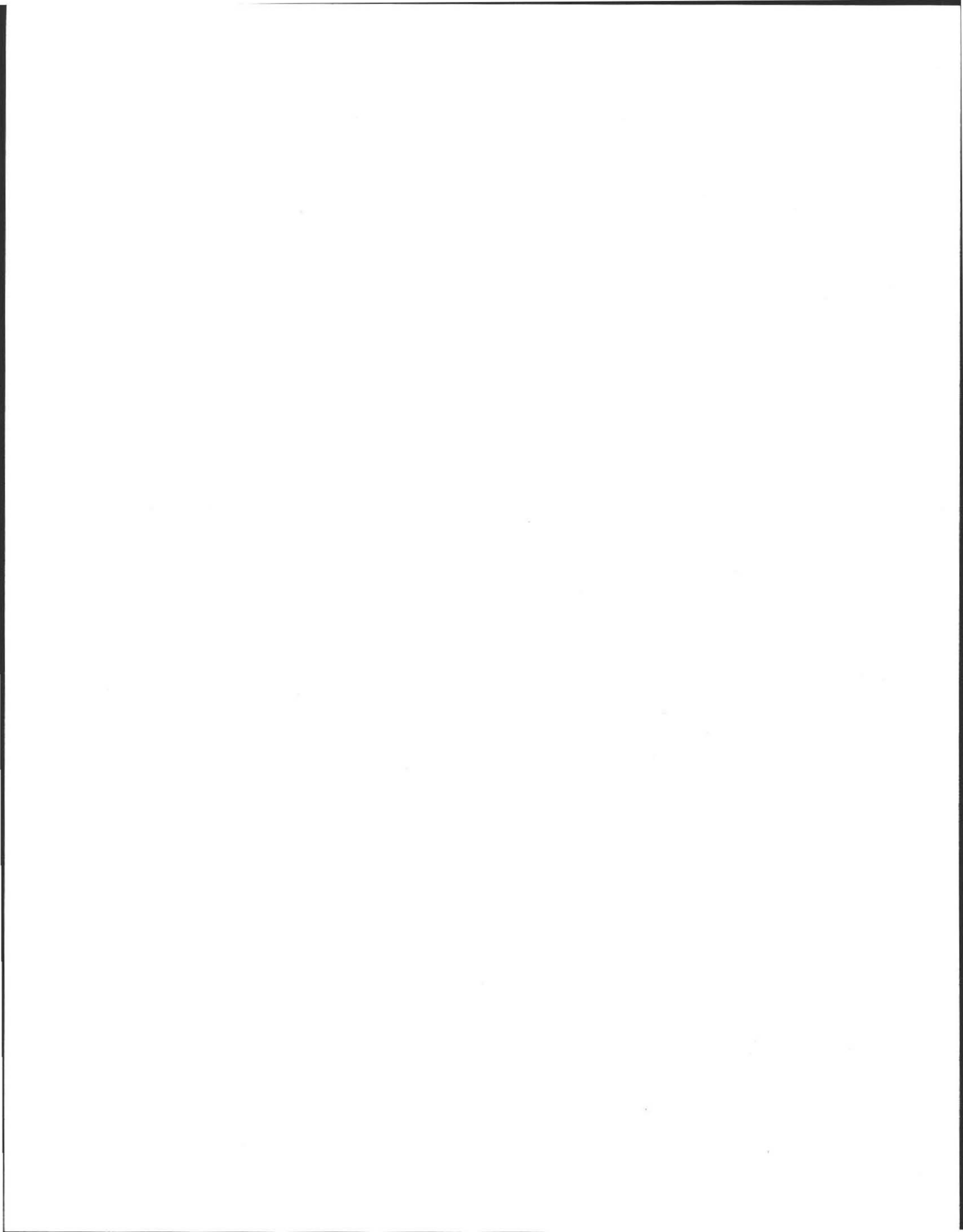
Does at least four feet of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? \_\_\_\_\_

If not, what is the depth of naturally occurring previous material?  
 \_\_\_\_\_

Certification

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

Signature \_\_\_\_\_  
 Date \_\_\_\_\_





Honhampton Assoc

Stowell Prop.

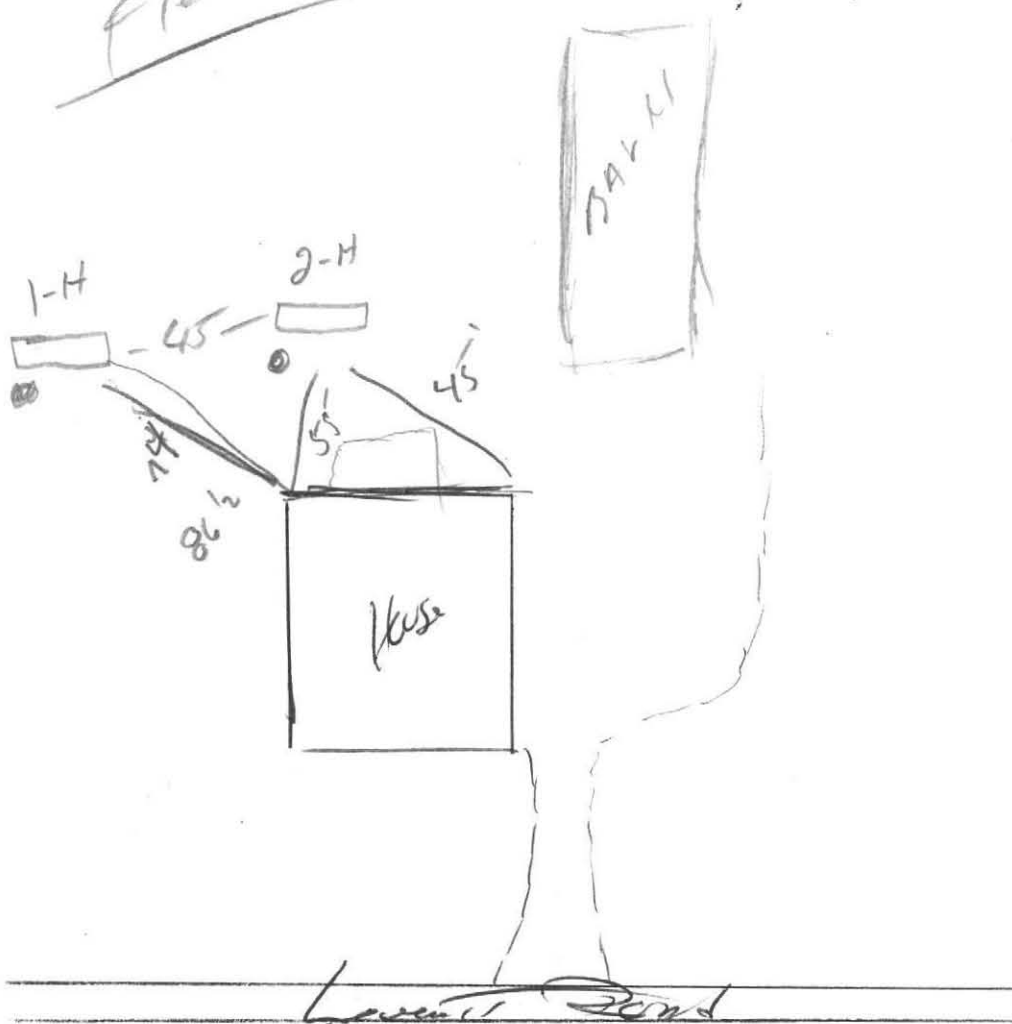
FORM 12: Percolation Test

Location Address or Lot # 281 Lovett Road

Commonwealth of Massachusetts

Town of Amherst

Open Field



PERCOLATION TEST \*

DATE: 9/23/02 TIME: 8:30

Observation Hole #	<u>(CH)</u>	<u>24</u>
Depth of Perc	<u>45"</u>	<u>44</u>
Start Pre-soak	<u>8:50</u>	<u>9:31</u>
End Pre-soak	<u>9:06</u>	<u>9:47</u>
Time at 12"	<u>9:06</u>	<u>9:47 11"</u>
Time at 9"	<u>10:13</u>	<u>10:37 8</u>
Time at 6"	<u>11:45</u>	<u>11:45 (6)</u>
Time (9"-6")	<u>discarding</u>	<u>12:20 (5)</u>
Rate Min./Inch		<u>1.03 min (35)</u>

