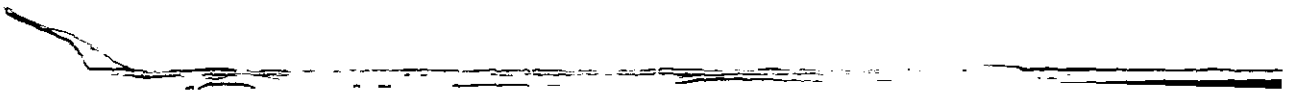


147 BAY ROAD





—

o



Commonwealth of Massachusetts
 City/Town of Amherst
Certificate of Compliance
 Form 3

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

This is to Certify that the following work on an On-Site Sewage Disposal System

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



- Construction of a new system
- Repair or replacement of an existing system
- Repair or replacement of an existing system component

Has been done in accordance with Title 5 and the Disposal System Construction Permit (DSCP):

12-07 DSCP Number 8-17-2011 DSCP Date
Amaro R. Ferreira and Dulcinea M. Dos Santos Facility Owner
147 Bay Road Street Address or Lot #
Amherst City/Town MA State 01002 Zip Code

Designer Information:

Paul M. Styspeck, PE / Robert Stover Name Amherst Environmental Services Name of Company
Robert Stover Signature 10-17-2012 Date Amherst Environmental Services 10/17/12

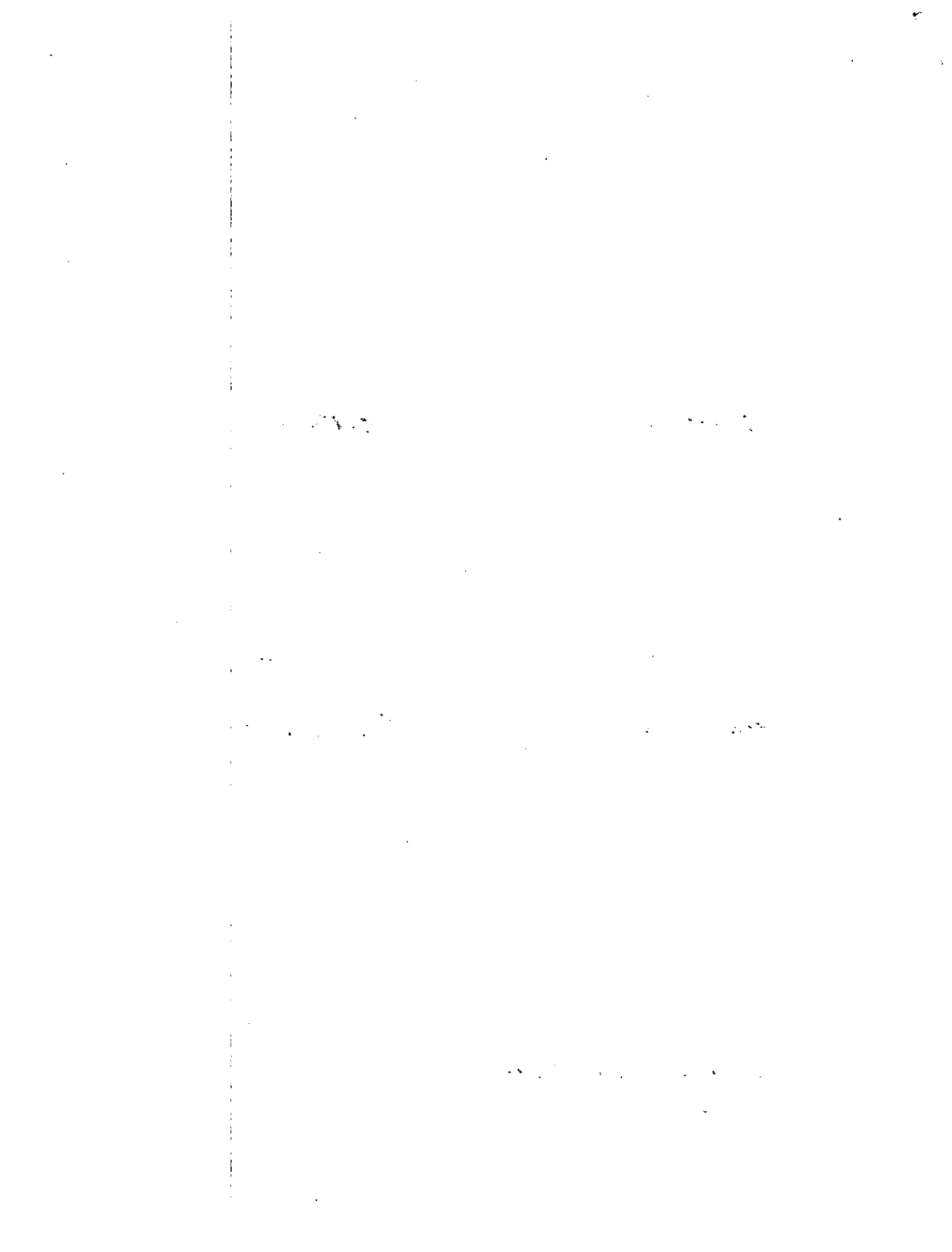
Installer Information:

GRANDY SEPTIC Name GREG EVERSON Name of Company
 Signature Date

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.

AMHERST Bd. OF HEALTH Approving Authority 9-21-2011 Date
Edward P. Smith Signature



Oct. 16. 2012 12:31PM Amherst Public Health

No. 2334 P. 2



Commonwealth of Massachusetts
City/Town of Amherst
Certificate of Compliance
Form 3

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

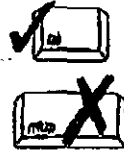
This is to Certify that the following work on an On-Site Sewage Disposal System

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

- Construction of a new system
- Repair or replacement of an existing system
- Repair or replacement of an existing system component

Has been done in accordance with Title 5 and the Disposal System Construction Permit (DSCP):

12-017 8-24-2011
 DSCP Number DSCP Date
Amaro R. Ferreira and Dulcinea M. Dos Santos
 Facility Owner
147 Bay Road
 Street Address or Lot #
Amherst MA 01002
 City/Town State Zip Code



Designer Information:

Paul M. Styspeck, PE Robert Stover Amherst Environmental Services
 Name Name of Company

 Signature Date

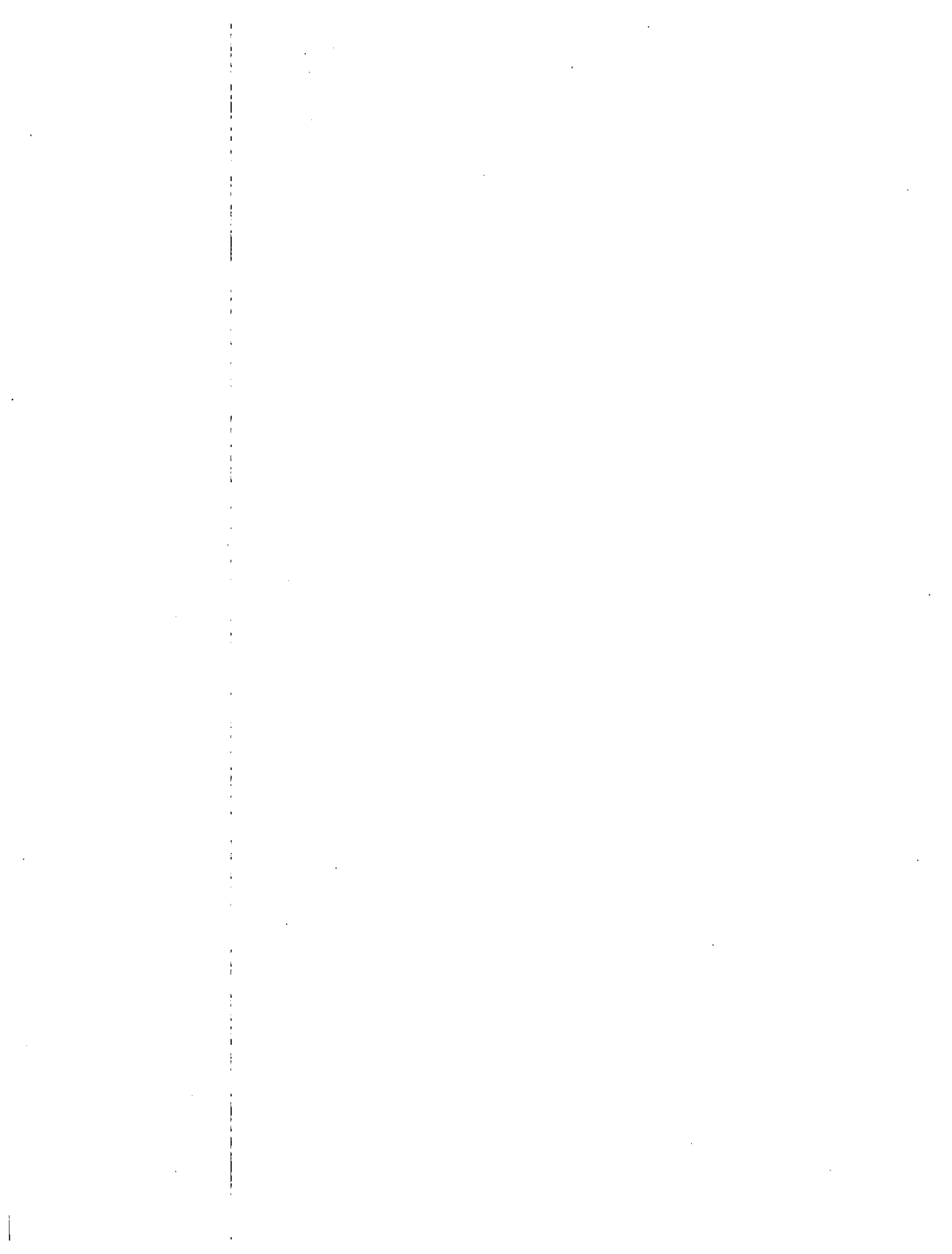
Installer Information:

GRANDY SEPTIC EVERSON
 Name Name of Company
[Signature] 10-18-12
 Signature Date

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.

Amherst Bd. of Health 9-21-2011
 Approving Authority Date
[Signature]
 Signature



FAX

10/16/2012

Number of pages including cover sheet 2

TO

**Greg
Everson**

Phone

Fax Phone 413.536.4564

FROM

Edmund Smith

Amherst Health Department

Bangs Community Center

70 Boltwood Walk

Amherst, MA 01002

Phone

(413) 259-3153

Fax Phone

(413) 259-2404

E-Mail

smithe@amherstma.gov

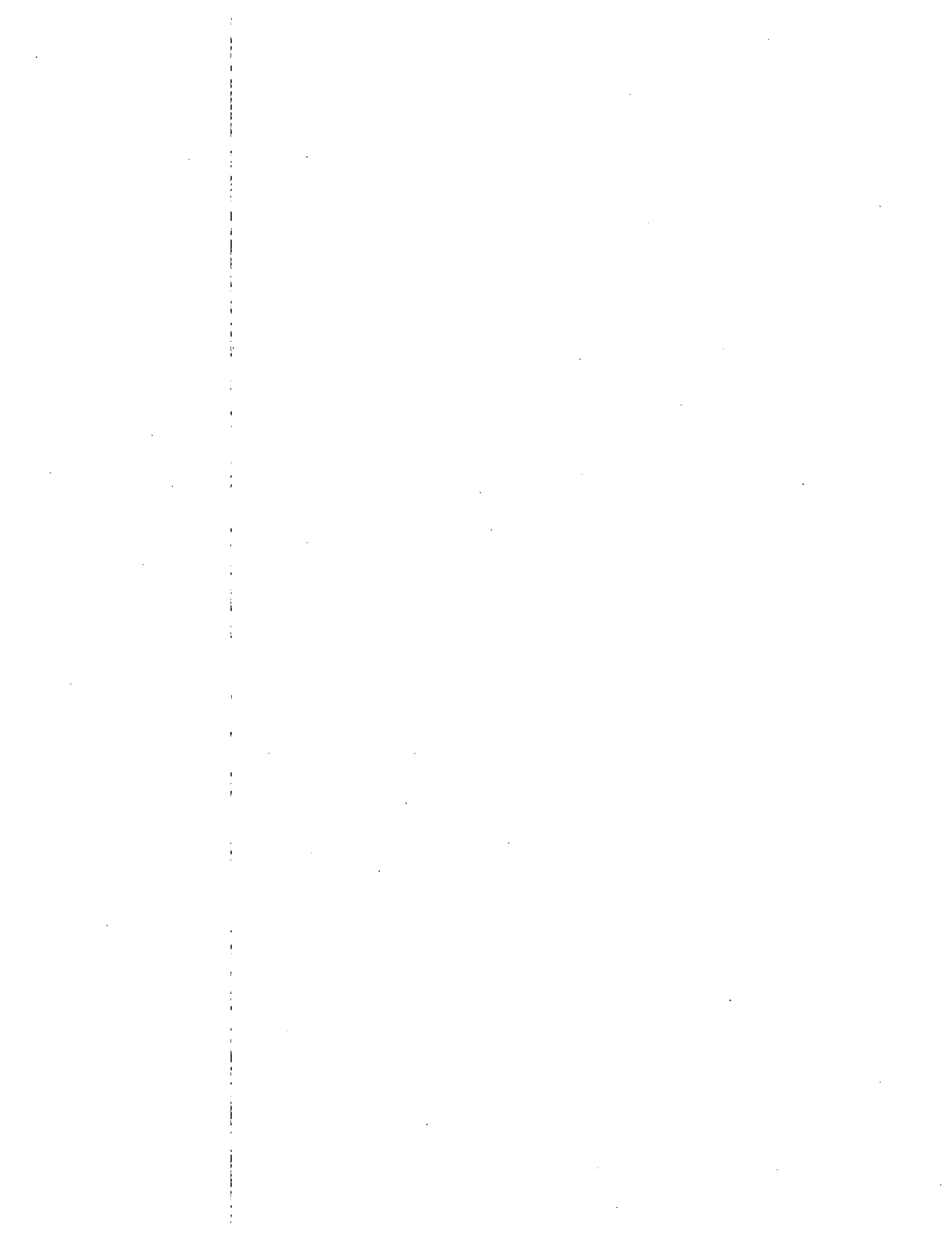
REMARKS: Urgent For your review Reply ASAP Please Comment

Hi Greg –

Please sign off on this form and fax it back to me (259-2404)

Thanks,

Ed



* * * Communication Result Report (Oct. 16. 2012 12:32PM) * * *

1) Amherst Public Health
2)

Date/Time: Oct. 16. 2012 12:31PM

File No. Mode	Destination	Pg(s)	Result	Page Not Sent
2334 Memory TX	914135364564	P. 2	OK	

Reason for error
 mmm. 1) Hang up or line fail
 . 2) No answer
 . 3) Exceeded max. E-mail size
 . 4) E. 2) Busy
 . 5) E. 4) No facsimile connection

FAX

10/16/2012
Number of pages including cover sheet 2

TO
 Greg
 Everaon

Phone
Fax Phone 413.536.4564

FROM Edmond Smith
 Amherst Health Department
 Bangs Community Center
 70 Bolswood Walk
 Amherst, MA 01002

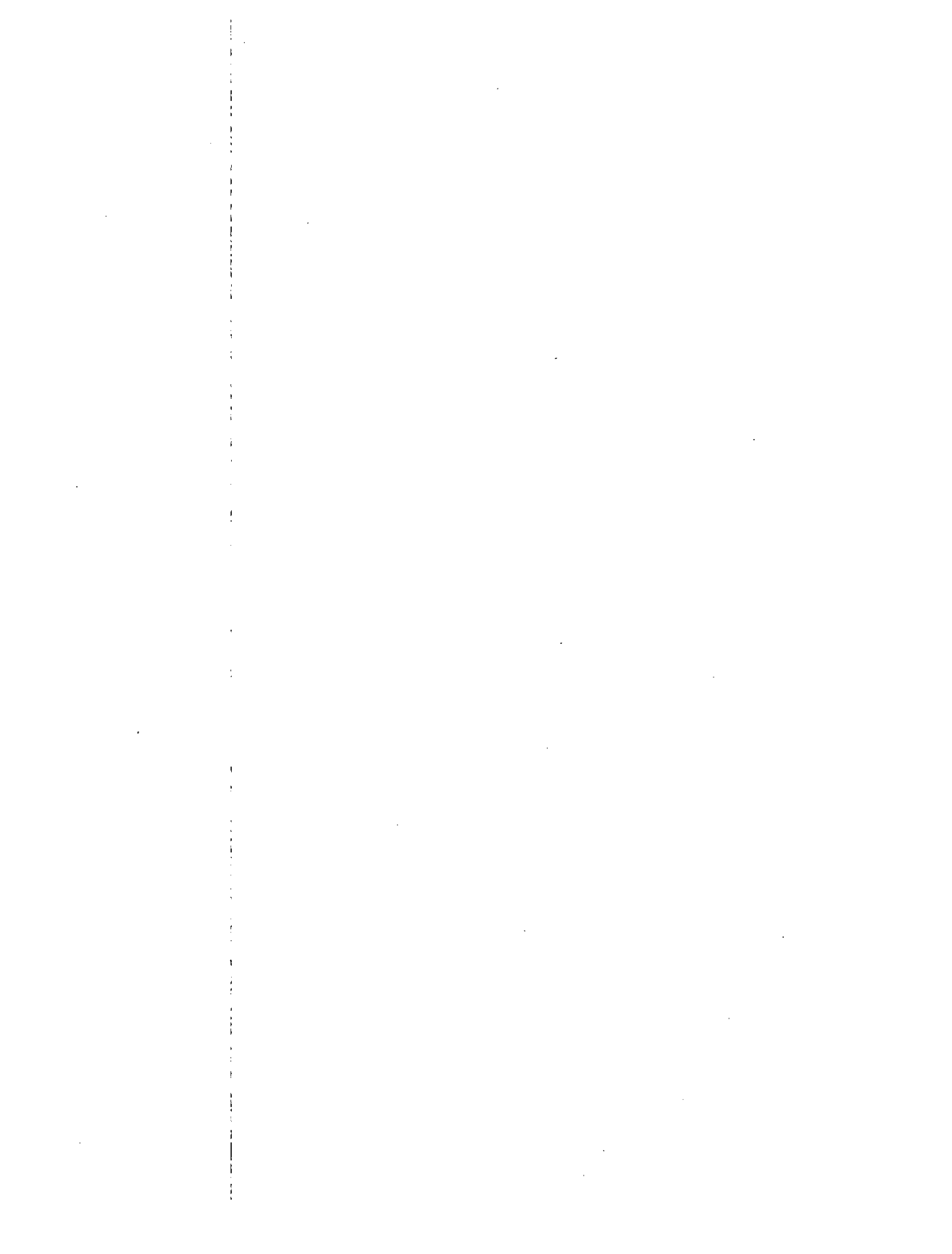
Phone (413) 259-3153
Fax Phone (413) 259-2404
E-Mail smith@amherstma.gov

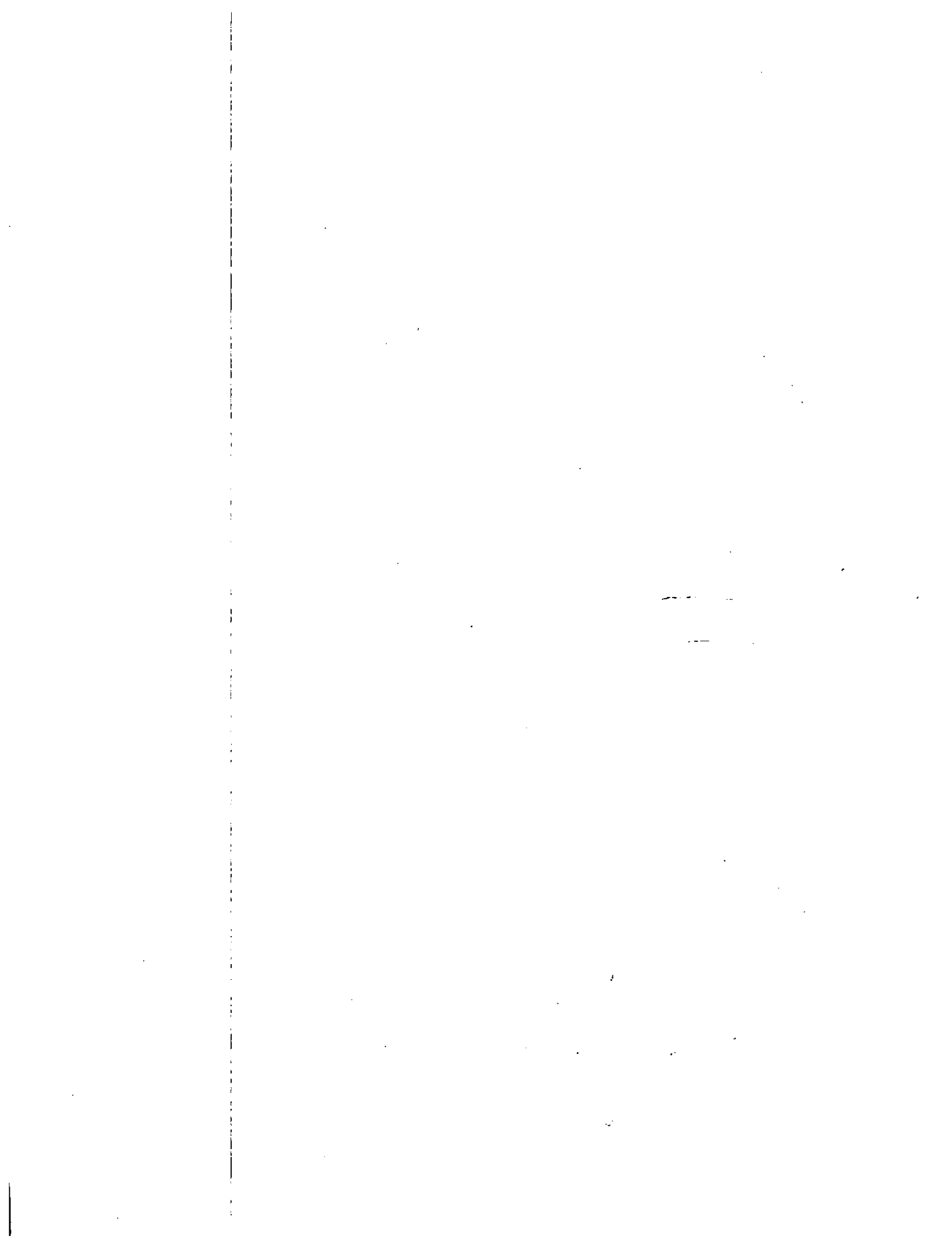
REMARKS: Urgent For your review Reply ASAP Please Comment

Hi Greg ~

Please sign off on this form and fax it back to me (259-2404)

Thanks,
 Ed





PERMITS/INSP PAYMENT RECPT#: 12017391
TOWN OF AMHERST
TOWN HALL
4 BOLTWOOD AVENUE
AMHERST MA 01002

DATE: 08/19/11 TIME: 14:04
CLERK: publichea DEPT:

PAID BY:
PAYMENT METH: CHECK 1679

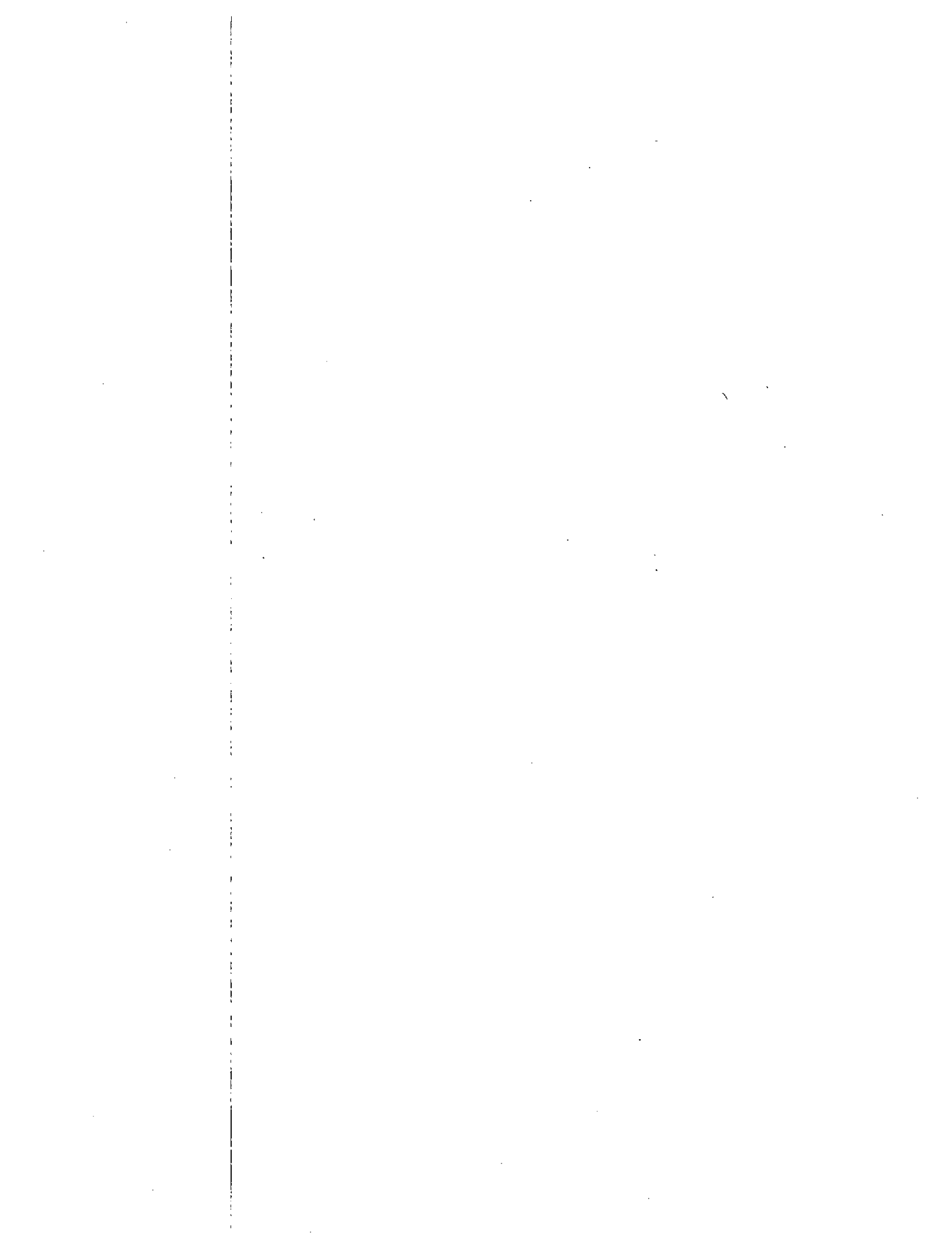
REFERENCE:

AMT TENDERED: 200.00
AMT APPLIED: 200.00
CHANGE: .00

SITE ADDRESS: 147 BAY ROAD

FEES:
HEA058 200.00

TOTAL PAID: 200.00



PERMITS/INSP PAYMENT RECPT#: 12017392
TOWN OF AMHERST
TOWN HALL
4 BOLTWOOD AVENUE
AMHERST MA 01002

DATE: 08/19/11 TIME: 14:23
CLERK: publichea DEPT:

PAID BY:
PAYMENT METH: CHECK 1679

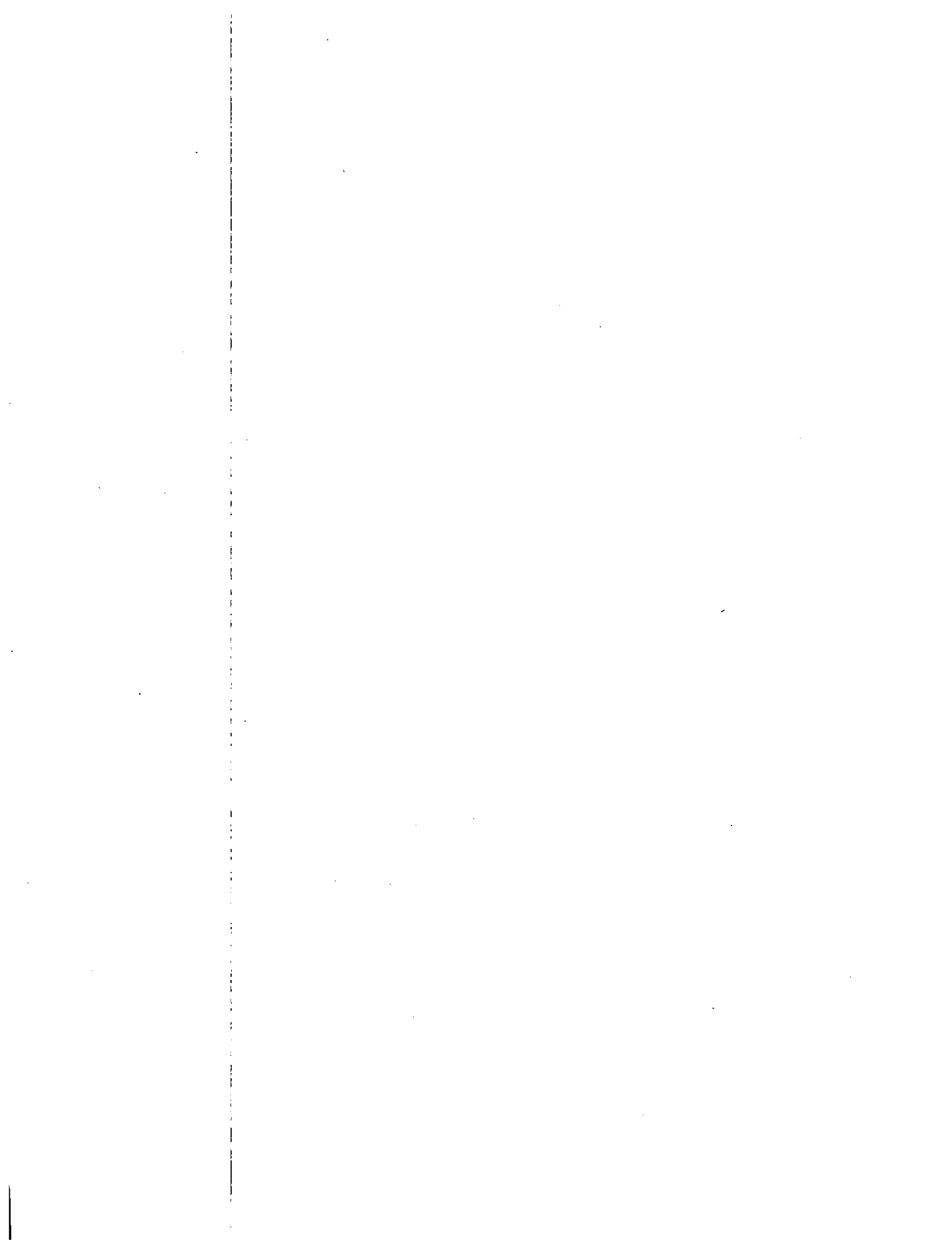
REFERENCE:

AMT TENDERED: 150.00
AMT APPLIED: 150.00
CHANGE: .00

SITE ADDRESS: 147 BAY ROAD

FEEs:
HEA017 150.00

TOTAL PAID: 150.00





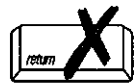
Commonwealth of Massachusetts
 City/Town of Amherst
Local Upgrade Approval
 Form 9B

DEP has provided this form for use by local Boards of Health if they choose to do so.

The Local Upgrade Approval is to be completed by the local Board of Health and a signed copy provided to the system owner.

A. Facility Information

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



1. Facility Name and Address

Dulcinea M. Dos Santos and Amaro R. Ferreira

Name

147 Bay Road

Street Address

Amherst

City/Town

MA

State

01002

Zip Code

2. Owner Name and Address (if different from above):

same

Name

Street Address

City/Town

State

(413) 253-9834

Telephone Number

Zip Code

3. Type of Facility (check all that apply):

Residential

Institutional

Commercial

School

4. Design flow per 310 CMR 15.203:

330
gpd

5. System Designer:

Paul M. Styspeck, PE / Robt

PE

RS

Stover

P. O. Box 3312

Address

Amherst

City/Town

MA 01004-3312

State, ZIP

B. Approval

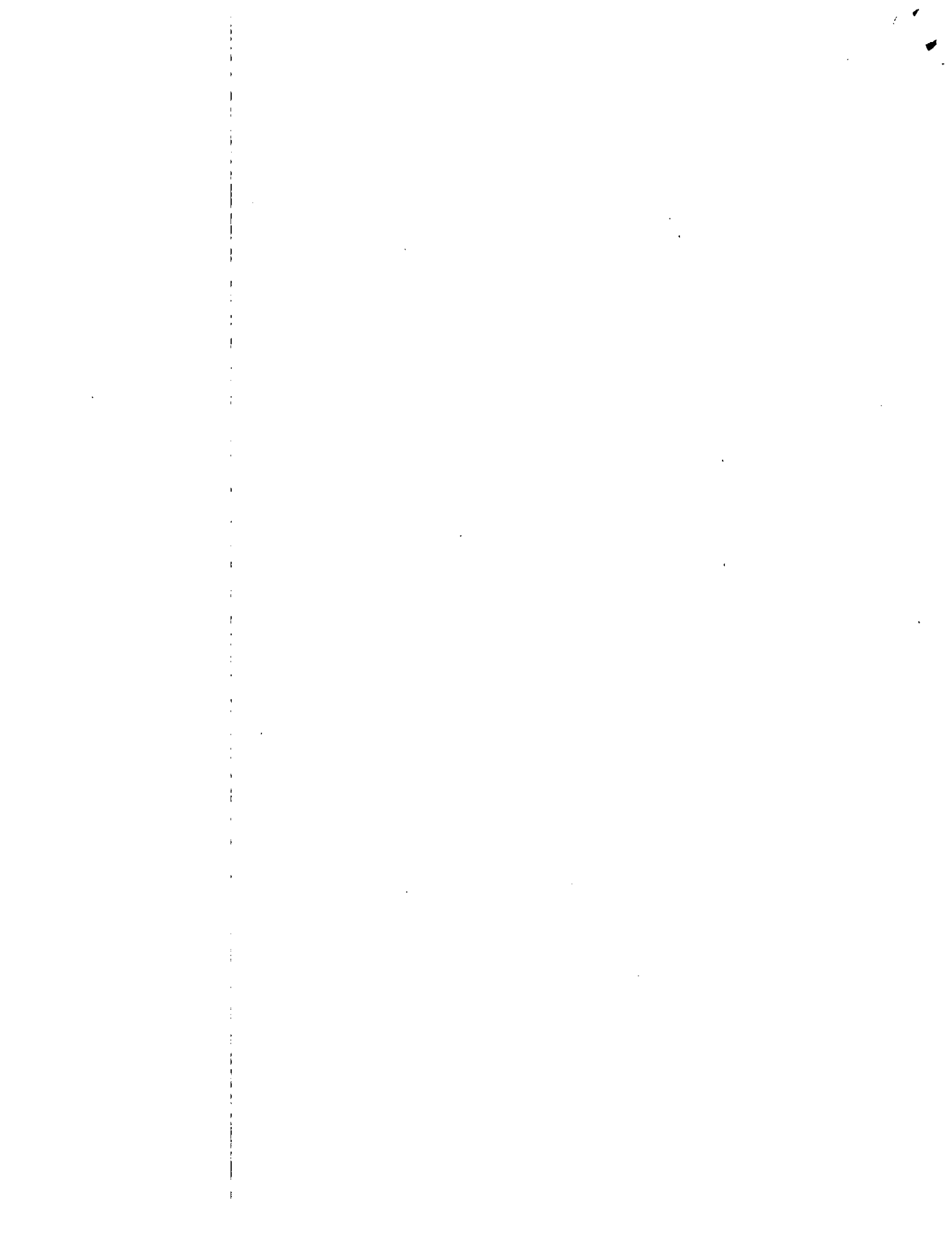
1. Local Upgrade Approval is granted for:

Reduction in setback(s) – specify:

Reduction in SAS area of up to 25%:

 SAS size, sq. ft.

 % reduction





Commonwealth of Massachusetts
 City/Town of Amherst
Local Upgrade Approval
 Form 9B

B. Approval (continued)

- Reduction in separation between the SAS and high groundwater:

Separation reduction	from 5.00 to 4.27
	ft.
Percolation rate	less than 2
	min./inch
Depth to groundwater	87-inches
	ft.

- Relocation of water supply well (explain):

- Reduction of 12-inch separation between inlet and outlet tees and high groundwater
- Use of only one deep hole in proposed disposal area
- Use of a sieve analysis as a substitute for a perc test

List local variances granted not requiring DEP approval per 310 CMR 15.412(4):

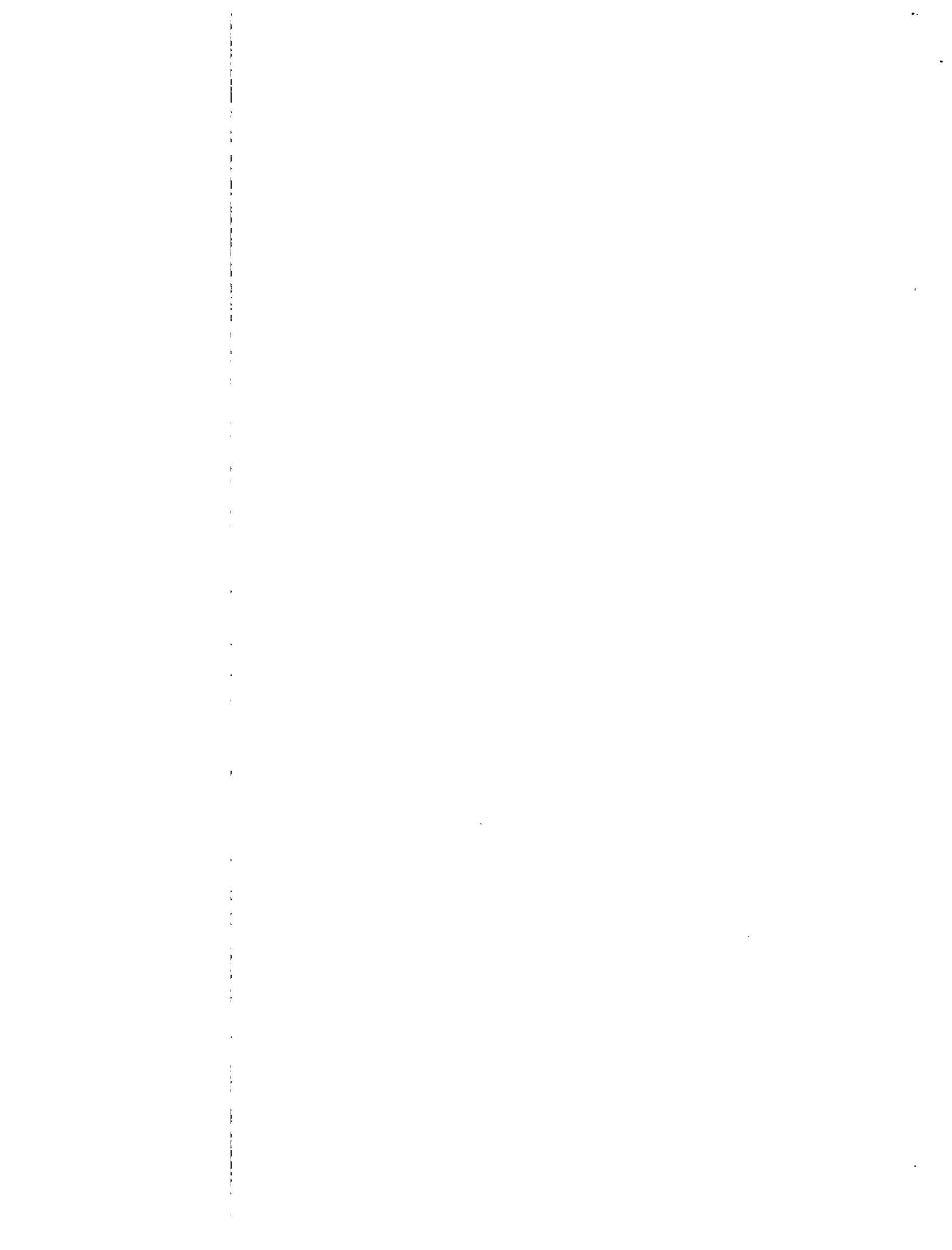
List variances granted requiring DEP approval:

 Approving Authority

 Print or Type Name and Title

 Signature

 Date





Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee _____

DEP has provided this form for use by local Boards of Health if they choose to do so. Before using the form, check with your local Board of Health to make sure that they will accept it.

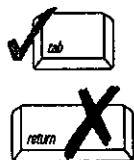
A. Facility Information

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

Application is hereby made for a permit to: Construct a new on-site sewage disposal system
 Repair or replace an existing on-site sewage disposal system
 Repair or replace an existing system component

1. Location of Facility:

147 Bay Road
 Address or Lot #
 Amherst MA 01002
 City/Town State Zip Code



2. Owner Information

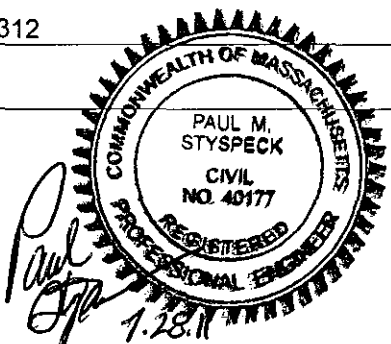
Dulcinea M. Dos Santos and Amaro R. Ferreira
 Name
 same
 Address (if different from above)
 City/Town State Zip Code
 (413) 253-9834
 Telephone Number

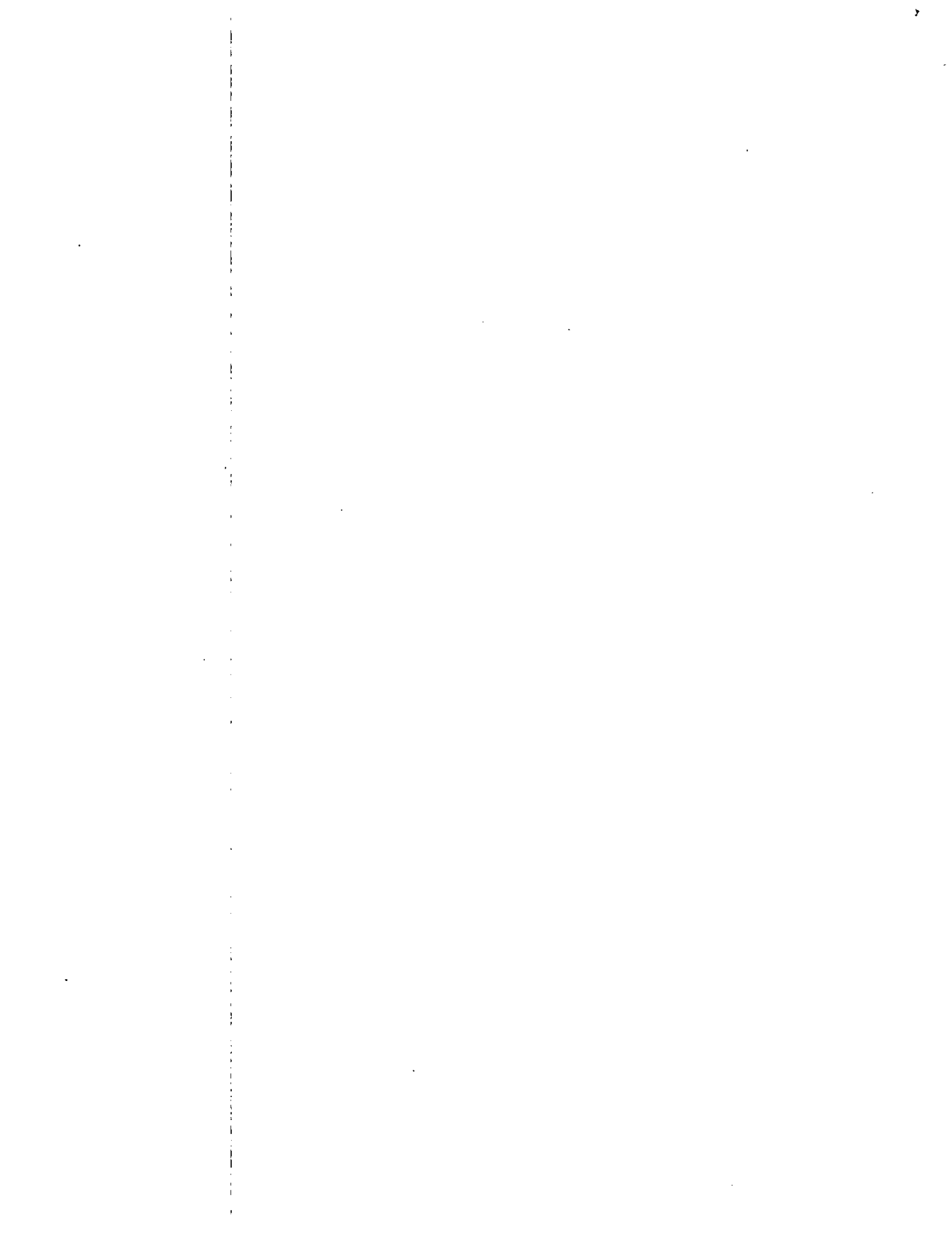
3. Installer Information

Name _____ Name of Company _____
 Address _____
 City/Town State Zip Code
 Telephone Number _____

4. Designer Information

Paul M. Styspeck, PE / Robert Stover Amherst Environmental Services
 Name Name of Company
 P. O. Box 3312
 Address
 Amherst MA 01004-3312
 City/Town State Zip Code
 (413) 256-3400
 Telephone Number







Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee

A. Facility Information (continued)

5. Type of Building:

- Dwelling Garbage Grinder (check if present)

Other: Type of Building _____ Number of Persons Served _____

- Showers Number of showers _____ Cafeteria Other fixtures _____

Specify other fixtures: _____

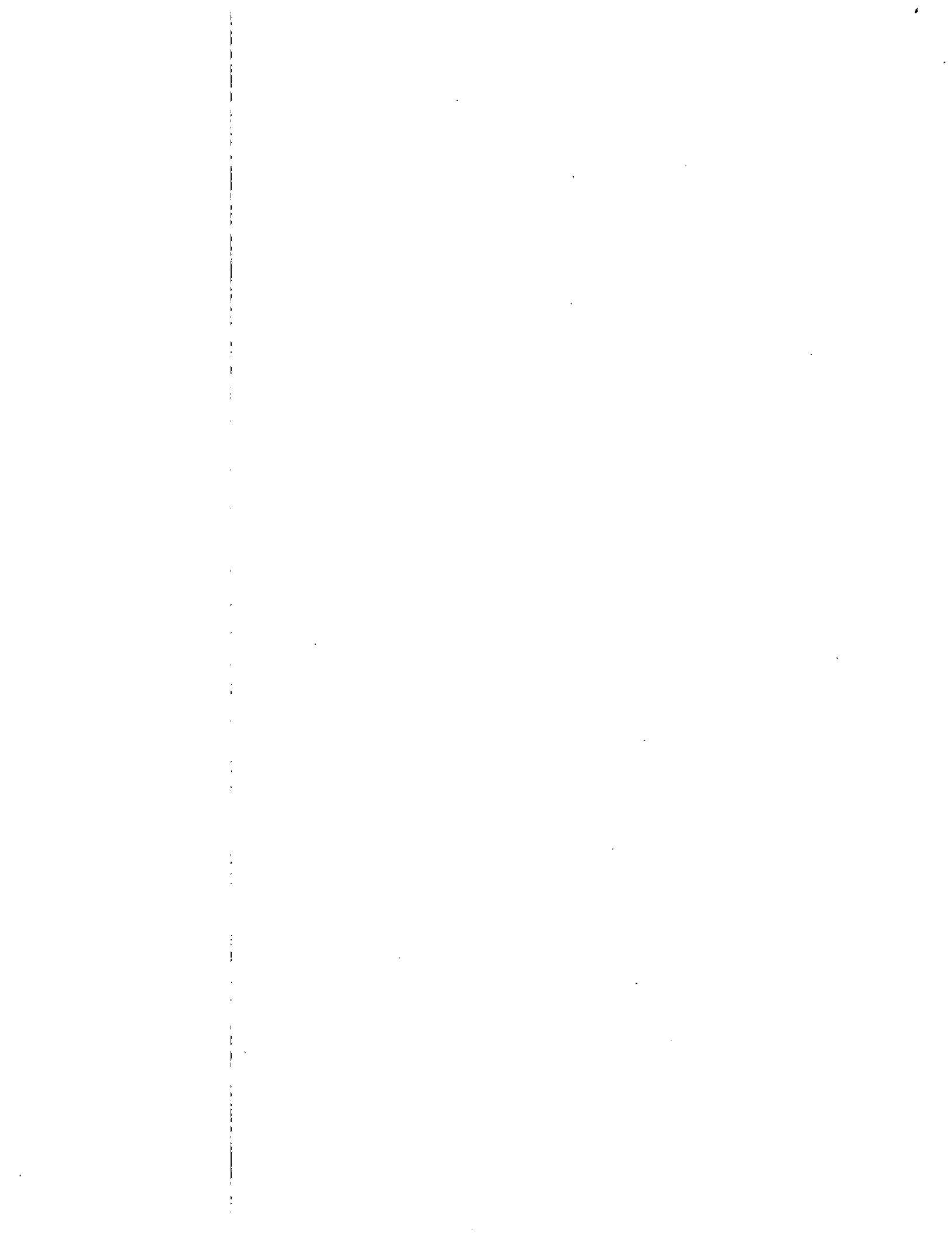
6. Design Flow: 330.00
 Gallons per Day
 Calculated Daily Flow: 505.77
 Gallons

7. Plan: 7/27/11
 Date of Original
one
 Number of Sheets Revision Date
"Plan of Septic System Repair"
 Title of Plan

8. Description of Soil:
attached

9. Nature of Repairs or Alterations (if applicable):
replace failed soil absorption system with new distribution box and two leach trenches consisting of 24 (12 per trench) Infiltrator Quick4 Plus standard low profile chambers.

10. Date last inspected: 6/29/11 by Nathan Torretti
 Date





Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee _____

B. 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.

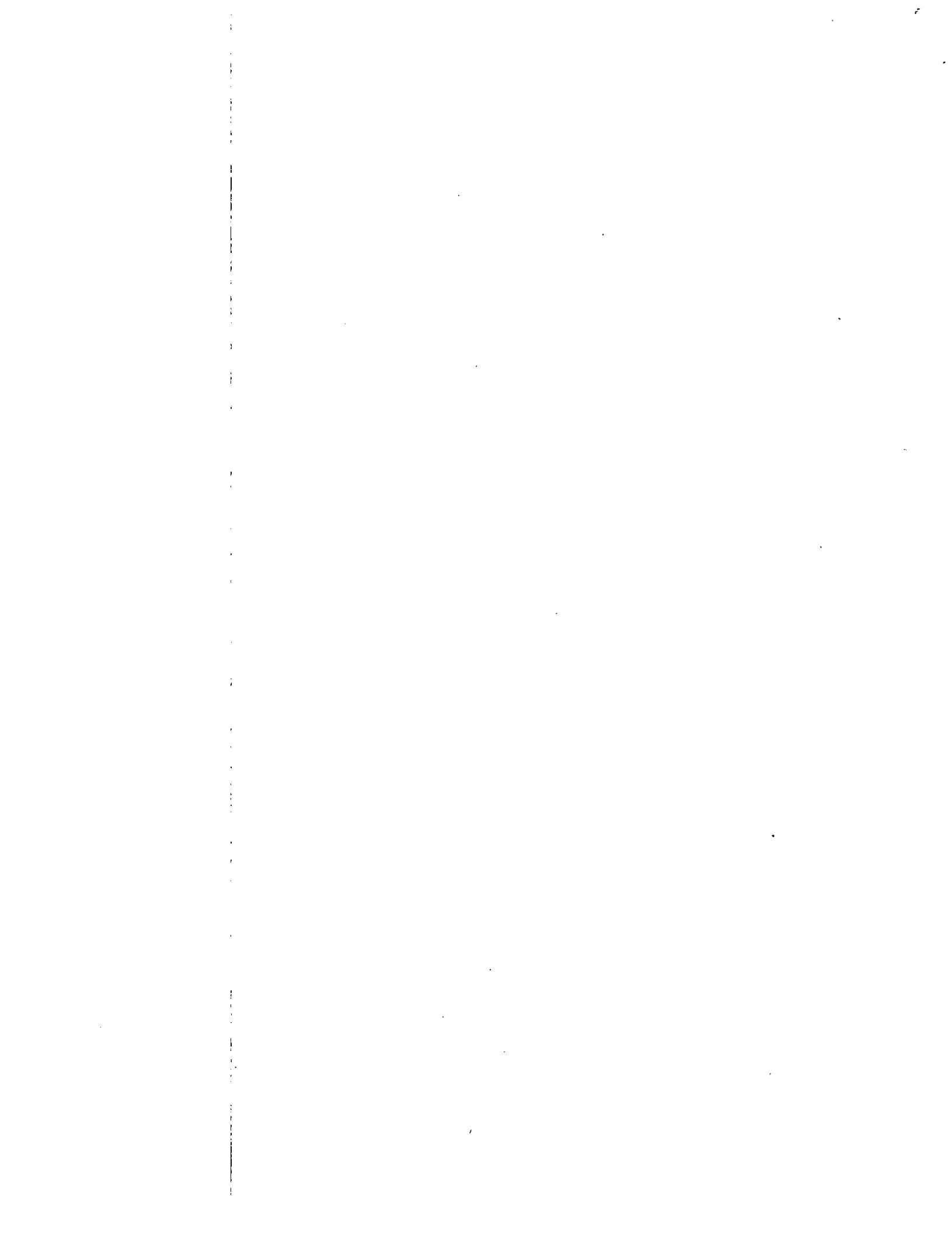
Wendina dos Santos
 Signature

8/11/11
 Date

Application Approved By:
Edward R. Gatto
 Name

9.21.2011
 Date

Application **Disapproved** for the following reasons:





Commonwealth of Massachusetts
 City/Town of Amherst
Disposal System Construction Permit
Form 2A

Number _____

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

Permission is hereby granted to:

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



Amaro R. Ferreira and Dulcinea M. Dos Santos
 Name Name of Company
147 Bay Road
 Address
Amherst MA 01002
 City/Town State Zip Code

to perform the following work on an on-site sewage disposal system:

- Construction
- Repair or replacement
- Repair or replacement of system components

same
 Facility Address

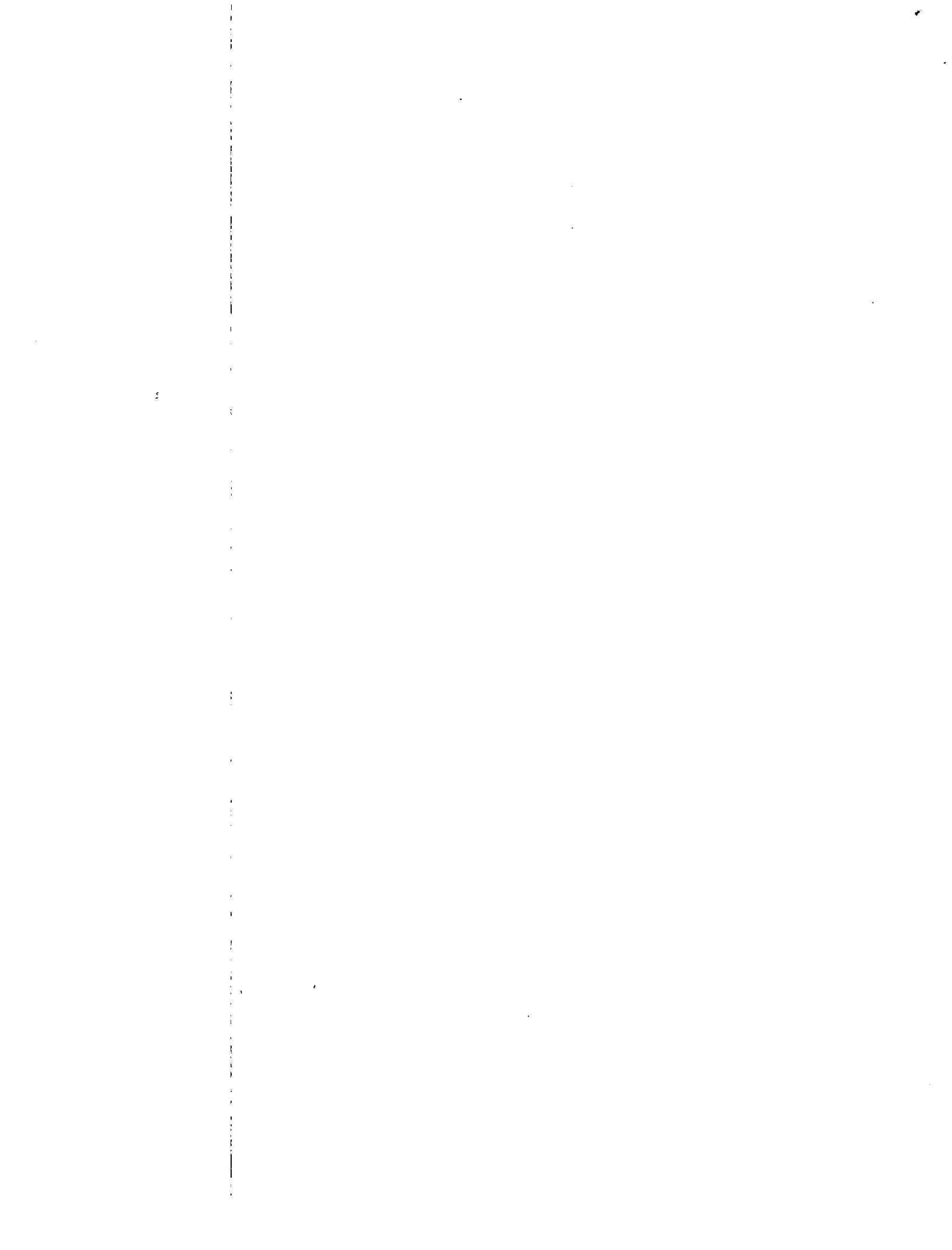
 City/Town State Zip Code
(413) 253-9834
 Owner Telephone Number

The work to be performed is further described in the 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 three years of the date below.

 Approved by Date

 Title



No. _____

Date: 7/13/11

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

Performed By: Robert Stover
Witnessed By: Ed Smith

Date: 7/13/11

Location Address or Lot # <u>147 Bay Road</u> <u>Map 25 B Parcel 27</u>	Owner's Name, Address, and Telephone # <u>Dulcinea M. Santos</u> <u>Amaro R. Ferreira</u> <u>147 Bay Rd. Amherst</u> <u>(413) 253-9834</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available: No Yes

Year Published 1981 Publication Scale 1:15840 Soil Map Unit Hg B

Drainage Class A Soil Limitations poor filter

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) _____

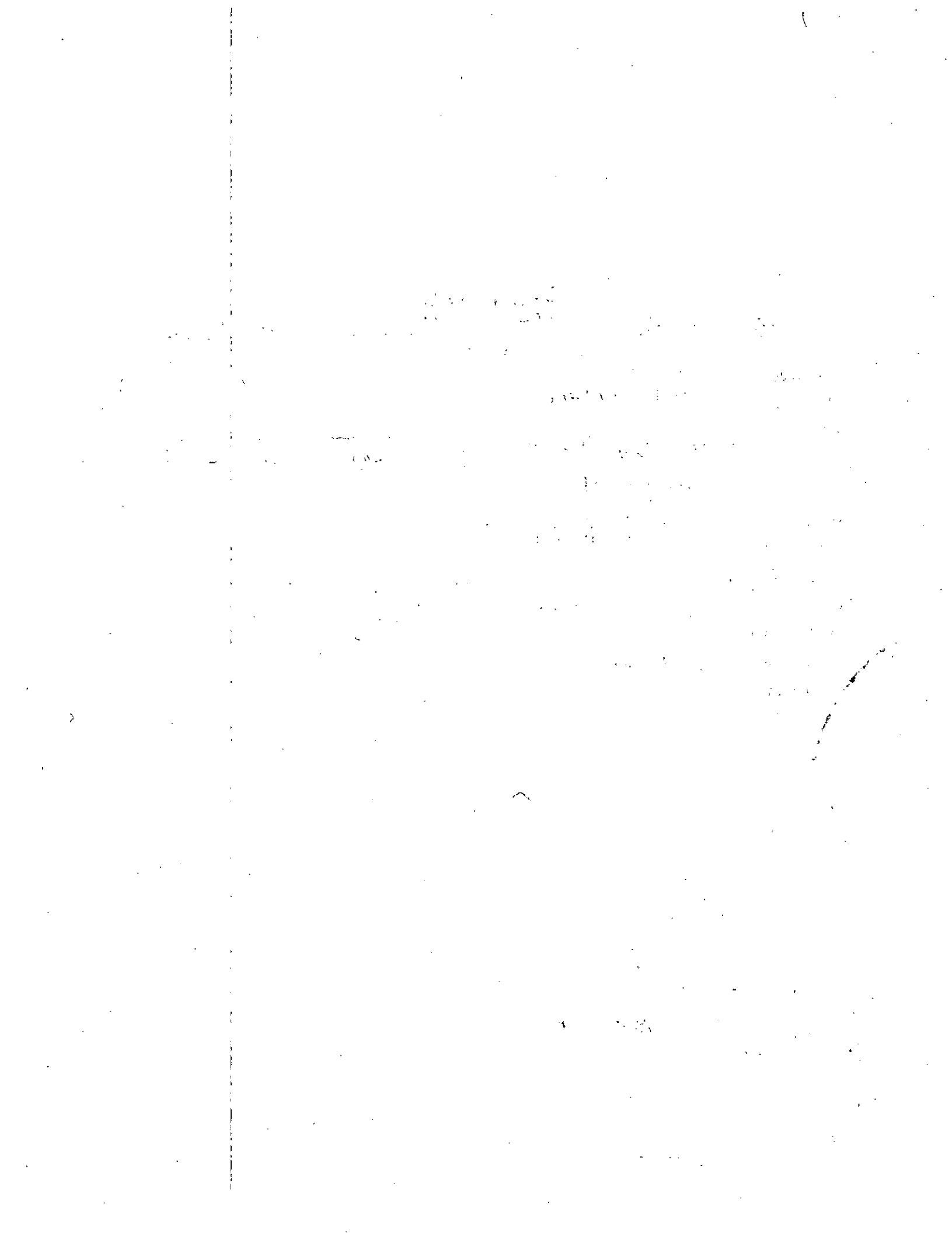
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month _____

Range : Above Normal Normal Below Normal June, 2011

Other References Reviewed: _____





Location Address or Lot No. 147 Bay Rd., Amherst

On-site Review

Deep Hole Number 2 Date: 7/13/11 Time: 11:00 Weather clear, 85°±

Location (identify on site plan) see plan

Land Use residential/yard Slope (%) 11 Surface Stones none

Vegetation red oak, white pine

Landform kame terrace

Position on landscape (sketch on the back)

Distances from:

Open Water Body 200 feet Drainage way none feet
 Possible Wet Area 100 feet + Property Line 35 feet left sideline
 Drinking Water Well 200 feet + Other town water

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-5	A	FSL	10YR5/3 dry	none	Friable
5-14	Bw	LS	10YR4/4 dry	none	loose to very friable
14-110	C	FS	10YR4/4	@ 94" "varved" VFS + VFLS 7.5YR 4/6	loose, stratified sands firmer below 94"

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) outwash Depth to Bedrock: > 110"
 Depth to Groundwater: Standing Water in the Hole: 103" Weeping from Pit Face: 96"
 Estimated Seasonal High Ground Water: 94"



Location Address or Lot No. 147 Bay Rd.

Amherst
On-site Review

Deep Hole Number 1 Date: 7/13/11 Time: 10:15 Weather clear, 85°±

Location (identity on site plan) see plan

Land Use residential Slope (%) 1 Surface Stones none

Vegetation red oak, white pine

Landform karrel terrace

Position on landscape (sketch on the back)

Distances from:
 Open Water Body 200 feet ± Drainage way none feet
 Possible Wet Area 100 feet ± Property Line 50 feet ± left sideline
 Drinking Water Well 200 feet ± Other town water

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	A	FSL	10YR5/3	none	friable
8-19	Bw	LS	10YR4/4	none	Loose, gravelly remnant Bw
19-87	C ₁	FS gravelly	10YR4/4	none	loose stratified sand+gr.
87-110	E ₂	VFSL	10YR5/3	below 87 7.5YR4/6	Firm, "varved" VFSL and FS+F gravel.

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) outwash Depth to Bedrock: >110"

Depth to Groundwater: Standing Water in the Hole: 100" Weeping from Pit Face: 87"

Estimated Seasonal High Ground Water: 87"



Location Address or Lot No. 147 Bay Rd

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: <u>7/13/11</u>		Time: <u>10:32</u>
Observation Hole #	<u>1</u>	
Depth of Perc	<u>49"</u>	
Start Pre-soak	<u>10:39 25 gals</u>	
End Pre-soak	<u>couldn't maintain</u>	
Time at 12"	<u>a liquid level</u>	
Time at 9"		
Time at 6"		
Time (9"-6")		
Rate Min./Inch	<u>< 2</u>	

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

Site Passed Site Failed

Performed By: Bob Stover

Witnessed By: Ed Smith

Comments: 5' water table separation required





Commonwealth of Massachusetts
 City/Town of Amherst
Local Upgrade Approval
 Form 9B

DEP has provided this form for use by local Boards of Health if they choose to do so.

The Local Upgrade Approval is to be completed by the local Board of Health and a signed copy provided to the system owner.

A. Facility Information

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



1. Facility Name and Address

Dulcinea M. Dos Santos and Amaro R. Ferreira

Name

147 Bay Road

Street Address

Amherst

City/Town

MA

State

01002

Zip Code

2. Owner Name and Address (if different from above):

same

Name

Street Address

City/Town

State

(413) 253-9834

Telephone Number

Zip Code

3. Type of Facility (check all that apply):

Residential Institutional Commercial School

4. Design flow per 310 CMR 15.203:

330
gpd

5. System Designer:

Paul M. Styspeck, PE / Robt

PE RS

Stover

P. O. Box 3312

Address

Amherst

City/Town

MA 01004-3312

State, ZIP

B. Approval

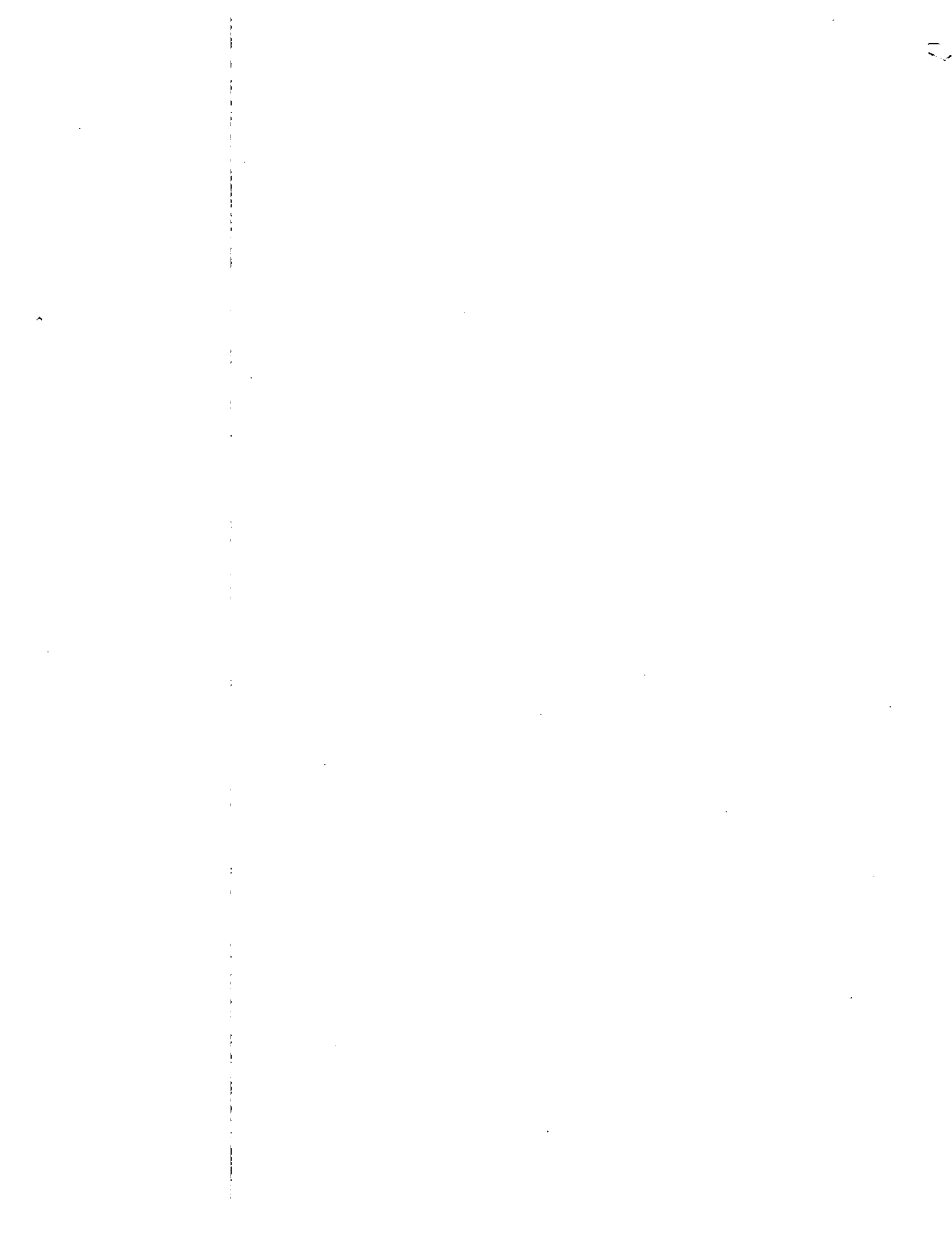
1. Local Upgrade Approval is granted for:

Reduction in setback(s) – specify:

Reduction in SAS area of up to 25%:

SAS size, sq. ft.

% reduction





Commonwealth of Massachusetts
 City/Town of Amherst
Local Upgrade Approval
 Form 9B

B. Approval (continued)

Reduction in separation between the SAS and high groundwater:

Separation reduction	from 5.00 to 4.27 ft.
Percolation rate	less than 2 min./inch
Depth to groundwater	87-inches ft.

Relocation of water supply well (explain):

Reduction of 12-inch separation between inlet and outlet tees and high groundwater

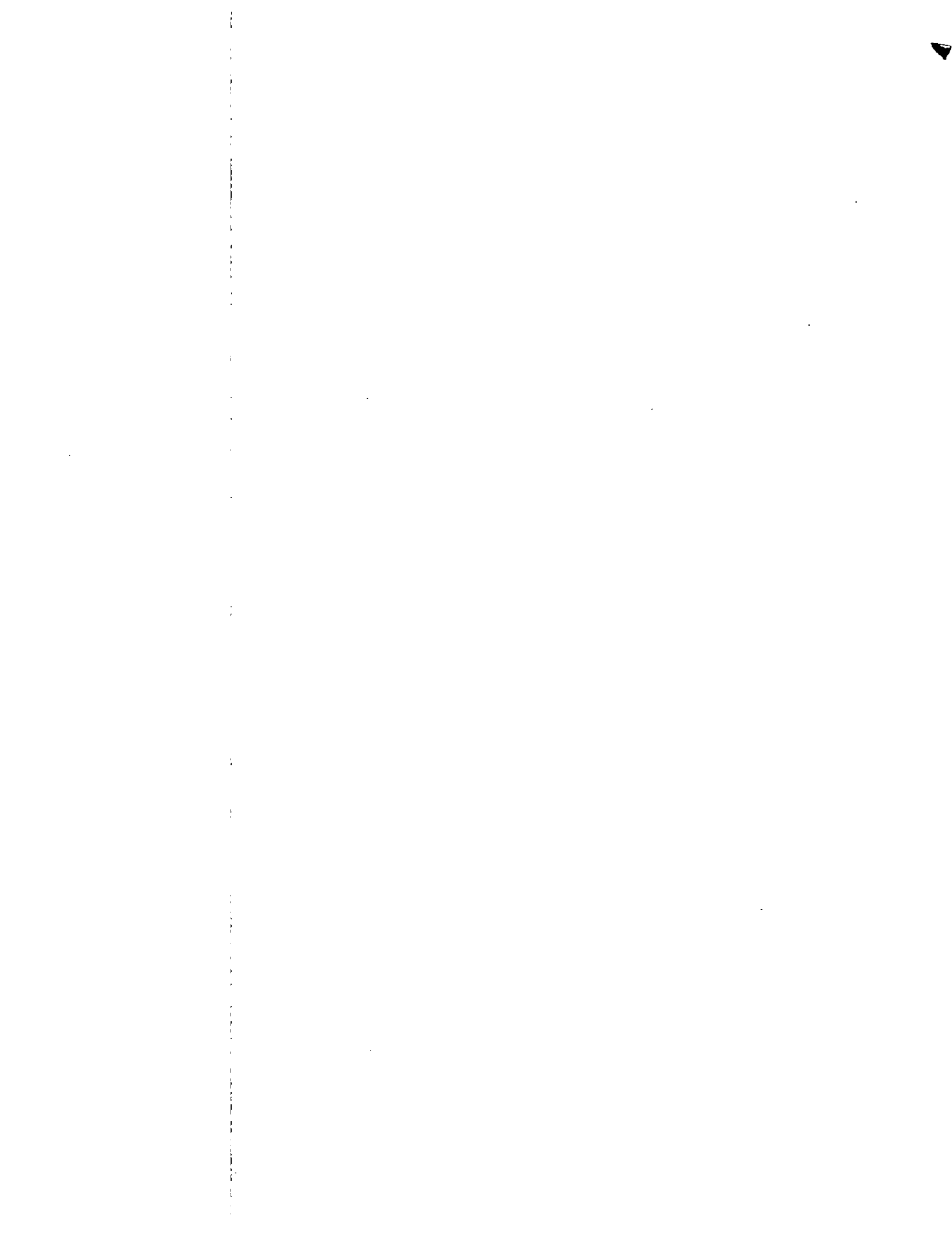
Use of only one deep hole in proposed disposal area

Use of a sieve analysis as a substitute for a perc test

List local variances granted not requiring DEP approval per 310 CMR 15.412(4):

List variances granted requiring DEP approval:

<i>Edmund Smith</i> Approving Authority	AMHERST B.D. OF HEALTH
EDMUND SMITH	8-17-2011
Print or Type Name and Title	Signature
	Date





Commonwealth of Massachusetts
 City/Town of Amherst
 Application for Disposal System
 Construction Permit
 Form 1A

12-07
 Number
 \$
 Fee

DEP has provided this form for use by local Boards of Health if they choose to do so. Before using the form, check with your local Board of Health to make sure that they will accept it.

A. Facility Information

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



Application is hereby made for a permit to: Construct a new on-site sewage disposal system
 Repair or replace an existing on-site sewage disposal system
 Repair or replace an existing system component

1. Location of Facility:

147 Bay Road
 Address or Lot #
 Amherst MA 01002
 City/Town State Zip Code

2. Owner Information

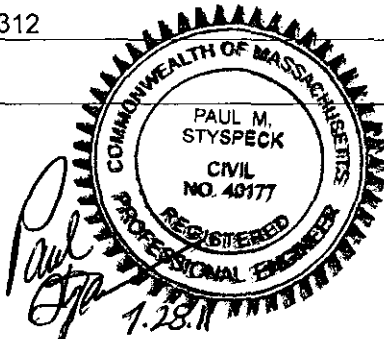
Dulcinea M. Dos Santos and Amaro R. Ferreira
 Name
 same
 Address (if different from above)
 City/Town State Zip Code
 (413) 253-9834
 Telephone Number

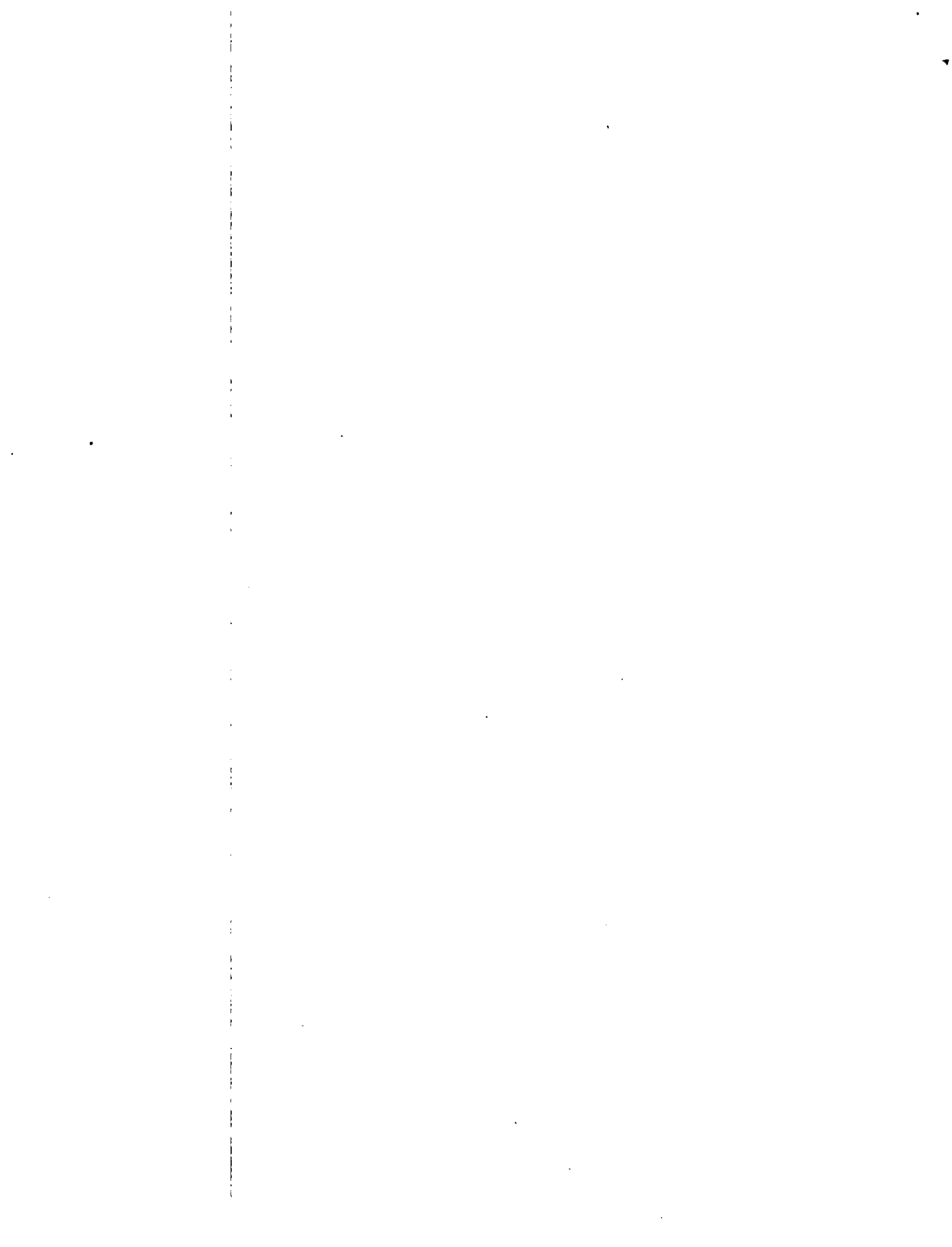
3. Installer Information

GRANBY SEPTIC
 Name
 36 KELLOGG STREET
 Address
 GRANBY MA 01033
 City/Town State Zip Code
 GREG ECKERSON
 Name of Company
 413-531-4693; 467-1931 OFFICE
 Telephone Number CELL

4. Designer Information

Paul M. Styspeck, PE / Robert Stover
 Name
 P. O. Box 3312
 Address
 Amherst MA 01004-3312
 City/Town State Zip Code
 (413) 256-3400
 Telephone Number







Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee

A. Facility Information (continued)

5. Type of Building:

Dwelling

Garbage Grinder (check if present)

Other: Type of Building _____

Number of Persons Served _____

Showers

Number of showers _____

Cafeteria

Other fixtures

Specify other fixtures: _____

6. Design Flow:

330.00

Gallons per Day

Calculated Daily Flow:

505.77

Gallons

7. Plan:

7/27/11

Date of Original

one

Number of Sheets

Revision Date

"Plan of Septic System Repair"

Title of Plan

8. Description of Soil:

attached

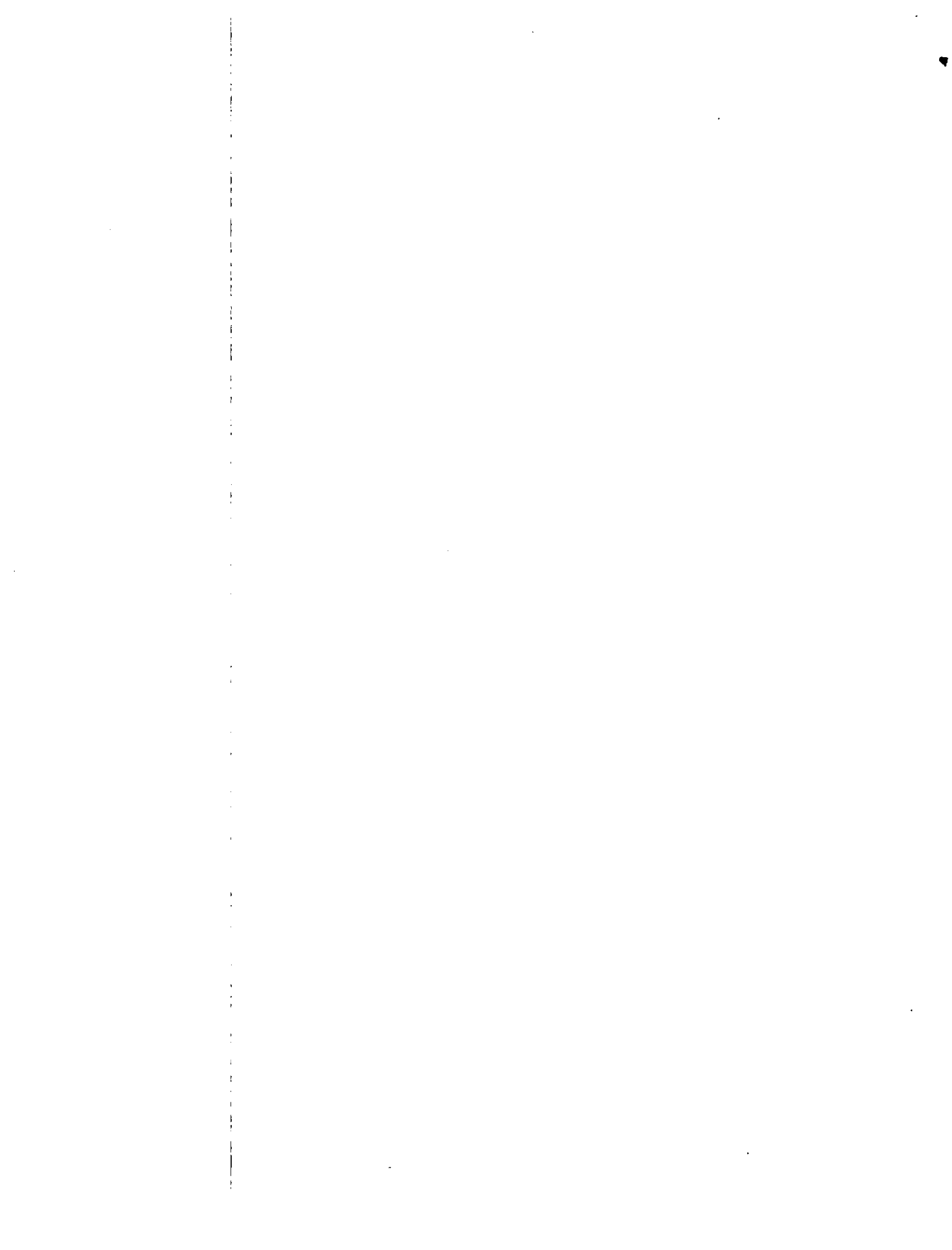
9. Nature of Repairs or Alterations (if applicable):

replace failed soil absorption system with new distribution box and two leach trenches consisting of 24 (12 per trench) Infiltrator Quick4 Plus standard low profile chambers.