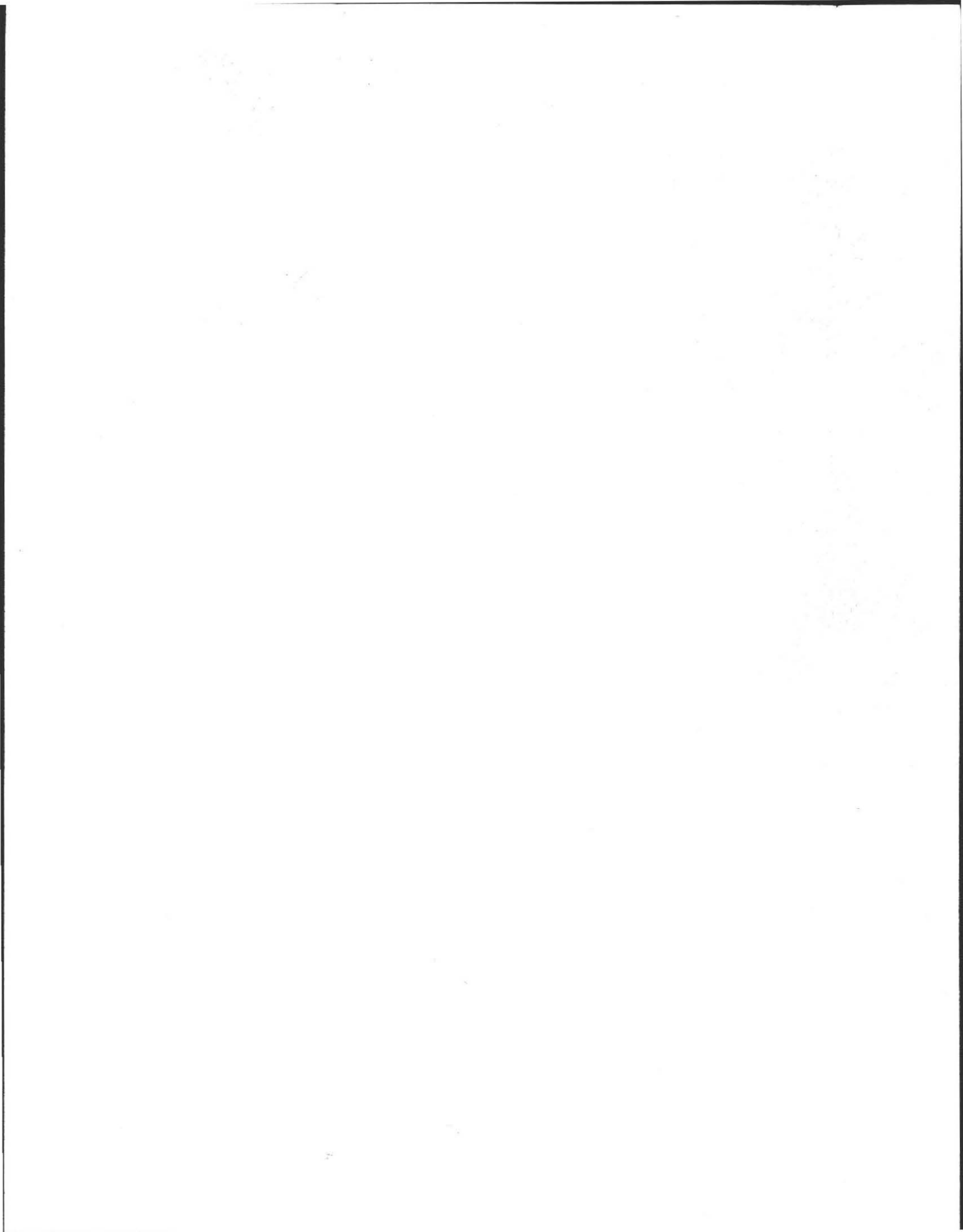
\*Minimum of one percolation test must be performed in both the primary area and reserve area.

Site Passed  Site failed

Performed by Doug McLean

Witnessed by David Zarcuski

Comments:



Northampton Assoc.

281 Levett Road

## On-Site Review

Deep Hole Number 1H Date: 9/23/02 Time 9:30  
 Weather CLDY SUNNY  
 Location (identify on site plan) \_\_\_\_\_  
 Land Use Field Slope (%) 3  
 Surface Stone \_\_\_\_\_  
 Vegetation: \_\_\_\_\_

Grasses

Landform: \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body - feet      Drainageway - feet  
 Possible Wet Areas - feet      Property Line 10' feet  
 Drinking Water Well 130 feet      Other \_\_\_\_\_

## DEEP OBSERVATION HOLE LOG

depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
0-18"	A <sub>0</sub>	SL	10YR 3/3		FR, 10% S, C, B
22"	B <sub>w</sub>	SL	10YR 5/6	21" 7.5YR 2 4/6	FR 15% S, C, B
114"	C	SL	2.5Y 4/3	5Y 5/2 9"	Firm 15% S, C, B

Parent Material (geologic) Basal T. IIDepth to Bedrock 114

Depth to Groundwater: \_\_\_\_\_

Standing Water in the Hole -  
 Weeping from Pit Face -  
 Estimated Seasonal High Water 21"

## On-Site Review

Deep Hole Number 2H Date: 9/23/02 Time \_\_\_\_\_  
 Weather CLDY - SUNNY  
 Location (identify on site plan) \_\_\_\_\_  
 Land Use Field Slope (%) 3  
 Surface Stone \_\_\_\_\_  
 Vegetation: \_\_\_\_\_

Grasses

Landform: \_\_\_\_\_

Position on Landscape (sketch on back) \_\_\_\_\_

Distances from:

Open Water Body - feet      Drainageway - feet  
 Possible Wet Areas - feet      Property Line 10 feet  
 Drinking Water Well 130 feet      Other \_\_\_\_\_

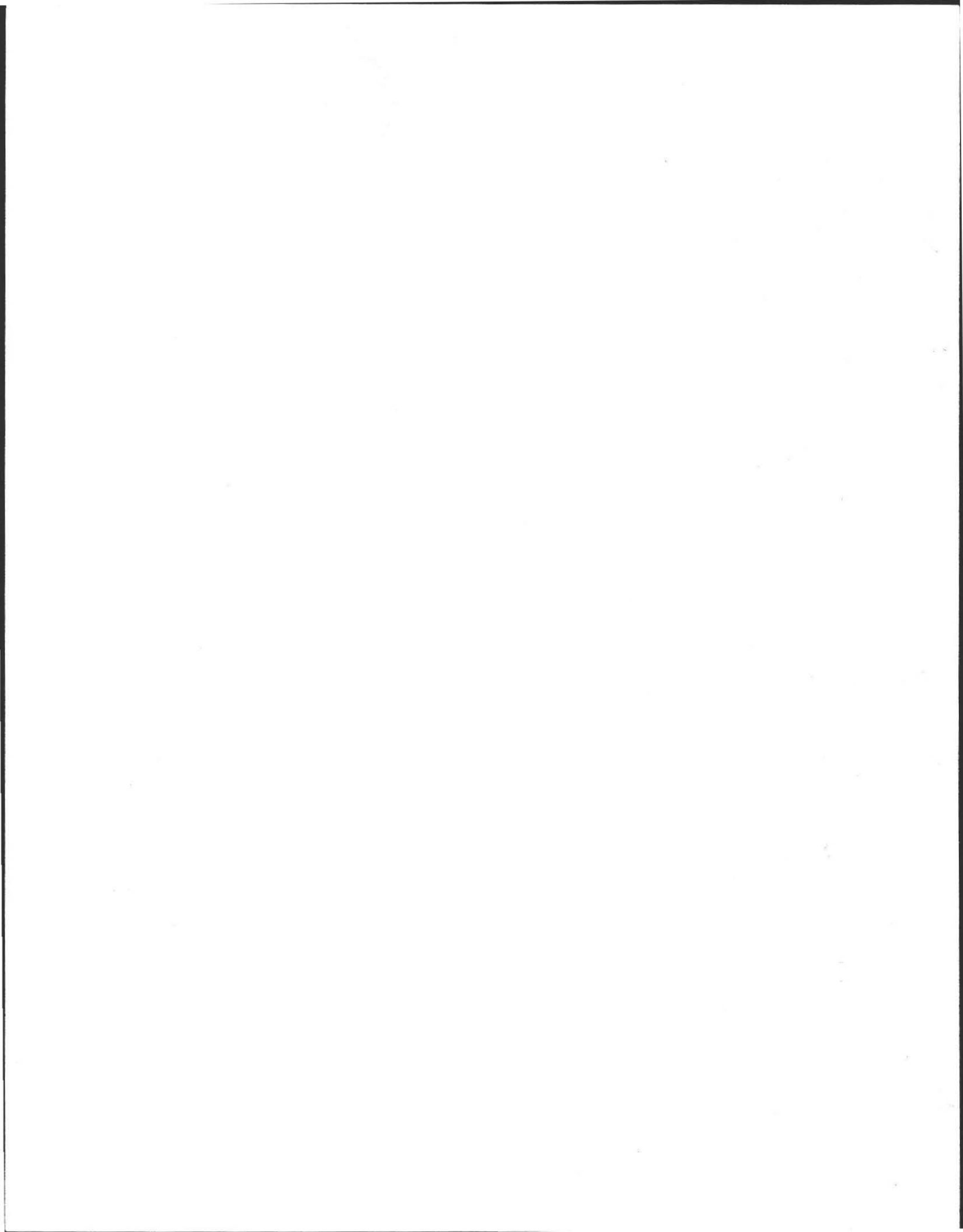
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depth from surface (inches)	soil horizon	soil texture (USDA)	soil color (Munsell)	soil mottling	other (structure, stones, boulders) Consistency, % gravel
10"	A <sub>0</sub>	SL	10YR 3/2		FR, 10% S, C, B
23"	B <sub>w</sub>	SL	10YR 4/4	26" 7.5YR 4/6	FR 15% S, C, B
114"	C	SL	2.5Y 4/3	5Y 5/2 9"	Firm 15% S, C, B

Parent Material (geologic) Basal T. IIDepth to Bedrock 114

Depth to Groundwater: \_\_\_\_\_

Standing Water in the Hole -  
 Weeping from Pit Face -  
 Estimated Seasonal High Water 26"