10. Date last inspected:

6/29/11 by Nathan Torretti

Date





Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee _____

B. 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.

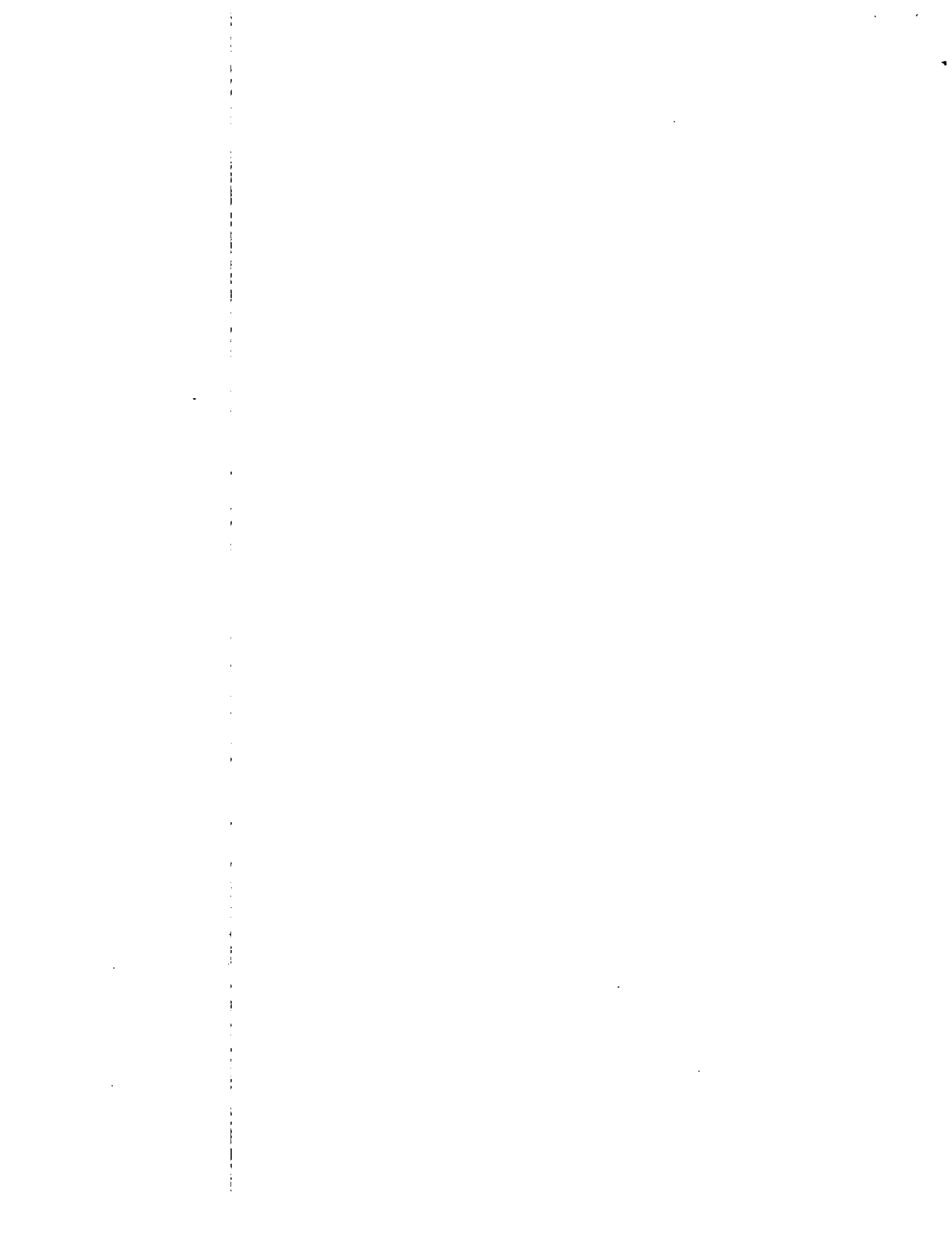
Wendina dos Santos
 Signature

8/11/11
 Date

Application Approved By:
Edward J. Sackler
 Name

8/17/11
 Date

Application **Disapproved** for the following reasons:





Commonwealth of Massachusetts
 City/Town of Amherst
Disposal System Construction Permit
 Form 2A

Number _____

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

Permission is hereby granted to:

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



Amaro R. Ferreira and Dulcinea M. Dos Santos
 Name Name of Company
147 Bay Road
 Address
Amherst MA 01002
 City/Town State Zip Code

to perform the following work on an on-site sewage disposal system:

- Construction
- Repair or replacement
- Repair or replacement of system components

same
 Facility Address

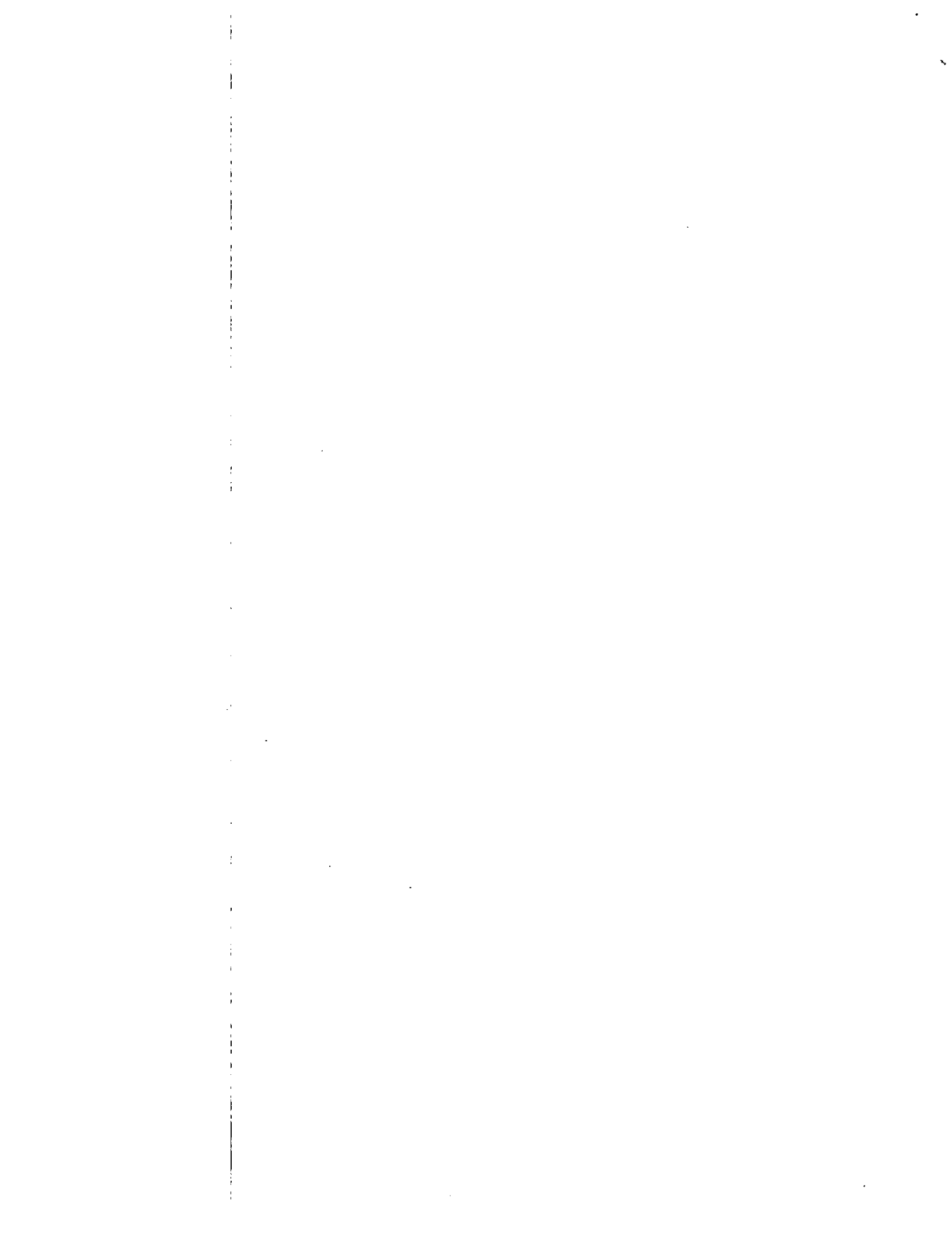
 City/Town State Zip Code

(413) 253-9834
 Owner Telephone Number

The work to be performed is further described in the 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 three years of the date below.

Eduardo R. Silva 8.12.2011
 Approved by Date
ASST. SANITARIAN
 Title



To: Amaro R. Ferreira & Dulcineia M. Dos Santos
147 Bay Road
Amherst, MA 01002
413-221-1344 (Dulcineia cell)

8/7/11

From: Granby Septic Service
36 Kellogg Street
Granby, MA 01033
413-531-4693 Cell
413-467-1931 Office

RE: Installation of replacement leach field for 147 Bay Road, Amherst, MA

I will provide a gravity fed septic system for a 3 bedroom existing home in accordance with Amherst Environmental Services approved plan dated 7/27/11. The existing septic tank will be pumped out at the time of the installation. The price and installation of a new septic tank is not included in this proposal. *At the homeowner's option, I can add an effluent filter to the outlet end of the septic tank along with a new baffle for an additional \$50.*

The new leachfield will be made from Quick-4 low profile infiltrators. One new Massachusetts style 5 outlet distribution box will be installed with a 12" riser to with 6" of the finish grade. The existing leachfield will be abandoned on site. The distribution box will be crushed and filled in.

The existing loam will be dozed into a pile at the onset of construction and will be spread on the job upon completion. At the property owner's request we are proposing to install this septic to "rough grade". After the final inspection by Bob Stover and the Amherst Health agent, we will backfill the system with the existing material and we will spread the small amount of stockpiled loam. We will haul away all excess dirt. The new leachfield will need to have grass planted over it.

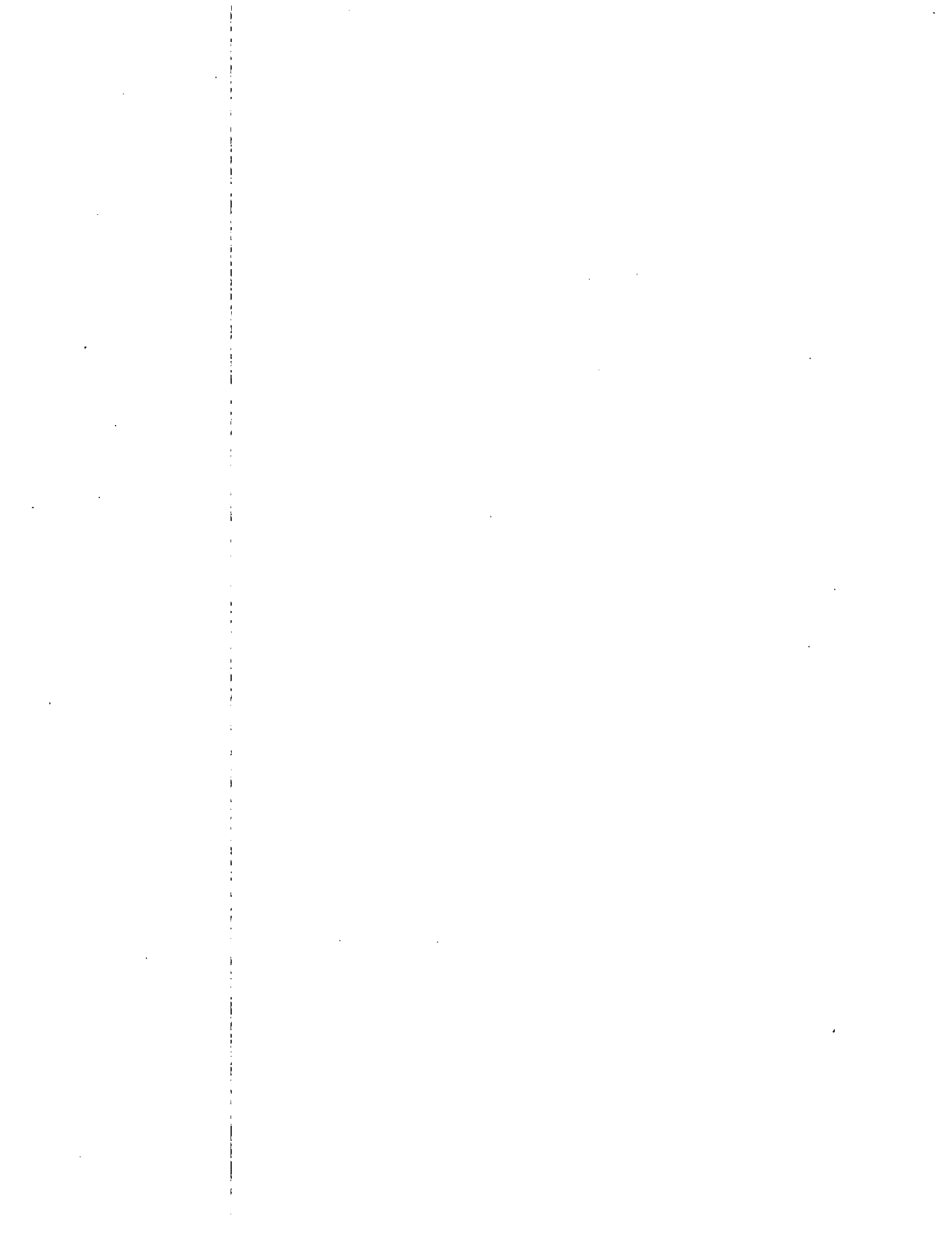
Homeowner is responsible for all necessary septic permits and related inspection fees. It is the homeowner's responsibility to ensure that all grey water inside the house exits into the new septic system.

This price could be susceptible to change due to unforeseen conditions. If any change is to take place other than what is specified in this contract a change order must be agreed upon and signed by both parties.

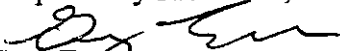
Price for replacement septic system, price includes excavation, materials, trucking, and backfilling to rough grade

Payment schedule is as follows: 100% due upon completion which is backfilling to rough grade.

~~\$4200~~ \$4000
GRE



Respectfully submitted,

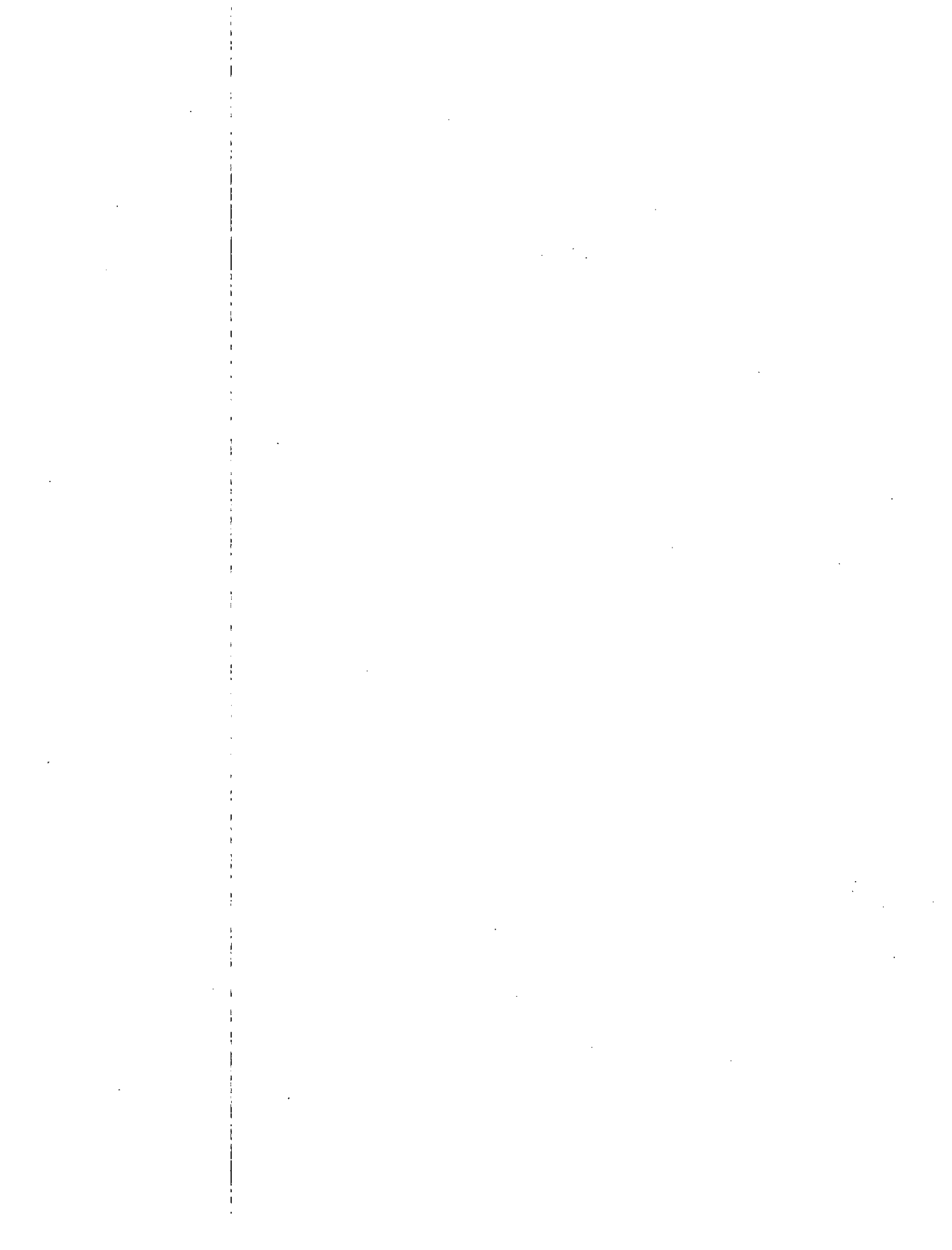

Greg Everson, owner

8/7/11

The above prices, specifications and conditions are satisfactory and are hereby accepted. Granby Septic Service is authorized to do the work as specified. Payment will be made as outlined above.

Signature of Acceptance

References will gladly be provided if interested in our services.

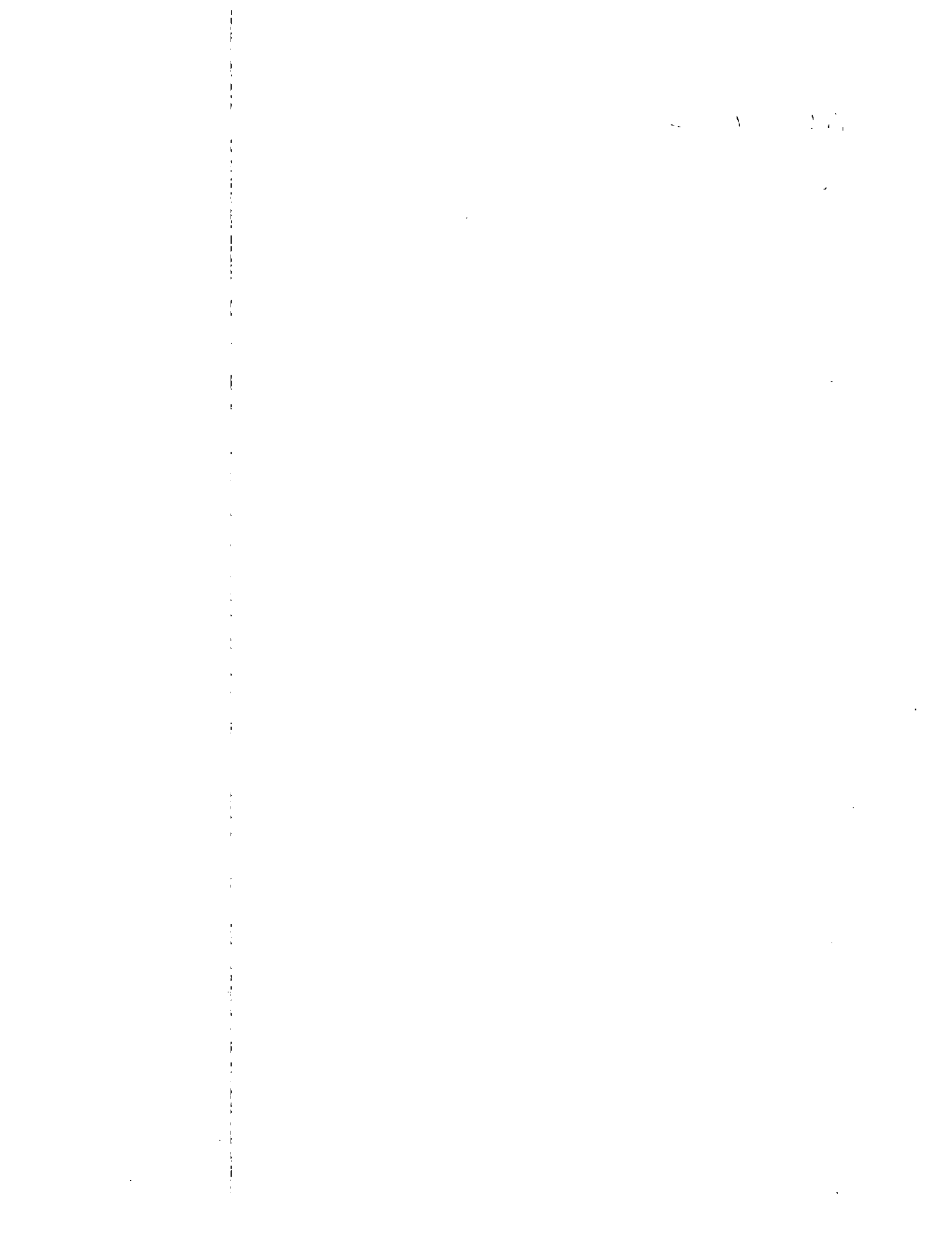


Plan: 147 BAY ROAD Designed by: ROBT. STOVER

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. 15.270 (3)
- Legal boundaries noted
- Easements noted
- 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
- Garbage grinder Y or N
- Benchmark not disturbed during construction, within 75 feet of facility CMR 15.220 (4)(g)
- North arrow CMR 15.200 (4) (g)
- Contours
- Deep hole location and data
- Perc hole location and data
- Elevations
- Names of approving authority and soil evaluator CMR 15.211 p. 49
- 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 sys. ; 50' Tank
- Well statement if applicable
- 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
- 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
- When alternative technology is required, complete plan and specs, including hydraulic profile
- Trenches preferred over beds CMR 15.240 (6)
- Buoyancy calculations for tanks or components partly below H₂O table 15.221(8) p. 56
- 3 to 1 slope outside of mound, toe ending 5 feet from property line
- Local upgrade requests on the plan
- Local upgrade forms attached to application
- Note on plan listing all variances sought in conjunction with the plan

NOTES: _____





Commonwealth of Massachusetts

City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

Form 9A is to be submitted to the Local Board of Health for the upgrade of a failed or nonconforming septic system with a design flow of less than 10,000 gpd, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

System upgrades that cannot be performed in accordance with 310 CMR 15.404 and 15.405, or in full compliance with the requirements of 310 CMR 15.000, require a variance pursuant to 310 CMR 15.410 through 15.415.

NOTE: Local upgrade approval shall not be granted for an upgrade proposal that includes the addition of a new design flow to a cesspool or privy, or the addition of a new design flow above the existing approved capacity of an on-site system constructed in accordance with either the 1978 Code or 310 CMR 15.000.

A. Facility Information

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



1. Facility Name and Address:

Dulcinea M. Dos Santos and Amaro R. Ferreira

Name

147 Bay Road

Street Address

Amherst

City/Town

MA

State

01002

Zip Code

2. Owner Name and Address (if different from above):

same

Name

Street Address

City/Town

State

(413) 253-9834

Telephone Number

Zip Code

3. Type of Facility (check all that apply):

- Residential Institutional Commercial School

4. Describe Facility:

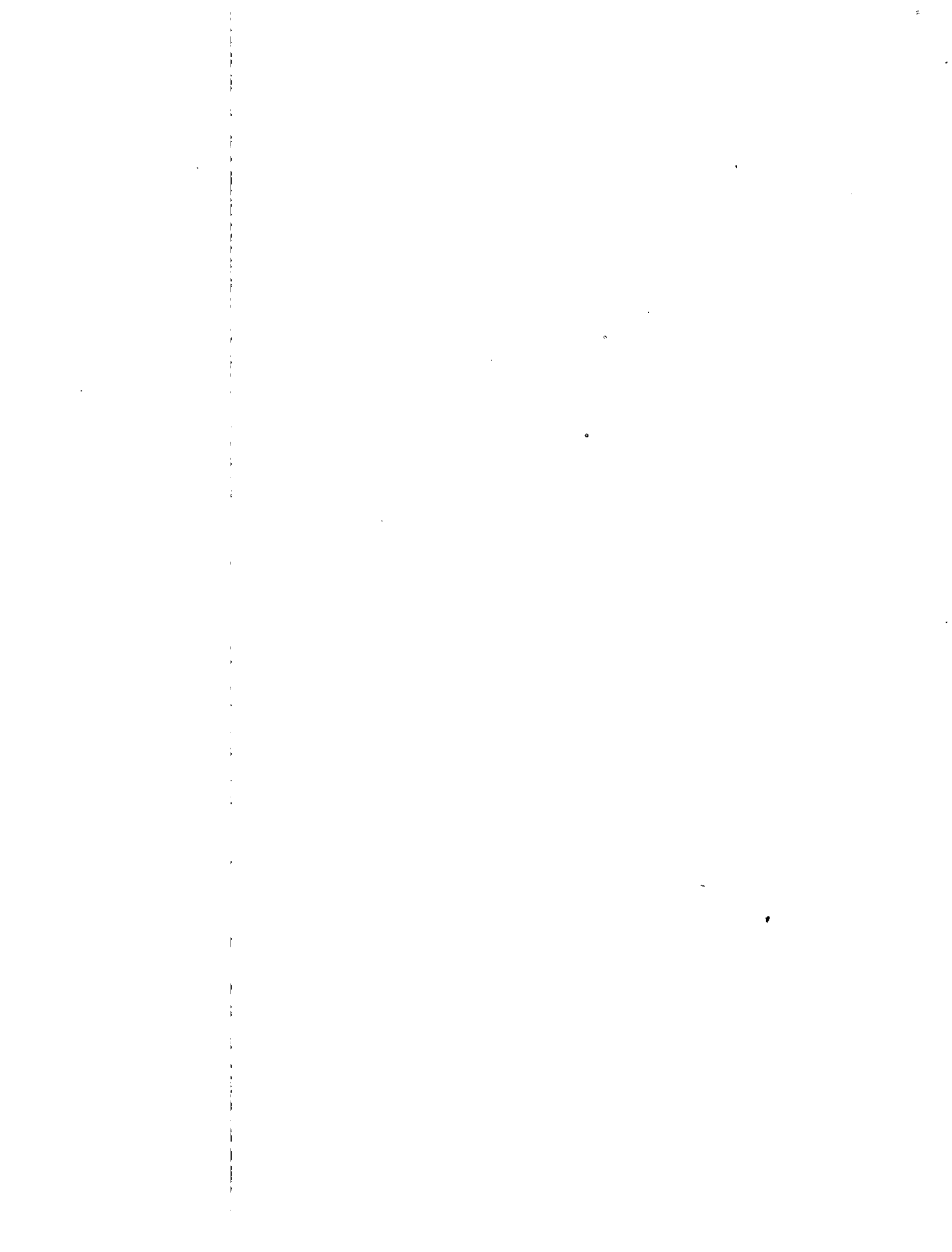
three bedroom full-time single family house without a garbage grinder

5. Type of Existing System:

- Privy Cesspool(s) Conventional Other (describe below):

6. Type of soil absorption system (trenches, chambers, leach field, pits, etc):

existing: two pipe and stone leach trenches





Form 9A – Application for Local Upgrade Approval

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

A. Facility Information (continued)

7. Design Flow per 310 CMR 15.203:

Design flow of existing system:	<u>not known</u>
	gpd
Design flow of proposed upgraded system	<u>505.77</u>
	gpd
Design flow of facility:	<u>330.00</u>
	gpd

B. Proposed Upgrade of System

1. Proposed upgrade is (check one):

Voluntary Required by order, letter, etc. (attach copy)

Required following inspection pursuant to 310 CMR 15.301:

June 29, 2011
date of inspection

2. Describe the proposed upgrade to the system:

install distribution box and two leach trenches consisting of 24 (12 per trench) Infiltrator Quick4 Plus standard low profile chambers

3. Local Upgrade Approval is requested for (check all that apply):

Reduction in setback(s) – describe reductions:

Reduction in SAS area of up to 25%:

SAS size, sq. ft.

% reduction

Reduction in separation between the SAS and high groundwater:

Separation reduction

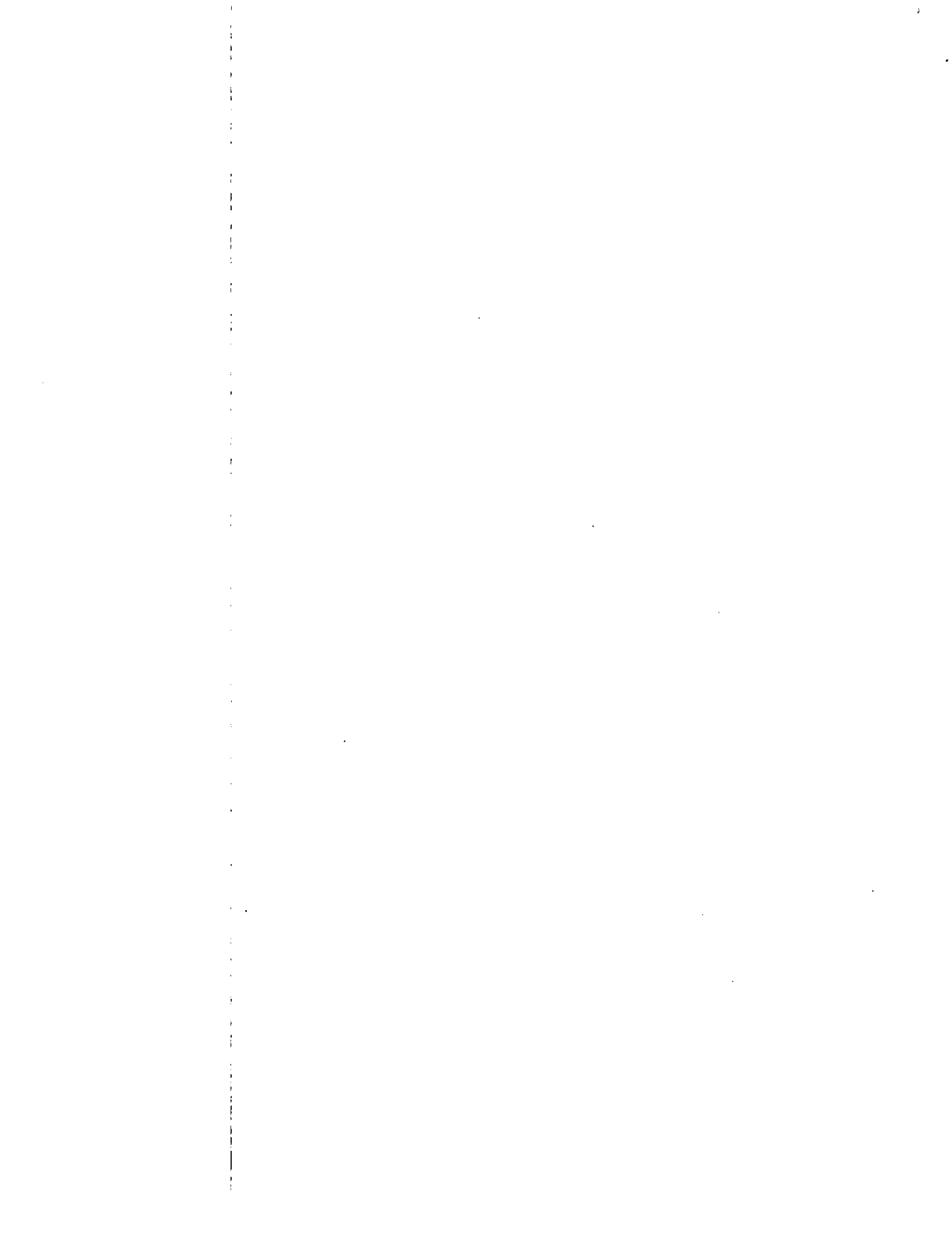
from 5.00 to 4.27
ft.

Percolation rate

less than 2
min./inch

Depth to groundwater

87-inches
ft.





Form 9A – Application for Local Upgrade Approval

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

B. Proposed Upgrade of System (continued)

Relocation of water supply well (explain):

Reduction of 12-inch separation between inlet and outlet tees and high groundwater

Use of only one deep hole in proposed disposal area

Use of a sieve analysis as a substitute for a perc test

Other requirements of 310 CMR 15.000 that cannot be met – describe and specify sections of the Code:

If the proposed upgrade involves a reduction in the required separation between the bottom of the soil absorption system and the high groundwater elevation, an Approved Soil Evaluator must determine the high groundwater elevation pursuant to 310 CMR 15.405(1)(h)(1). ***The soil evaluator must be a member or agent of the local approving authority.***

High groundwater evaluation determined by:

		7/13/11
Evaluator's Name (type or print)	Signature	Date of evaluation

C. Explanation

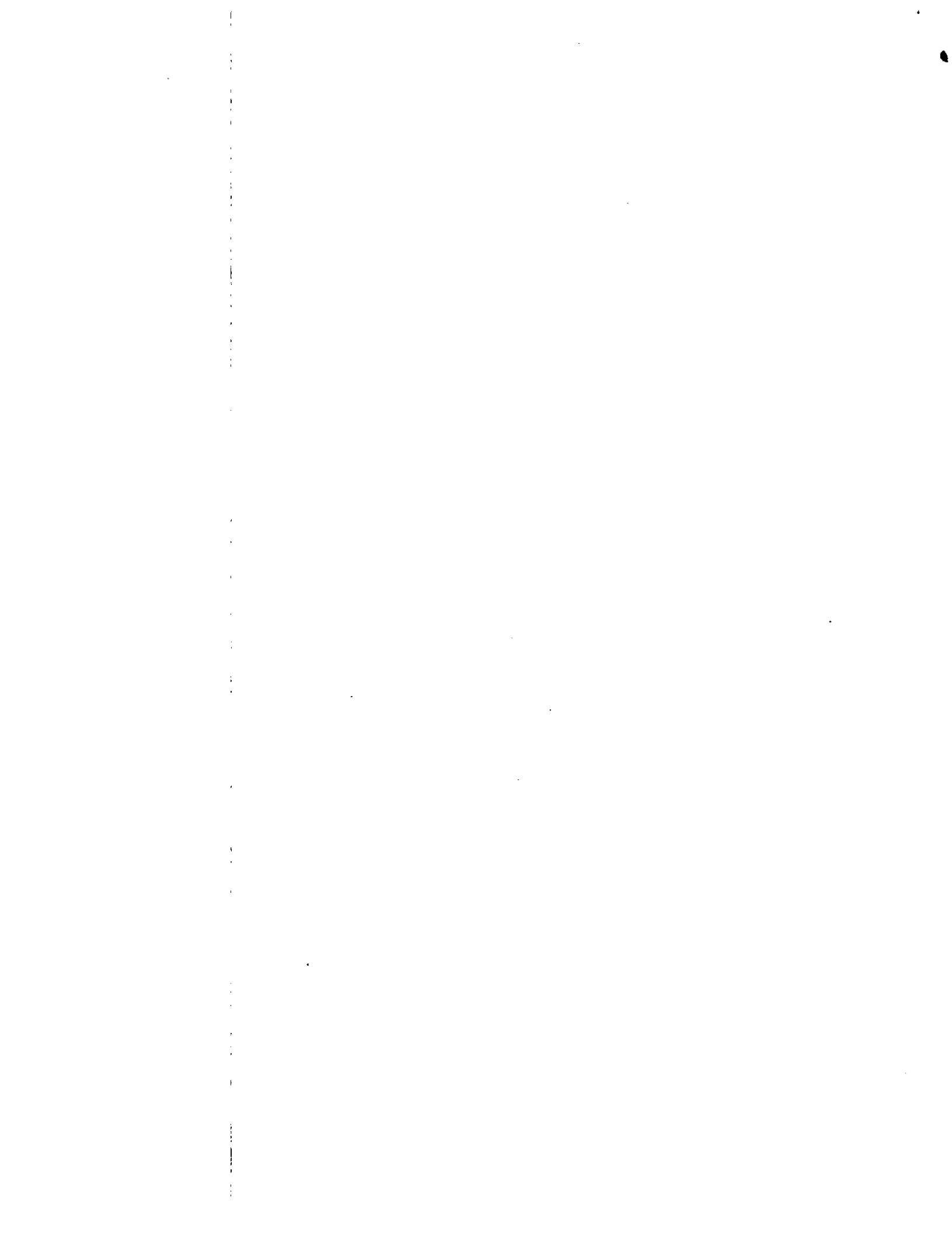
Explain why full compliance, as defined in 310 CMR 15.404(1), is not feasible. (Each section must be completed)

1. An upgraded system in full compliance with 310 CMR 15.000 is not feasible:

Existing septic tank is structurally sound according to system inspector Nathan Torretti and it's high in the ground but it is still too deep to allow for a 5-ft separation from the estimated seasonal high ground water elevation.

2. An alternative system approved pursuant to 310 CMR 15.283 to 15.288 is not feasible:

This facility does not warrant an alternative system.





Commonwealth of Massachusetts

City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

C. Explanation (continued)

3. A shared system is not feasible:

There is no abutter known to need to share a system. A shared system is not warranted by the circumstances of this facility.

4. Connection to a public sewer is not feasible:

This area is not served by public sewer.

5. The Application for Local Upgrade Approval must be accompanied by all of the following (check the appropriate boxes):

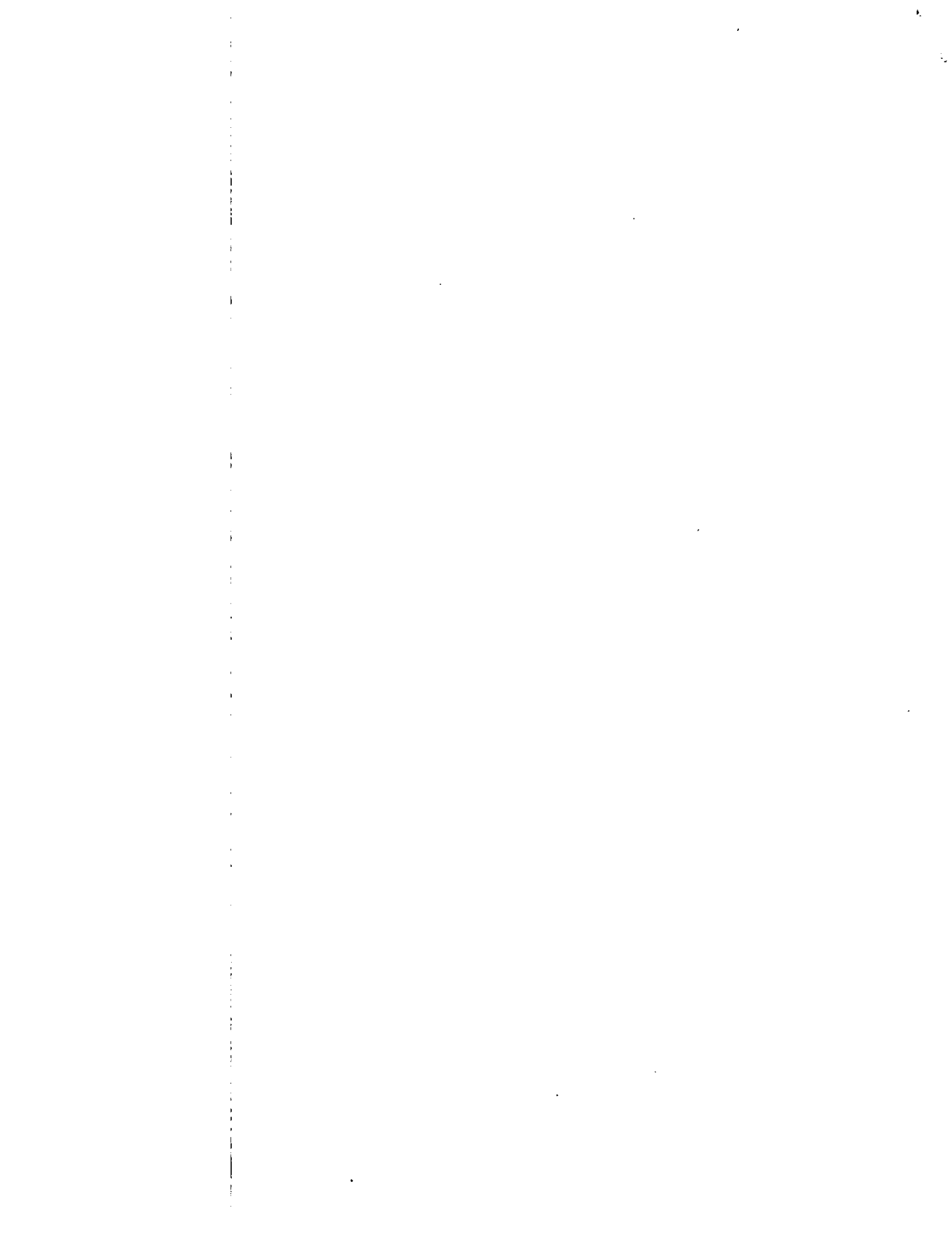
- Application for Disposal System Construction Permit
Complete plans and specifications
Site evaluation forms
A list of abutters affected by reduced setbacks to private water supply wells or property lines. Provide proof that affected abutters have been notified pursuant to 310 CMR 15.405(2).
Other (List):

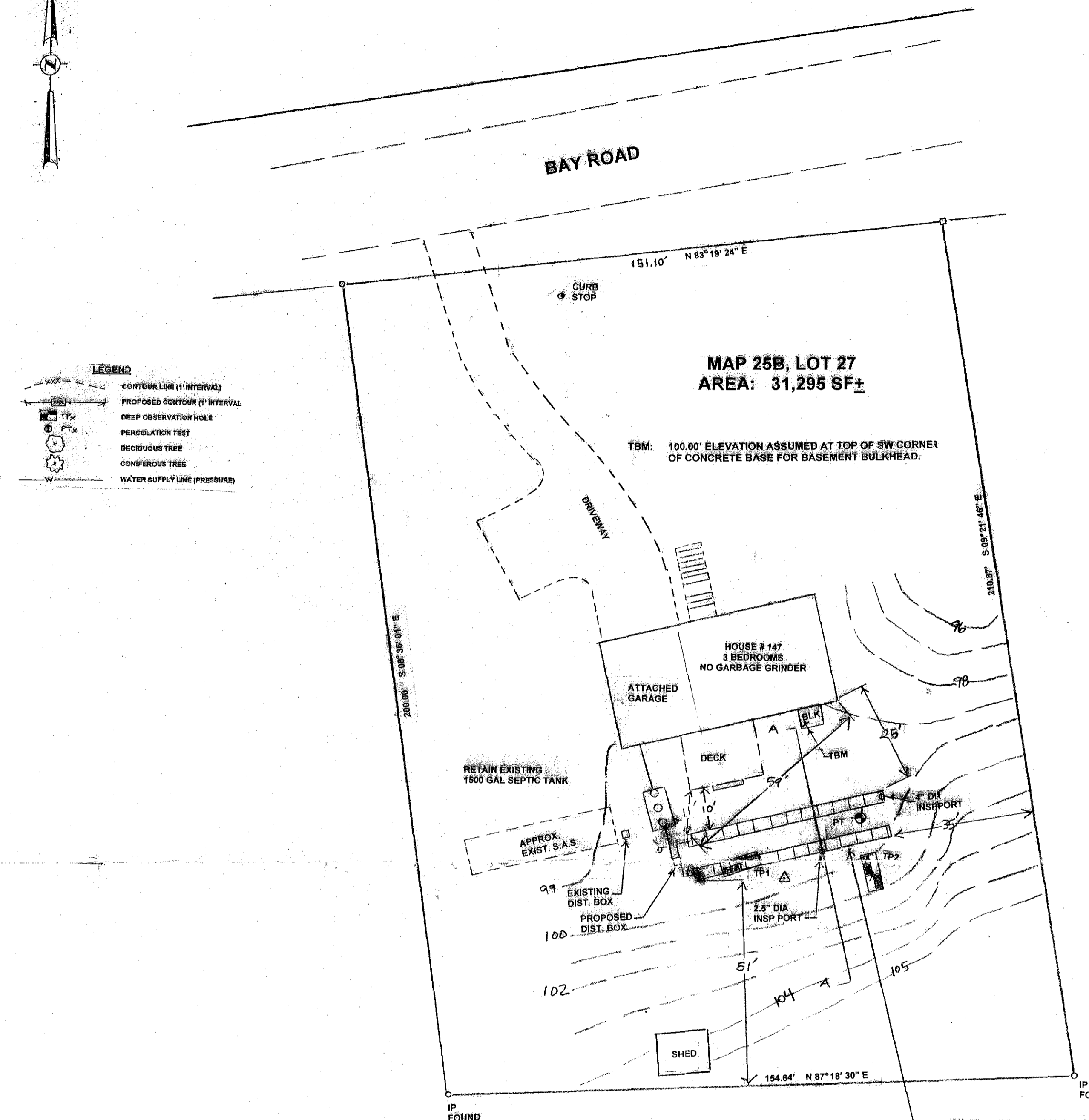
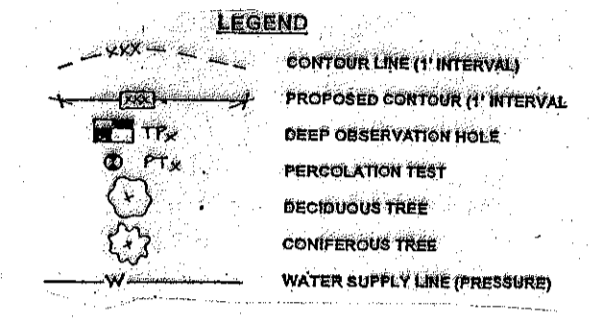
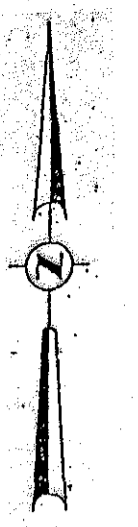
D. Certification

"I, the facility owner, certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for deliberate violations."