**AMHERST HEALTH DEPT.  
TOWN OF AMHERST  
HEALTH PERMITS**

1928

Received of Amherst Building Co. LLC of 25 Main St Suite 445  
Name Address

For Property Located at: 281 Haven St Road H. B. C. Co.  
Street Address Owner

- |  |       |  |            |
|--|-------|--|------------|
| HEA009 Bakery<br>R6510 443509                    | _____ | HEA016 Septic Tank Permit-Installers<br>R6510 443511     | _____      |
| HEA001 Bed & Breakfast<br>R6510 443516           | _____ | HEA017 Septic Tank Permit-Private<br>R6510 443510        | <u>125</u> |
| HEA002 Catering License<br>R6510 443507          | _____ | HEA018 Septic Tank Reinspection Fee<br>R6510 432301      | _____      |
| HEA003 Food Handler<br>R6510 443515              | _____ | HEA019 Sub-Division Review Fee<br>R6510 432306           | _____      |
| HEA004 Frozen Deserts<br>R6510 443501            | _____ | HEA012 Swimming Pool Permits<br>R6510 443512             | _____      |
| HEA005 Health Dept. Housing Isp.<br>R6510 432302 | _____ | HEA020 Tanning License<br>R6510 443509                   | _____      |
| HEA006 Massage Therapy License<br>R6510 443504   | _____ | HEA034 Immunization Clinic<br>R6510 432307               | _____      |
| HEA008 Motel License<br>R6510 443506             | _____ | HEA026 Smoking & Tobacco Reg. Violations<br>R6510 443518 | _____      |
| HEA010 Removal of Offal<br>R6510 443513          | _____ | HEA022 Tobacco License<br>R6510 443505                   | _____      |
| HEA021 Removal of Rubbish<br>R6510 443520        | _____ | HEA042 Body Arts / Tatoo<br>R6510 443521                 | _____      |
| HEA011 Percolation Test Fees<br>R6510 432300     | _____ | HEA043 Food Service Plan Review<br>R6510 432308          | _____      |
| HEA013 Recreation Camp License<br>R6510 443503   | _____ | HEA044 Porta Potties<br>R6510 432309                     | _____      |
| HEA014 Retail Store Permit<br>R6510 443514       | _____ | HEA045 Ice Rinks<br>R6510 443522                         | _____      |
| HEA015 Sanitary Code Booklets<br>R6510 432305    | _____ | HEA046 Rental Registration<br>R6510 432310               | _____      |
|  |       | HEA047 Fines<br>R6510 48200                              | _____      |
|  |       | HEA  | _____      |
|  |       | HEA  | _____      |

**TOTAL FEE:** 125

*[Signature]*  
 Amherst Health Department



April 18 2006  
 Date

OFFICE USE ONLY	
CHECK #	CASH
12205	

Must be Validated by the Collector's Office to be considered paid

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
RESEARCH REPORT

RESEARCH REPORT  
NO. 1000

**AMHERST HEALTH DEPT.  
TOWN OF AMHERST  
HEALTH PERMITS**

**1928**

Received of Amherst Building Co LLC of 25 Main St Suite 475  
Name Address

For Property Located at: 281 Havenitt Road H. B. C. Co.  
Street Address Owner

- |  |       |  |            |
|--|-------|--|------------|
| HEA009 Bakery<br>R6510 443509                    | _____ | HEA016 Septic Tank Permit-Installers<br>R6510 443511     | _____      |
| HEA001 Bed & Breakfast<br>R6510 443516           | _____ | HEA017 Septic Tank Permit-Private<br>R6510 443510        | <u>125</u> |
| HEA002 Catering License<br>R6510 443507          | _____ | HEA018 Septic Tank Reinspection Fee<br>R6510 432301      | _____      |
| HEA003 Food Handler<br>R6510 443515              | _____ | HEA019 Sub-Division Review Fee<br>R6510 432306           | _____      |
| HEA004 Frozen Deserts<br>R6510 443501            | _____ | HEA012 Swimming Pool Permits<br>R6510 443512             | _____      |
| HEA005 Health Dept. Housing Isp.<br>R6510 432302 | _____ | HEA020 Tanning License<br>R6510 443509                   | _____      |
| HEA006 Massage Therapy License<br>R6510 443504   | _____ | HEA034 Immunization Clinic<br>R6510 432307               | _____      |
| HEA008 Motel License<br>R6510 443506             | _____ | HEA026 Smoking & Tobacco Reg. Violations<br>R6510 443518 | _____      |
| HEA010 Removal of Offal<br>R6510 443513          | _____ | HEA022 Tobacco License<br>R6510 443505                   | _____      |
| HEA021 Removal of Rubbish<br>R6510 443520        | _____ | HEA042 Body Arts / Tatoo<br>R6510 443521                 | _____      |
| HEA011 Percolation Test Fees<br>R6510 432300     | _____ | HEA043 Food Service Plan Review<br>R6510 432308          | _____      |
| HEA013 Recreation Camp License<br>R6510 443503   | _____ | HEA044 Porta Potties<br>R6510 432309                     | _____      |
| HEA014 Retail Store Permit<br>R6510 443514       | _____ | HEA045 Ice Rinks<br>R6510 443522                         | _____      |
| HEA015 Sanitary Code Booklets<br>R6510 432305    | _____ | HEA046 Rental Registration<br>R6510 432310               | _____      |
|  |       | HEA047 Fines<br>R6510 48200                              | _____      |
|  |       | HEA  | _____      |
|  |       | HEA  | _____      |

**TOTAL FEE:** 125

*[Signature]*  
 Amherst Health Department

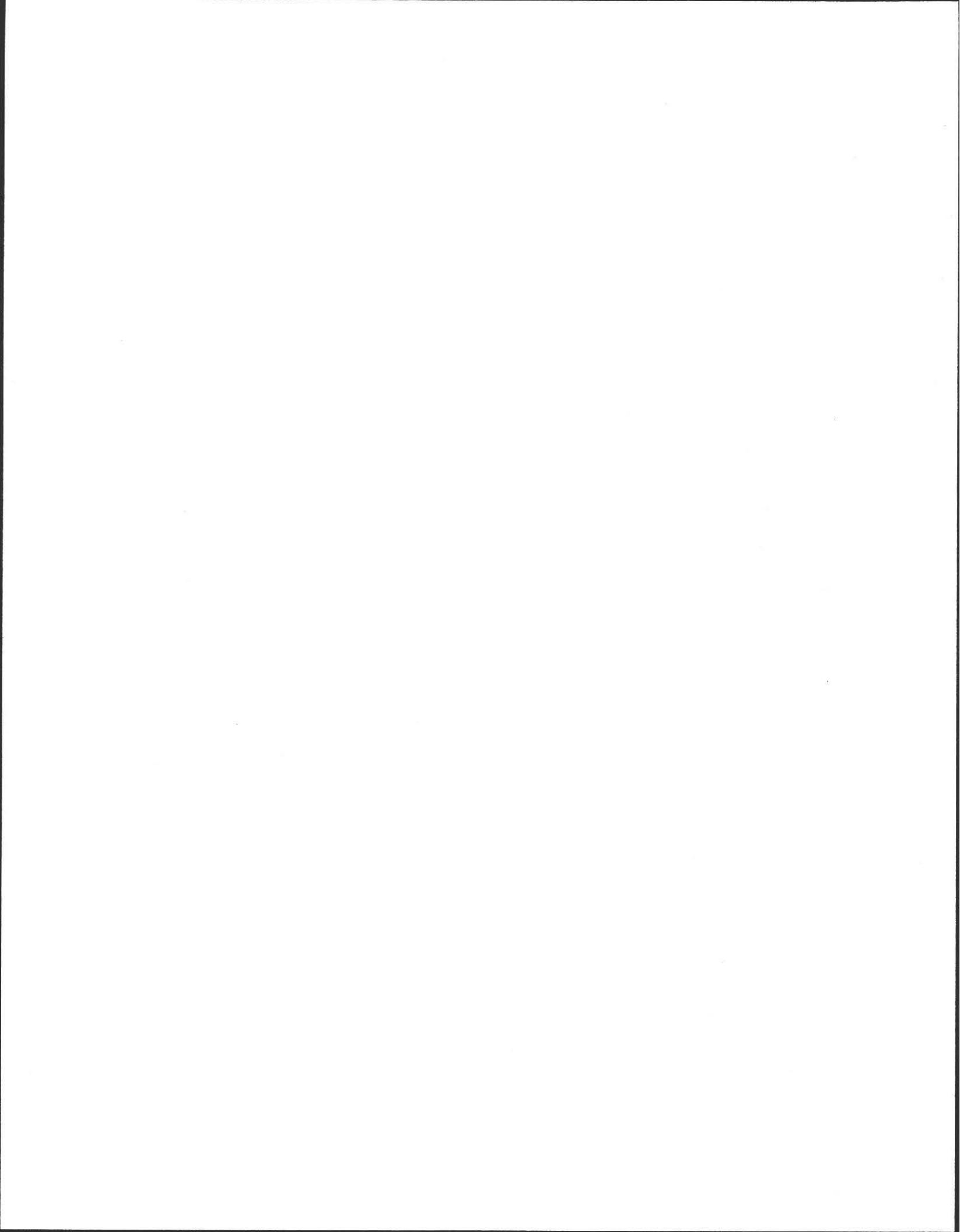


April 18 2006  
 Date

OFFICE USE ONLY

<b>CHECK #</b>	<b>CASH</b>
<u>12208</u>	

Must be Validated by the Collector's Office to be considered paid





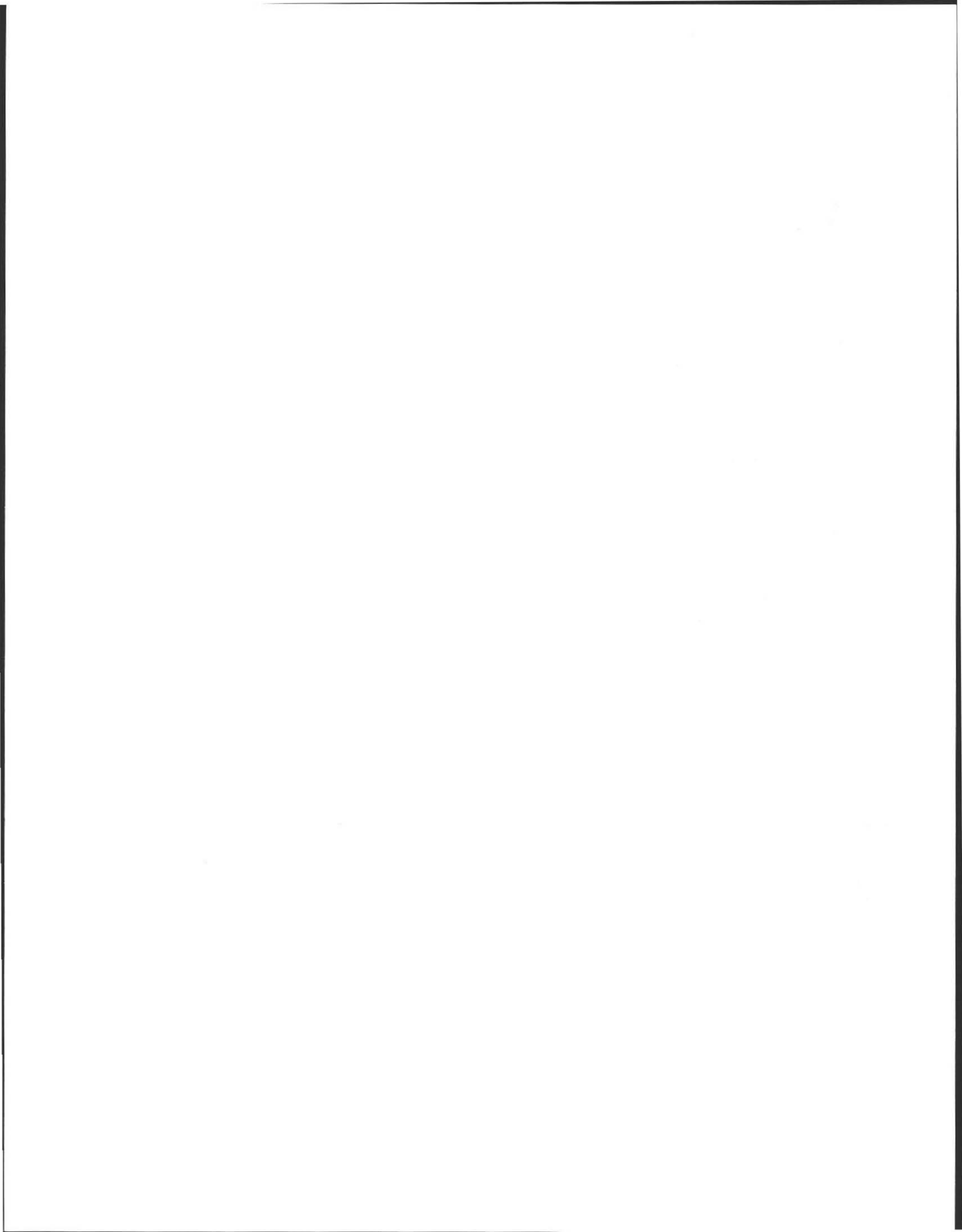
9/26/06  
281 Leverett Rd.

### Appendix A - System Installation Form

For each new or replacement installation, Massachusetts installers of Enviro-Septic® systems must complete and fax or mail a copy of this form to the local approving authority and to:

Presby Environmental, Inc.  
143 Airport Road  
Whitefield, NH 03598  
Fax: (603) 837-9864

Installer's Name: LML CONSTRUCTION, INC.		
Company Name: LML CONSTRUCTION, INC.		
Street Address: 608 LONG PLAIN RD.		
City: LEVERETT	State: MA	Zip: 01054
Property Owner: AMHERST BUILDING COMPANY		
Site Street Address: 281 LEVERETT RD.		
City: AMHERST	State: MA	Zip: 01002
System Type: (Residential, Commercial, School, etc.) RESIDENTIAL	Design Flow: 660GDC	
Installation Date: 9/12/2006	System Startup Date: 9/12/2006	
Permit Number: 06-03		
Comments:		



DISTANCE FOR High Vent  
well Location LOT 6

well STATEMENT

No wells within 100'

---

40 mill

Septic tank-leaching field systems which purport to improve  
tank-leaching field systems

"Proper Care and Maintenance"

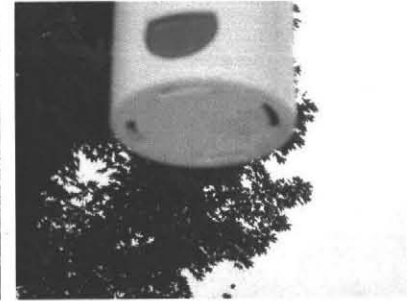
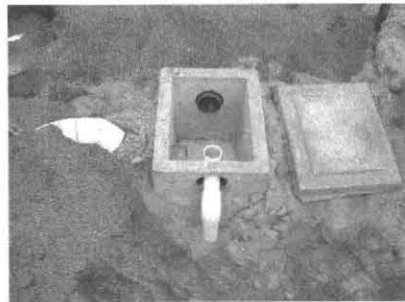
- (a) All private sewage disposal systems (as proposed) shall be inspected once every three years.
- (b) Septic tank cleaners shall be licensed and private sewage disposal systems shall be inspected.

"Flood Prone Area" - Those areas shown on the Official Zoning Map, title "Flood Prone District" (FPC) located in the City of...