Dulcinea dos Santos
Facility Owner's Signature
Dulcinea M. Dos Santos & Amaro R. Ferreira
Print Name
Robert Stover
Name of Preparer
P. O. Box 3312
Preparer's address
01004-3312
State/ZIP Code

8/11/11
Date
7/28/11
Date
Amherst
City/Town
(413) 256-3400
Telephone





MAP 25B, LOT 27
AREA: 31,295 SF ±

TBM: 100.00' ELEVATION ASSUMED AT TOP OF SW CORNER OF CONCRETE BASE FOR BASEMENT BULKHEAD.

PLANVIEW
SCALE: 1" = 20'

PROPERTY LINE INFORMATION FROM "PLAN OF LAND IN AMHERST, MASSACHUSETTS" BY ALMER HUNTLEY, JR. & ASSOCIATES, INC. PREPARED FOR HOWARD W. ATKINS, DATED DEC. 10, 1982



USGS MT HOLYOKE, MA QUADRANGLE
SCALE: 1 : 25 000

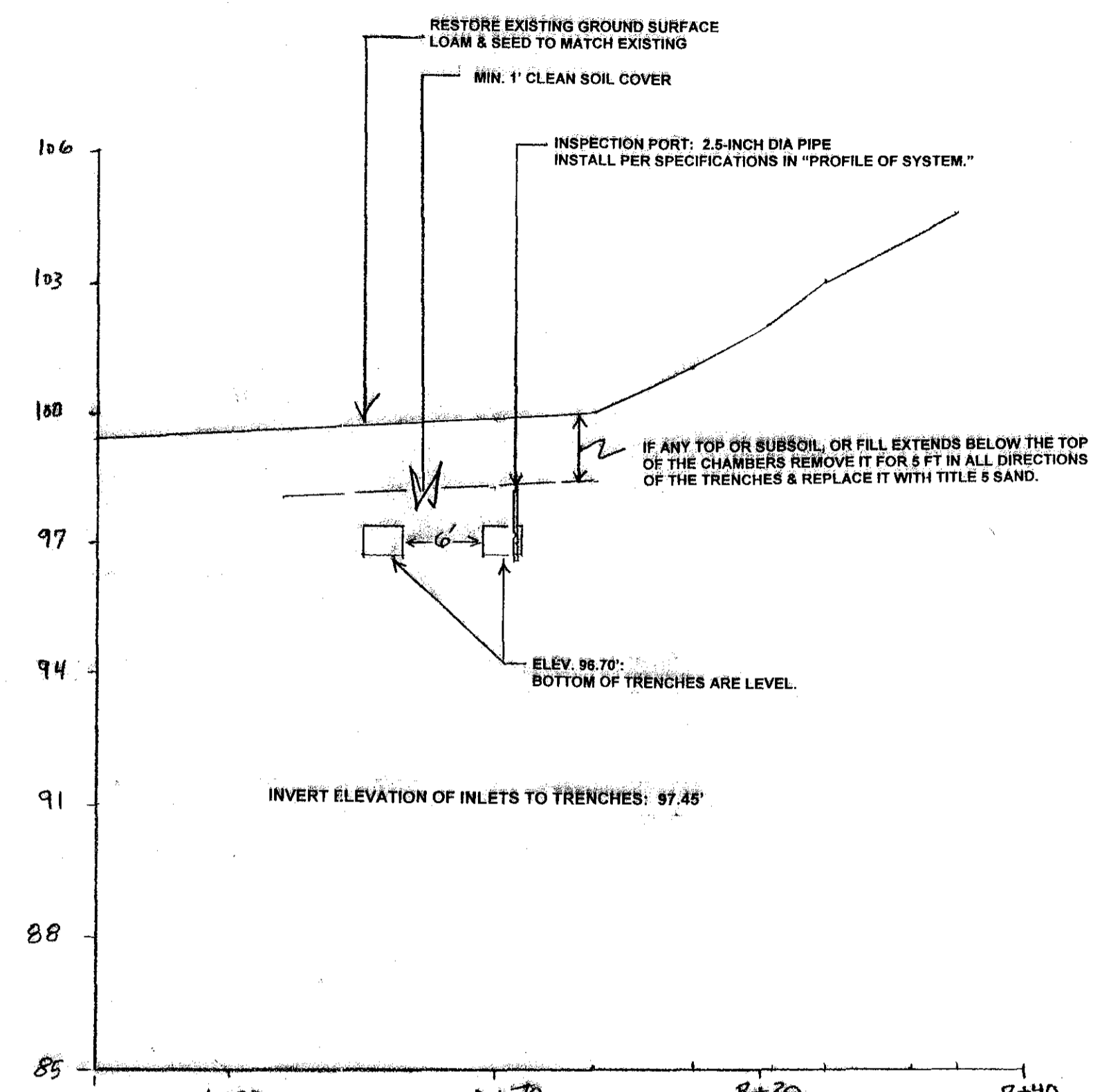
NOTE: THERE ARE NO SURFACE WATER SUPPLIES OR GRAVEL PAKED PUBLIC WATER SUPPLY WELLS WITHIN 400' OF THE PROPOSED SYSTEM LOCATION. THERE ARE NO TUBULAR WATER SUPPLY WELLS WITHIN 200' OF THE PROPOSED SYSTEM LOCATION. THERE ARE NO TRIBUTARIES TO SURFACE WATER SUPPLIES WITHIN 200' OF THE PROPOSED SYSTEM LOCATION OR WETLANDS BORDERING SURFACE WATER SUPPLIES OR TRIBUTARIES TO SURFACE WATER SUPPLIES WITHIN 100' OF THE PROPOSED SYSTEM LOCATION. THERE ARE NO WETLAND RESOURCE AREAS OR PRIVATE WATER SUPPLY WELLS WITHIN 150' OF THE PROPOSED SYSTEM LOCATION.

GENERAL CONDITIONS

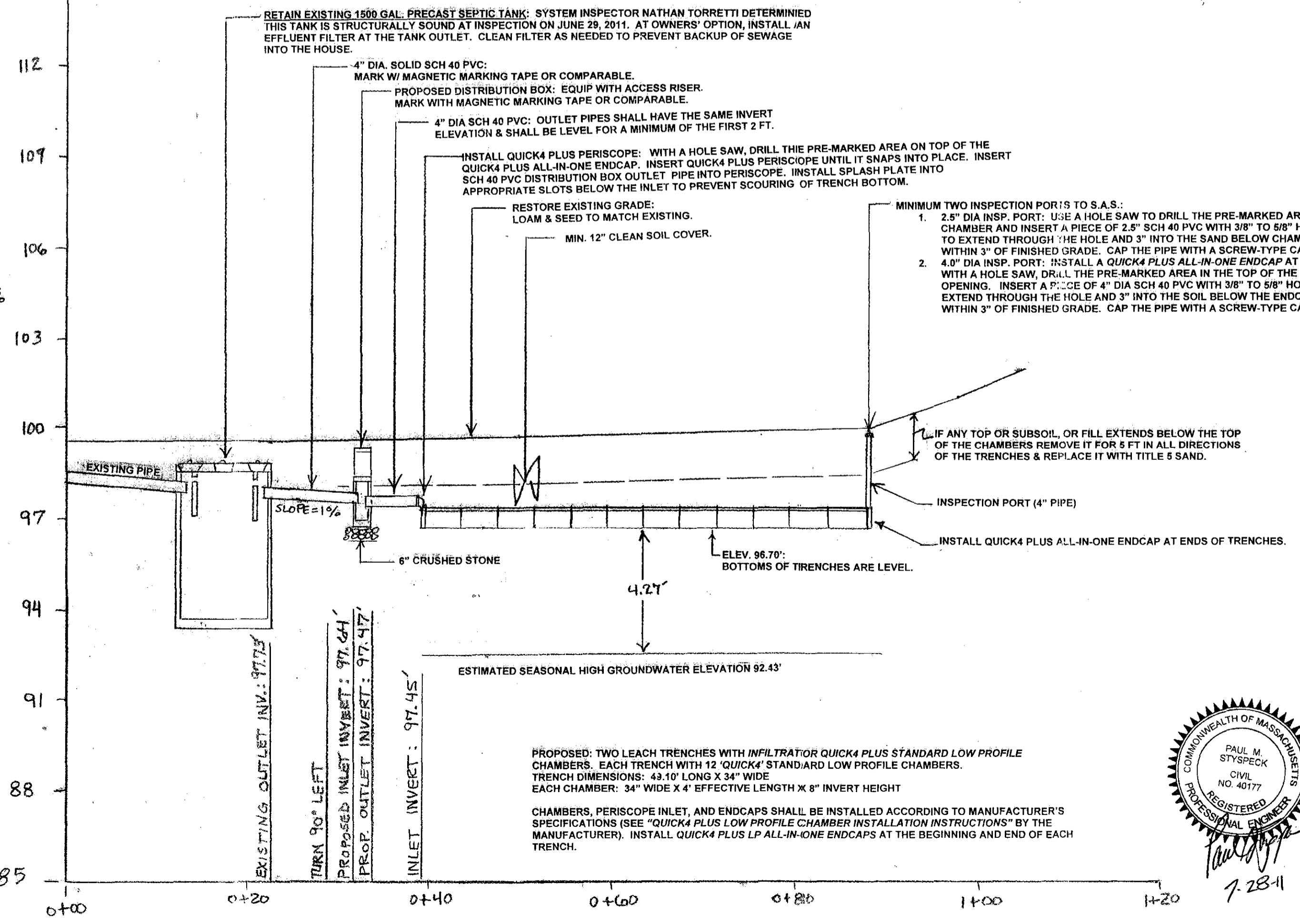
- 1. This septic system repair plan is prepared in accordance with Title 5, 310 CMR 15.00. Construction shall conform to these regulations.
2. Installer shall be certified by the manufacturer to install Infiltrator chambers.
3. The installer shall inform the designer of any unusual conditions and shall not modify the plan without the written consent of the designer.
4. All debris in the site area shall be removed and disposed of in accordance with the law.
5. There is no guarantee expressed or implied to any user of a system installed pursuant to this plan.
6. The installer shall notify the designer and the Board of Health Representative when the system excavation is ready for inspection and again when the system installation is complete but not covered. The installer shall notify the designer when the finished grade is ready for inspection. Notification shall be 72 hours prior to the time of inspection.
7. The septic tank shall be pumped and inspected as necessary and at least once every three years.

CONSTRUCTION NOTES

- 1. Any topsoil, subsoil, old fill, or other impervious materials encountered during excavation shall be removed from the area of the soil absorption system, from five feet around the soil absorption system and from wherever fill is to be placed. Any fill placed under or adjacent to the soil absorption system shall be a clean, granular sand and conform to the specifications of Title 5, 310 CMR 16.25(5).
2. Pipes exiting the distribution box shall have the same invert elevation and be laid level for a minimum first two feet.
3. The finished grade above the soil absorption system shall have a minimum two percent slope to shed surface runoff away from the system.
4. Disturbed areas shall be loamed, seeded and mulched until stable vegetation is established.



SECTION OF LEACH BED
SCALE: H: 1" = 10' V: 1" = 3'



PROFILE OF SYSTEM
SCALE: H: 1" = 10' V: 1" = 3'

SOIL EVALUATION

Approved Soil Evaluator: Robert Stover
BOH Representative: Ed Smith
Date of Evaluation: 7/13/2011

Ground elevation at soil evaluation test pit #1: 99.68'.
Est. Seasonal High Ground Water Elev. 92.43'.
Bedrock Elevation deeper than: 90.51'.

Table with 6 columns: Depth, Soil Horizon, Soil Texture, Soil Color, Mottling, Other. It details soil profiles from 0-8 inches to 87-110 inches.

Parent Material (Geologic): outwash
Standing Water in the Hole: 100" Weeping from Pit Face: 87"
Estimated Seasonal High Ground Water: 87"

Ground elevation at soil evaluation test pit #2: 100.17'.
Est. Seasonal High Ground Water Elev. 92.34'.
Bedrock Elevation deeper than: 91.00'.

Table with 6 columns: Depth, Soil Horizon, Soil Texture, Soil Color, Mottling, Other. It details soil profiles from 0-5 inches to 14-110 inches.

Parent Material (Geologic): outwash
Standing Water in the Hole: 103" Weeping from Pit Face: 96"
Estimated Seasonal High Ground Water: 94"

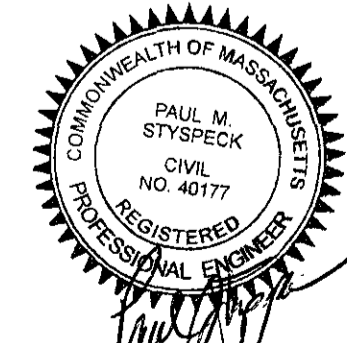
DESIGN CRITERIA

Design flow is for a 3-bedroom house without a garbage grinder

DESIGN CALCULATION

Design flow: 3-bedrooms, no garbage grinder: = 330 gpd.
Retain existing septic tank: Precast, 1500 gallons
Effluent Loading Rate: Percolation Rate = less than 2 minutes per inch Class I soils. Effluent loading rate = 0.74 gpd/sf.
Soil Absorption System: two leach trenches. Each 48.10' long X 3.00' wide. Each with 12 Infiltrator Quick4 low profile standard chambers for a total of 24 total chambers; 8-inch invert height.
Each standard chamber (trench configuration): 24 chambers each 4.0 LF. = 96.0 LF. two sets of endcaps at 1.1 LF per set. = 2.2 LF. Total linear feet: = 98.2 LF. 98.20 LF X 6.96 SF/LF: = 683.47 SF.
Calculated Design Flow: 683.47 SF X 0.74 GPD/SF: = 505.77 gpd. Total Required Design Flow = 330.00 gpd (OK)

THE APPLICANT REQUESTS THAT THE AMHERST BOARD OF HEALTH GRANT A LOCAL UPGRADE APPROVAL TO REDUCE THE REQUIRED WATER TABLE SEPARATION FROM FIVE FEET TO FOUR FEET.



PLAN OF SEPTIC SYSTEM REPAIR
147 BAY ROAD, AMHERST, MA 01002
ASSESSORS MAP 25B, LOT 27
AMARO R. FERREIRA & DULCINEIA M. DOS SANTOS
147 BAY ROAD, AMHERST, MA 01002
SCALE: AS SHOWN APPROVED BY: DRAWN BY: RWS
DATE: 7/27/11 REVISIONS:
AMHERST ENVIRONMENTAL SERVICES
PAUL STYSPECK, P.E. / ROBERT STOVER
P. O. BOX 3312, AMHERST, MA 01004-3312
(413) 256-3400

Location Address or Lot No. 147 Bay Rd.

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date: <u>7/13/11</u>		Time: <u>10:32</u>
Observation Hole #	<u>1</u>	
Depth of Perc	<u>49"</u>	
Start Pre-soak	<u>10:39 25 gals</u>	
End Pre-soak	<u>couldn't maintain</u>	
Time at 12"	<u>a liquid level</u>	
Time at 9"		
Time at 6"		
Time (9"-6")		
Rate Min./Inch	<u>< 2</u>	

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

Site Passed Site Failed

Performed By: Bob Stover

Witnessed By: Ed Smith

Comments: 5' water table separation required



Location Address or Lot No. 147 Bay Road
Amherst

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 87 inches and 94"
- 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? yes

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

Certification

I certify that on 6/1993 (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 Robert Stover Date 7/13/11



Location Address or Lot No. 147 Bay Rd.

Amherst

On-site Review

Deep Hole Number 1 Date: 7/13/11 Time: 10:15 Weather clear 85'±

Location (identify on site plan) see plan

Land Use residential Slope (%) 1 Surface Stones none

Vegetation red oak, white pine

Landform karst terrace

Position on landscape (sketch on the back)

Distances from:

Open Water Body 200 feet + Drainage way none feet
Possible Wet Area 100 feet + Property Line 50 feet ± left sideline
Drinking Water Well 200 feet + Other town water

DEEP OBSERVATION HOLE LOG

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	A	FSL	10YR5/3	none	friable
8-19	Bw	LS	10YR4/4	none	Loose, gravelly remnant Bw
19-87	C ₁	Fs gravelly	10YR4/4	none	loose stratified sand+gr.
87-110	E ₂	VFSL	10YR5/3	below 87 7.5YR4/6	Firm, "varved" VFSL and FS+F gravel

MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) outwash Depth to Bedrock: >110"

Depth to Groundwater: Standing Water in the Hole: 100" Weeping from Pit Face: 87"

Estimated Seasonal High Ground Water: 87"



Location Address or Lot No. 147 Bay Rd., Amherst

On-site Review

Deep Hole Number 2 Date: 7/13/11 Time: 11:00 Weather clear, 85°±
 Location (identify on site plan) see plan
 Land Use residential/yard Slope (%) 11 Surface Stones none
 Vegetation red oak, white pine
 Landform kame terrace
 Position on landscape (sketch on the back)

Distances from:

Open Water Body 200 feet Drainage way none feet
 Possible Wet Area 100 feet+ Property Line 35 feet left sideline
 Drinking Water Well 200 feet+ Other town water

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-5	A	FSL	10YR5/3 dry	none	Friable
5-14	Bw	LS	10YR4/4 dry	none	loose to very friable
14-110	C	FS	10YR4/4	@94" "varved" VFS+ VFLS 7.5YR4/6	loose, stratified sands firmer below 94"

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) outwash Depth to Bedrock: > 110"
 Depth to Groundwater: Standing Water in the Hole: 103" Weeping from Pit Face: 96"
 Estimated Seasonal High Ground Water: 94"





Commonwealth of Massachusetts
 City/Town of Amherst
Local Upgrade Approval
Form 9B

DEP has provided this form for use by local Boards of Health if they choose to do so.

The Local Upgrade Approval is to be completed by the local Board of Health and a signed copy provided to the system owner.

A. Facility Information

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



1. Facility Name and Address

Dulcinea M. Dos Santos and Amaro R. Ferreira
 Name

147 Bay Road
 Street Address

Amherst
 City/Town

MA
 State

01002
 Zip Code

2. Owner Name and Address (if different from above):

same
 Name

Street Address

City/Town

State

Zip Code

(413) 253-9834
 Telephone Number

3. Type of Facility (check all that apply):

Residential Institutional Commercial School

4. Design flow per 310 CMR 15.203:

330
 gpd

5. System Designer:

Paul M. Styspeck, PE / Robt

PE

RS

Stover

P. O. Box 3312
 Address

Amherst
 City/Town

MA 01004-3312
 State, ZIP

B. Approval

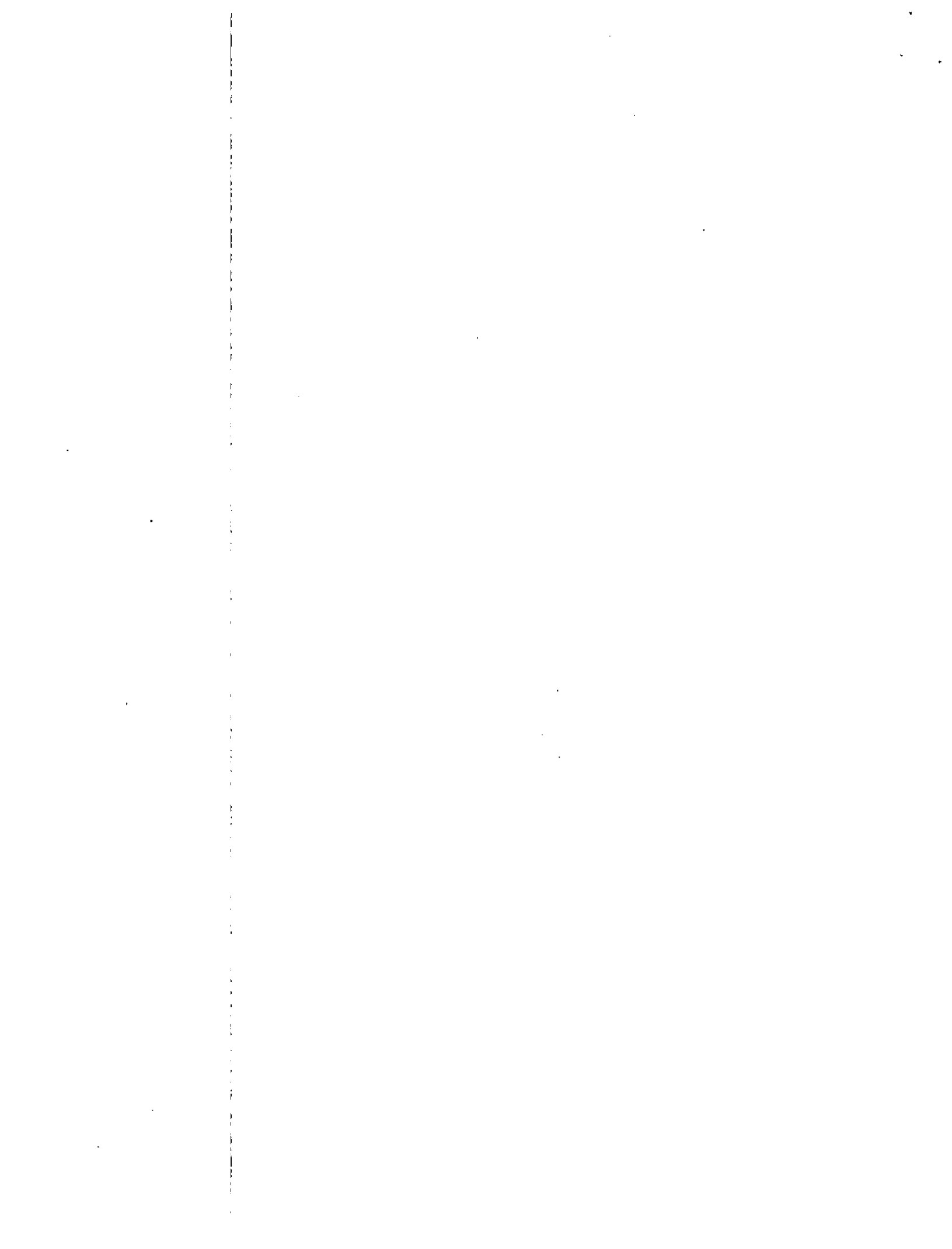
1. Local Upgrade Approval is granted for:

Reduction in setback(s) – specify:

Reduction in SAS area of up to 25%:

_____ SAS size, sq. ft.

_____ % reduction





Commonwealth of Massachusetts
 City/Town of Amherst
Local Upgrade Approval
 Form 9B

B. Approval (continued)

Reduction in separation between the SAS and high groundwater:

Separation reduction	from 5.00 to 4.27 ft.
Percolation rate	less than 2 min./inch
Depth to groundwater	87-inches ft.

Relocation of water supply well (explain):

Reduction of 12-inch separation between inlet and outlet tees and high groundwater

Use of only one deep hole in proposed disposal area

Use of a sieve analysis as a substitute for a perc test

List local variances granted not requiring DEP approval per 310 CMR 15.412(4):

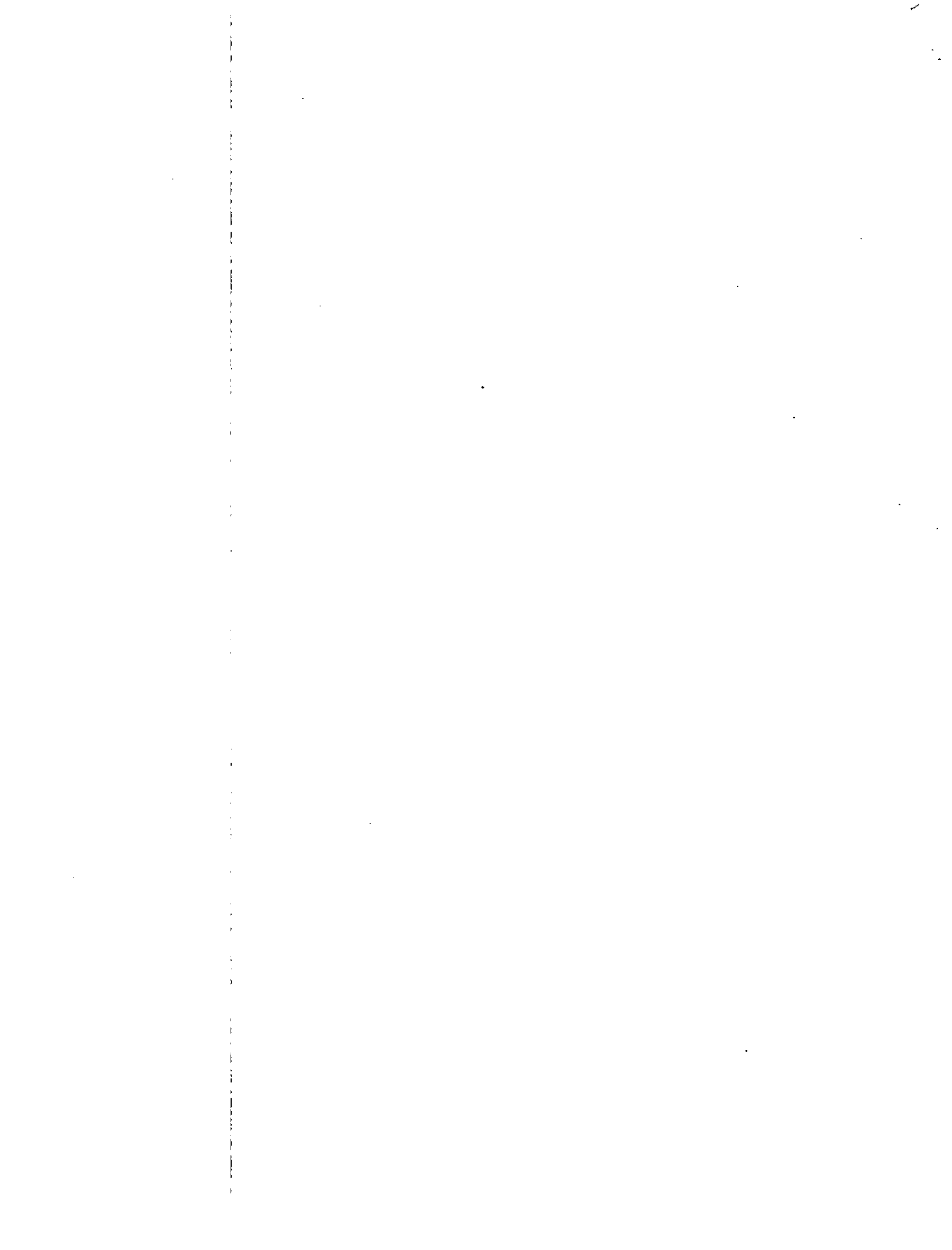
List variances granted requiring DEP approval:

Approving Authority

Print or Type Name and Title

Signature

Date



No. _____

Date: 7/13/11

Commonwealth of Massachusetts

Amherst, Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: Robert Stover

Date: 7/13/11

Witnessed By: Ed Smith

Location Address or Lot # <u>147 Bay Road</u> <u>Map 25 B Parcel 27</u> New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	Owner's Name, Address, and Telephone # <u>Dulcinea M. Santos</u> <u>Amaro R. Ferreira</u> <u>147 Bay Rd. Amherst</u> <u>(413) 253-9834</u>
---	--

Office Review

Published Soil Survey Available: No Yes

Year Published 1981 Publication Scale 1:15840 Soil Map Unit Hg B

Drainage Class A Soil Limitations poor filter

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) _____

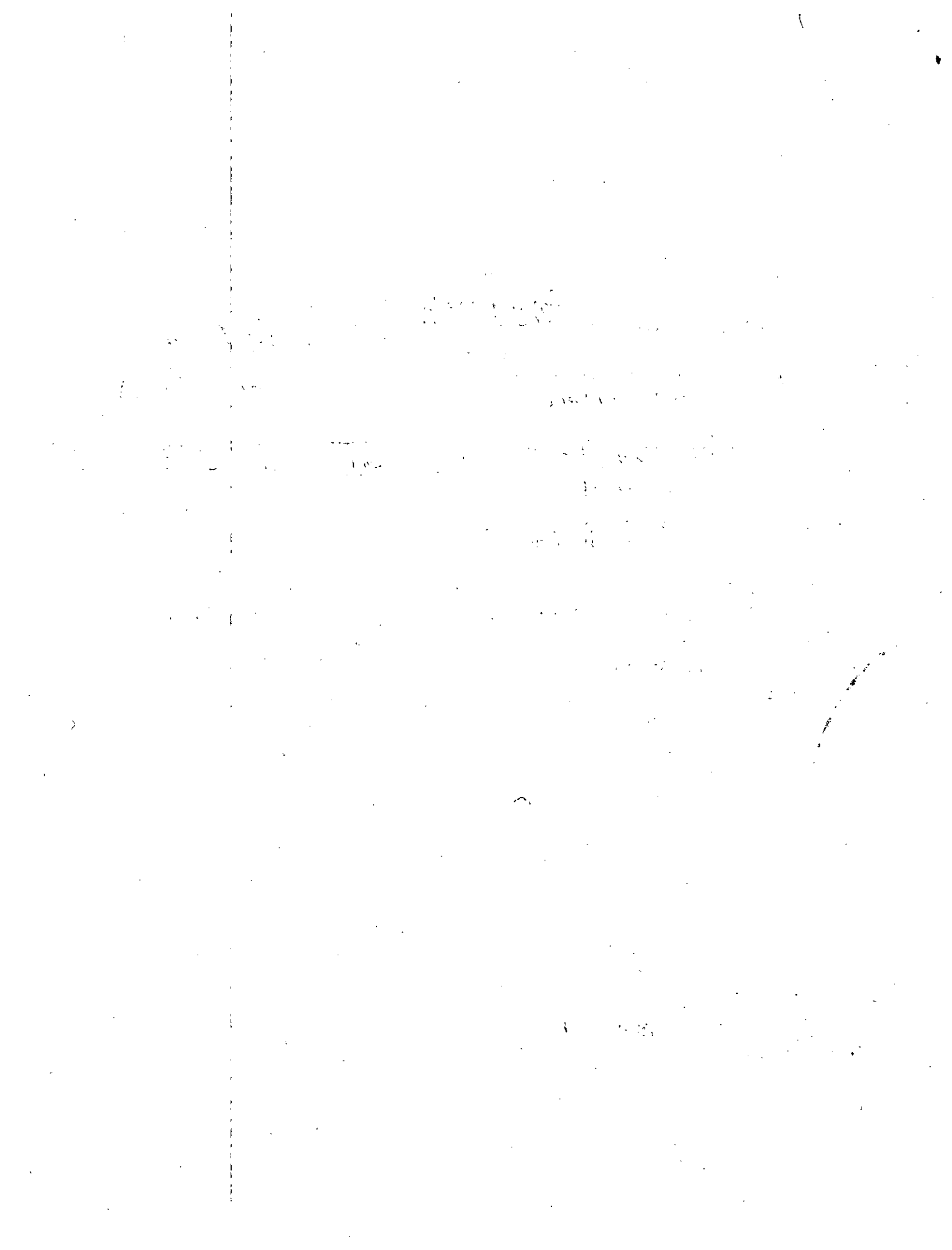
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month _____

Range :Above Normal Normal Below Normal June, 2011

Other References Reviewed: _____





FORM 12 - PERCOLATION TEST

Location Address or Lot No. 147 Bay Rd.

COMMONWEALTH OF MASSACHUSETTS

Amherst, Massachusetts

Percolation Test*		
Date:	<u>7/13/11</u>	Time: <u>10:32</u>
Observation Hole #	<u>1</u>	
Depth of Perc	<u>49"</u>	
Start Pre-soak	<u>10:39 25 gals</u>	
End Pre-soak	<u>couldn't maintain</u>	
Time at 12"	<u>a liquid level</u>	
Time at 9"		
Time at 6"		
Time (9"-6")		
Rate Min./Inch	<u>< 2</u>	

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

Site Passed Site Failed

Performed By: Bob Stover

Witnessed By: Ed Smith

Comments: 5' water table separation required



Location Address or Lot No. 147 Bay Road
Amherst

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 87 inches and 94"
- 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? yes

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

Certification

I certify that on 6/1993 (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 Robert Stover Date 7/13/11



Location Address or Lot No. 147 Bay Rd., Amherst

On-site Review

Deep Hole Number 2 Date: 7/13/11 Time: 11:00 Weather clear, 85°±

Location (identify on site plan) see plan

Land Use residential/yard Slope (%) 11 Surface Stones none

Vegetation red oak, white pine

Landform kame terrace

Position on landscape (sketch on the back)

Distances from:

Open Water Body 200 feet Drainage way none feet
 Possible Wet Area 100 feet + Property Line 35 feet left sideline
 Drinking Water Well 200 feet + Other town water

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-5	A	FSL	10YR5/3 dry	none	Friable
5-14	Bw	LS	10YR4/4 dry	none	loose to very friable
14-110	C	FS	10YR4/4	@94" "varved" VFS+ VFLS 7.5YR4/6	loose, stratified sands firmer below 94"

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) outwash Depth to Bedrock: >110"
 Depth to Groundwater: Standing Water in the Hole: 103" Weeping from Pit Face: 96"
 Estimated Seasonal High Ground Water: 94"



Location Address or Lot No. 147 Bay Rd.

Amherst

On-site Review

Deep Hole Number 1 Date: 7/13/11 Time: 10:15 Weather clear 85°±

Location (identify on site plan) see plan

Land Use residential Slope (%) 1 Surface Stones none

Vegetation red oak, white pine

Landform karre terrace

Position on landscape (sketch on the back)

Distances from:
 Open Water Body 200 feet ± Drainage way none feet
 Possible Wet Area 100 feet ± Property Line 50 feet ± left sideline
 Drinking Water Well 200 feet ± Other town water

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	A	FSL	10YR5/3	none	friable
8-19	Bw	LS	10YR4/4	none	Loose, gravelly remnant Bw
19-87	C ₁	FS gravelly	10YR4/4	none	loose stratified sand+gr.
87-110	E ₂	VFSL	10YR5/3	below 87 7.5YR4/6	Firm, "varved" VFSL and FS+F gravel.

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) outwash Depth to Bedrock: >110"

Depth to Groundwater: Standing Water in the Hole: 100" Weeping from Pit Face: 87"

Estimated Seasonal High Ground Water: 87"



No. _____

Date: 7/13/11

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

Performed By: Robert Stover
Witnessed By: Ed Smith

Date: 7/13/11

Location Address or Lot # <u>147 Bay Road</u> <u>Map 25 B Parcel 27</u>	Owner's Name, Address, and Telephone # <u>Dulcinea M. Santos</u> <u>Amaro R. Ferreira</u> <u>147 Bay Rd. Amherst</u> <u>(413) 253-9834</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available: No Yes

Year Published 1981 Publication Scale 1:15840 Soil Map Unit Hg B

Drainage Class A Soil Limitations poor filter

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) _____

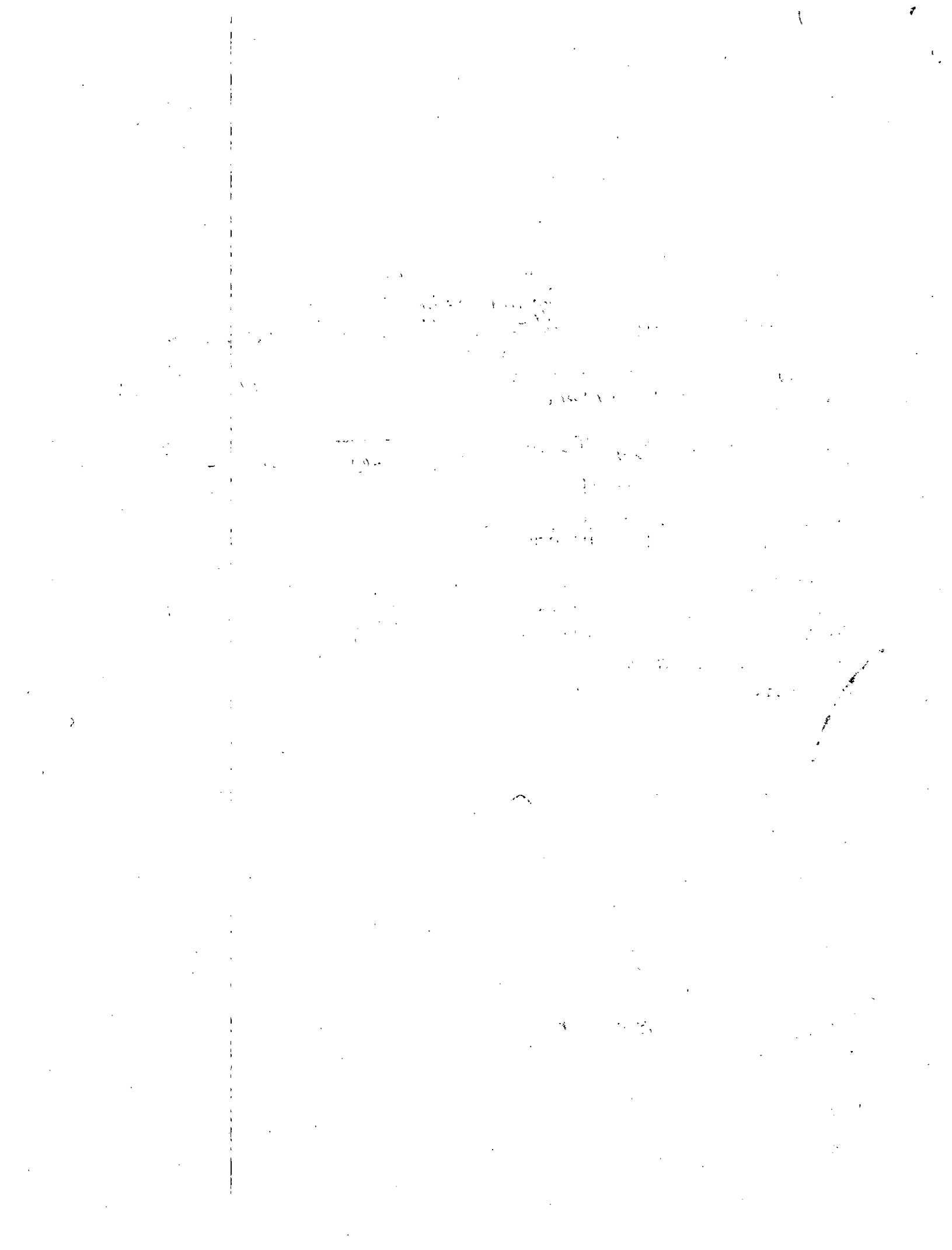
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month

Range :Above Normal Normal Below Normal June, 2011

Other References Reviewed: _____





Location Address or Lot No. 147 Bay Rd.

COMMONWEALTH OF MASSACHUSETTS
Amherst, Massachusetts

Percolation Test*		
Date: <u>7/13/11</u>		Time: <u>10:32</u>
Observation Hole #	<u>1</u>	
Depth of Perc	<u>49"</u>	
Start Pre-soak	<u>10:39 25 gals</u>	
End Pre-soak	<u>couldn't maintain</u>	
Time at 12"	<u>a liquid level</u>	
Time at 9"		
Time at 6"		
Time (9"-6")		
Rate Min./Inch	<u>< 2</u>	

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

Site Passed Site Failed

Performed By: Bob Stover

Witnessed By: Ed Smith

Comments: 5' water table separation required



Location Address or Lot No. 147 Bay Road
Amherst

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 87 inches and 94"
- 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? yes

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

Certification

I certify that on 6/1993 (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 Robert Stover Date 7/13/11



Location Address or Lot No. 147 Bay Rd.

Amherst
On-site Review

Deep Hole Number 1 Date: 7/13/11 Time: 10:15 Weather clear 85°±

Location (identify on site plan) see plan

Land Use residential Slope (%) 1 Surface Stones none

Vegetation red oak, white pine

Landform karst terrace

Position on landscape (sketch on the back)

Distances from:
 Open Water Body 200 feet + Drainage way none feet
 Possible Wet Area 100 feet + Property Line 50 feet ± left + sideline
 Drinking Water Well 200 feet + Other town water

DEEP OBSERVATION HOLE LOG

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-8	A	FSL	10YR5/3	none	friable
8-19	Bw	LS	10YR4/4	none	Loose, gravelly remnant Bw
19-87	C ₁	FS gravelly	10YR4/4	none	loose stratified sand+gr.
87-110	C ₂	VFSL	10YR5/3	below 87 7.5YR4/6	Firm, "varved" VFSL and FS+F gravel

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic) outwash Depth to Bedrock: >110"

Depth to Groundwater: Standing Water in the Hole: 100" Weeping from Pit Face: 87"

Estimated Seasonal High Ground Water: 87"



Location Address or Lot No. 147 Bay Rd., Amherst

On-site Review

Deep Hole Number 2 Date: 7/13/11 Time: 11:00 Weather clear, 85°±
 Location (identify on site plan) See plan
 Land Use residential/yard Slope (%) 11 Surface Stones none
 Vegetation red oak, white pine
 Landform kame terrace
 Position on landscape (sketch on the back)

Distances from:

Open Water Body 200 feet Drainage way none feet
 Possible Wet Area 100 feet + Property Line 35 feet left sideline
 Drinking Water Well 200 feet + Other town water

DEEP OBSERVATION HOLE LOG*

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure, Stones, Boulders, Consistency, % Gravel)
0-5	A	FSL	10YR5/3 dry	none	Friable
5-14	Bw	LS	10YR4/4 dry	none	loose to very friable
14-110	C	FS	10YR4/4	@94" "varved" VFS+ VFLS 7.5YR4/6	loose, stratified sands firmer below 94"

* MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSAL AREA

Parent Material (geologic): outwash Depth to Bedrock: >110"
 Depth to Groundwater: Standing Water in the Hole: 103" Weeping from Pit Face: 96"
 Estimated Seasonal High Ground Water: 94"



No. _____

Date: 7/13/11

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

Performed By: Robert Stover
Witnessed By: Ed Smith

Date: 7/13/11

Location Address or Lot # <u>147 Bay Road</u> <u>Map 25 B Parcel 27</u>	Owner's Name, Address, and Telephone # <u>Dulcinea M. Santos</u> <u>Amaro R. Ferreira</u> <u>147 Bay Rd. Amherst</u> <u>(413) 253-9834</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

Office Review

Published Soil Survey Available: No Yes

Year Published 1981 Publication Scale 1:15840 Soil Map Unit Hg B

Drainage Class A Soil Limitations poor filter

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) _____

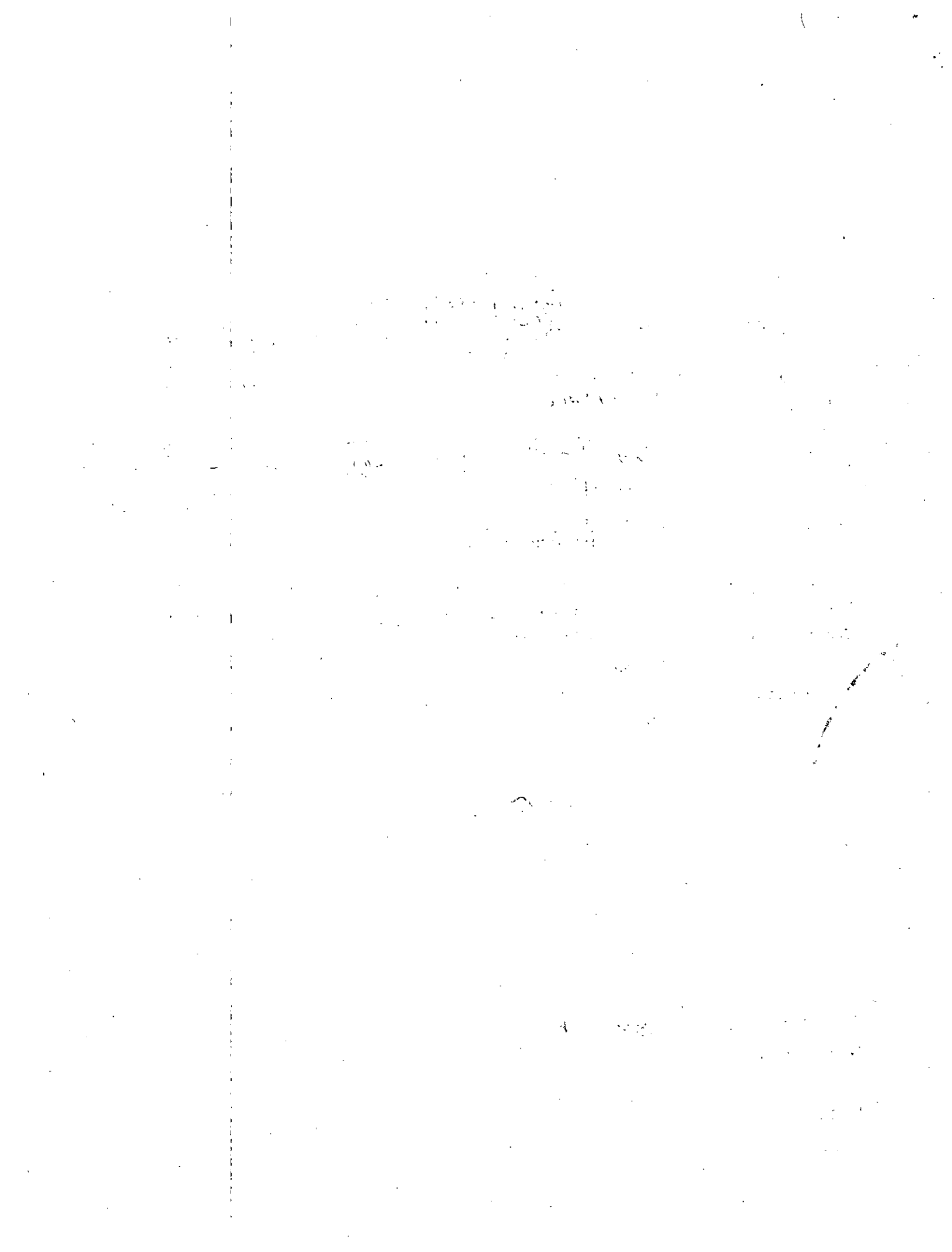
Wetlands Conservancy Program Map (map unit) _____

Current Water Resource Conditions (USGS): Month _____

Range : Above Normal Normal Below Normal June, 2011

Other References Reviewed: _____







Commonwealth of Massachusetts

City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

Form 9A is to be submitted to the Local Board of Health for the upgrade of a failed or nonconforming septic system with a design flow of less than 10,000 gpd, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

System upgrades that cannot be performed in accordance with 310 CMR 15.404 and 15.405, or in full compliance with the requirements of 310 CMR 15.000, require a variance pursuant to 310 CMR 15.410 through 15.415.

NOTE: Local upgrade approval shall not be granted for an upgrade proposal that includes the addition of a new design flow to a cesspool or privy, or the addition of a new design flow above the existing approved capacity of an on-site system constructed in accordance with either the 1978 Code or 310 CMR 15.000.

A. Facility Information

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



1. Facility Name and Address:

Dulcinea M. Dos Santos and Amaro R. Ferreira

Name

147 Bay Road

Street Address

Amherst

City/Town

MA

State

01002

Zip Code

2. Owner Name and Address (if different from above):

same

Name

Street Address

City/Town

State

Zip Code

(413) 253-9834

Telephone Number

3. Type of Facility (check all that apply):

- Residential Institutional Commercial School

4. Describe Facility:

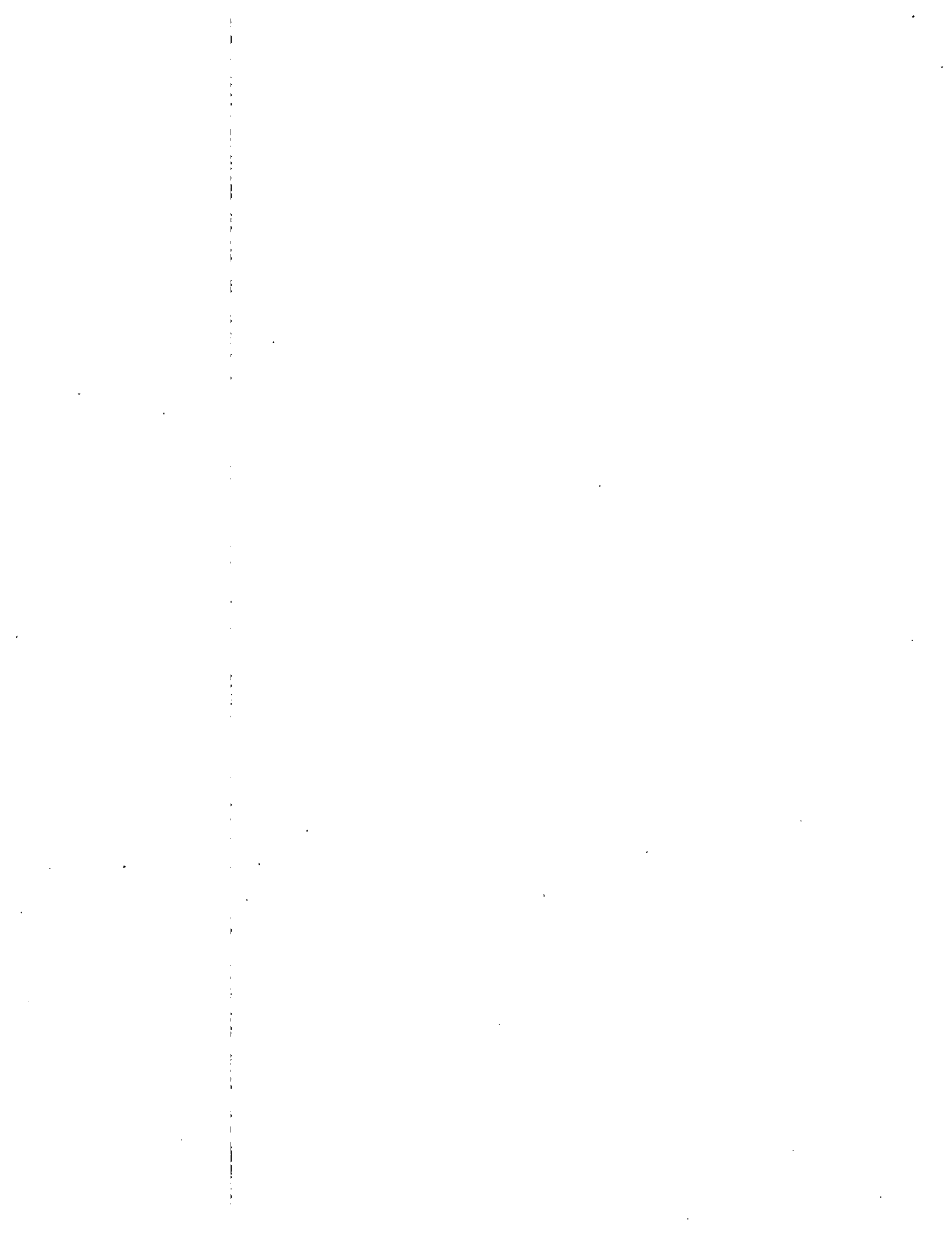
three bedroom full-time single family house without a garbage grinder

5. Type of Existing System:

- Privy Cesspool(s) Conventional Other (describe below):

6. Type of soil absorption system (trenches, chambers, leach field, pits, etc):

existing: two pipe and stone leach trenches





Form 9A – Application for Local Upgrade Approval

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

A. Facility Information (continued)

7. Design Flow per 310 CMR 15.203:

Design flow of existing system:	<u>not known</u>
	<u>gpd</u>
Design flow of proposed upgraded system	<u>505.77</u>
	<u>gpd</u>
Design flow of facility:	<u>330.00</u>
	<u>gpd</u>

B. Proposed Upgrade of System

1. Proposed upgrade is (check one):

Voluntary Required by order, letter, etc. (attach copy)

Required following inspection pursuant to 310 CMR 15.301:

June 29, 2011

date of inspection

2. Describe the proposed upgrade to the system:

install distribution box and two leach trenches consisting of 24 (12 per trench) Infiltrator Quick4 Plus standard low profile chambers

3. Local Upgrade Approval is requested for (check all that apply):

Reduction in setback(s) – describe reductions:

Reduction in SAS area of up to 25%:

SAS size, sq. ft.

% reduction

Reduction in separation between the SAS and high groundwater:

Separation reduction

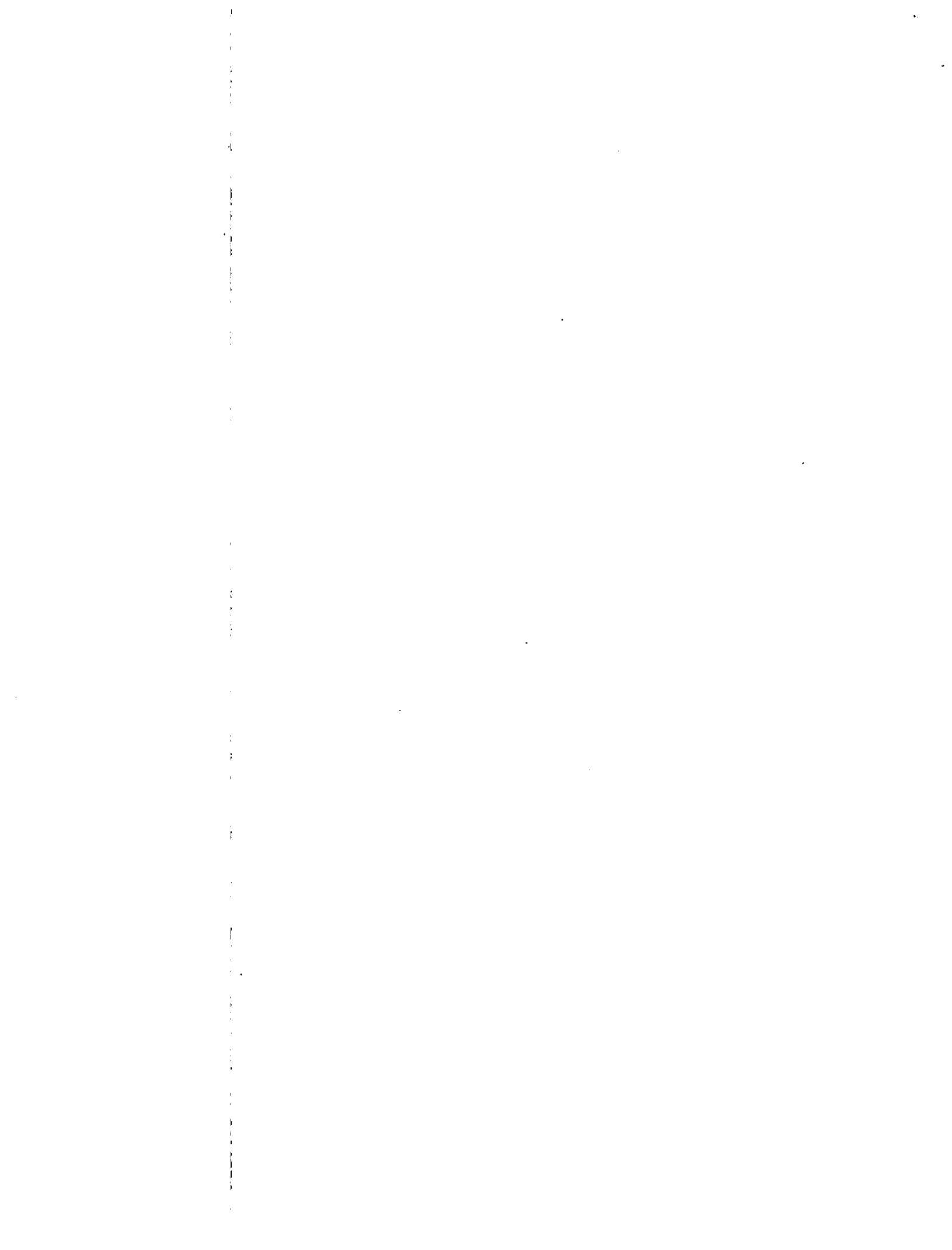
from 5.00 to 4.27
ft.

Percolation rate

less than 2
min./inch

Depth to groundwater

87-inches
ft.





Form 9A – Application for Local Upgrade Approval

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

B. Proposed Upgrade of System (continued)

Relocation of water supply well (explain):

Reduction of 12-inch separation between inlet and outlet tees and high groundwater

Use of only one deep hole in proposed disposal area

Use of a sieve analysis as a substitute for a perc test

Other requirements of 310 CMR 15.000 that cannot be met – describe and specify sections of the Code:

If the proposed upgrade involves a reduction in the required separation between the bottom of the soil absorption system and the high groundwater elevation, an Approved Soil Evaluator must determine the high groundwater elevation pursuant to 310 CMR 15.405(1)(h)(1). **The soil evaluator must be a member or agent of the local approving authority.**

High groundwater evaluation determined by:

		7/13/11
Evaluator's Name (type or print)	Signature	Date of evaluation

C. Explanation

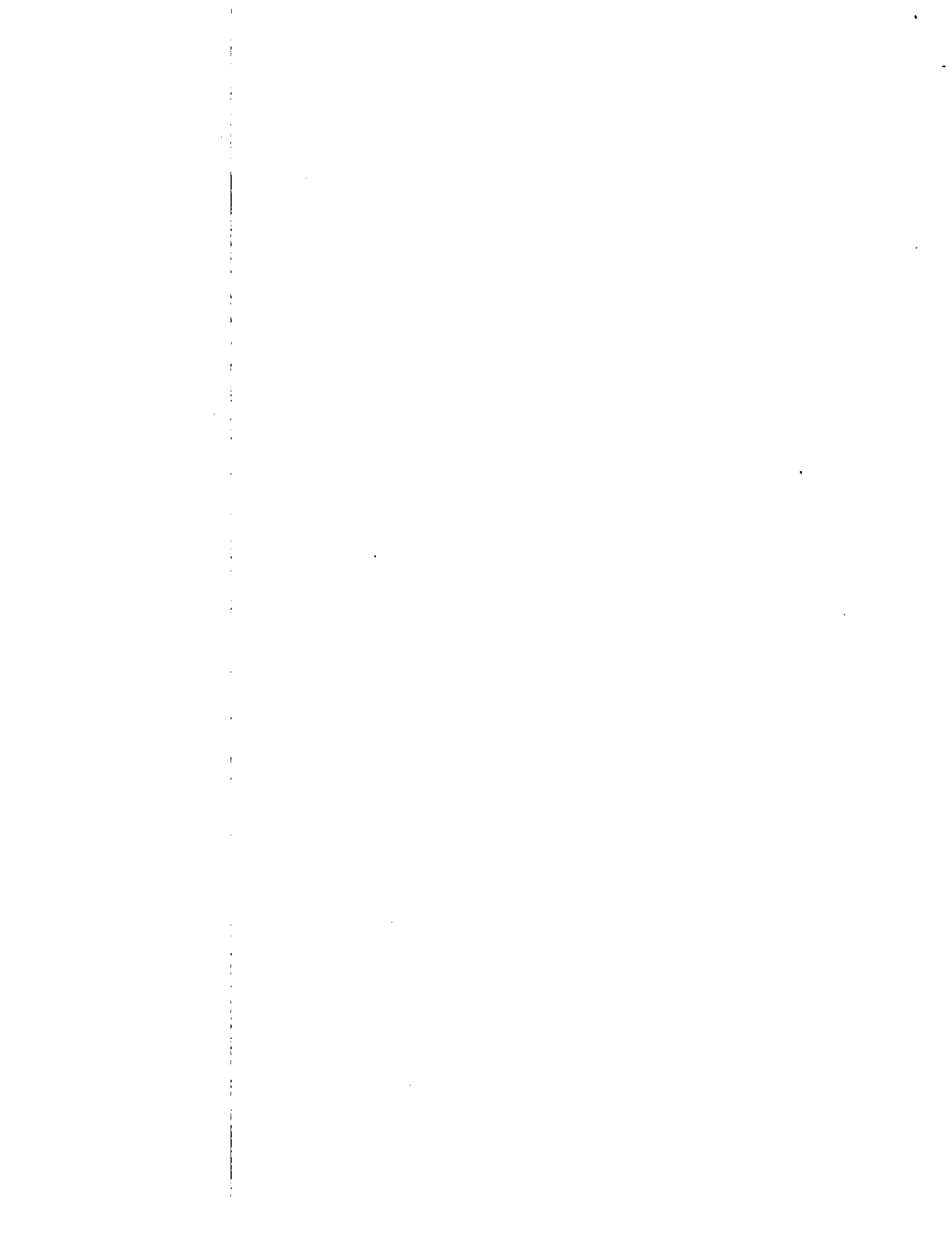
Explain why full compliance, as defined in 310 CMR 15.404(1), is not feasible. (Each section must be completed)

1. An upgraded system in full compliance with 310 CMR 15.000 is not feasible:

Existing septic tank is structurally sound according to system inspector Nathan Torretti and it's high in the ground but it is still too deep to allow for a 5-ft separation from the estimated seasonal high ground water elevation.

2. An alternative system approved pursuant to 310 CMR 15.283 to 15.288 is not feasible:

This facility does not warrant an alternative system.





Commonwealth of Massachusetts

City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

C. Explanation (continued)

3. A shared system is not feasible:

There is no abutter known to need to share a system. A shared system is not warranted by the circumstances of this facility.

4. Connection to a public sewer is not feasible:

This area is not served by public sewer.

5. The Application for Local Upgrade Approval must be accompanied by all of the following (check the appropriate boxes):

- Application for Disposal System Construction Permit
Complete plans and specifications
Site evaluation forms
A list of abutters affected by reduced setbacks to private water supply wells or property lines. Provide proof that affected abutters have been notified pursuant to 310 CMR 15.405(2).
Other (List):

D. Certification

"I, the facility owner, certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for deliberate violations."

Dulcinea dos Santos (handwritten signature)

Facility Owner's Signature

Dulcinea M. Dos Santos & Amaro R. Ferreira

Print Name

Robert Stover

Name of Preparer

P. O. Box 3312

Preparer's address

01004-3312

State/ZIP Code

8/11/11

Date

7/28/11

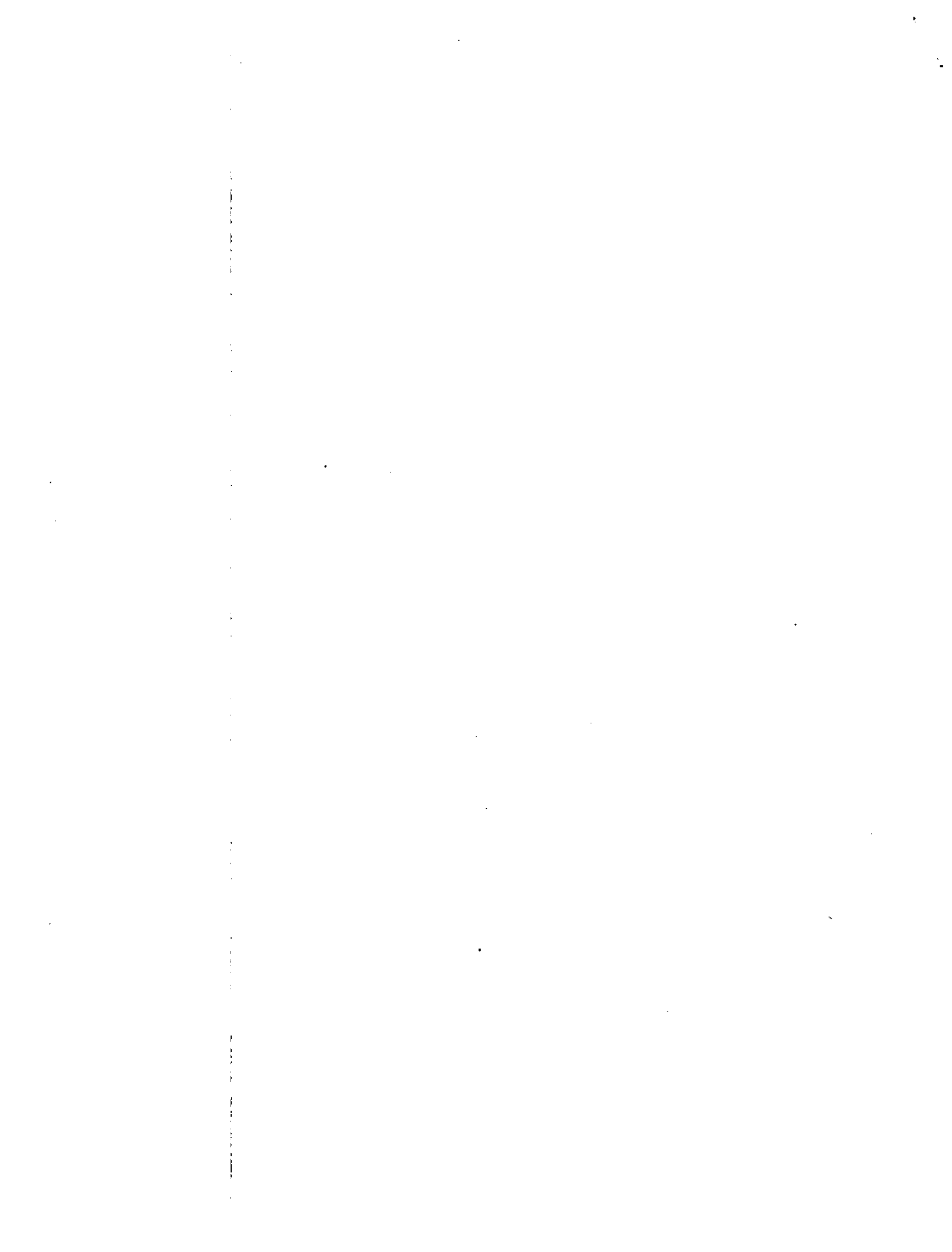
Date

Amherst

City/Town

(413) 256-3400

Telephone





Commonwealth of Massachusetts
 City/Town of Amherst
Local Upgrade Approval
 Form 9B

DEP has provided this form for use by local Boards of Health if they choose to do so.

The Local Upgrade Approval is to be completed by the local Board of Health and a signed copy provided to the system owner.

A. Facility Information

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



1. Facility Name and Address

Dulcinea M. Dos Santos and Amaro R. Ferreira

Name

147 Bay Road

Street Address

Amherst

City/Town

MA

State

01002

Zip Code

2. Owner Name and Address (if different from above):

same

Name

Street Address

City/Town

State

Zip Code

(413) 253-9834

Telephone Number

3. Type of Facility (check all that apply):

Residential Institutional Commercial School

4. Design flow per 310 CMR 15.203:

330
gpd

5. System Designer:

Paul M. Styspeck, PE / Robt
Stover

PE RS

P. O. Box 3312

Address

Amherst

City/Town

MA 01004-3312

State, ZIP

B. Approval

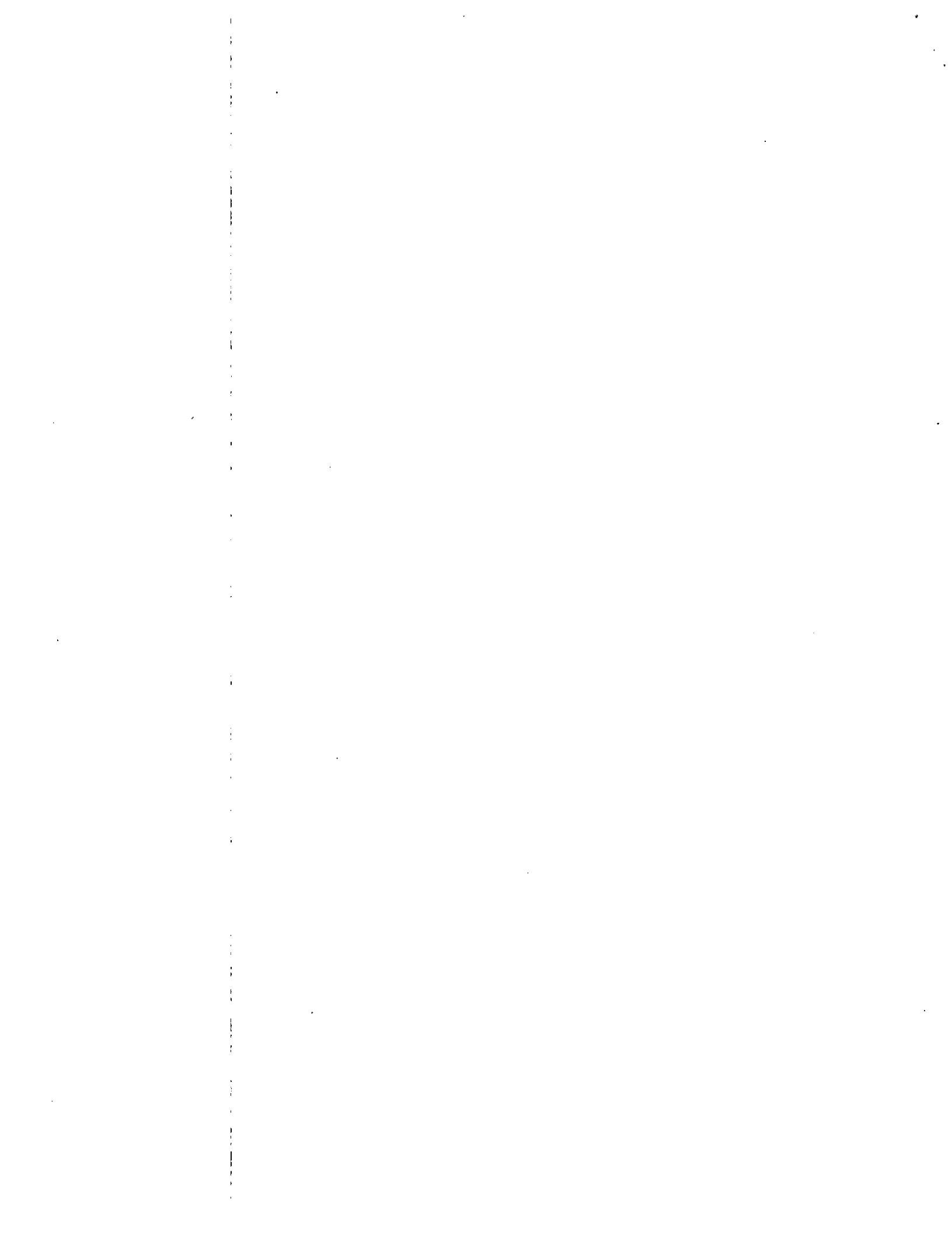
1. Local Upgrade Approval is granted for:

Reduction in setback(s) – specify:

Reduction in SAS area of up to 25%:

SAS size, sq. ft.

% reduction





Commonwealth of Massachusetts
 City/Town of Amherst
Local Upgrade Approval
 Form 9B

B. Approval (continued)

Reduction in separation between the SAS and high groundwater:

Separation reduction	from 5.00 to 4.27
	ft.
Percolation rate	less than 2
	min./inch
Depth to groundwater	87-inches
	ft.

Relocation of water supply well (explain):

Reduction of 12-inch separation between inlet and outlet tees and high groundwater

Use of only one deep hole in proposed disposal area

Use of a sieve analysis as a substitute for a perc test

List local variances granted not requiring DEP approval per 310 CMR 15.412(4):

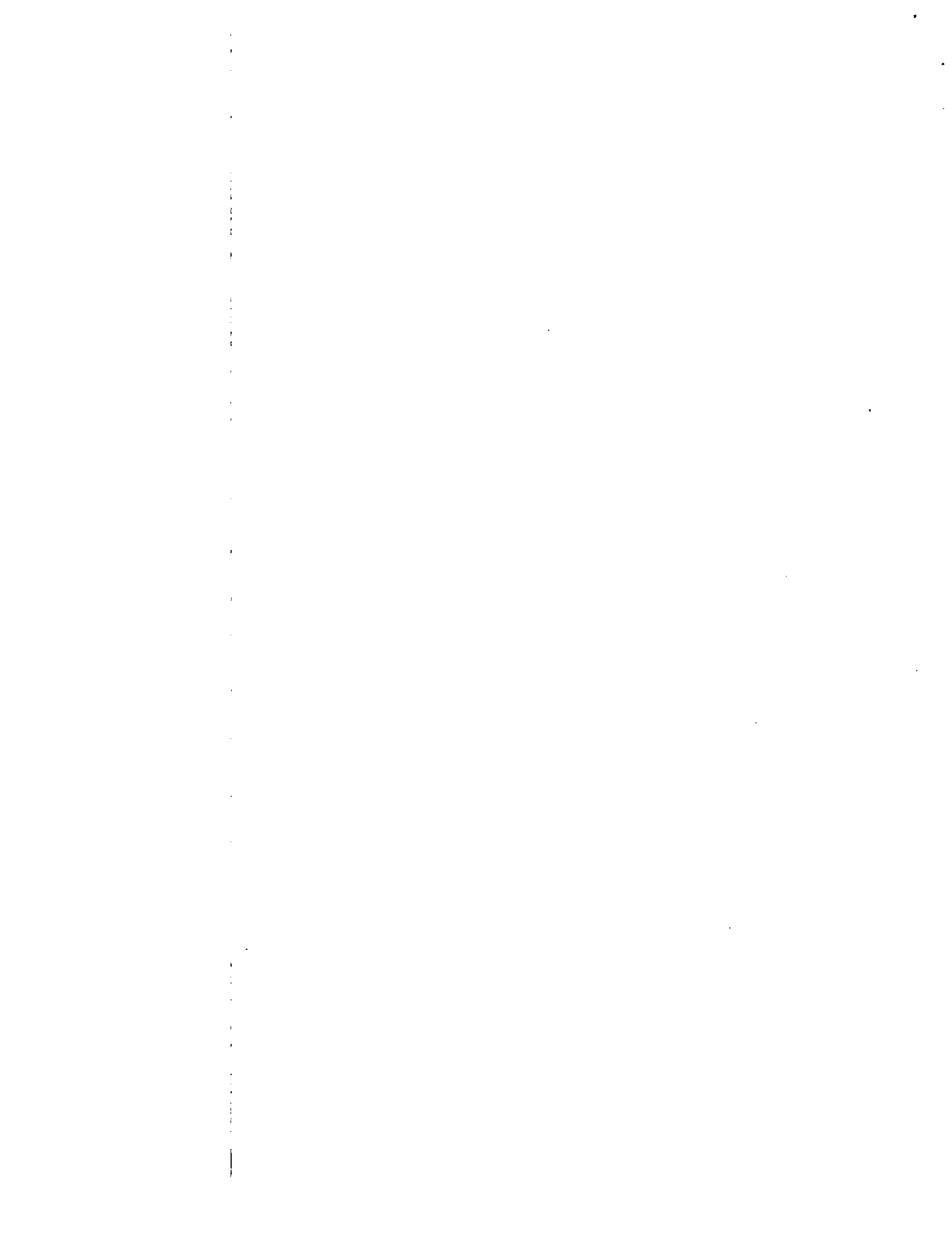
List variances granted requiring DEP approval:

Approving Authority

Print or Type Name and Title

Signature

Date





Commonwealth of Massachusetts
City/Town of
Septic System Installation Checklist

DEP has provided this form for use by local Boards of Health if they wish to do so.

A. Applicant Information

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



DOLINEIA DOS SANTOS E AMARO FERREIRA
Name

147 BAY ROAD
Address

AMHERS MA 01002
City State Zip Code

12-07 GRANBY SEPTIC
Disposal System Construction Permit # Map Lot

BOB STOVER
Installer

EDMUND SMITH
Designer

Board of Health Representative

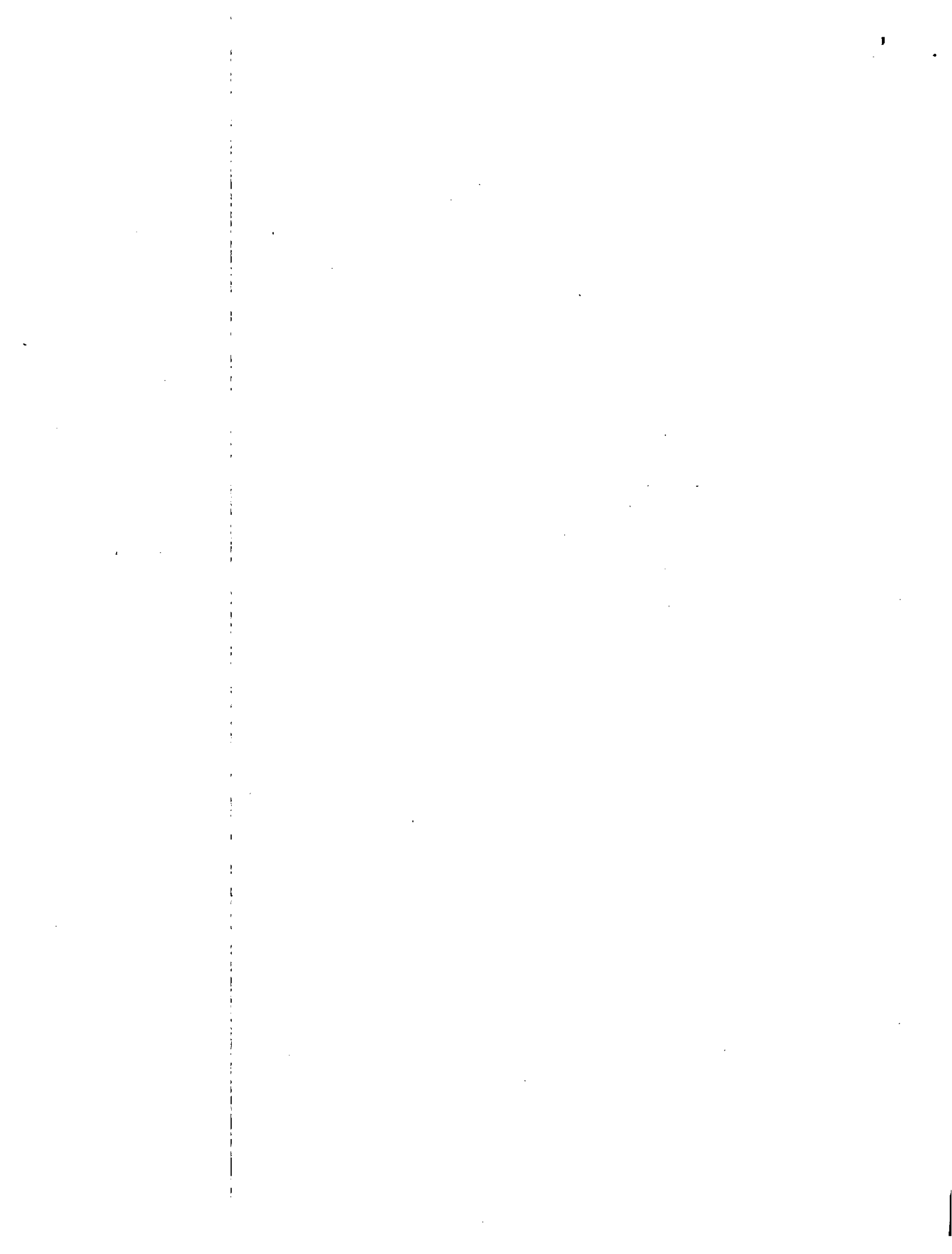
Inspection Dates:

Tank: PASSED 6/29/2011 Leach Area: 9/21/2011
ONLY TITLE Date Date

Final: 9/21/2011 Other: _____
Date Date

B. Application Checklist

1. Pre-Construction Conference	Approved	N/A	Problem
Sieve analysis supplied for sand	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Current approved plans (3 copies)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
System staked prior to construction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
On-site check for tank water-tightness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abandonment of existing system (repairs)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plan revision(s)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conditions/Approvals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O/M Plan on file	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DEP approval on file	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>





Commonwealth of Massachusetts
City/Town of
Septic System Installation Checklist

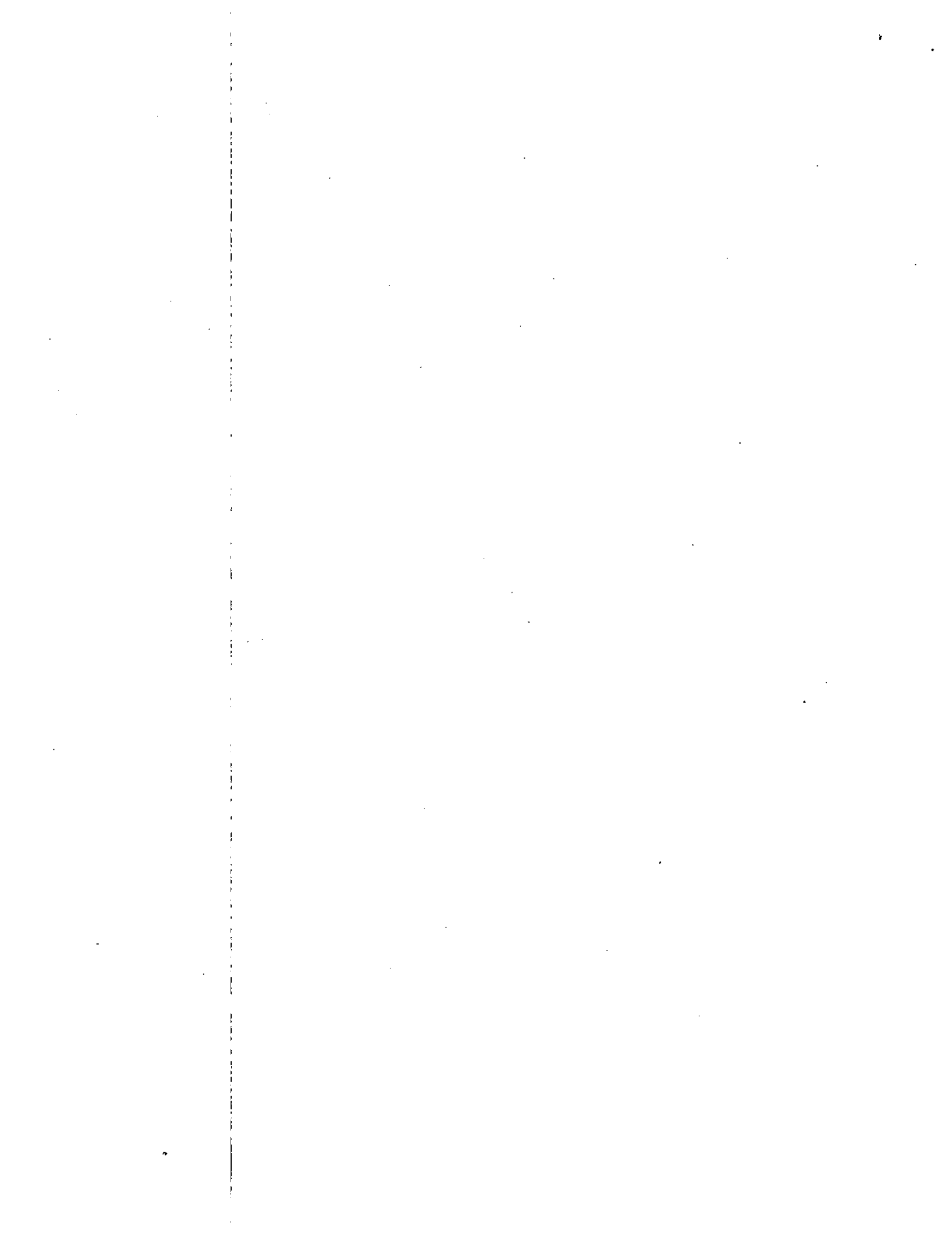
B. Application Checklist (cont.)