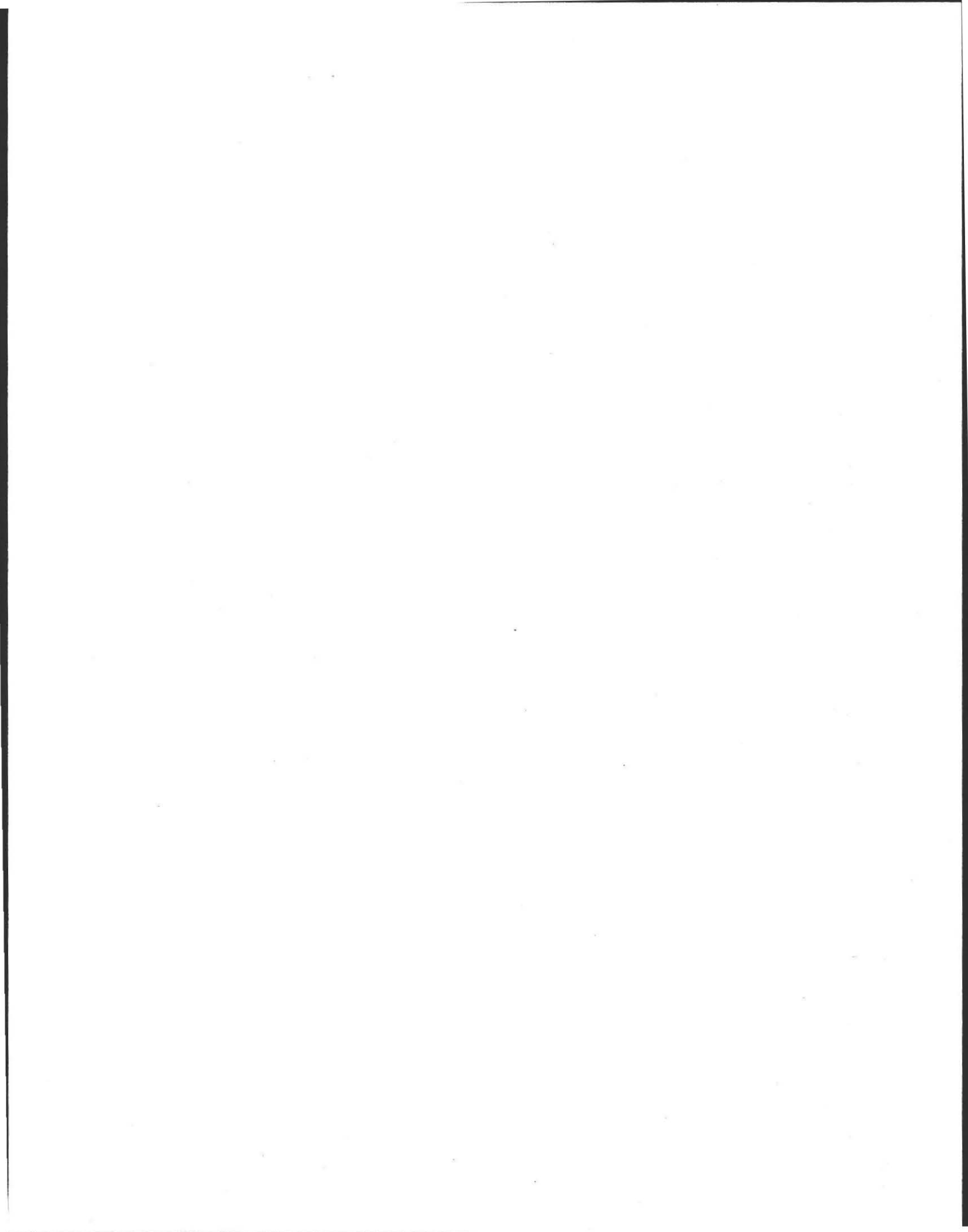
Section 2 - General Requirements

a. Volume of Sanitary Sewage

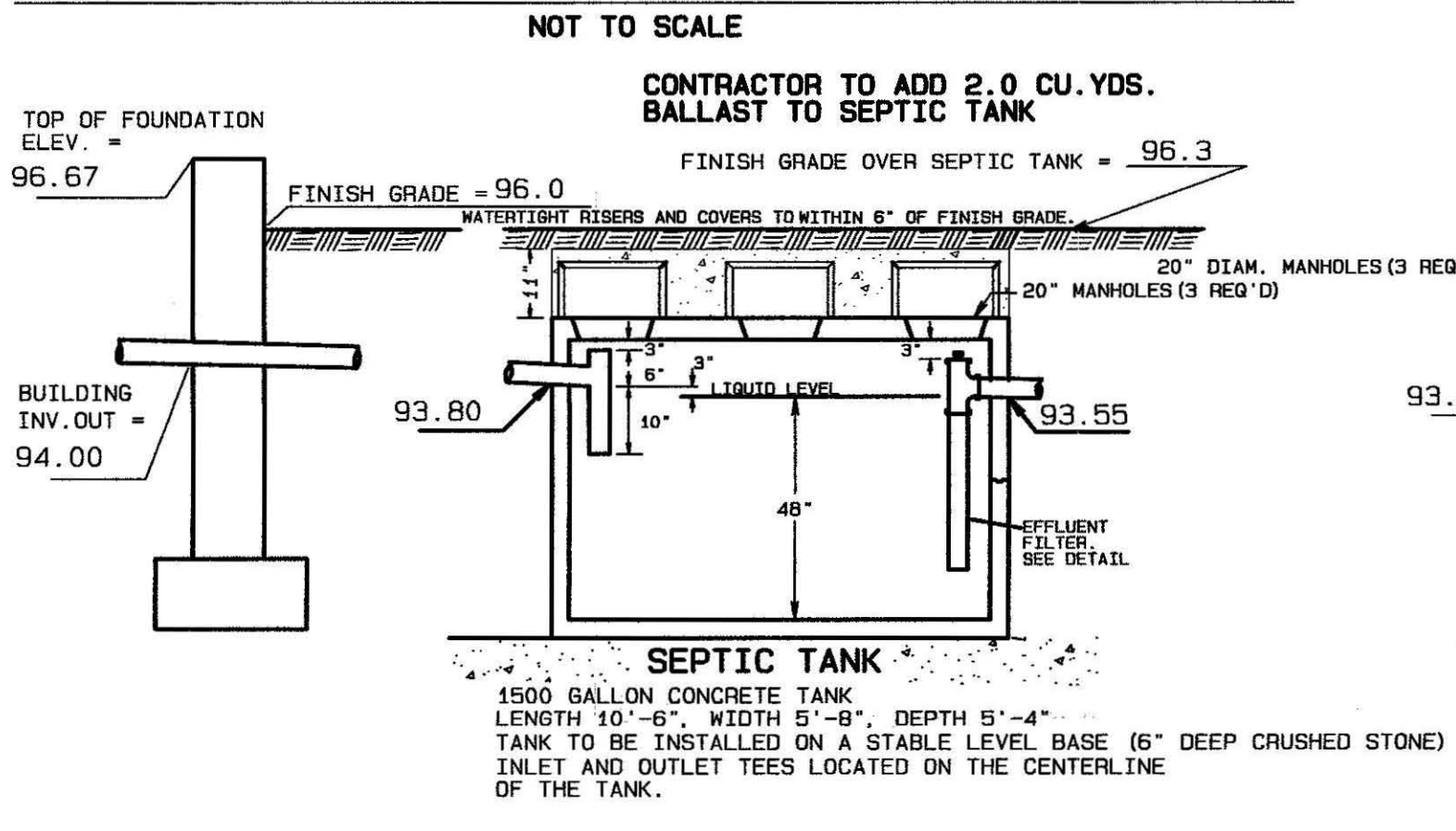
The size of the leaching field shall be determined from Table 15.03 (4) (e) (Leaching Field Design) (13) (Sewage Flow Estimation) and shall be less than 1 1/4 times the area as determined by these provisions.



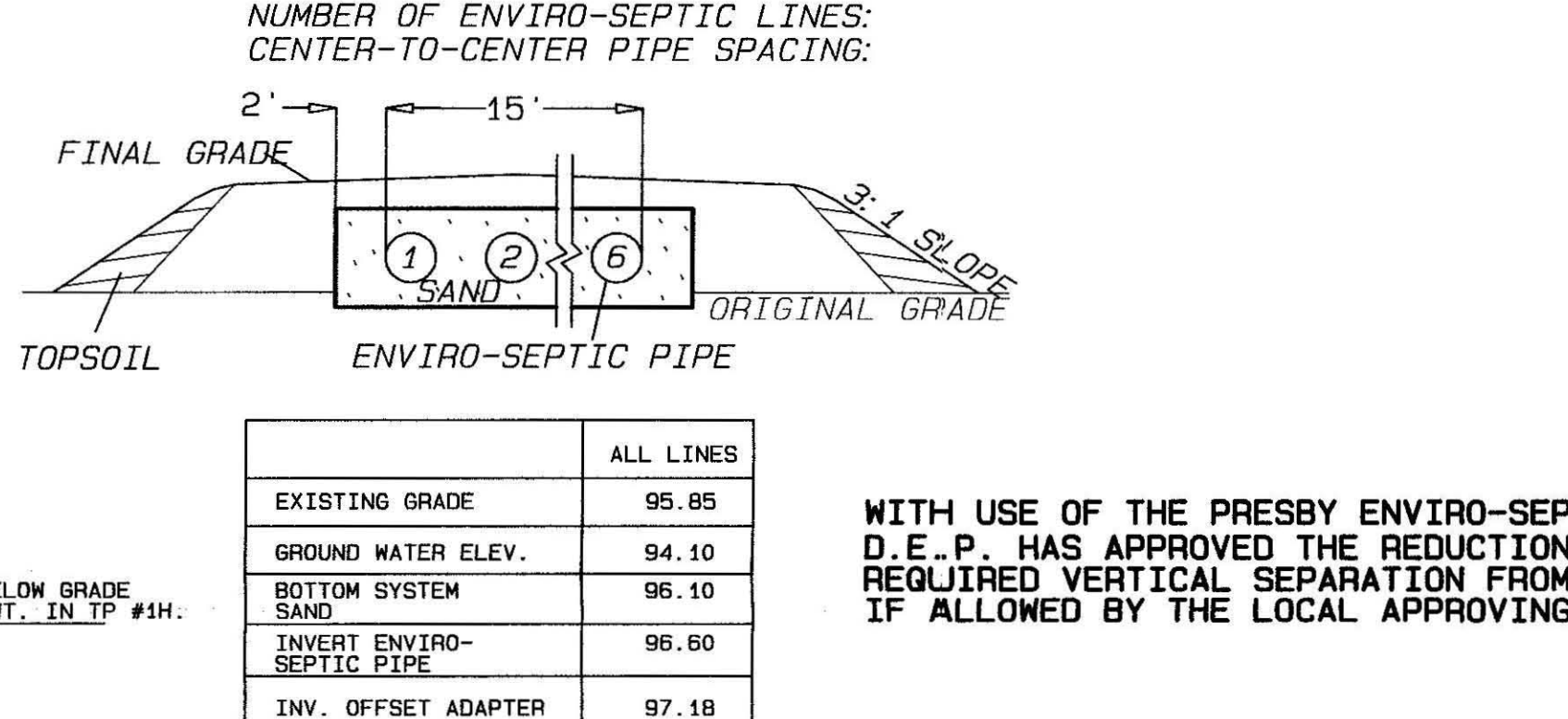
281 Leverett Road  
Final 9/14/06  
Installer: L & F Construction  
Engineer: McClay Associates



# SANITARY SYSTEM PROFILE



## EFFLUENT DISPOSAL AREA



### TEST PIT DATA

BOARD OF HEALTH WITNESS: DAVID ZAROZINSKI  
DATE: SEPTEMBER 23, 2002  
SOIL EVALUATOR: DOUGLAS J. MacLEAY, P.E.

TEST PIT #	PERC TEST ID	PERC RATE (MIN/IN)	PERC DEPTH (IN)
1H	2	35	44

**TEST PIT # 1H**

ELEV. TOP = 96.12  
ESHT = 94.37  
OBS. H2O = NONE  
BOTTOM = 86.62

**TEST PIT # 2H**

ELEV. TOP = 95.26  
ESHT = 93.09  
OBS. H2O = NONE  
BOTTOM = 85.76

HORIZON A0 SANDY LOAM 10YR 5/3	10"
HORIZON Bw SANDY LOAM 10YR 5/6	21"
Σ E.S.H.W.T.	22"
HORIZON C SANDY LOAM 2-3YR 4/3	26"

- NOTES:**
- THIS PLAN IS FOR THE REPAIR OF AN EXISTING FAILED SEPTIC SYSTEM. EXISTING FARMHOUSE: 2,856 SQ.FT., 5-BEDROOM, PROPOSED HOUSE (WITH GARAGE): 2,184 SQ.FT., 3-BDRM.
  - REMOVE TOPSOIL & SUBSOIL BENEATH THE LEACH FIELD AND TO 5' ON ALL SIDES OF THE FIELD. REPLACE WITH FILL MATERIAL MEETING THE SPECIFICATIONS OF 310 CMR 15.295(3). (TITLE 5, 310 CMR 15.295(3)).
  - PUMP AND ALARM TO BE ON SEPARATE CIRCUITS. (TITLE 5, CMR REG. 15.09(3)).
  - TITLE 5 REQUIRES OBSERVATION OF THE INSTALLED SYSTEM BY THE DESIGN ENGINEER AND A BOARD OF HEALTH MEMBER OR AGENT FOR THE BOARD OF HEALTH. THE SYSTEM MUST NOT BE BACKFILLED PRIOR TO OUR OBSERVATION. CONTACT OUR OFFICE AND THE BOARD OF HEALTH TWO BUSINESS DAYS BEFORE REQUESTED DATE FOR OBSERVATION.
  - ALL DISTURBED AREAS SHOULD BE LOADED, RAKED, FERTILIZED, SEEDED AND MULCHED AT THE COMPLETION OF CONSTRUCTION.
  - LEVEL SWITCHES ARE TO BE MOUNTED ON THE SPECIFIED STAINLESS STEEL SWITCH BRACKET OR APPROVED EQUAL. THEY ARE TO BE MOUNTED AWAY FROM THE PUMP INLET.
- PROPERTY LINE REFERENCE:**  
PROPERTY LINES AS SHOWN ARE BASED ON A PLAN OF LAND IN AMHERST, MASSACHUSETTS, PREPARED FOR NORTHAMPTON ASSOCIATES, INC. PREPARED BY H.L. EATON ASSOC. DATED OCTOBER 21, 2002.