2. Construction Inspection

		Approved	N/A	Problem
a) Building Sewer (310 CMR 15.222)				
All waste pipes tied into building sewer	Basement check	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schedule 40 PVC 4" or cast iron	Verify by reading pipe	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum slope of 0.01-0.02	Visual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pipe laid in continuous straight line	Visual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pipe laid on compact, firm base	Visual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cleanouts precede all changes in alignment/grade	Verify by visual/tape	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cleanout provided every 100 ft.	Verify by visual/tape	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Backfill material clean	Visual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Septic Tank (310 CMR 15.223)				
Tank is set level with 6" stone under (15.228)	Check with level	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank is required size/loading per plan	Verify with plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inlet and outlet are at proper location (15.227)	Verify with plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank is water tight (15.226)	Test	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Outlet tees extend 6" above flow line	Verify by visual/tape	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Approved filter device placed at outlet	DEP list	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gas baffle installed at outlet tee	Visual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Inlet and outlet tees on center line	Visual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank is backfilled with acceptable material	Visual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

*THANK
PASSED
TITLE ✓ 6/29/2011*



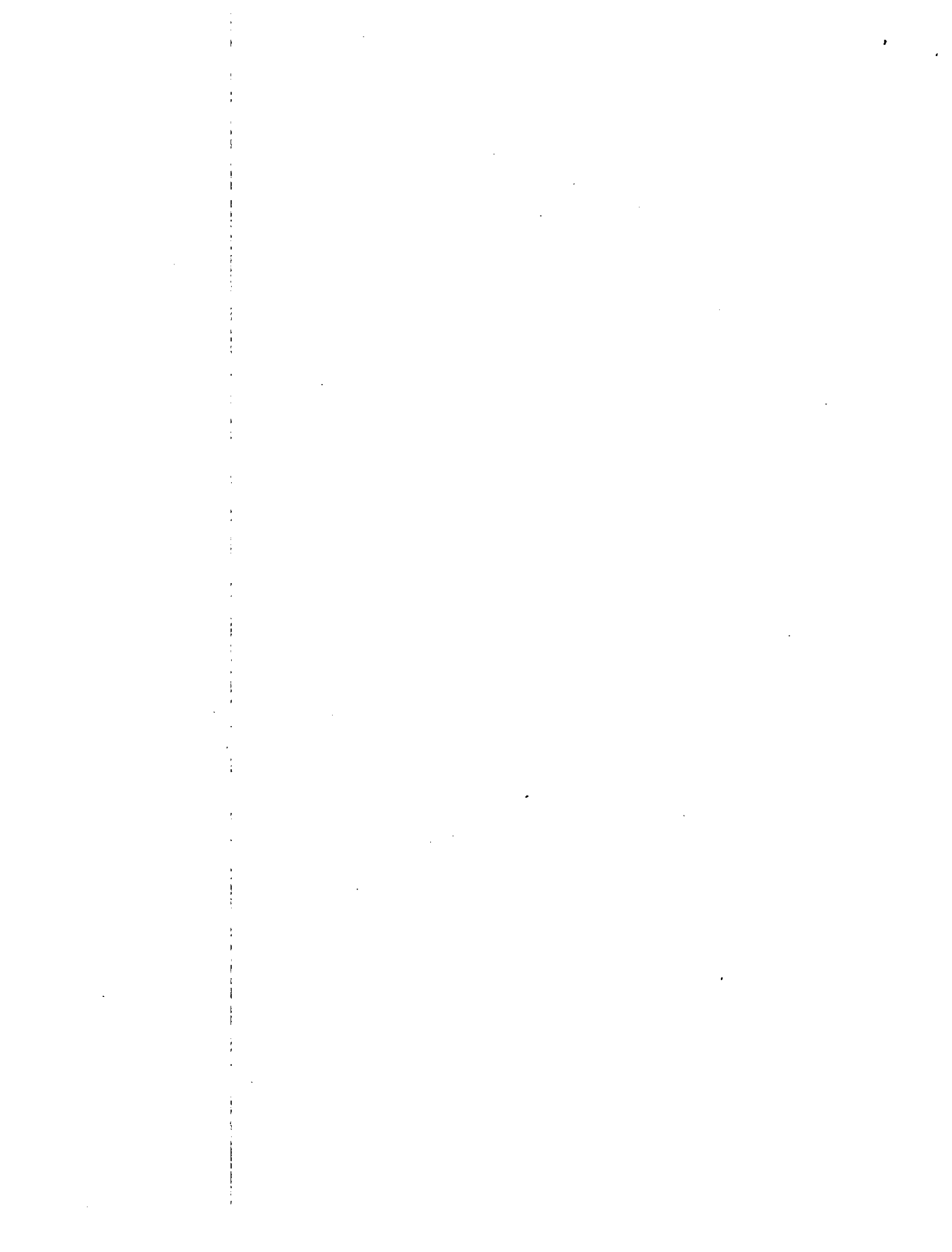


Commonwealth of Massachusetts
 City/Town of
Septic System Installation Checklist

B. Application Checklist (cont.)

		9/21/2021	Approved	N/A	Problem
c) Distribution Box (310 CMR 15.232)					
All outlet pipes at same elevation	Check by adding water		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of outlets <u>2</u> per plan	Number of laterals <u>2</u> per plan				
Inlet tee min. 1" over outlet	Visual and w/tape		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D box set on level base	Visual		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Top of D box 36" max depth	Visual and w/tape		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D box is water-tight	Add water		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D box has a minimum of 2" thick wall and 12" inside dimension			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Pump Chamber (310 CMR 15.231)			Approved	N/A	Problem
Tank is set level	Visual and w/level		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper volume is provided	Check plan and tank		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Float elevations set per plan	Measure w/tape		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Min. 2" delivery line to D box	Visual		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of pumps: _____			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Specified pump provided or designers approval for equal pump			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct pump sequence			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Covers set to grade			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electrical permit provided			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6" of stone beneath chamber	Visual		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chamber is water-tight	Test		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Min. 9" cover provided	Visual		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct loading provided per plan	Visual on tank		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Notes:

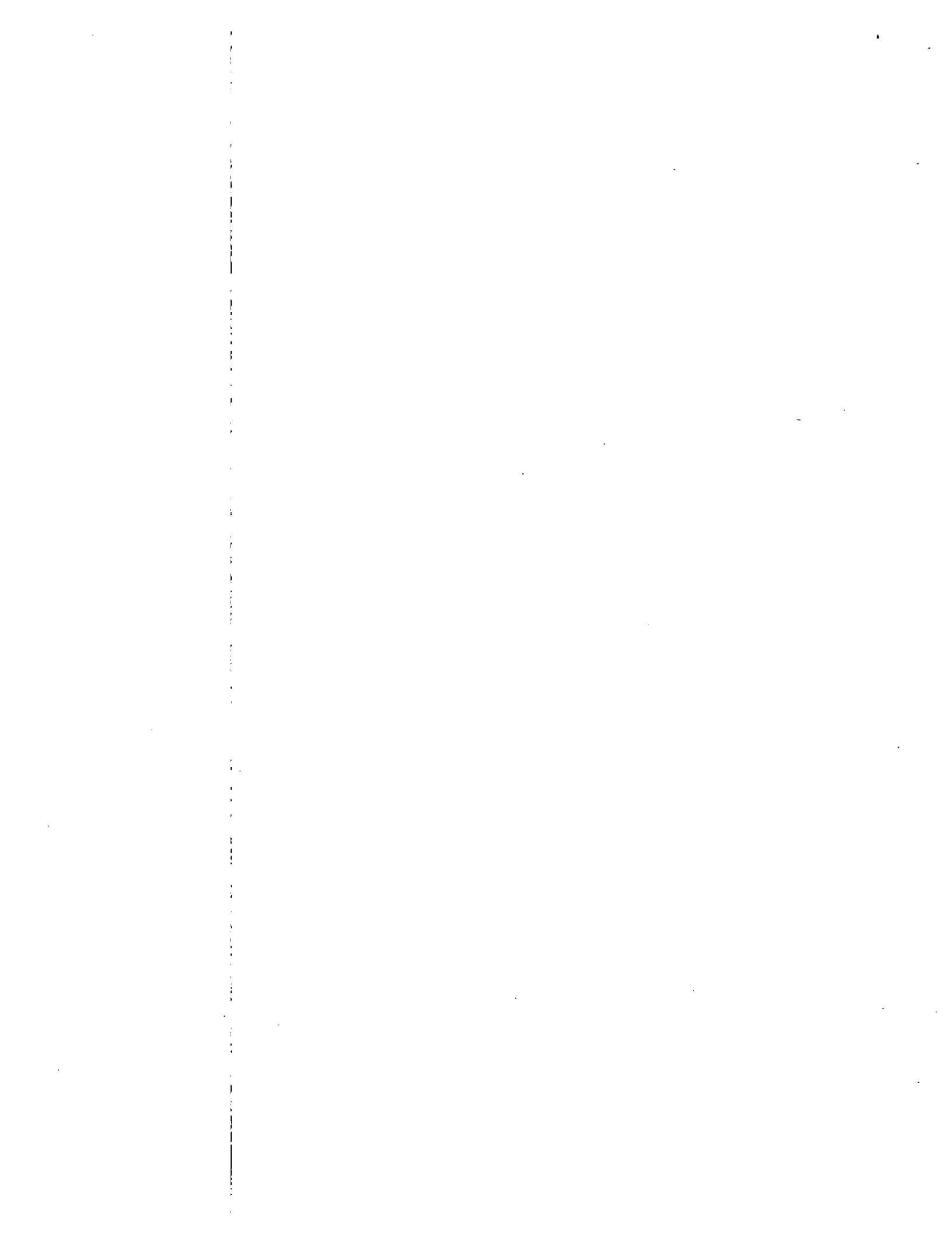




Commonwealth of Massachusetts
 City/Town of
Septic System Installation Checklist

B. Application Checklist (cont.)

e) Leaching Facility (310 CMR 15.240)		Approved	N/A	Problem
No frozen material used including back fill	Visual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No clay, tailings or stones larger than 6" for cover material		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil at bottom/sides of excavation matches info on deep holes		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All impervious layers removed	Visual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No remaining A/B horizons	Visual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Groundwater conditions match plan and deep holes	Visual/check plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vented if under impervious cover per plan (15.241)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vent is protected from precipitation and animal entry		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cover of a minimum of 9" over leach area		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pipe slope equal to 0.005	Check w/transit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leach area per design (15.241)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Excavation is level and at required depth	Visual/check plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Removal of 5 ft material and replacement (if in fill)	Visual/check plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Back fill material is acceptable	Visual	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Final contours correct per plan	Check with plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surface/subsurface drainage away from leach area		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Final grade and side slopes are stable		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Distribution lines are capped, vented, or connected together		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impermeable barrier (15.255[2])		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retaining wall inspected by PE		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retaining wall is water-proofed		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retaining wall/barrier is at correct depth/height		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

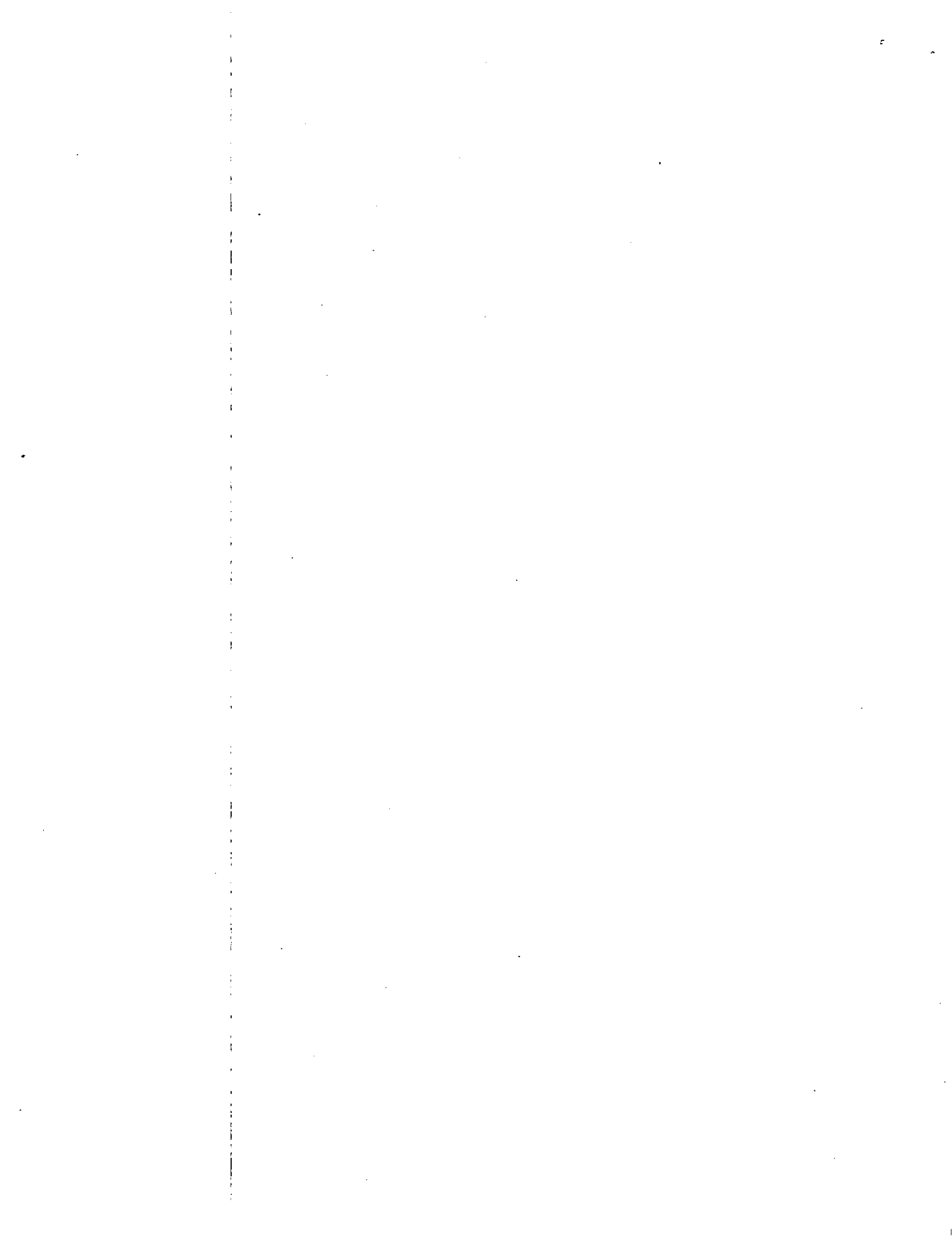


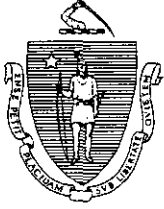


Commonwealth of Massachusetts
 City/Town of
Septic System Installation Checklist

B. Application Checklist (cont.)

		Approved	N/A	Problem
f) Leaching trenches (310 CMR 15.251)				
Number of trenches:	<u>2</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Depth of trenches:	<u>3'</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Width of trenches:	<u>INFILTRATOR</u> <u>34"</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trench spacing per plan		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stone is double-washed [3/4" to 1 1/2"] (15.247)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Leaching fields (310 CMR 15.242)				
Length of field:	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Width of field:	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Min. of 2 distribution lines		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Separation distance conforms to plan		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stone is double-washed [3/4" to 1 1/2"] (15.247)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h) Leaching Pits (310 CMR 15.253)				
Number of pits:	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Depth of pits:	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stone is double-washed [3/4" to 1 1/2"] (15.247)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Each pit has min. 1 20" access cover		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Piping network and configuration of pits/chambers per plan		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i) Tight Tank (310 CMR 15.260)				
Tank is set level with 6" stone under	Visual and with level	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tank is proper size per plan	Visual with plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pumping contract has been provided		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Covers to grade	Visual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A/V alarm set at 3/5 tank capacity	Check floats by raising	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A/V alarm test on separate circuit	Set off alarm	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>





Commonwealth of Massachusetts
City/Town of
Septic System Installation Checklist

B. Application Checklist (cont.)

j) Certificate of Compliance (310 CMR 15.021)

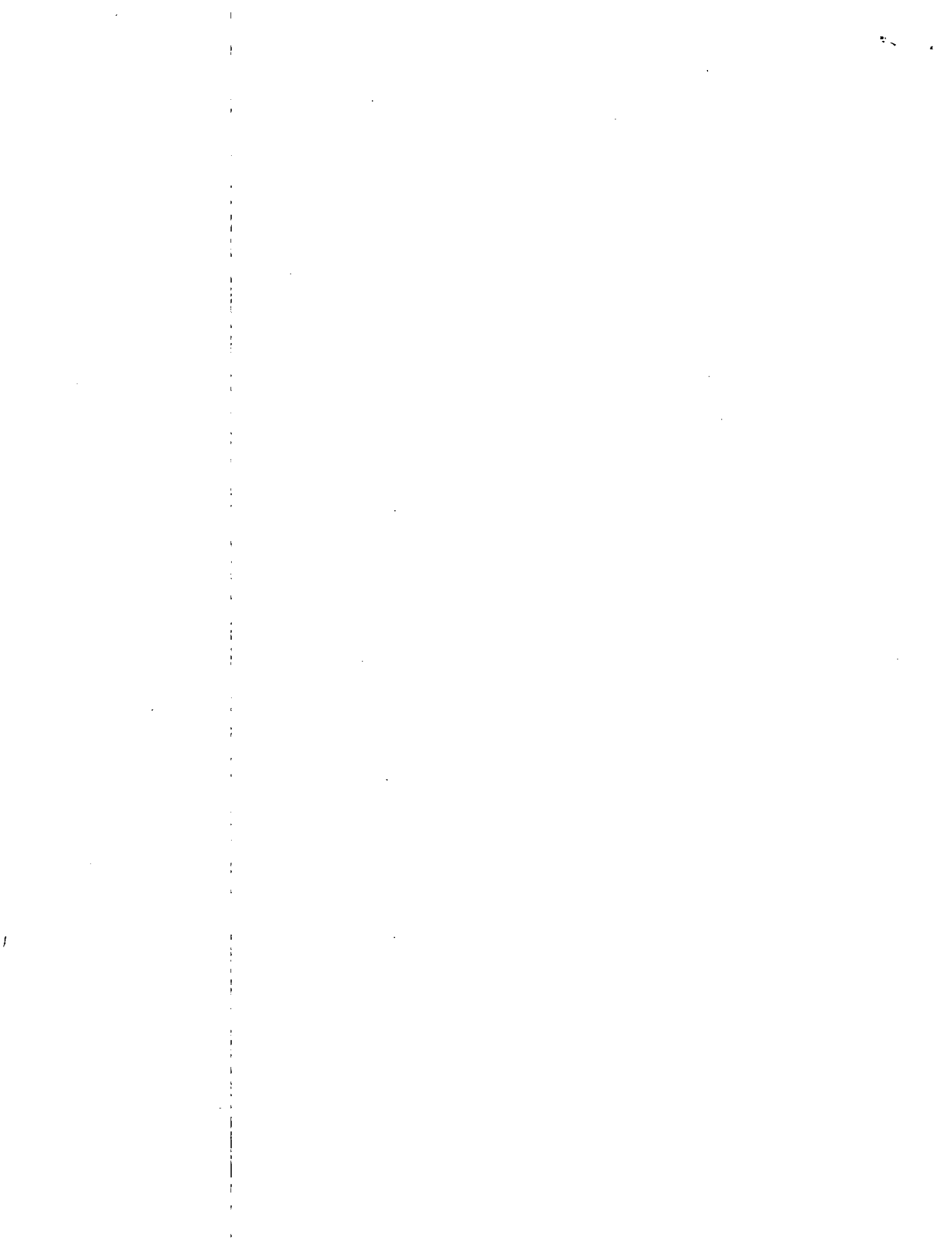
As Built Plan Submitted _____ Date _____

Signed by Installer _____ Date _____

Signed by Designer _____ Date _____

Certificate of Compliance Issued _____ Date _____

Notes:





Commonwealth of Massachusetts
 City/Town of Amherst
 Application for Disposal System
 Construction Permit
 Form 1A

Number _____
 \$ _____
 Fee _____

DEP has provided this form for use by local Boards of Health if they choose to do so. Before using the form, check with your local Board of Health to make sure that they will accept it.

A. Facility Information

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

Application is hereby made for a permit to: Construct a new on-site sewage disposal system
 Repair or replace an existing on-site sewage disposal system
 Repair or replace an existing system component

1. Location of Facility:

147 Bay Road
 Address or Lot #
 Amherst MA 01002
 City/Town State Zip Code



2. Owner Information

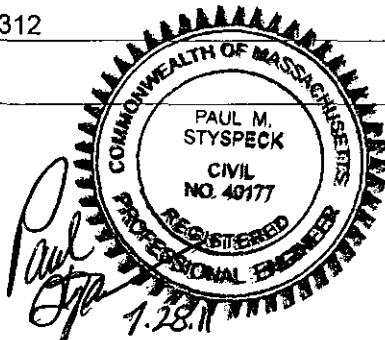
Dulcinea M. Dos Santos and Amaro R. Ferreira
 Name
 same
 Address (if different from above)
 City/Town State Zip Code
 (413) 253-9834
 Telephone Number

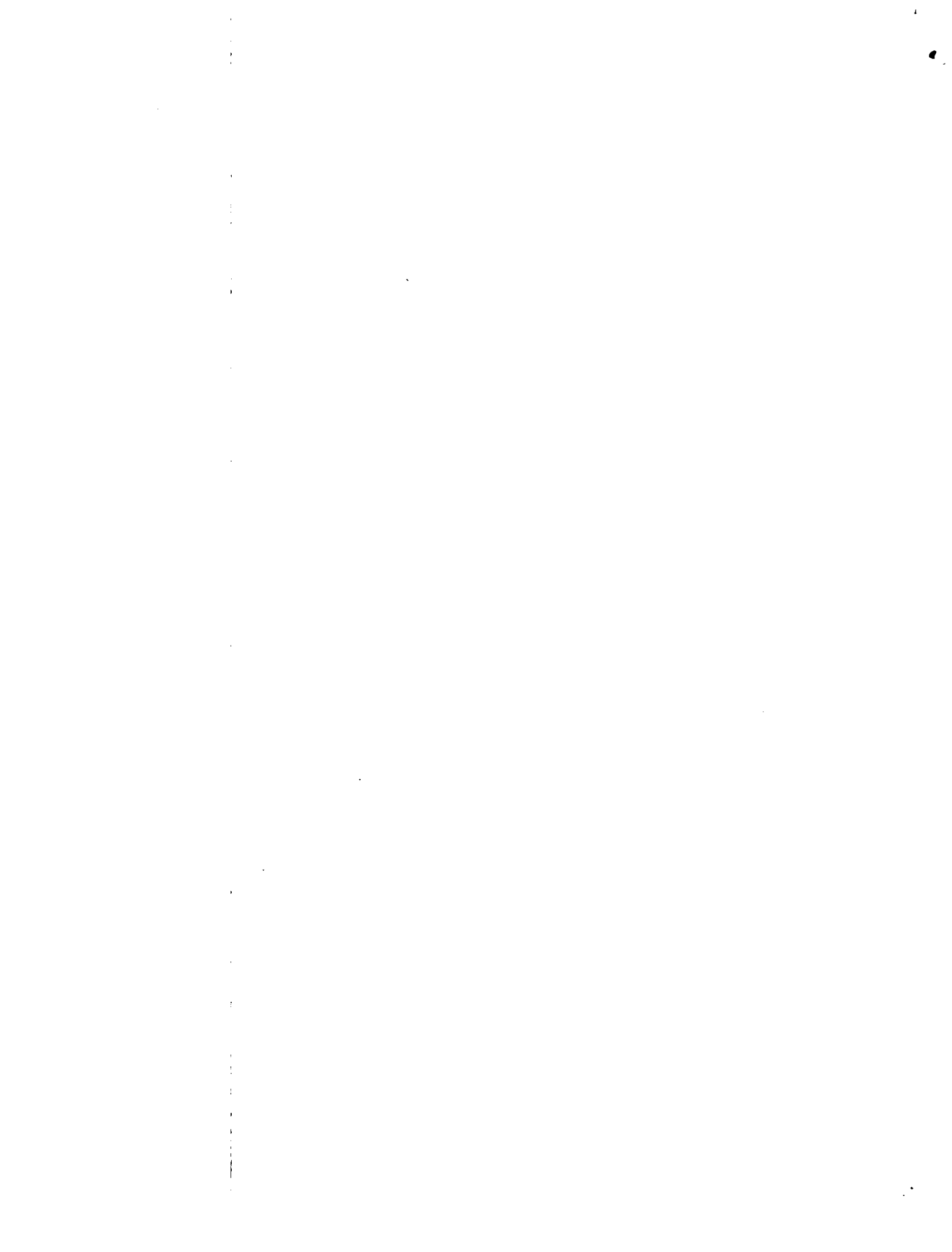
3. Installer Information

Name _____ Name of Company _____
 Address _____
 City/Town State Zip Code
 Telephone Number _____

4. Designer Information

Paul M. Styspeck, PE / Robert Stover Amherst Environmental Services
 Name Name of Company
 P. O. Box 3312
 Address
 Amherst MA 01004-3312
 City/Town State Zip Code
 (413) 256-3400
 Telephone Number







Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee

A. Facility Information (continued)

5. Type of Building:

- Dwelling Garbage Grinder (check if present)

Other: Type of Building _____ Number of Persons Served

- Showers Number of showers _____ Cafeteria Other fixtures

Specify other fixtures: _____

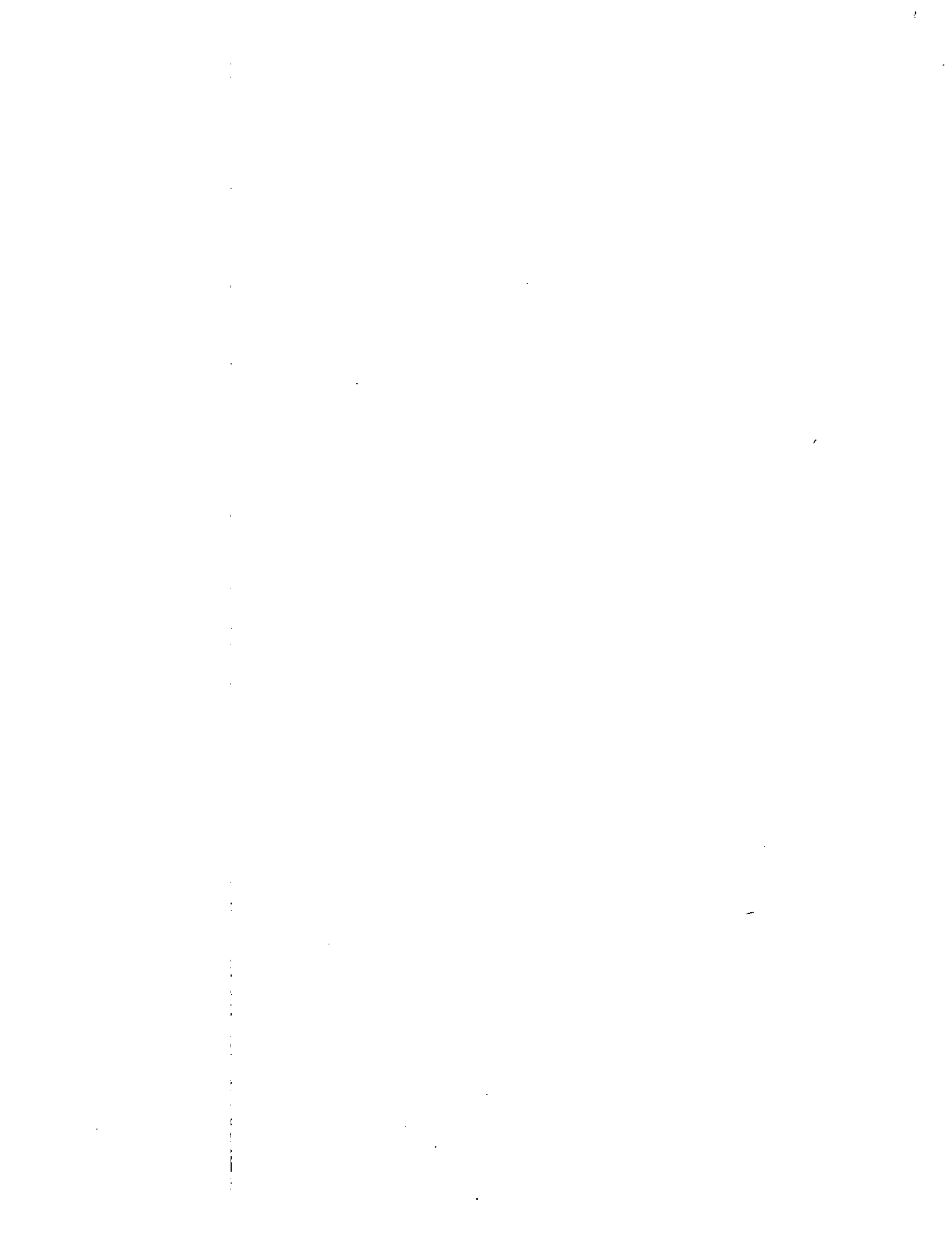
6. Design Flow: 330.00
 Gallons per Day
 Calculated Daily Flow: 505.77
 Gallons

7. Plan: 7/27/11
 Date of Original
 one
 Number of Sheets Revision Date
 "Plan of Septic System Repair"
 Title of Plan

8. Description of Soil:
 attached

9. Nature of Repairs or Alterations (if applicable):
 replace failed soil absorption system with new distribution box and two leaxh trenches consisting of
 24 (12 per trench) Infiltrator Quick4 Plus standard low profile chambers.

10. Date last inspected: 6/29/11 by Nathan Torretti
 Date





Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee _____

B. 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.

Wendy dos Santos
 Signature

8/11/11
 Date

Application Approved By:

 Name

 Date

Application **Disapproved** for the following reasons:





Commonwealth of Massachusetts
 City/Town of Amherst
Disposal System Construction Permit
 Form 2A

Number _____

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

Permission is hereby granted to:

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



Amaro R. Ferreira and Dulcinea M. Dos Santos
 Name Name of Company
147 Bay Road
 Address
Amherst MA 01002
 City/Town State Zip Code

to perform the following work on an on-site sewage disposal system:

- Construction
- Repair or replacement
- Repair or replacement of system components

same
 Facility Address

 City/Town State Zip Code

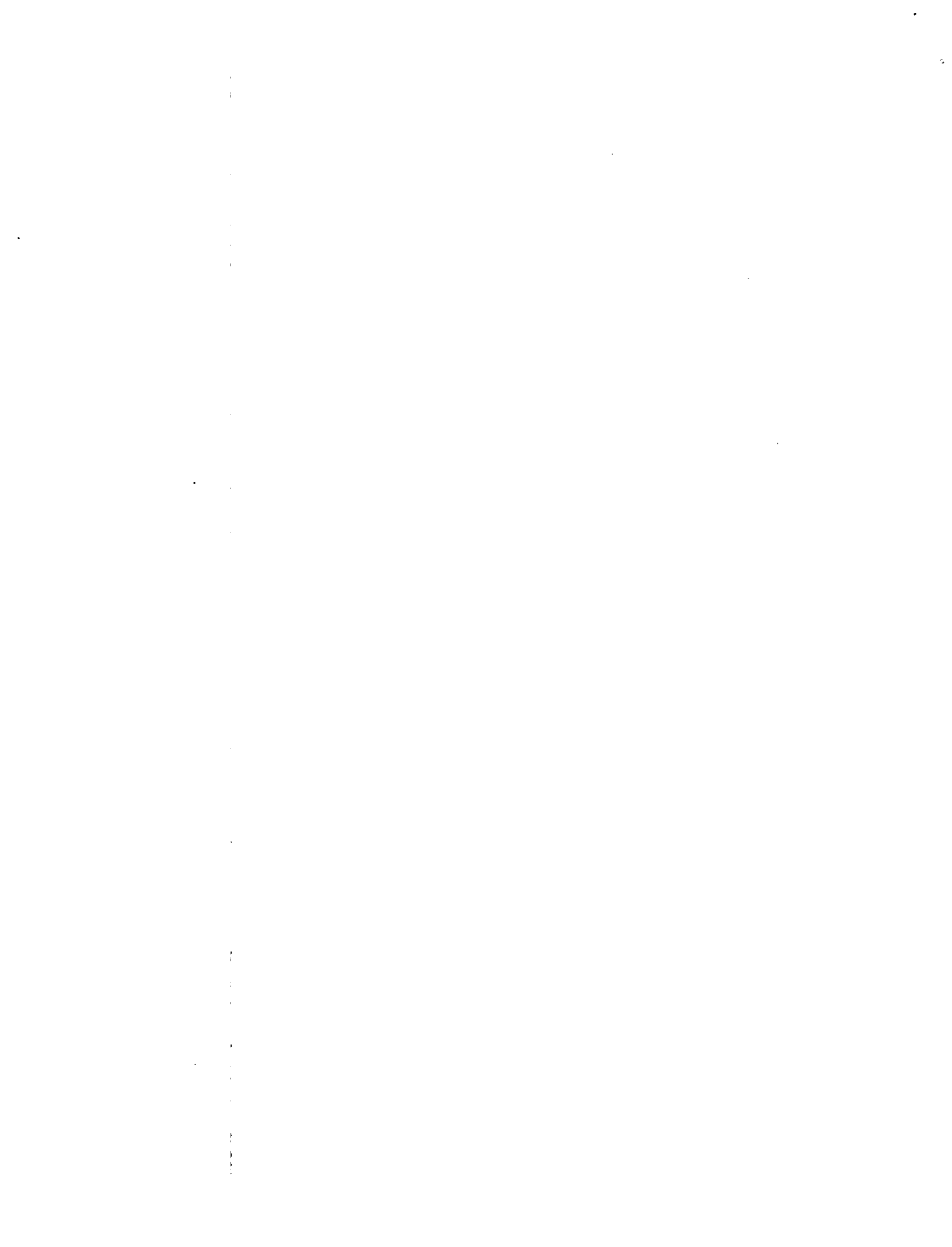
 Owner (413) 253-9834
Telephone Number

The work to be performed is further described in the 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 three years of the date below.

 Approved by Date

 Title





Commonwealth of Massachusetts
 City/Town of Amherst
Certificate of Compliance
 Form 3

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

This is to Certify that the following work on an On-Site Sewage Disposal System

- Construction of a new system
- Repair or replacement of an existing system
- Repair or replacement of an existing system component

Has been done in accordance with Title 5 and the Disposal System Construction Permit (DSCP):

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



DSCP Number		DSCP Date	
Amaro R. Ferreira and Dulcinea M. Dos Santos			
Facility Owner			
147 Bay Road			
Street Address or Lot #			
Amherst	MA	01002	
City/Town	State	Zip Code	

Designer Information:

Paul M. Styspeck, PE / Robert Stover	Amherst Environmental Services
Name	Name of Company
Signature	Date

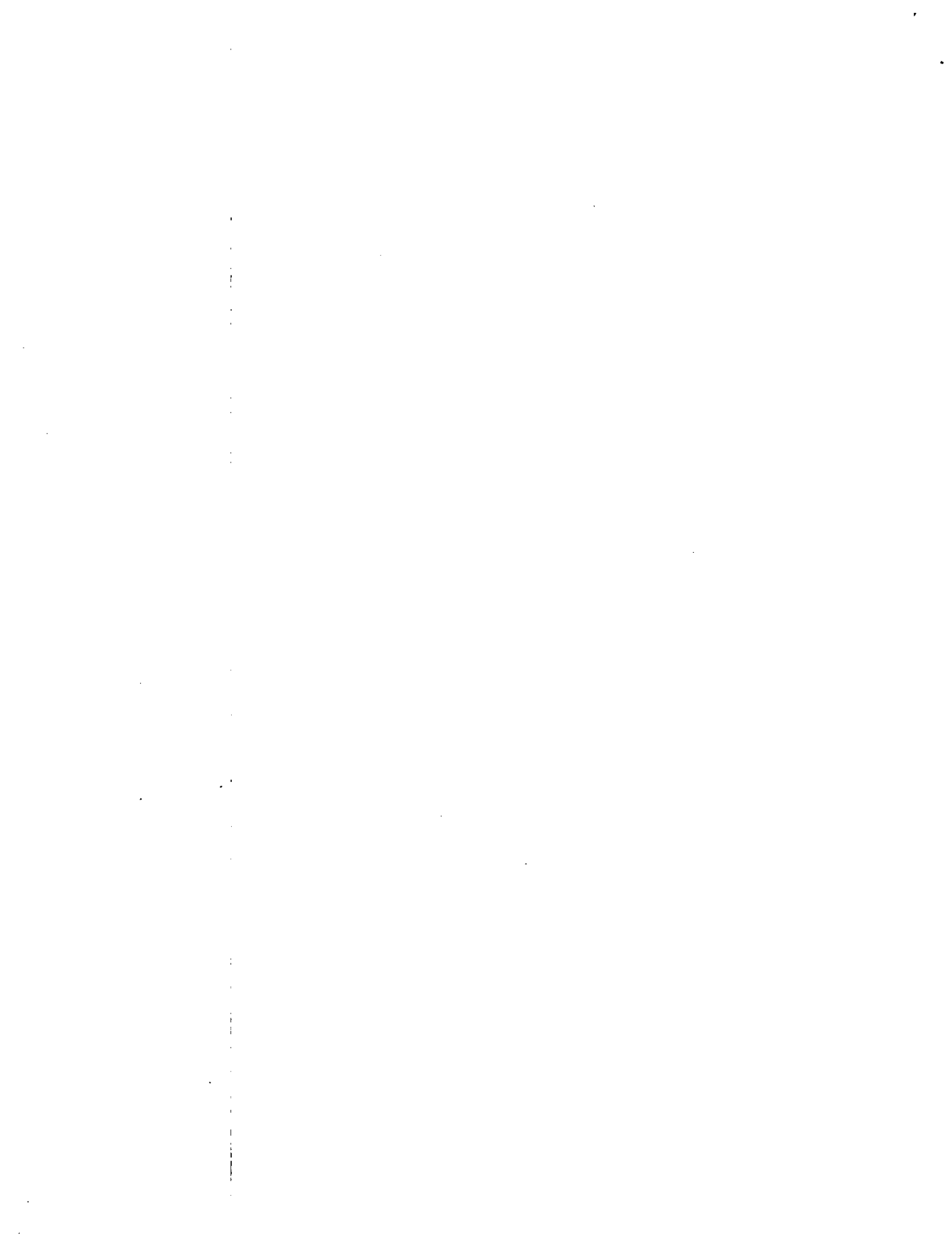
Installer Information:

Name	Name of Company
Signature	Date

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.

Approving Authority	
Signature	Date





Commonwealth of Massachusetts

City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

Form 9A is to be submitted to the Local Board of Health for the upgrade of a failed or nonconforming septic system with a design flow of less than 10,000 gpd, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

System upgrades that cannot be performed in accordance with 310 CMR 15.404 and 15.405, or in full compliance with the requirements of 310 CMR 15.000, require a variance pursuant to 310 CMR 15.410 through 15.415.

NOTE: Local upgrade approval shall not be granted for an upgrade proposal that includes the addition of a new design flow to a cesspool or privy, or the addition of a new design flow above the existing approved capacity of an on-site system constructed in accordance with either the 1978 Code or 310 CMR 15.000.

A. Facility Information

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



1. Facility Name and Address:

Dulcinea M. Dos Santos and Amaro R. Ferreira

Name

147 Bay Road

Street Address

Amherst

City/Town

MA

State

01002

Zip Code

2. Owner Name and Address (if different from above):

same

Name

Street Address

City/Town

State

(413) 253-9834

Telephone Number

Zip Code

3. Type of Facility (check all that apply):

- Residential Institutional Commercial School

4. Describe Facility:

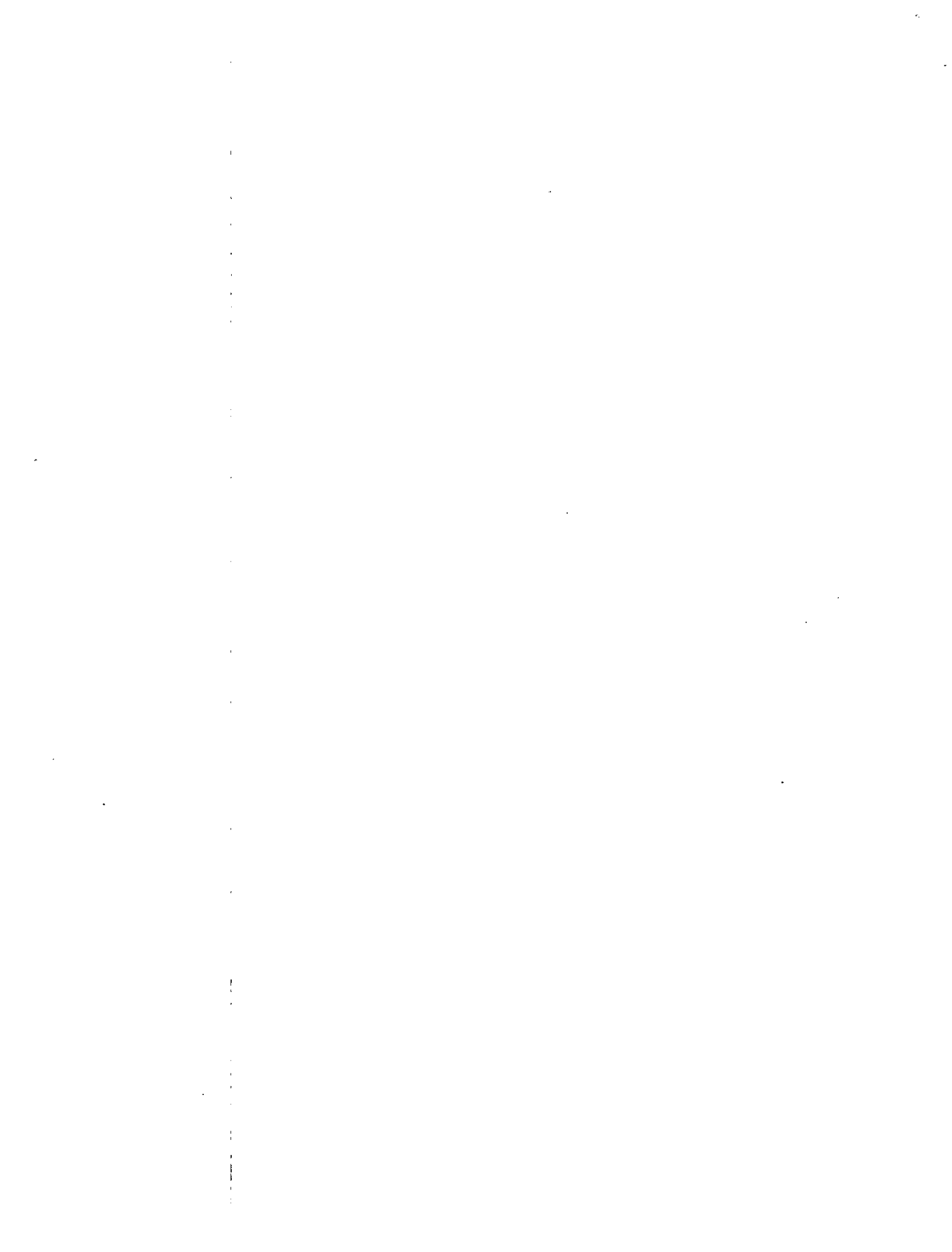
three bedroom full-time single family house without a garbage grinder

5. Type of Existing System:

- Privy Cesspool(s) Conventional Other (describe below):

6. Type of soil absorption system (trenches, chambers, leach field, pits, etc):

existing: two pipe and stone leach trenches





Form 9A – Application for Local Upgrade Approval

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

A. Facility Information (continued)

7. Design Flow per 310 CMR 15.203:

Design flow of existing system:	<u>not known</u>
	gpd
Design flow of proposed upgraded system	<u>505.77</u>
	gpd
Design flow of facility:	<u>330.00</u>
	gpd

B. Proposed Upgrade of System

1. Proposed upgrade is (check one):

Voluntary Required by order, letter, etc. (attach copy)

Required following inspection pursuant to 310 CMR 15.301:

June 29, 2011
date of inspection

2. Describe the proposed upgrade to the system:

install distribution box and two leach trenches consisting of 24 (12 per trench) Infiltrator Quick4 Plus standard low profile chambers

3. Local Upgrade Approval is requested for (check all that apply):

Reduction in setback(s) – describe reductions:

Reduction in SAS area of up to 25%:

SAS size, sq. ft.	% reduction
-------------------	-------------

Reduction in separation between the SAS and high groundwater:

Separation reduction	<u>from 5.00 to 4.27</u>
	ft.
Percolation rate	<u>less than 2</u>
	min./inch
Depth to groundwater	<u>87-inches</u>
	ft.





Form 9A – Application for Local Upgrade Approval

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

B. Proposed Upgrade of System (continued)

Relocation of water supply well (explain):

Reduction of 12-inch separation between inlet and outlet tees and high groundwater

Use of only one deep hole in proposed disposal area

Use of a sieve analysis as a substitute for a perc test

Other requirements of 310 CMR 15.000 that cannot be met – describe and specify sections of the Code:

If the proposed upgrade involves a reduction in the required separation between the bottom of the soil absorption system and the high groundwater elevation, an Approved Soil Evaluator must determine the high groundwater elevation pursuant to 310 CMR 15.405(1)(h)(1). **The soil evaluator must be a member or agent of the local approving authority.**

High groundwater evaluation determined by:

		7/13/11
Evaluator's Name (type or print)	Signature	Date of evaluation

C. Explanation

Explain why full compliance, as defined in 310 CMR 15.404(1), is not feasible. (Each section must be completed)

1. An upgraded system in full compliance with 310 CMR 15.000 is not feasible:

Existing septic tank is structurally sound according to system inspector Nathan Torretti and it's high in the ground but it is still too deep to allow for a 5-ft separation from the estimated seasonal high ground water elevation.

2. An alternative system approved pursuant to 310 CMR 15.283 to 15.288 is not feasible:

This facility does not warrant an alternative system.





Commonwealth of Massachusetts

City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

C. Explanation (continued)

3. A shared system is not feasible:

There is no abutter known to need to share a system. A shared system is not warranted by the circumstances of this facility.

4. Connection to a public sewer is not feasible:

This area is not served by public sewer.

5. The Application for Local Upgrade Approval must be accompanied by all of the following (check the appropriate boxes):

[X] Application for Disposal System Construction Permit

[X] Complete plans and specifications

[X] Site evaluation forms

[] A list of abutters affected by reduced setbacks to private water supply wells or property lines. Provide proof that affected abutters have been notified pursuant to 310 CMR 15.405(2).

[] Other (List):

D. Certification

"I, the facility owner, certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for deliberate violations."

Dulcinea dos Santos
Facility Owner's Signature

8/11/11
Date

Dulcinea M. Dos Santos & Amaro R. Ferreira
Print Name

Robert Stover
Name of Preparer

7/28/11
Date

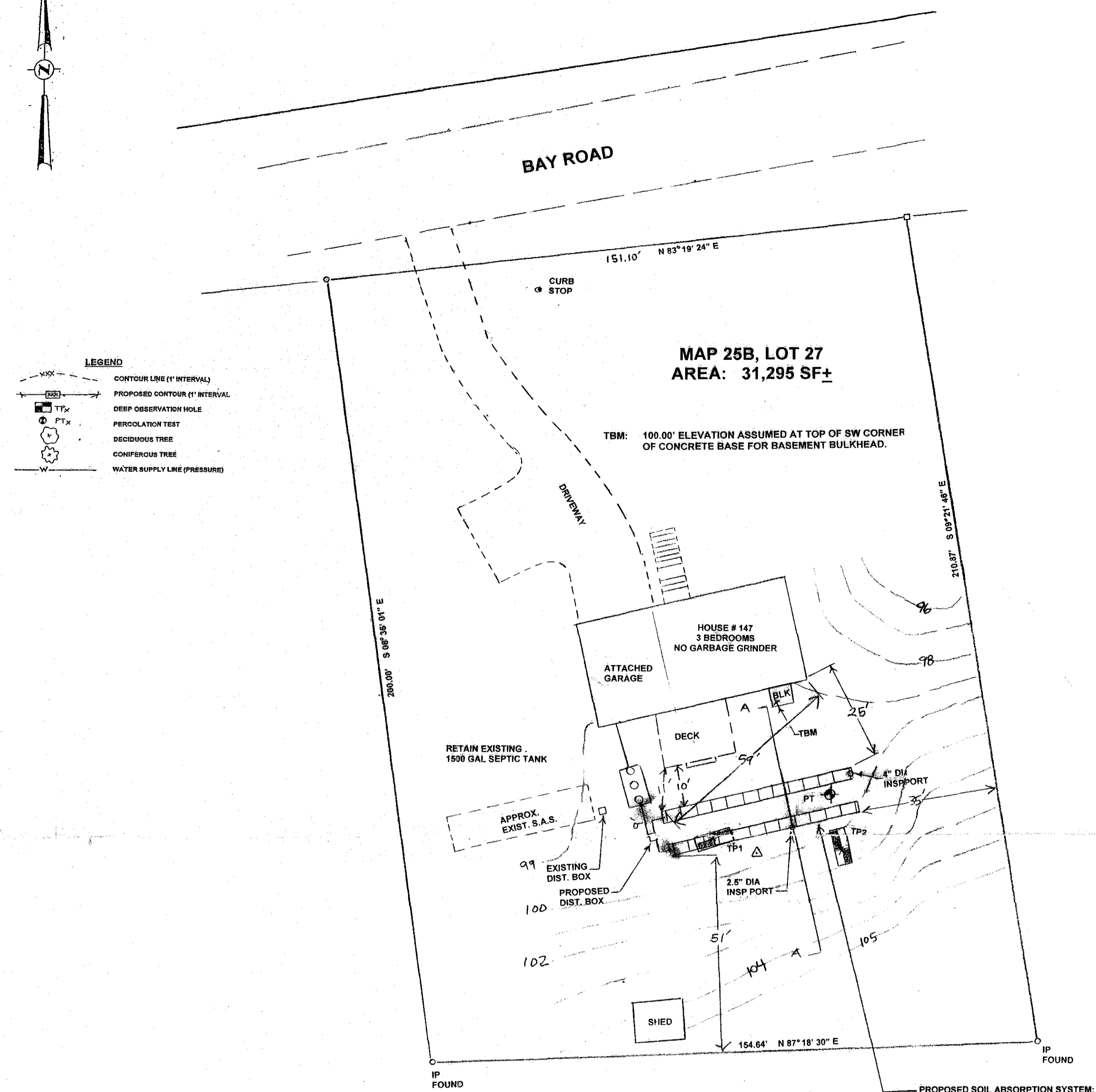
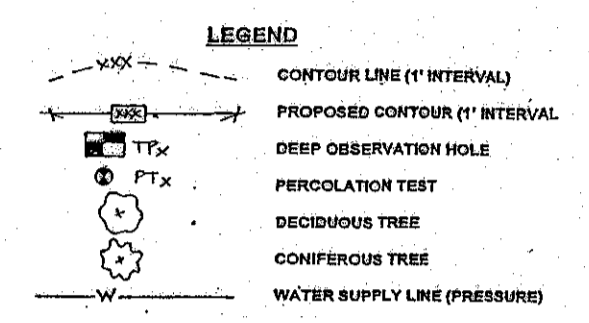
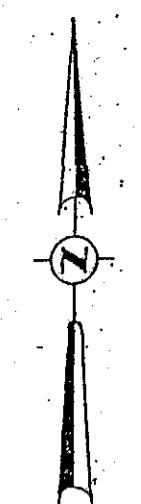
P. O. Box 3312
Preparer's address

Amherst
City/Town

01004-3312
State/ZIP Code

(413) 256-3400
Telephone





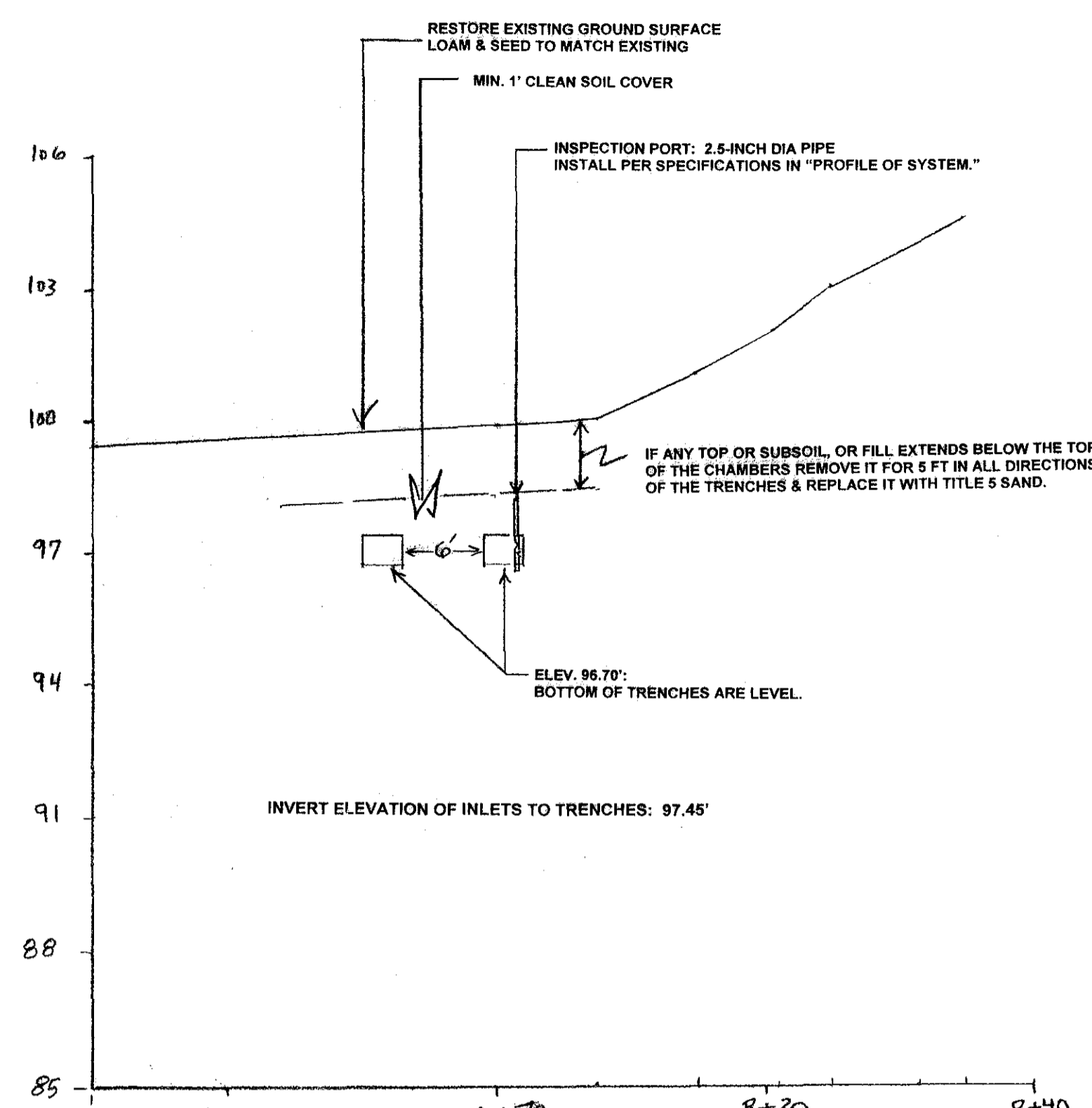
MAP 25B, LOT 27 AREA: 31,295 SF ± TBM: 100.00' ELEVATION ASSUMED AT TOP OF SW CORNER OF CONCRETE BASE FOR BASEMENT BULKHEAD.



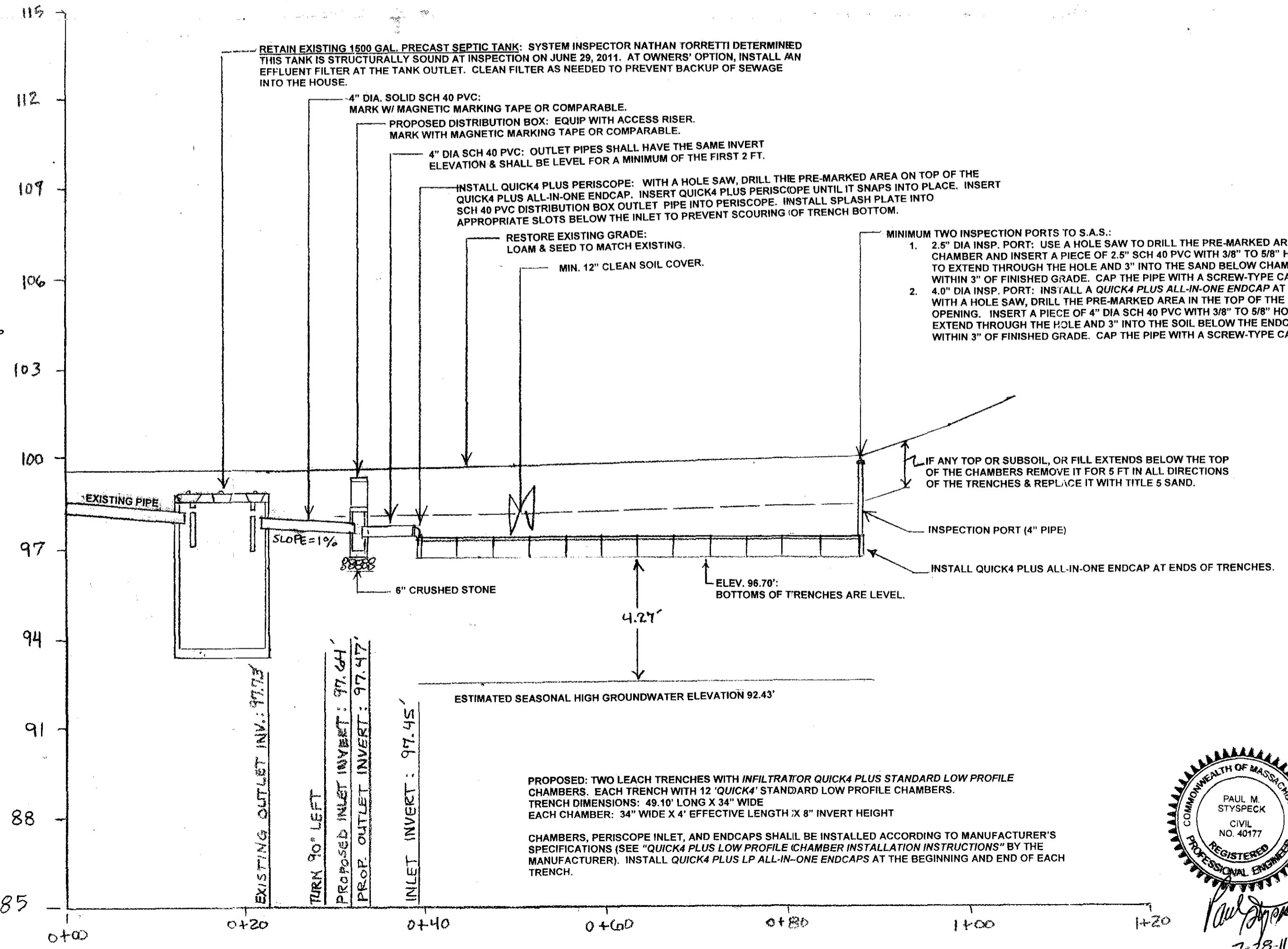
USGS MT HOLYOKE, MA QUADRANGLE SCALE: 1:25,000

NOTE: THERE ARE NO SURFACE WATER SUPPLIES OR GRAVEL PACKED PUBLIC WATER SUPPLY WELLS WITHIN 400' OF THE PROPOSED SYSTEM LOCATION...

- GENERAL CONDITIONS: 1. This septic system repair plan is prepared in accordance with Title 5, 310 CMR 15.00. Construction shall conform to these regulations...



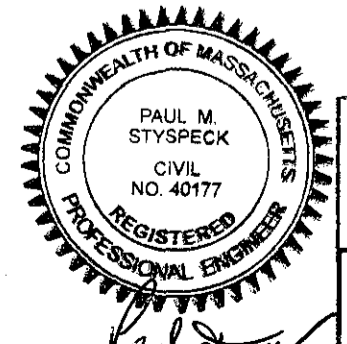
SECTION OF LEACH BED SCALE: H: 1" = 10' V: 1" = 3'



PROFILE OF SYSTEM SCALE: H: 1" = 10' V: 1" = 3'

SOIL EVALUATION table with columns for Depth, Soil Horizon, Soil Texture, Soil Color, Mottling, and Other. Includes design criteria and design calculation details.

THE APPLICANT REQUESTS THAT THE AMHERST BOARD OF HEALTH GRANT A LOCAL UPGRADE APPROVAL TO REDUCE THE REQUIRED WATER TABLE SEPARATION FROM FIVE FEET TO FOUR FEET.



PLAN OF SEPTIC SYSTEM REPAIR 147 BAY ROAD, AMHERST, MA 01002. Includes project details, date, and drawing number.



Commonwealth of Massachusetts
City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

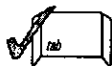
Form 9A is to be submitted to the Local Board of Health for the upgrade of a failed or nonconforming septic system with a design flow of less than 10,000 gpd, where full compliance, as defined in 310 CMR 15.404(1), is not feasible.

System upgrades that cannot be performed in accordance with 310 CMR 15.404 and 15.405, or in full compliance with the requirements of 310 CMR 15.000, require a variance pursuant to 310 CMR 15.410 through 15.415.

NOTE: Local upgrade approval shall not be granted for an upgrade proposal that includes the addition of a new design flow to a cesspool or privy, or the addition of a new design flow above the existing approved capacity of an on-site system constructed in accordance with either the 1978 Code or 310 CMR 15.000.

A. Facility Information

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



1. Facility Name and Address:

Dulcinea M. Dos Santos and Amaro R. Ferreira
 Name
147 Bay Road
 Street Address
Amherst MA 01002
 City/Town State Zip Code

2. Owner Name and Address (if different from above):

same
 Name Street Address
 City/Town State
(413) 253-9834
 Zip Code Telephone Number

3. Type of Facility (check all that apply):

Residential Institutional Commercial School

4. Describe Facility:

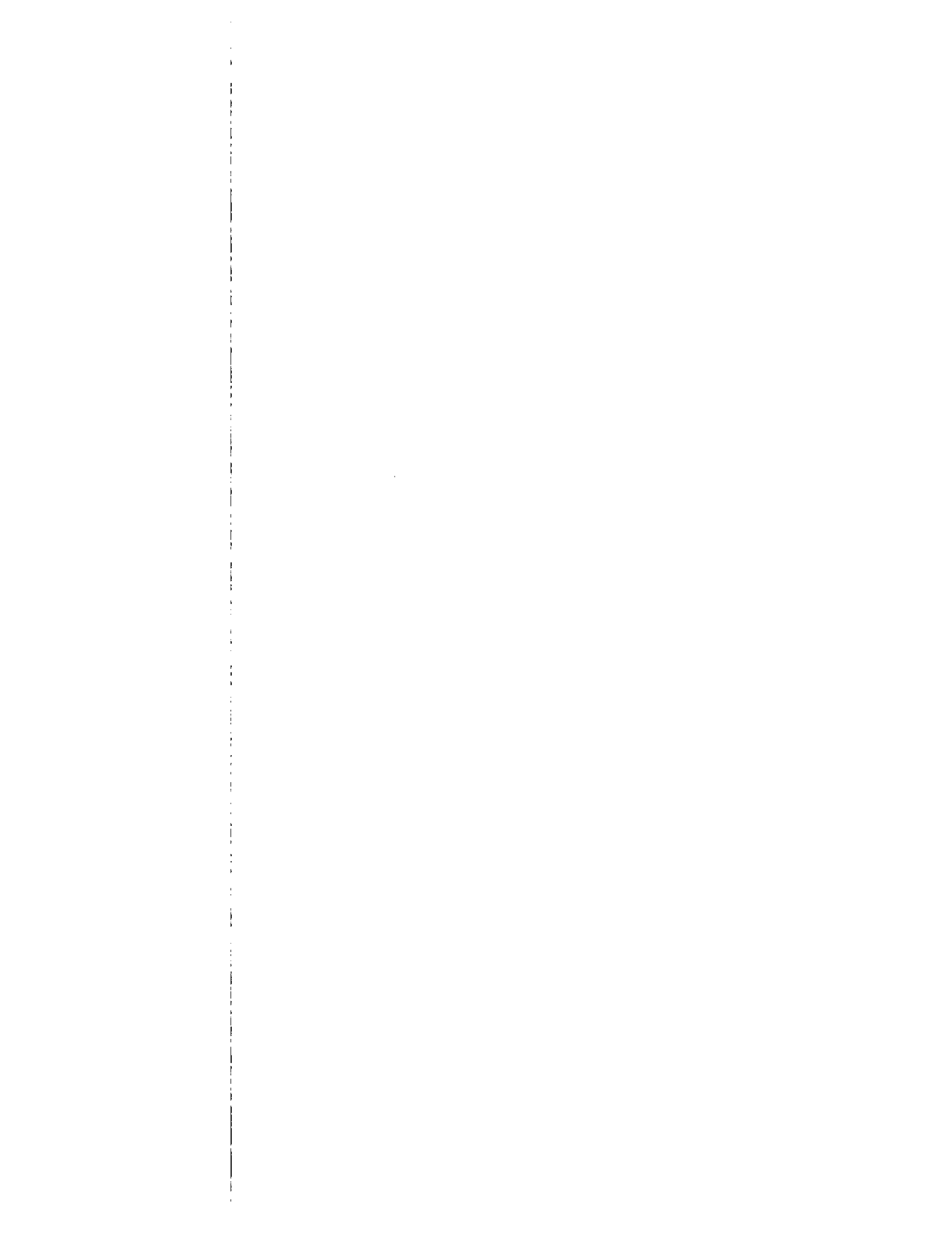
three bedroom full-time single family house without a garbage grinder

5. Type of Existing System:

Privy Cesspool(s) Conventional Other (describe below):

6. Type of soil absorption system (trenches, chambers, leach field, pits, etc):

existing: two pipe and stone leach trenches





Commonwealth of Massachusetts
City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

A. Facility Information (continued)

7. Design Flow per 310 CMR 15.203:

Design flow of existing system:	<u>not known</u>
	gpd
Design flow of proposed upgraded system	<u>505.77</u>
	gpd
Design flow of facility:	<u>330.00</u>
	gpd

B. Proposed Upgrade of System

1. Proposed upgrade is (check one):

Voluntary Required by order, letter, etc. (attach copy)

Required following inspection pursuant to 310 CMR 15.301:

June 29, 2011
date of inspection

2. Describe the proposed upgrade to the system:

install distribution box and two leach trenches consisting of 24 (12 per trench) Infiltrator Quick4 Plus standard low profile chambers

3. Local Upgrade Approval is requested for (check all that apply):

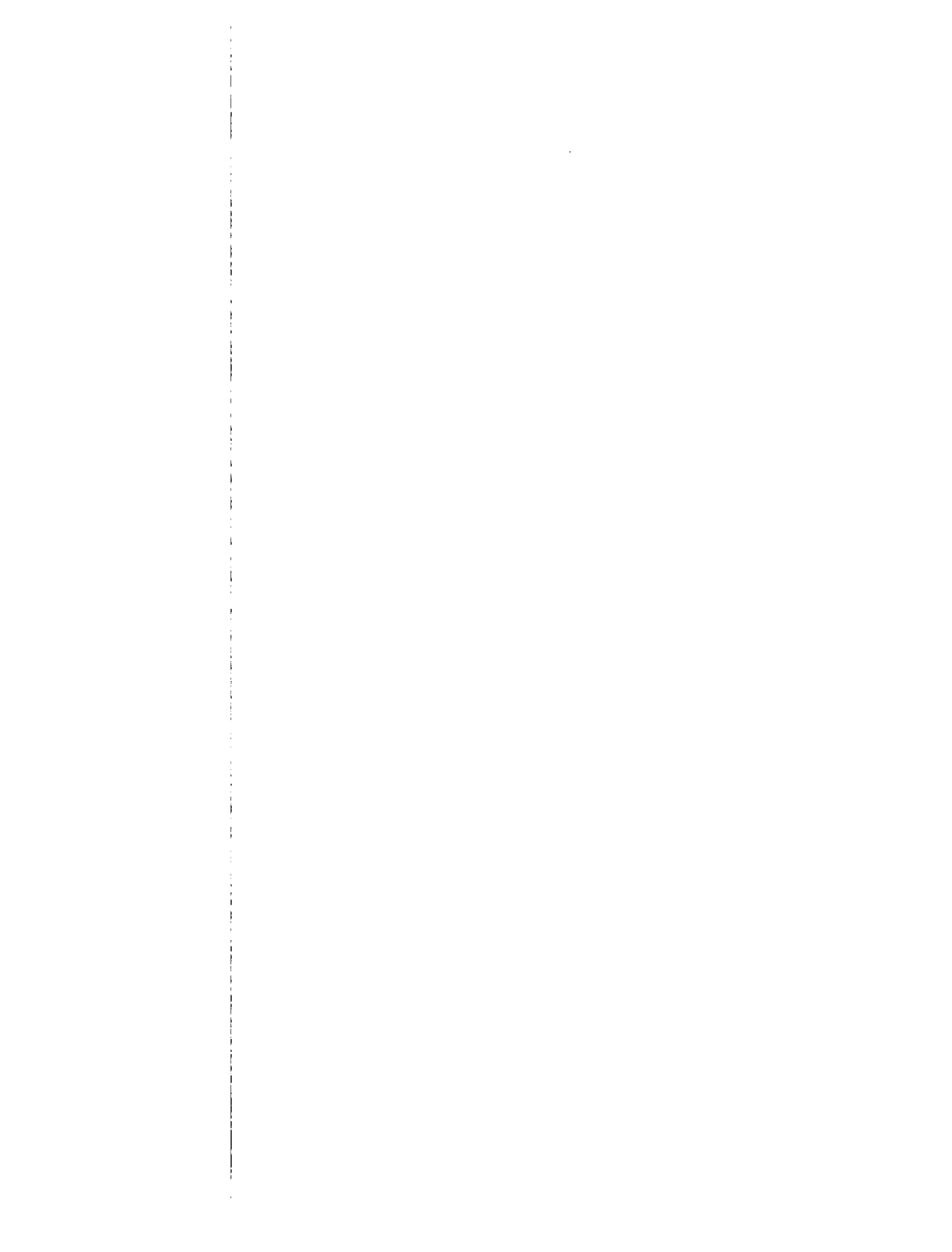
Reduction in setback(s) – describe reductions:

Reduction in SAS area of up to 25%:

<u>SAS size, sq. ft.</u>	<u>% reduction</u>
--------------------------	--------------------

Reduction in separation between the SAS and high groundwater:

Separation reduction	<u>from 5.00 to 4.27</u>
	ft.
Percolation rate	<u>less than 2</u>
	min./inch
Depth to groundwater	<u>87-inches</u>
	ft.





Form 9A – Application for Local Upgrade Approval

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

B. Proposed Upgrade of System (continued)

Relocation of water supply well (explain):

Reduction of 12-inch separation between inlet and outlet tees and high groundwater

Use of only one deep hole in proposed disposal area

Use of a sieve analysis as a substitute for a perc test

Other requirements of 310 CMR 15.000 that cannot be met – describe and specify sections of the Code:

If the proposed upgrade involves a reduction in the required separation between the bottom of the soil absorption system and the high groundwater elevation, an Approved Soil Evaluator must determine the high groundwater elevation pursuant to 310 CMR 15.405(1)(h)(1). ***The soil evaluator must be a member or agent of the local approving authority.***

High groundwater evaluation determined by:

Evaluator's Name (type or print)

Signature

7/13/11

Date of evaluation

C. Explanation

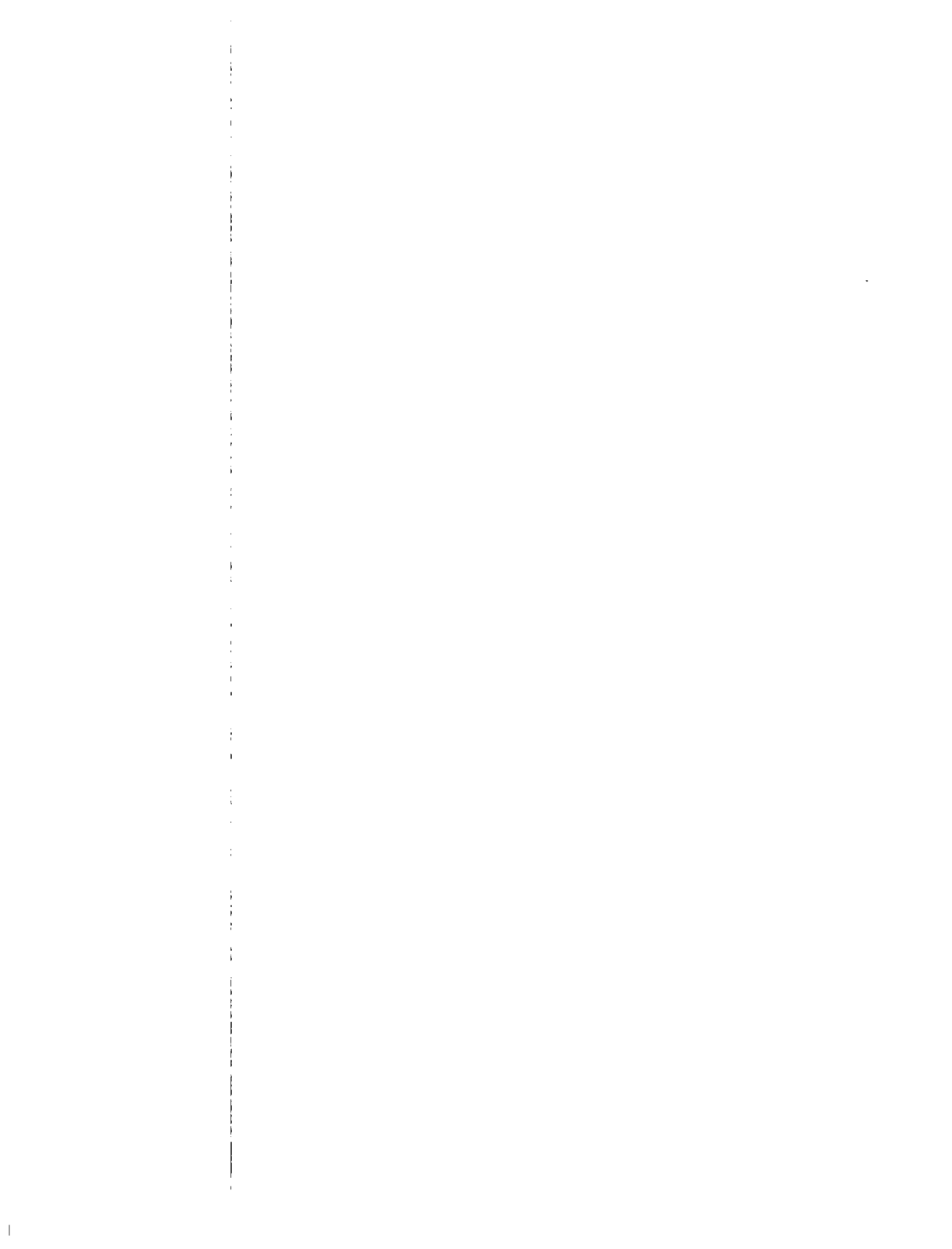
Explain why full compliance, as defined in 310 CMR 15.404(1), is not feasible. (Each section must be completed)

1. An upgraded system in full compliance with 310 CMR 15.000 is not feasible:

Existing septic tank is structurally sound according to system inspector Nathan Torretti and it's high in the ground but it is still too deep to allow for a 5-ft separation from the estimated seasonal high ground water elevation.

2. An alternative system approved pursuant to 310 CMR 15.283 to 15.288 is not feasible:

This facility does not warrant an alternative system.





Commonwealth of Massachusetts

City/Town of Amherst

Form 9A – Application for Local Upgrade Approval

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

C. Explanation (continued)

3. A shared system is not feasible:

There is no abutter known to need to share a system. A shared system is not warranted by the circumstances of this facility.

4. Connection to a public sewer is not feasible:

This area is not served by public sewer.

5. The Application for Local Upgrade Approval must be accompanied by all of the following (check the appropriate boxes):

[X] Application for Disposal System Construction Permit

[X] Complete plans and specifications

[X] Site evaluation forms

[] A list of abutters affected by reduced setbacks to private water supply wells or property lines. Provide proof that affected abutters have been notified pursuant to 310 CMR 15.405(2).

[] Other (List):

D. Certification

"I, the facility owner, certify under penalty of law that this document and all attachments, to the best of my knowledge and belief, are true, accurate, and complete. I am aware that there may be significant consequences for submitting false information, including, but not limited to, penalties or fine and/or imprisonment for deliberate violations."

Dulcinea dos Santos

Facility Owner's Signature

Dulcinea M. Dos Santos & Amaro R. Ferreira

Print Name

Robert Stover

Name of Preparer

P. O. Box 3312

Preparer's address

01004-3312

State/ZIP Code

8/11/11

Date

7/28/11

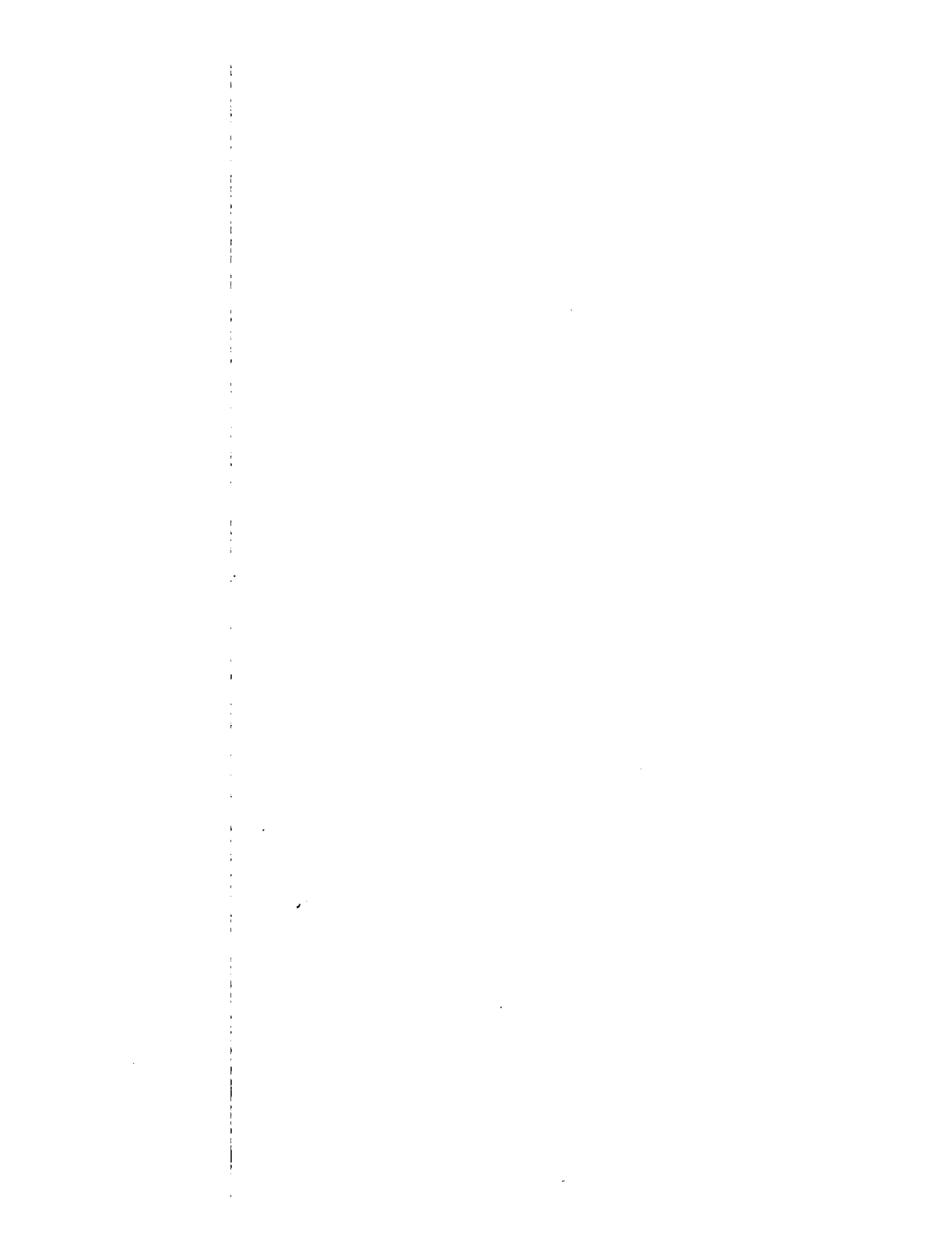
Date

Amherst

City/Town

(413) 256-3400

Telephone





Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee _____

DEP has provided this form for use by local Boards of Health if they choose to do so. Before using the form, check with your local Board of Health to make sure that they will accept it.

A. Facility Information

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



Application is hereby made for a permit to: Construct a new on-site sewage disposal system
 Repair or replace an existing on-site sewage disposal system
 Repair or replace an existing system component

1. Location of Facility:

147 Bay Road
 Address or Lot #
 Amherst MA 01002
 City/Town State Zip Code

2. Owner Information

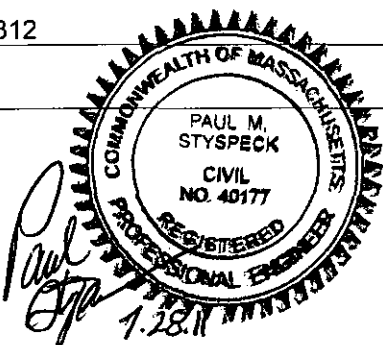
Dulcinea M. Dos Santos and Amaro R. Ferreira
 Name
 same
 Address (if different from above)
 City/Town State Zip Code
 (413) 253-9834
 Telephone Number

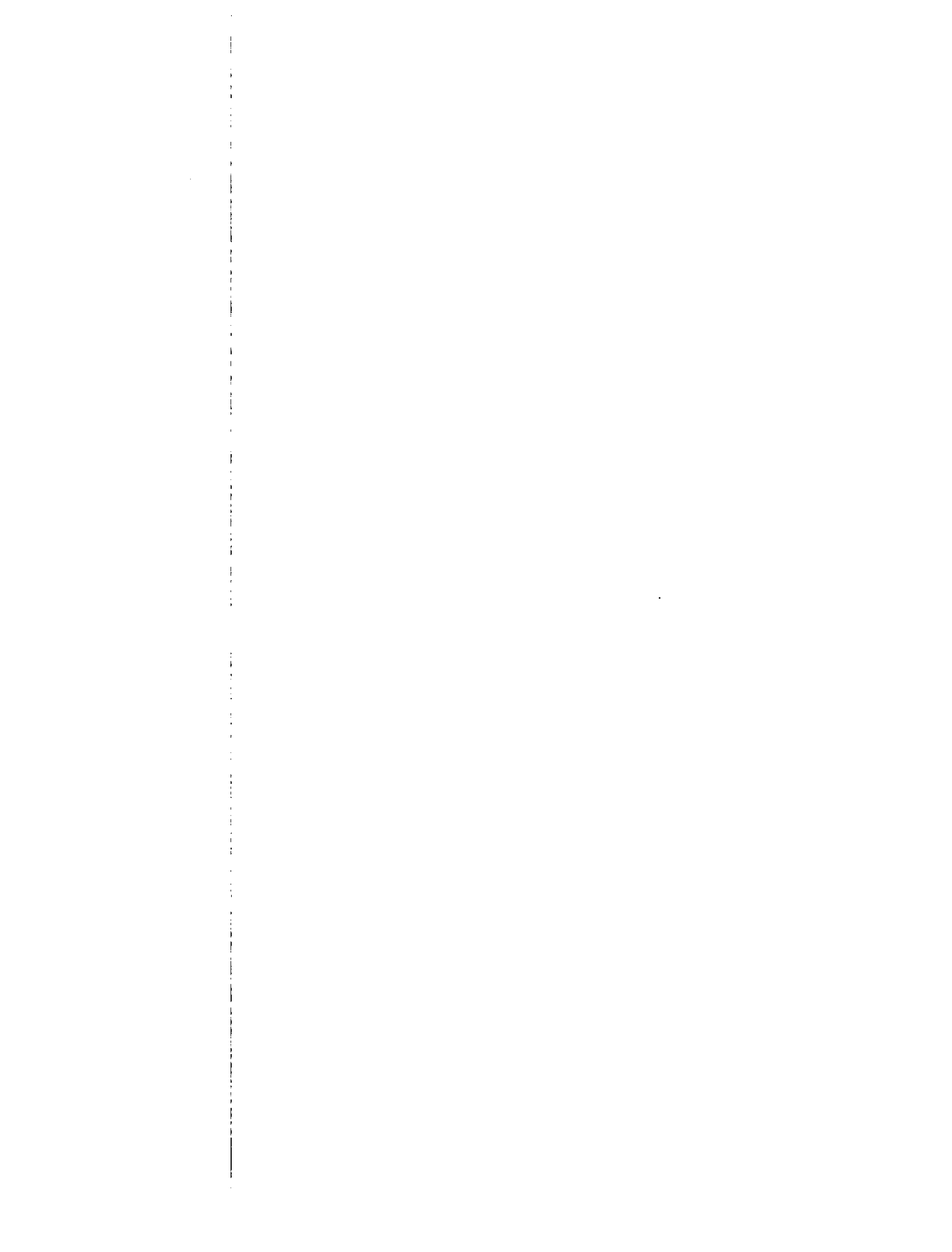
3. Installer Information

Name _____ Name of Company _____
 Address _____
 City/Town State Zip Code
 Telephone Number _____

4. Designer Information

Paul M. Styspeck, PE / Robert Stover Amherst Environmental Services
 Name Name of Company
 P. O. Box 3312
 Address
 Amherst MA 01004-3312
 City/Town State Zip Code
 (413) 256-3400
 Telephone Number







Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee

A. Facility Information (continued)

5. Type of Building:

- Dwelling Garbage Grinder (check if present)

Other: Type of Building _____ Number of Persons Served _____

- Showers _____ Number of showers _____ Cafeteria Other fixtures

Specify other fixtures: _____

6. Design Flow: 330.00
 Gallons per Day
 Calculated Daily Flow: 505.77
 Gallons

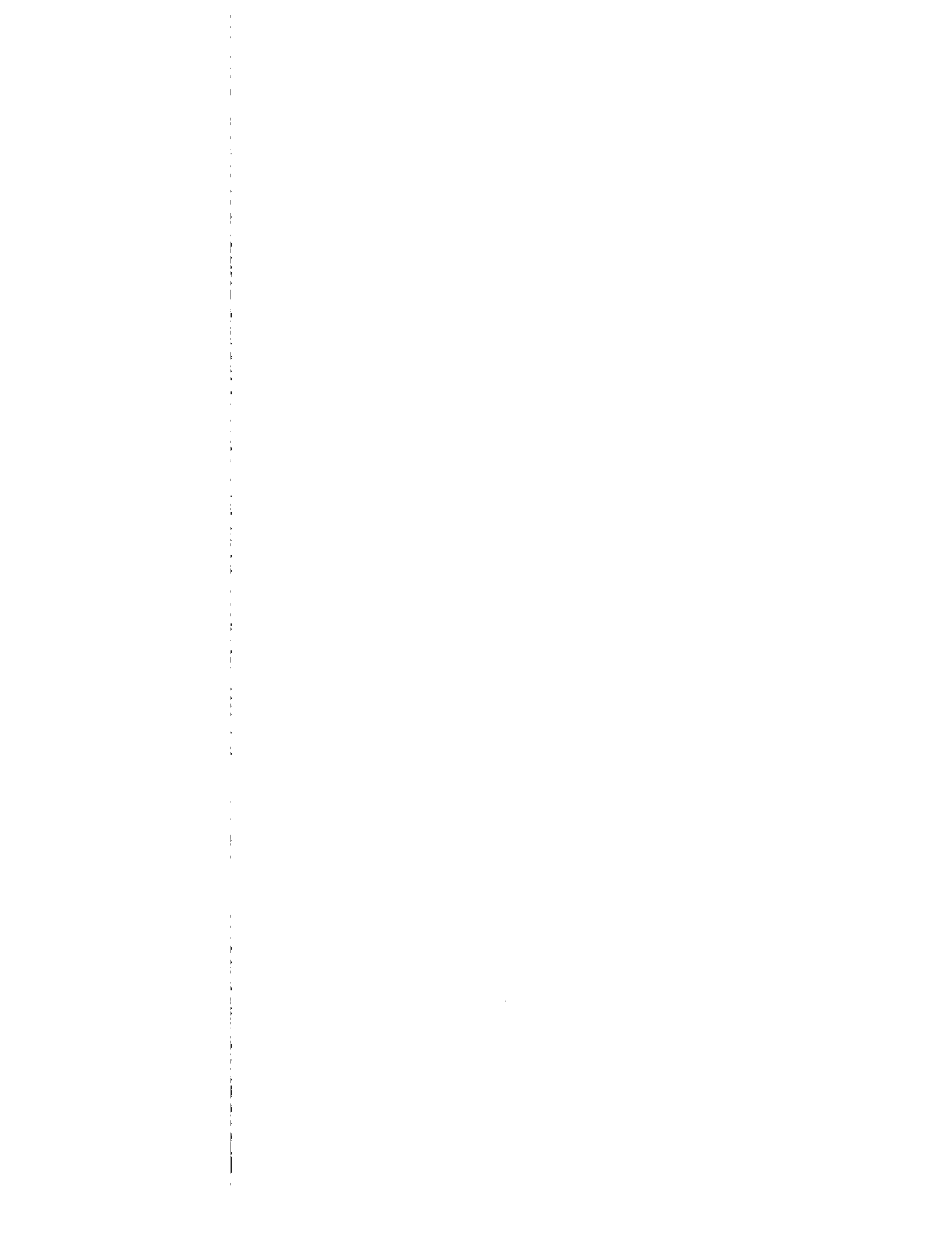
7. Plan: 7/27/11
 Date of Original
one
 Number of Sheets
"Plan of Septic System Repair"
 Title of Plan

 Revision Date

8. Description of Soil:
attached

9. Nature of Repairs or Alterations (if applicable):
replace failed soil absorption system with new distribution box and two leach trenches consisting of 24 (12 per trench) Infiltrator Quick4 Plus standard low profile chambers.