- PUMP CHAMBER COMPONENTS SPECIFICATIONS**
- ALL COMPONENTS ARE TO BE AS SPECIFIED OR AN APPROVED EQUAL.
- 1- MEYERS #MWSO, 1/2 HP, SEWAGE PUMP (USE MOST EFFICIENT VOLTAGE AT SITE) (CAPABLE OF PASSING 2" SOLIDS)
  - 1- WATERGUARD S-12 CONTROL PANEL
  - 1- TA-101 HIGH WATER ALARM COMPLETE WITH LEVEL SWITCH
  - 1- SUBS-7 WATER PROOF JUNCTION BOX
  - 2- 2900-20 CONNERY LEVEL SWITCHES
  - 1- 100-4 LEVEL SWITCH BRACKET
  - CHECK VALVE (PVC OR BRONZE)
- ALL COMPONENTS LISTED ABOVE AVAILABLE AT:  
BLAKE PUMP COMPANY  
ADAMS ROAD, GREENFIELD, MA 01301  
(413) 773-3883
- PUMP CHAMBER TO BE 1000 GAL. SEPTIC TANK
  - PUMP ON/OFF LIQUID LEVEL CONTROLS TO BE SET TO PUMP DOWN 3 INCHES TO GIVE A 64.25 GAL. DOSE: 15 GAL. TO FILL FORCE MAIN, 49.25 GAL. DOSE TO LEACH FIELD.
  - ALARM CONTROLS TO BE ON SEPARATE CIRCUIT AND SET TO SOUND WHEN LIQUID LEVEL IS 30" ABOVE FLOOR OF TANK.
- DOSEING FREQUENCY  
REG. 15.204(1) (d): FIELD TO BE DOSED SEVEN TIMES PER DAY.

**BUOYANCY CALCULATIONS**

SEPTIC TANK

ASSUMPTION: ESTIMATED SEASONAL HIGH WATER TABLE (EHW) IN VICINITY OF TANK TO BE 1.5 FEET ABOVE EXISTING GRADE.

ESTIMATED GRADE: 96.3

ASSUME 1000 GALLON TANK #ST1500 ATC (W/ 310 CMR 15.295(3)).  
WALLS 3" THICK, TOP AND BOTTOM 4" THICK.

AT TANK: GROUNDWATER (EHW) = 94.30

ELEV. TOP OF TANK = 94.50  
ELEV. INVERT OUT = 93.20  
ELEV. BOTTOM OF TANK = 88.67

VOLUME OF DISPLACED WATER = 5'-6" x 5'-8" x 5'-4" x 1.5' = 223 CU.FT.  
WEIGHT OF DISPLACED WATER = 223 CU.FT. x 62.4 LB./CU.FT. = 13912 LB.

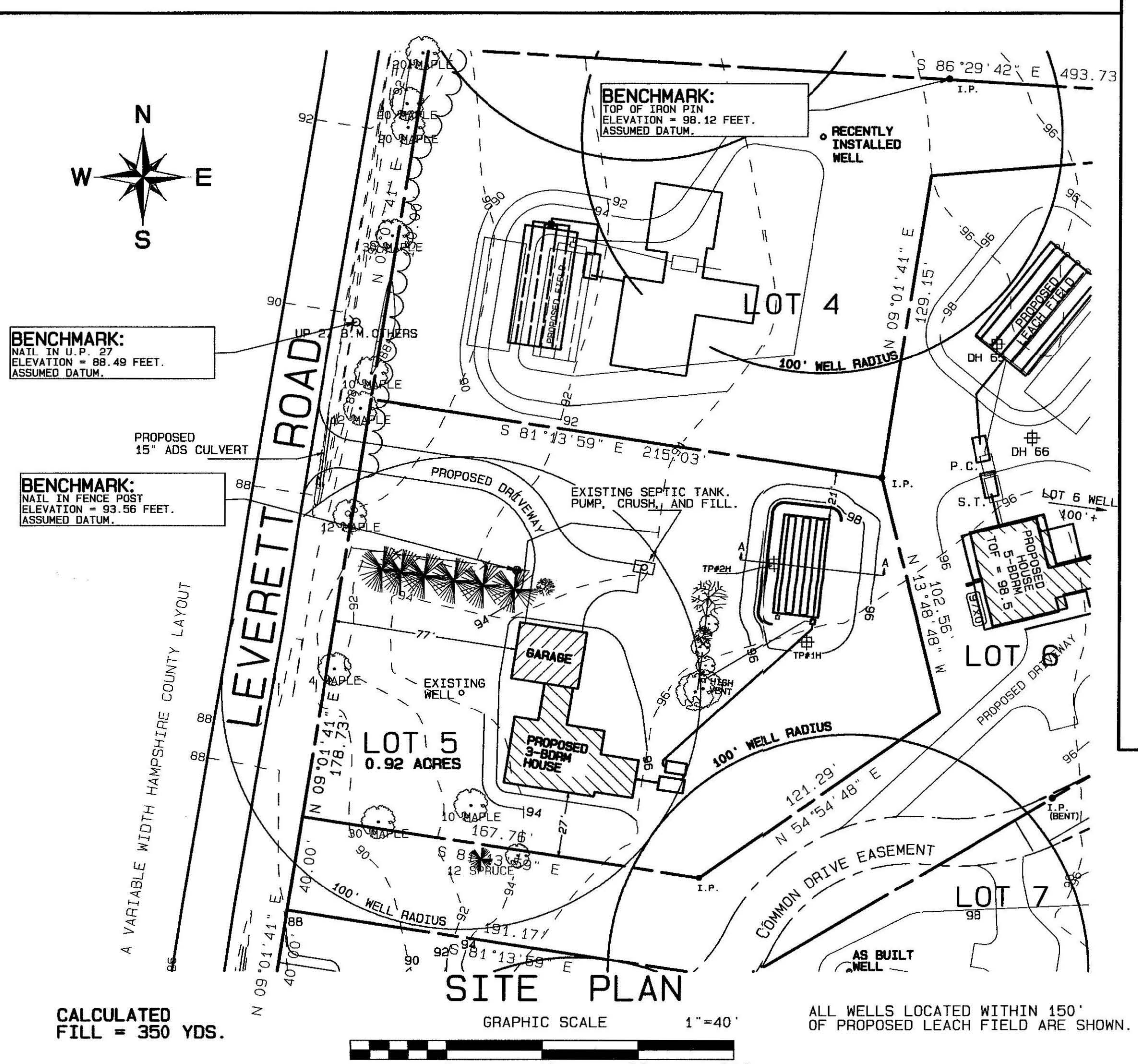
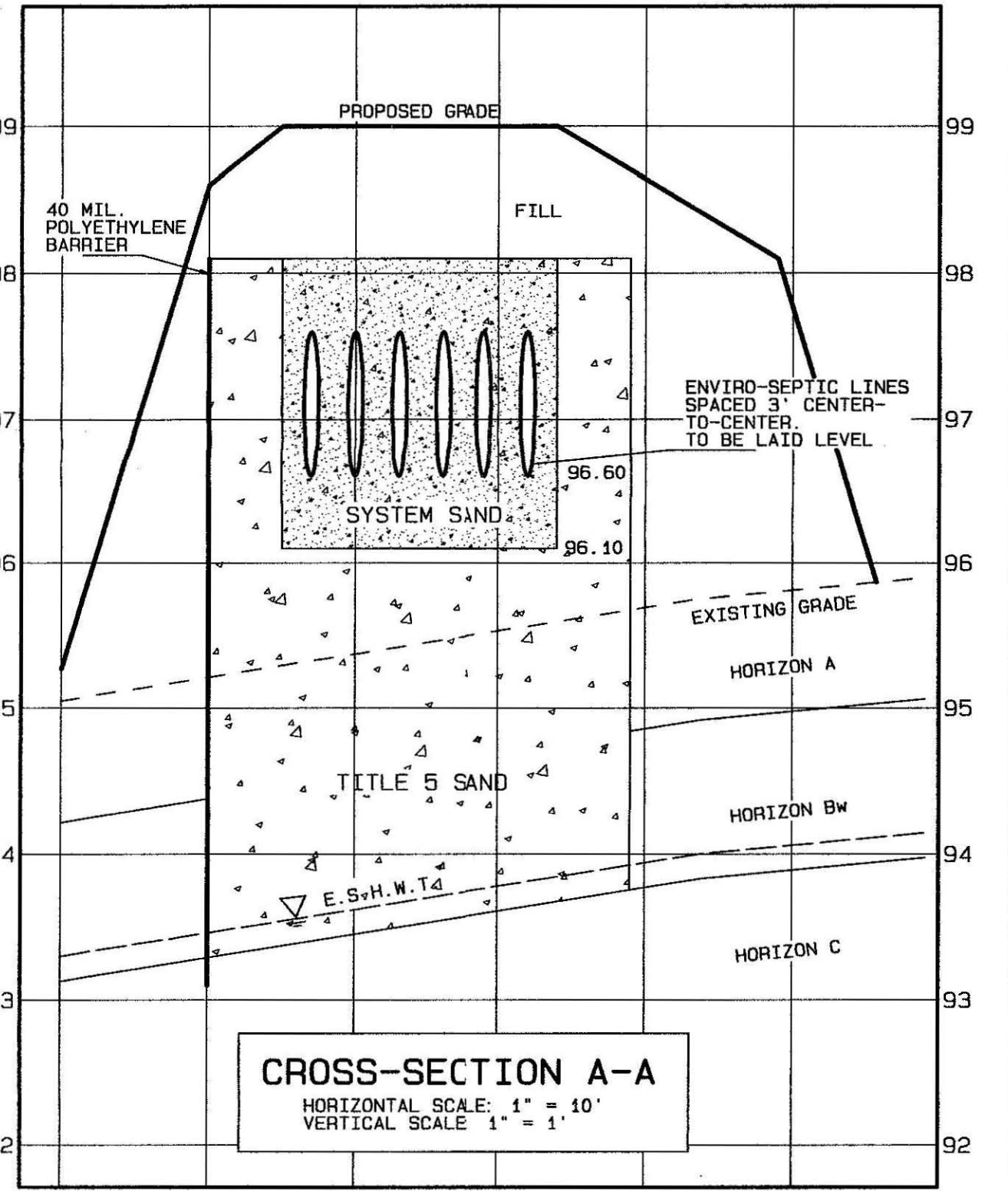
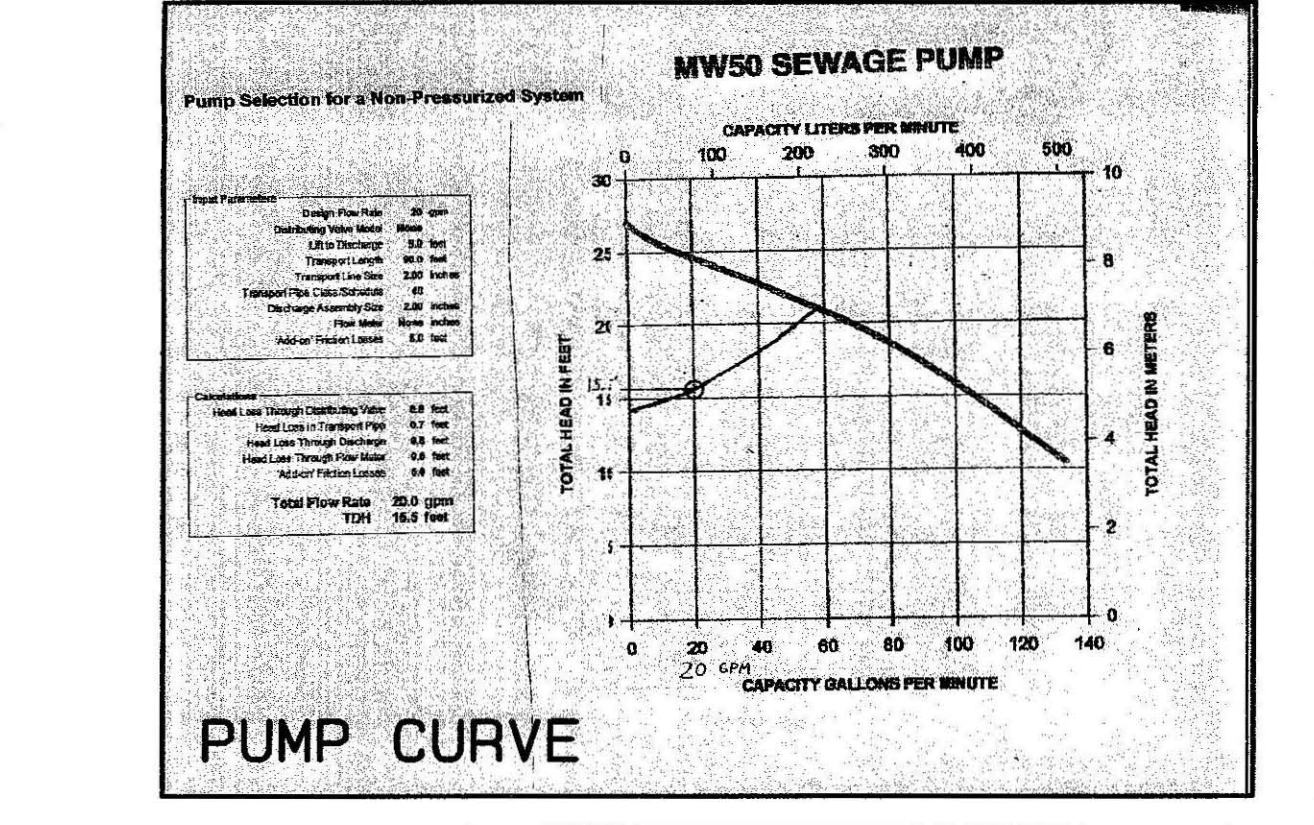
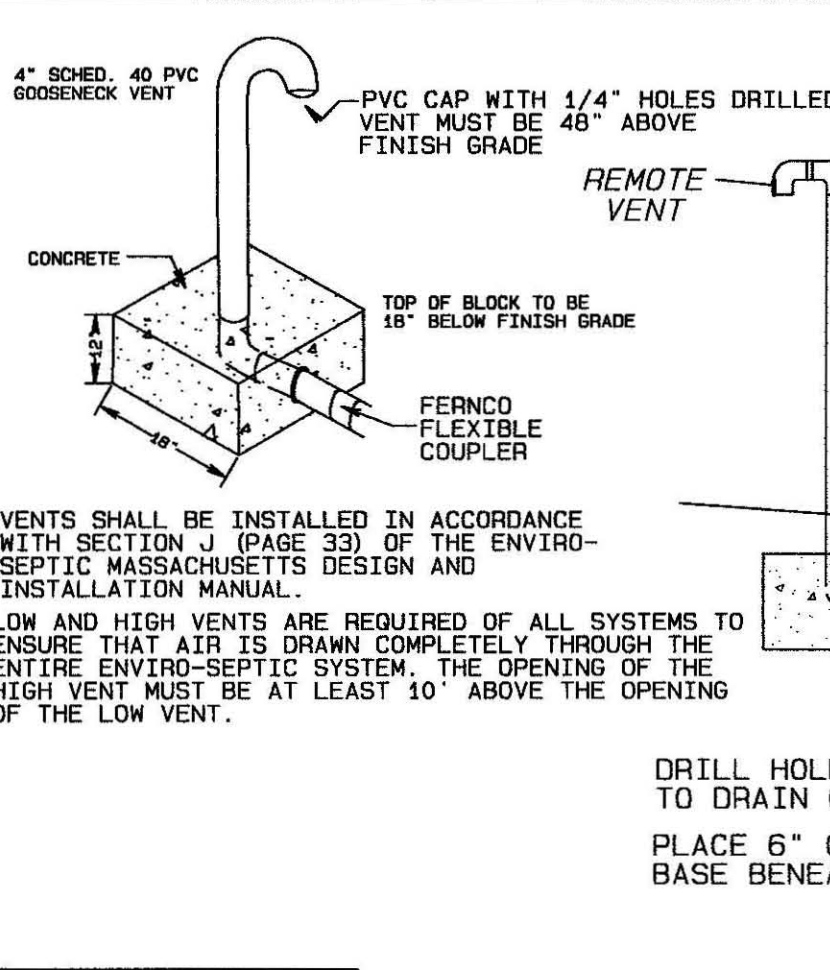
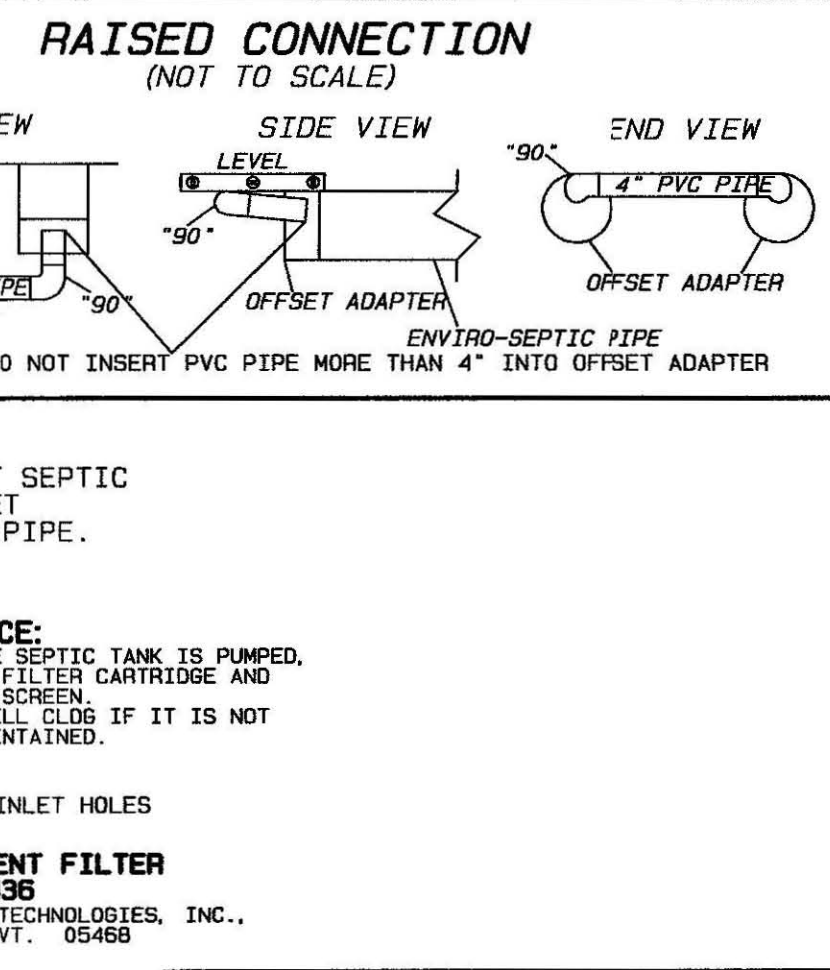
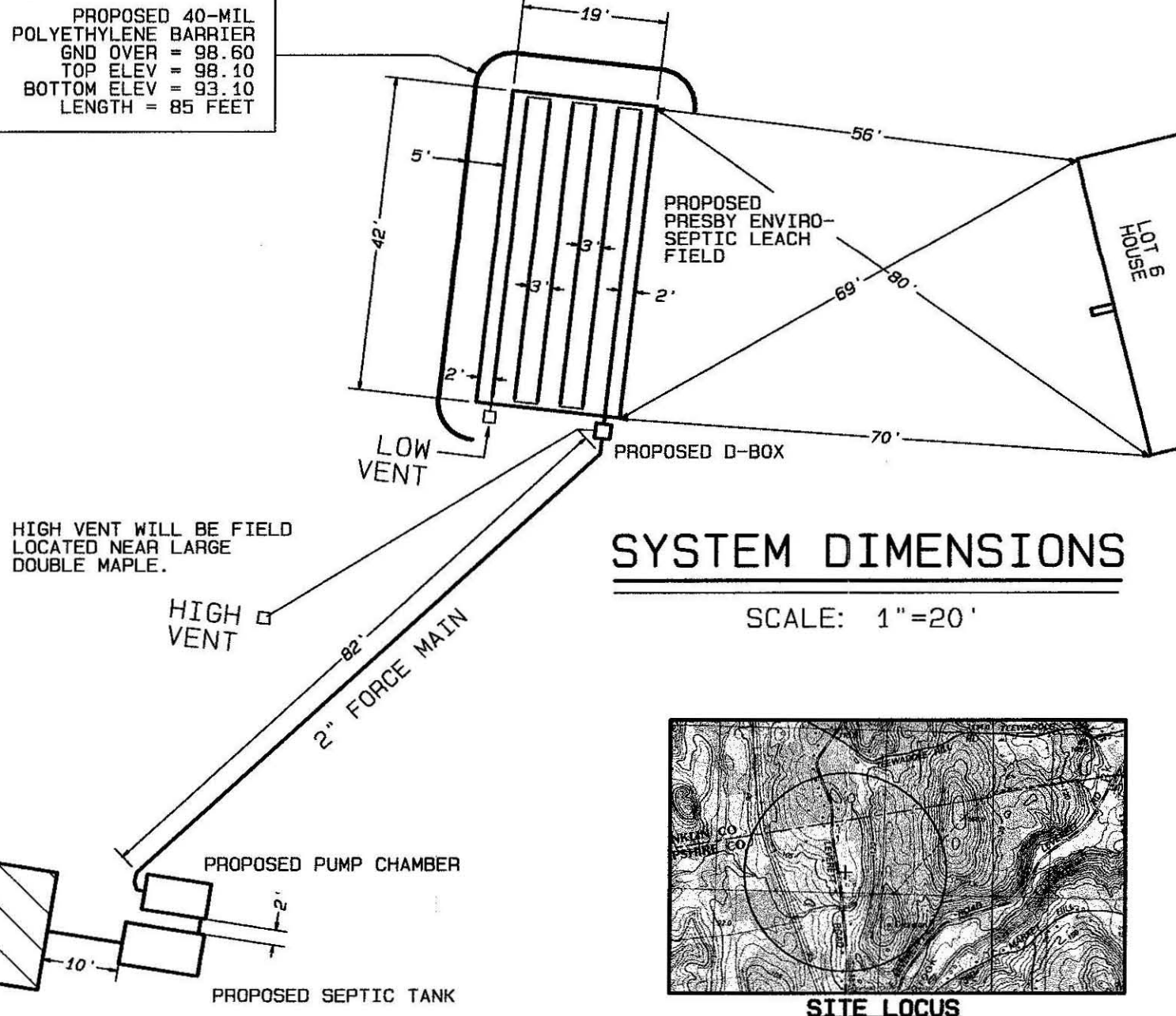
WEIGHT OF TANK PER WELLSO CATALOG = 8000 LB.

WEIGHT OF SOIL OVER TANK:  
CONTRACTOR TO PLACE 14" OF CONCRETE ON THE TOP OF THE TANK.  
VOLUME OF BALLAST = 2'-0" x 5'-8" x 5'-4" = 64.8 CU.FT. x 120 LB./CU.FT. = 7776 LB.

WEIGHT OF CONCRETE BALLAST:  
CONTRACTOR TO PLACE 14" OF CONCRETE ON THE TOP OF THE TANK.  
VOLUME OF BALLAST = 5'-6" x 5'-8" x 5'-4" = 178.5 CU.FT. x 150 LB./CU.FT. = 26775 LB.

WEIGHT OF TANK AND SOIL COVER AND CONCRETE BALLAST:  
8000 + 7776 + 26775 = 32551 LB.

WEIGHT OF SAFETY:  
8000 x 1.25 = 10000 LB. = 1.25 - FACTOR OF SAFETY



**DESIGN DATA**

DESIGN BASED ON SINGLE FAMILY RESIDENCE

DESIGN FLOW 110 GALLON PER DAY PER BEDROOM (3)

TOTAL DESIGN FLOW 330 GALLON PER DAY.

SEPTIC TANK

330 GALLONS X 200% = 660 GALLONS DESIGN CAPACITY.

USE NEW 1500 GALLON SEPTIC TANK.

**PRESBY ENVIRO-SEPTICLEACHING SYSTEM**  
(REFER TO DESIGN MANUAL)

FROM SECTION M (PAGE 37) OF THE MASSACHUSETTS DESIGN AND INSTALLATION MANUAL TO OBTAIN YOUR REQUIRED LEACH FIELD ENTER THE CHART WITH THE 35 MIN/IN PERC RATE AND A 35 MIN/IN PERC RATE AND YOU FIND YOU NEED A MINIMUM OF 210 LINEAR FEET OF ENVIRO-SEPTIC PIPE. WE HAVE DESIGNED 6 LINES AT 40' IN LENGTH FOR A TOTAL OF 240 LINEAR FEET OF ENVIRO-SEPTIC PIPE.

FROM SECTION M (PAGE 38) OF THE MASSACHUSETTS DESIGN AND INSTALLATION MANUAL TO OBTAIN YOUR REQUIRED CENTER-TO-CENTER SPACING ENTER THE CHART WITH THE 35 MIN/IN PERC RATE AND OUR PERCENTAGE OF SYSTEM SLOPE WHICH WE FOUND TO BE <10% YOU FIND THE MINIMUM CENTER-TO-CENTER SPACING OF 2.0'. WE HAVE DESIGNED FOR A SPACING OF 3.0' CENTER-TO-CENTER.

FROM SECTION M (PAGE 40) OF THE MASSACHUSETTS DESIGN AND INSTALLATION MANUAL TO OBTAIN YOUR REQUIRED MINIMUM SAND BED AREA ENTER THE CHART WITH 3 BEDROOMS AND A 35 MIN/IN PERC RATE AND YOU FIND YOU NEED A MINIMUM 792 SQ. FT. SAND BED. WE HAVE DESIGNED A 42' x 19' SAND BED FOR A TOTAL OF 792 SQ. FT.

**PRESBY ENVIRO-SEPTIC LEACHING SYSTEM HAS BEEN APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION SEE CERTIFICATION FOR GENERAL USE DATED NOVEMBER 21, 2005 TRANSMITTAL NUMBER #N055433.**

SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST DEALER CONTACT PRESBY ENVIRONMENTAL, INC., ROUTE 117 - PO BOX 617 SUGAR HILL, NH 03585 - PHONE 1-800-473-5298 - WWW.PRESBYENVIRONMENTAL.COM

- GENERAL NOTES**
- FROM HOUSE OUT TO SEPTIC TANK USE 4" SCHEDULE 40 PVC MINIMUM GRADE: 1/4 INCH PER FOOT (2%)
  - FROM SEPTIC TANK TO PUMP CHAMBER USE 4" SCHEDULE 40 PVC MINIMUM GRADE: 1/8 INCH PER FOOT (1%)
  - FROM PUMP CHAMBER TO D-BOX USE 2" SCHED. 40 PVC MINIMUM DRAWBACK GRADE: 1/8 INCH PER FOOT (1%)
  - 12" PRESBY ENVIRO-SEPTIC PIPE TO BE USED IN LEACHING AREA.
  - ALL PIPES IN THE DISPOSAL SYSTEM SHALL HAVE WATERTIGHT JOINTS.
  - AMHERST BOARD OF HEALTH MUST BE NOTIFIED WHEN SYSTEM IS NEARLY COMPLETE AND PRIOR TO BACKFILLING. ELEVATIONS BASED ON ASSUMED DATUM
  - UNLESS OTHERWISE NOTED, ALL SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH TITLE 5 OF THE STATE SANITARY CODE AND ANY APPLICABLE LOCAL RULES.
  - ANY CHANGE TO THIS PLAN MUST BE APPROVED BY THE BOARD OF HEALTH AND THE DESIGN ENGINEER.
  - THIS SYSTEM IS NOT DESIGNED FOR A GARBAGE GRINDER.

**LEGEND**

- 100 --- EXISTING CONTOURS
- 100 --- PROPOSED CONTOURS
- 4" SCHEDULE 40 PVC PIPE
- 2" SCHEDULE 40 FORCE MAIN PVC PIPE
- 12" PRESBY ENVIRO-SEPTIC PIPE
- EDGE OF WETLAND
- PROPERTY LINE
- AS-BUILT

**SHEET NO. 1 OF 1.**

SCALE: AS SHOWN  
APPROVED: DOUGLAS J. MacLEAY  
DRN. BY: J.M.  
CHECKED: D.M.

DATE: APRIL 10, 2006  
JOB NO. 2002-072-5

TITLE: SUBSURFACE SEWAGE DISPOSAL PLAN IN AMHERST, MASS.  
FOR: AMHERST BUILDING COMPANY  
281 LEVERETT ROAD

**MacLeay Associates, Inc.** civil engineers  
102 Bridge Street, Shelburne Falls, MA 01370  
phone: (413) 625-9774 fax: (413) 625-9704 email: dmacleay@comcast.net