10. Date last inspected: 6/29/11 by Nathan Torretti
 Date





Commonwealth of Massachusetts
 City/Town of Amherst
**Application for Disposal System
 Construction Permit**
 Form 1A

Number _____
 \$ _____
 Fee _____

B. Agreement

The undersigned agrees to ensure the construction and maintenance of the aforementioned 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.

Wendy de Sauts
 Signature

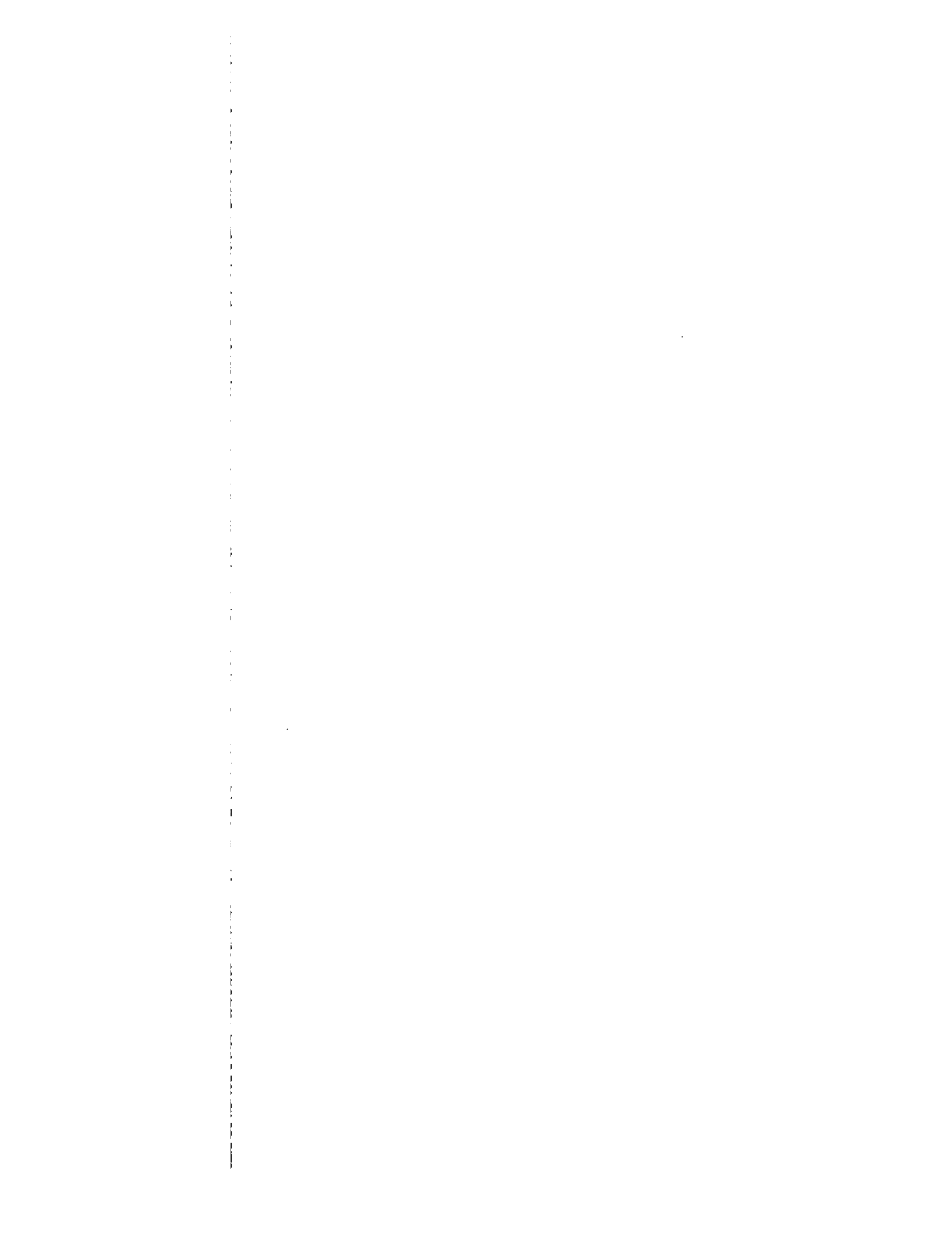
8/11/11
 Date

Application Approved By:

 Name

 Date

Application **Disapproved** for the following reasons:





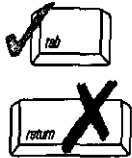
Commonwealth of Massachusetts
 City/Town of Amherst
Disposal System Construction Permit
Form 2A

Number _____

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

Permission is hereby granted to:

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



Amaro R. Ferreira and Dulcineia M. Dos Santos
 Name Name of Company
147 Bay Road
 Address
Amherst MA 01002
 City/Town State Zip Code

to perform the following work on an on-site sewage disposal system:

- Construction
- Repair or replacement
- Repair or replacement of system components

same
 Facility Address

 City/Town State Zip Code

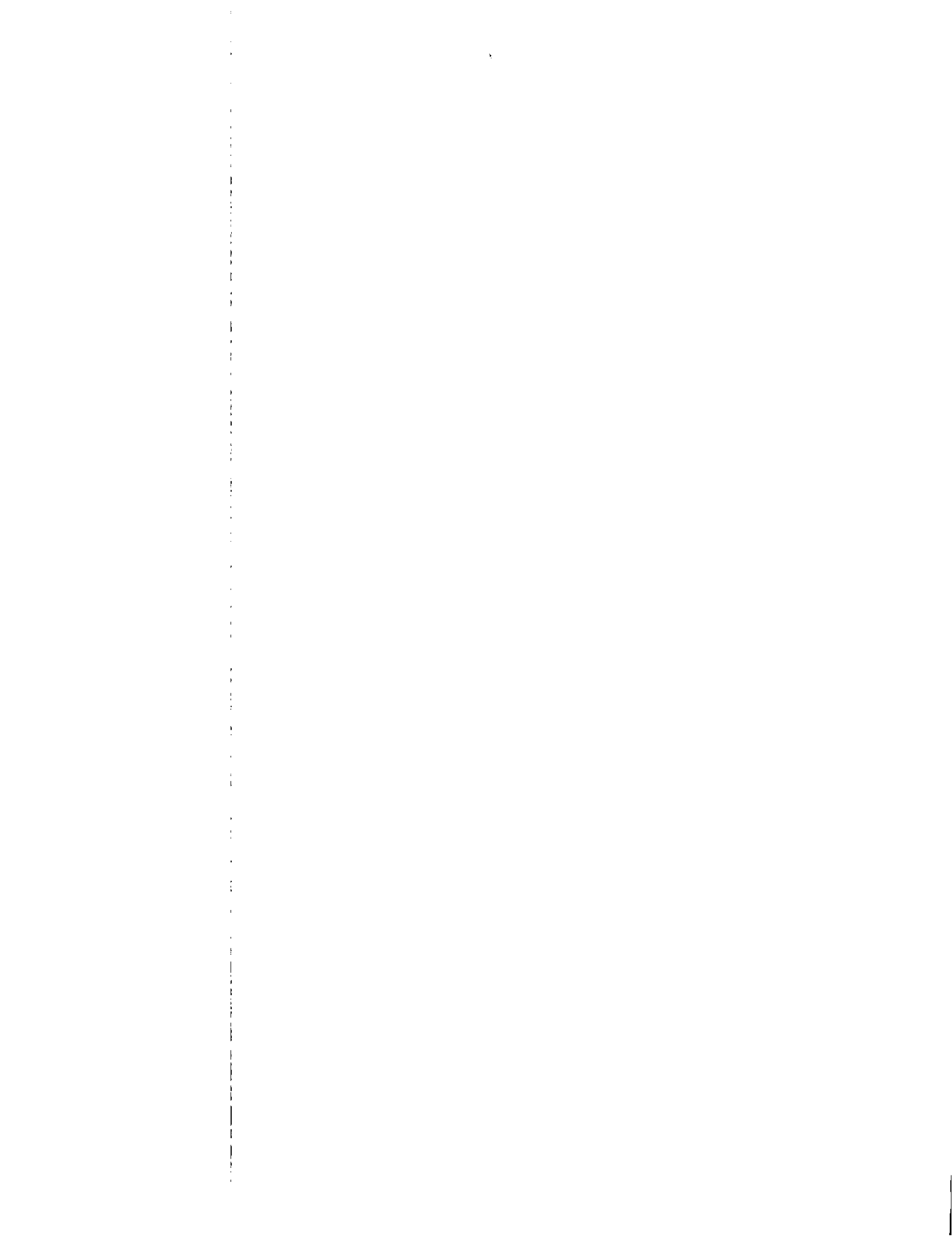
(413) 253-9834
 Owner Telephone Number

The work to be performed is further described in the 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 three years of the date below.

 Approved by Date

 Title





Commonwealth of Massachusetts
 City/Town of Amherst
Certificate of Compliance
 Form 3

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

This is to Certify that the following work on an On-Site Sewage Disposal System

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

- Construction of a new system
- Repair or replacement of an existing system
- Repair or replacement of an existing system component

Has been done in accordance with Title 5 and the Disposal System Construction Permit (DSCP):



DSCP Number		DSCP Date	
Amaro R. Ferreira and Dulcinea M. Dos Santos			
Facility Owner			
147 Bay Road			
Street Address or Lot #			
Amherst	MA	01002	
City/Town	State	Zip Code	

Designer Information:

Paul M. Styspeck, PE / Robert Stover	Amherst Environmental Services
Name	Name of Company
Signature	Date

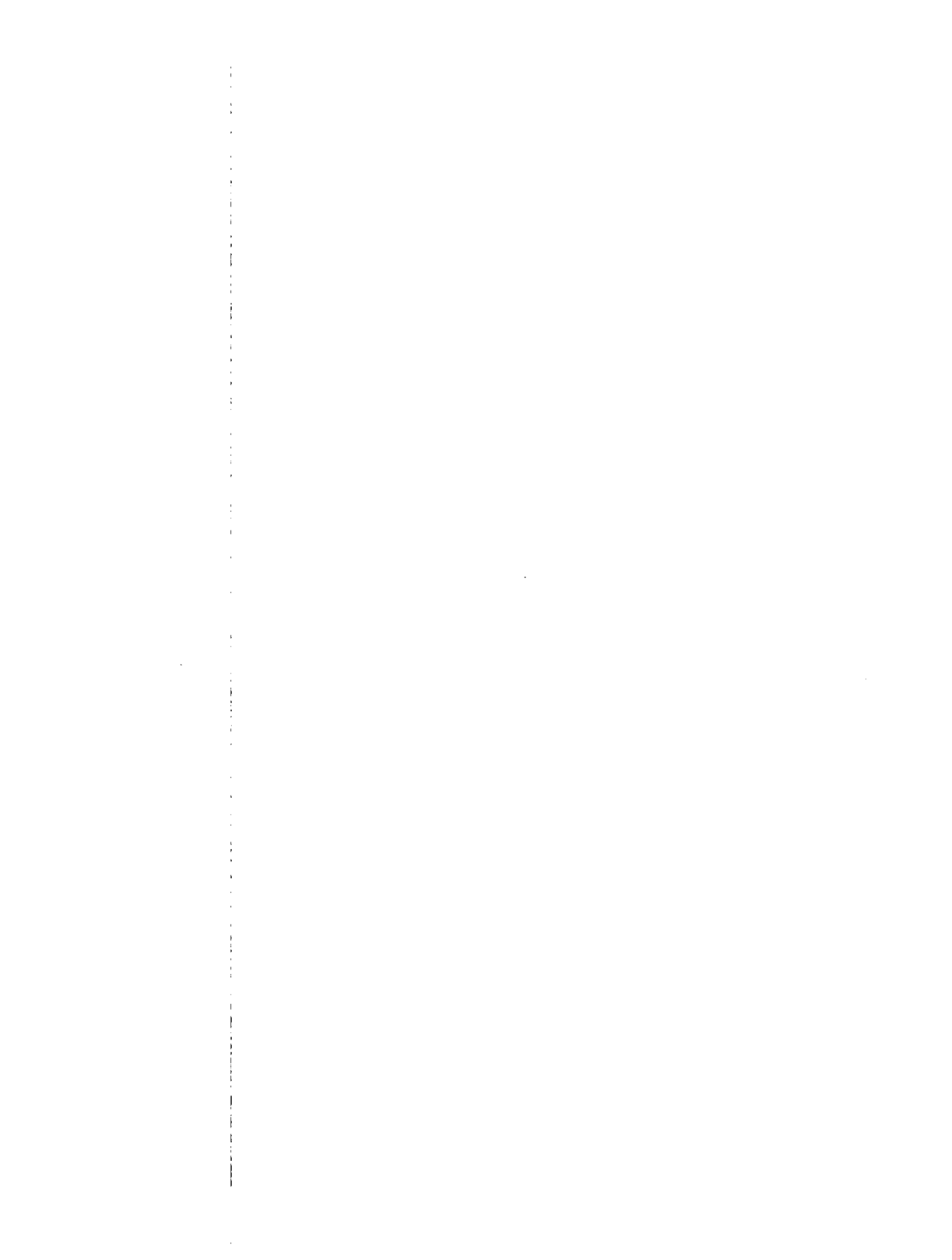
Installer Information:

Name	Name of Company
Signature	Date

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.

Approving Authority	
Signature	Date



On-Site Review

Deep Hole Number 1 Date: 7/13/2011 Time 9:30
 Weather CLEAR + HOT
 Location (Identify on site plan) 20' OFF DECK, MIDDLE OF HOUSE
 Land Use RESIDENTIAL Slope (%) 0-3%
 Surface Stone NONE
 Vegetation: MOWED GRASS, RED OAK, WHITE PINE

Landform: TOESLOPE, RECEEDING LAKE BED

Position on Landscape (sketch on back) _____
 Distances from:
 Open Water Body NA feet Drainageway NA feet
 Possible Wet Ares NA feet Property Line 35-40 feet
 Drinking Water Well NA 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
0-8"	A	FINE SANDY LOAM	10YR 5/3		
8"-19"	B	LOAMY SAND	10YR 4/4		
19-87"	C ₁	GRAVELLY SAND	10YR 4/4		STRATIFIED SANDS + GRAVEL 1.5% AND GRAVEL LOAM
87"-110"	C ₂	ESTIMATED SEASONAL HIGH WATER VERY FINE SANDY LOAM	10YR 5/3		JACKED BELOW 87"
110"	BOTTOM		10YR 5/3		

Parent Material (geologic) OUTWASH
 Depth to Bedrock NA
 Depth to Groundwater:
 Standing Water in the Hole 100" (8'4")
 Weeping from Pit Face 87"
 Estimated Seasonal High Water _____

On-Site Review

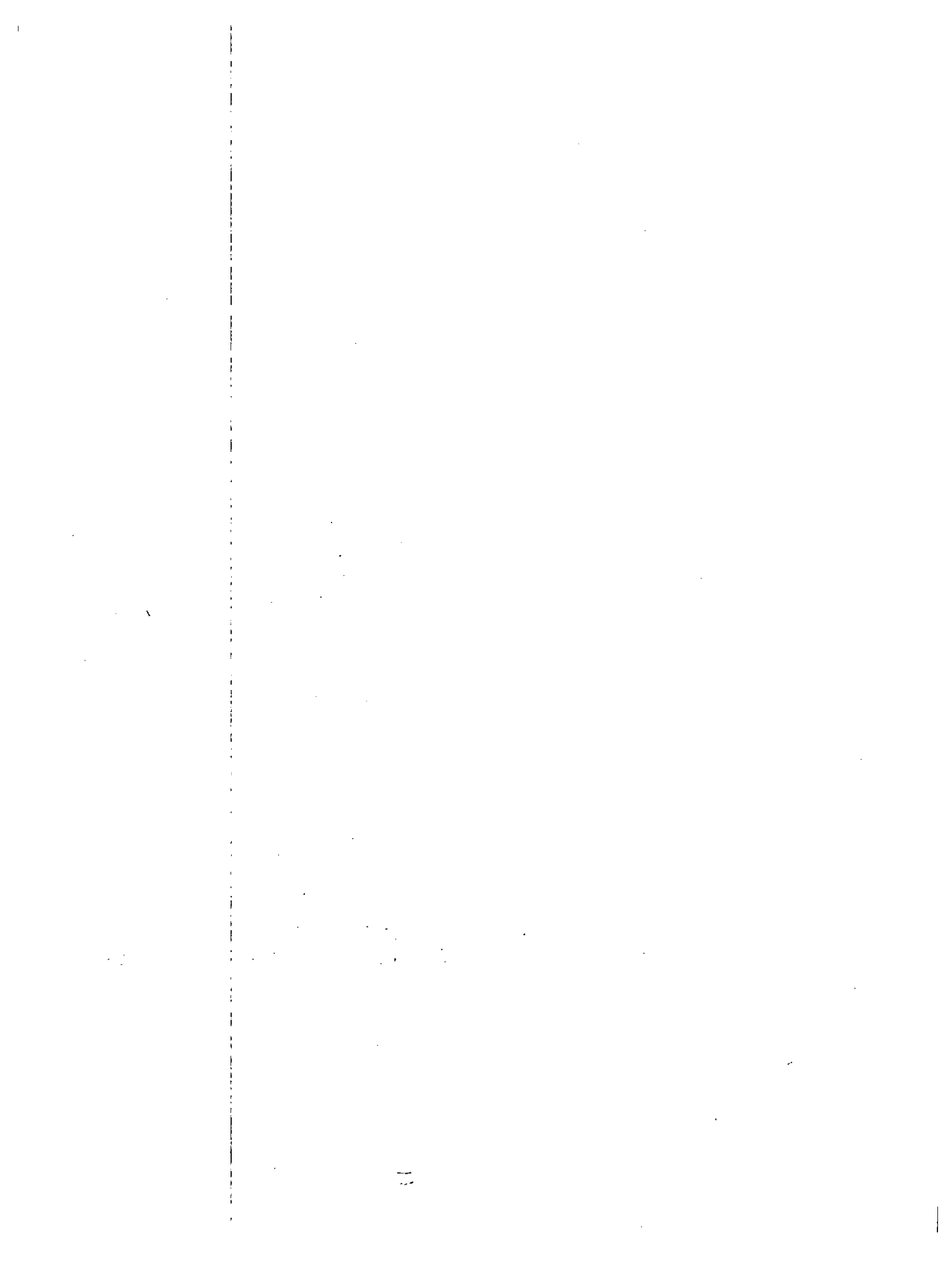
Deep Hole Number 2 Date: 7/13/2011 Time 9:45
 Weather _____
 Location (Identify on site plan) 30' BEHIND SE REAR CORNER HOUSE
 Land Use RESIDENTIAL Slope (%) _____
 Surface Stone NONE
 Vegetation: RED OAK, WHITE PINE

Landform: TOESLOPE, RECEEDING LAKE BED

Position on Landscape (sketch on back) _____
 Distances from:
 Open Water Body _____ feet Drainageway _____ feet
 Possible Wet Ares _____ feet Property Line 35-40 feet
 Drinking Water Well _____ 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
0-5"	A				
5-14"	B				
14-110"	C ₁				
94"	C ₂				ESTIMATED
96"					SEEPAGE
110"					BOTTOM

Parent Material (geologic) OUTWASH
 Depth to Bedrock NA
 Depth to Groundwater:
 Standing Water in the Hole 103"
 Weeping from Pit Face 96"
 Estimated Seasonal High Water _____



Commonwealth of Massachusetts
Town of _____

Soil Suitability Assessment : On-Site Sewage Disposal

Performed By: ISOB STOVER Date: _____
Witnessed By: ED SWIFT

Location Address of: Lot # _____	Owner's Name: Address of: Telephone: _____
New Construction <input type="checkbox"/> Repair <input type="checkbox"/>	

Office Review

Published Soil Survey Available? No Yes **HINCKLEY LOCALLY SAND**
 Year Published 1981 Publication Scale 1:15000 Soil Map Unit 253B
 Drainage Class A Soil Limitations PODC FILTER (HGB)

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

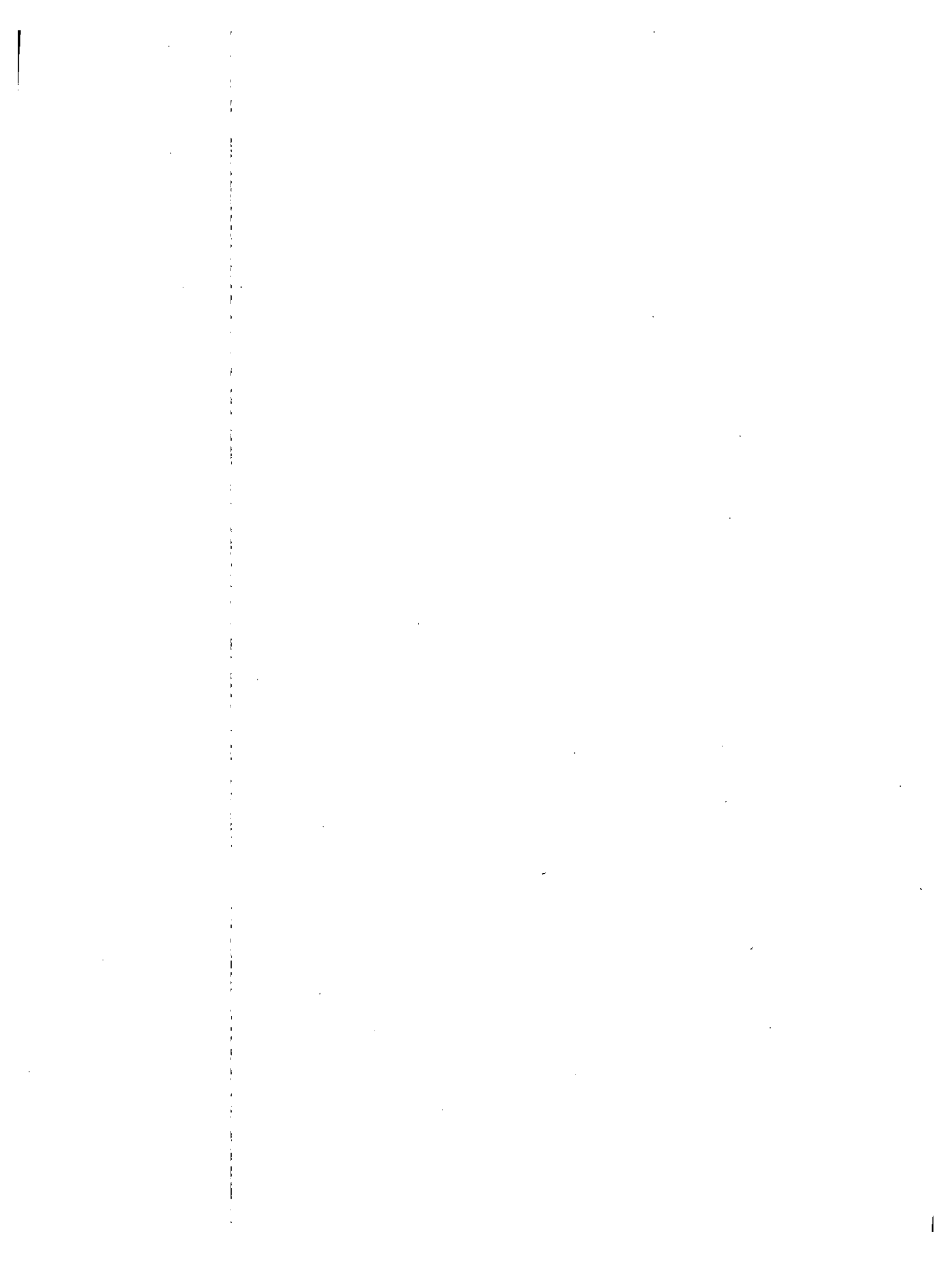
Does at least four feet of naturally occurring previous materials exist in all areas observed throughout the area proposed for this soil absorption system? _____

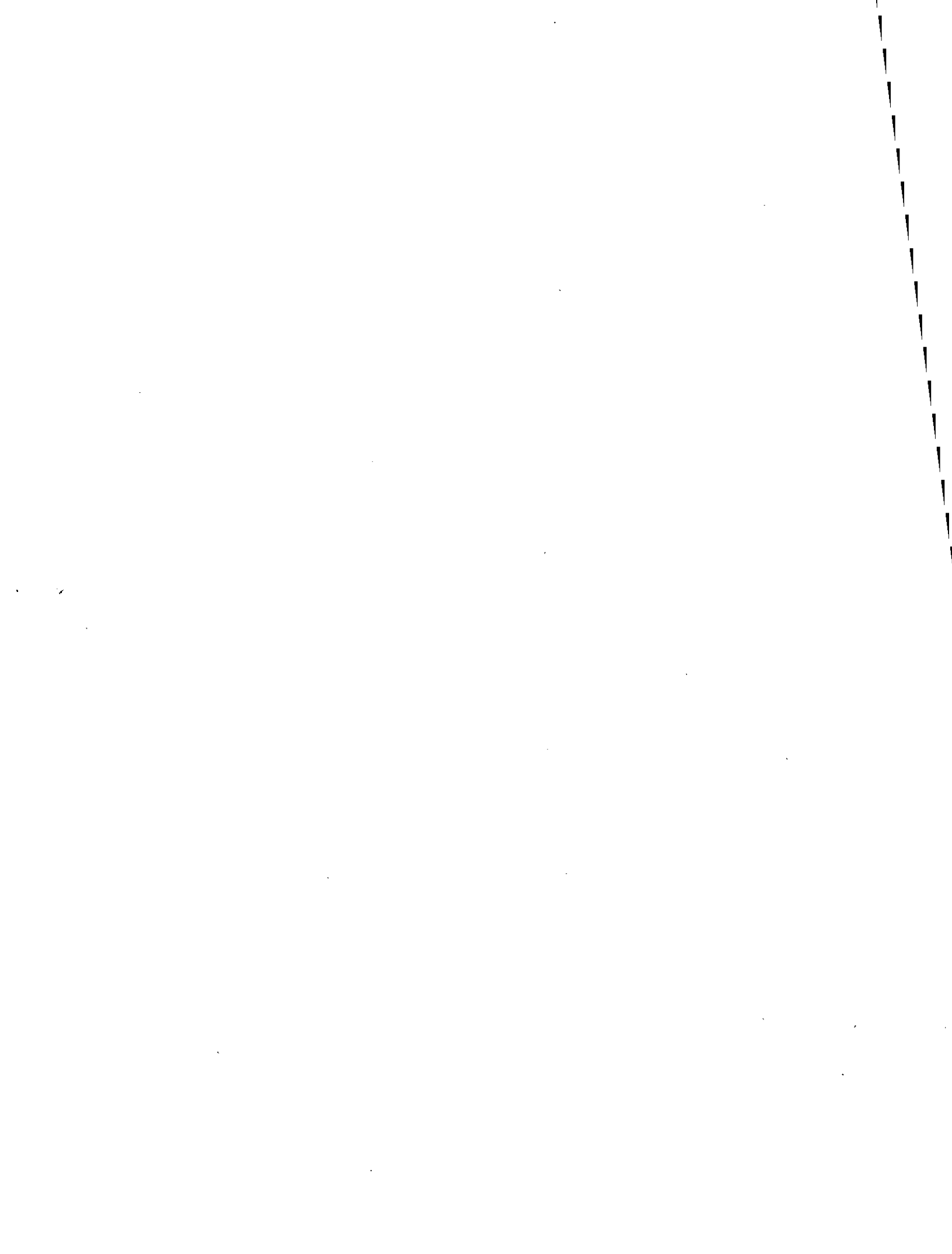
If not, what is the depth of naturally occurring previous material?

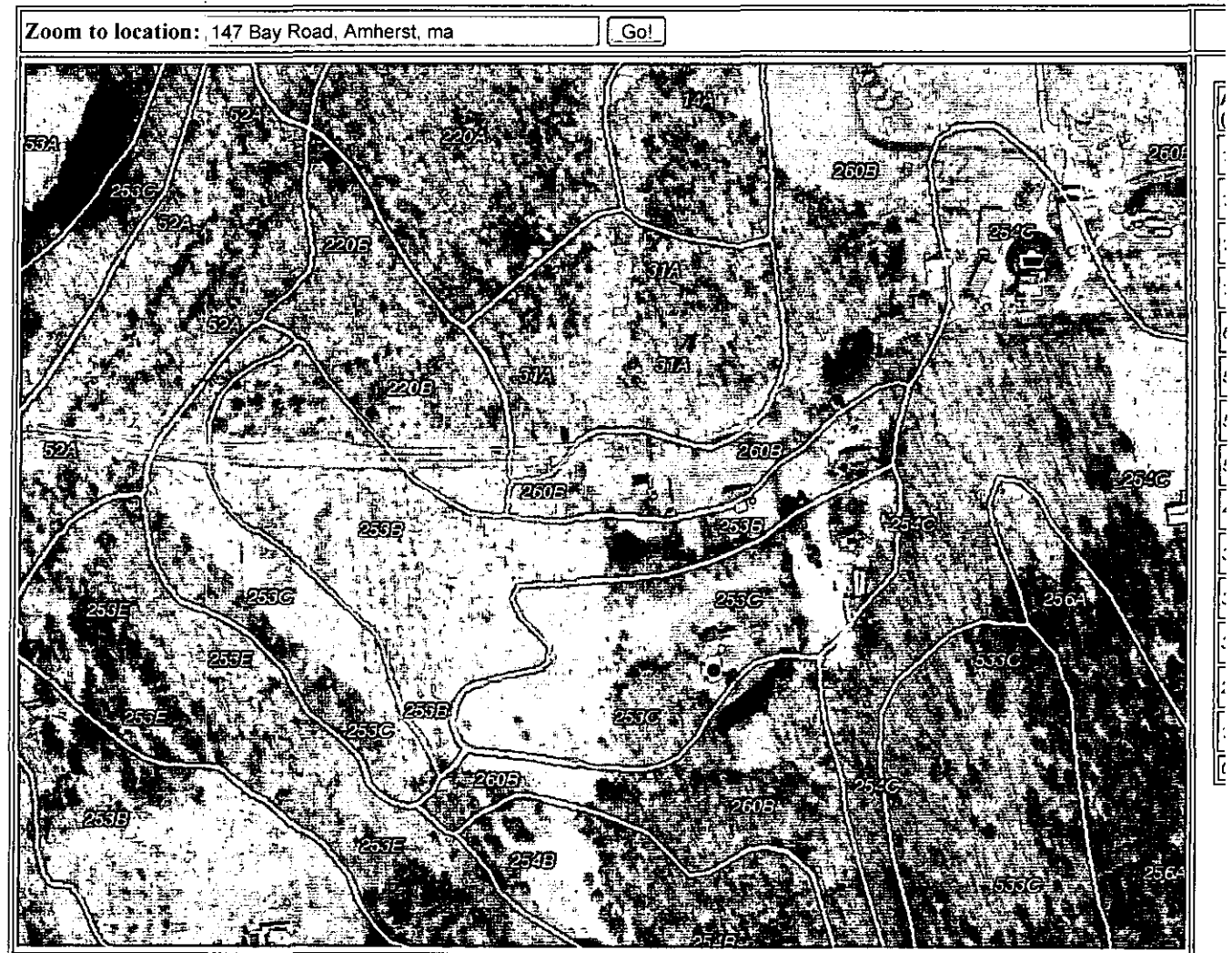
Certification

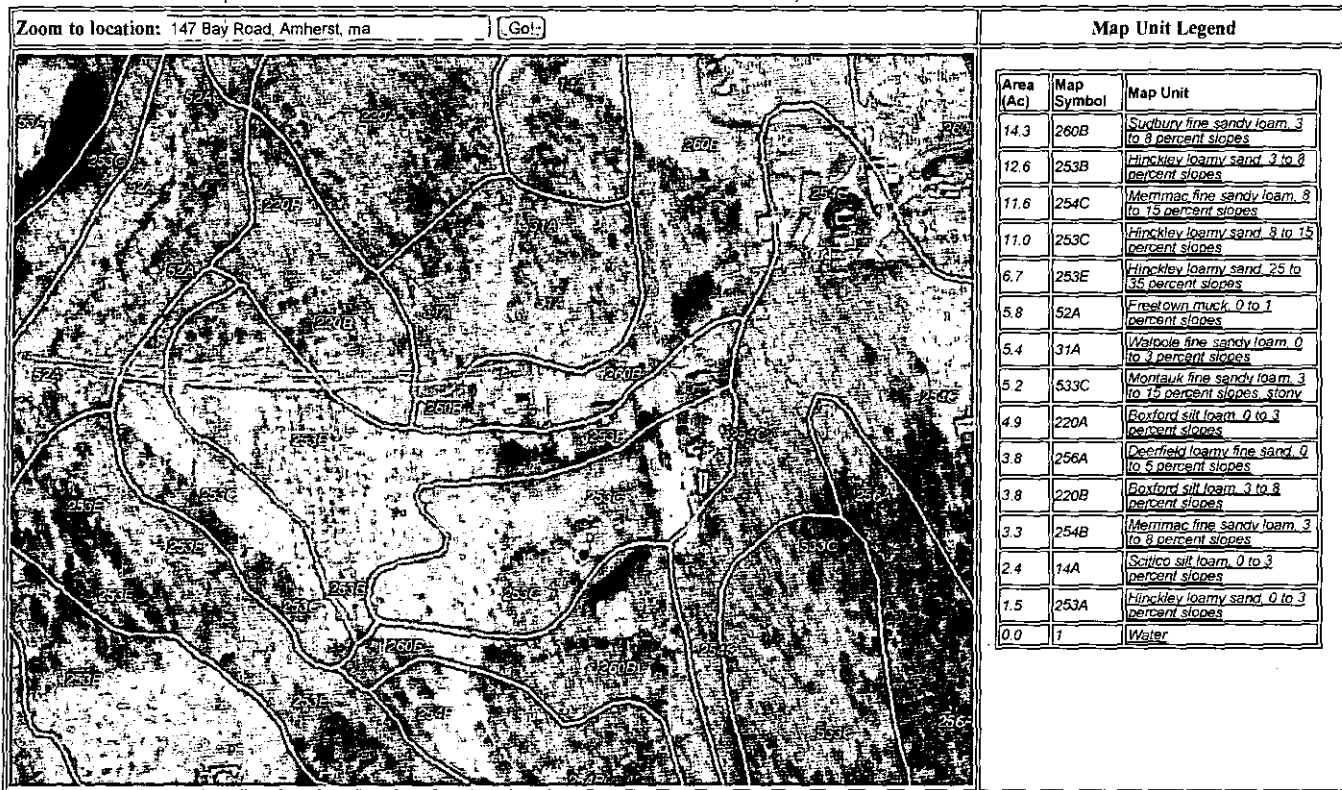
I certify that on _____ (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience described in 310 CMR 15.017.

Signature _____
 Date _____









FORM 12: Percolation Test

Location Address or Lot # 147 BAY ROAD

Commonwealth of Massachusetts

Town of

#2

PERCOLATION TEST *		
DATE:	<u>7/13/2011</u>	TIME:
Observation Hole #		
Depth of Perc	<u>32" 49" (bottom of hole)</u>	
Start Pre-soak	<u>10:32 10:39</u>	<u>DON'T HOLD SOAK</u>
End Pre-soak	<u>10:39</u>	<u>25 gals Poured</u>
Time at 12"		
Time at 9"		
Time at 6"		
Time (9"-6")		
Rate Min./Inch	<u>< 2 min/in</u>	

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

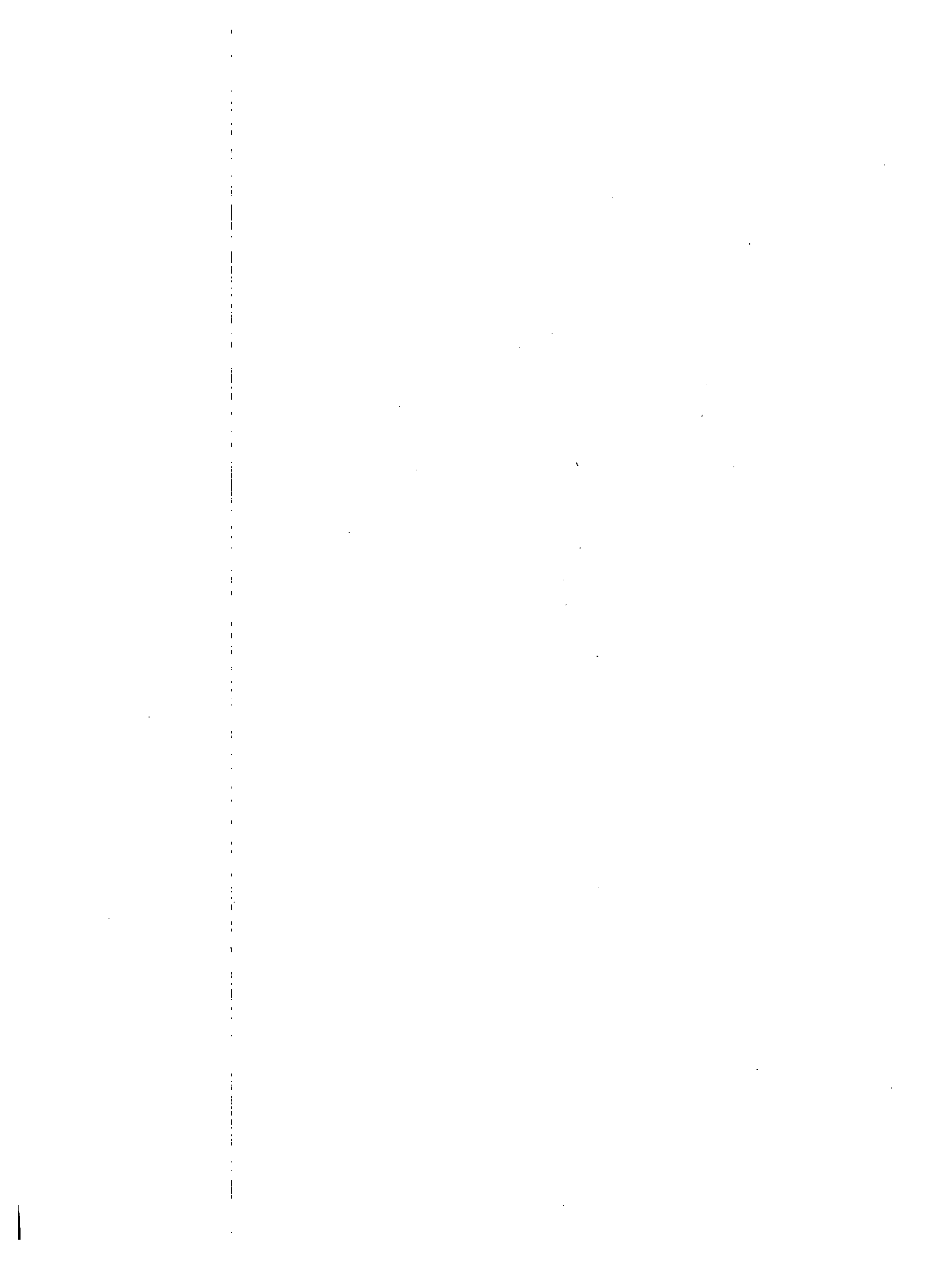
Site Passed

Site failed

Performed by BOB STOVEL

Witnessed by ED SMITH, AMHEEST BOH

Comments:





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

Owner information is required for every page.

147 BAY ROAD
 Property Address
 DOS SANTOS
 Owner's Name
 AMHERST MASS 01002 JUNE 29, 2011
 City/Town State Zip Code Date of Inspection

Inspection results must be submitted on this form. Inspection forms may not be altered in any way. Please see completeness checklist at the end of the form.

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



A. General Information

1. Inspector:
 NATHAN TORRETTI
 Name of Inspector
 CLEAN SEPTICS
 Company Name
 P O BOX 394 252 WEST ST
 Company Address
 LUDLOW MASS 01056
 City/Town State Zip Code
 413 583 2138 S I 4025
 Telephone Number License Number

B. Certification

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

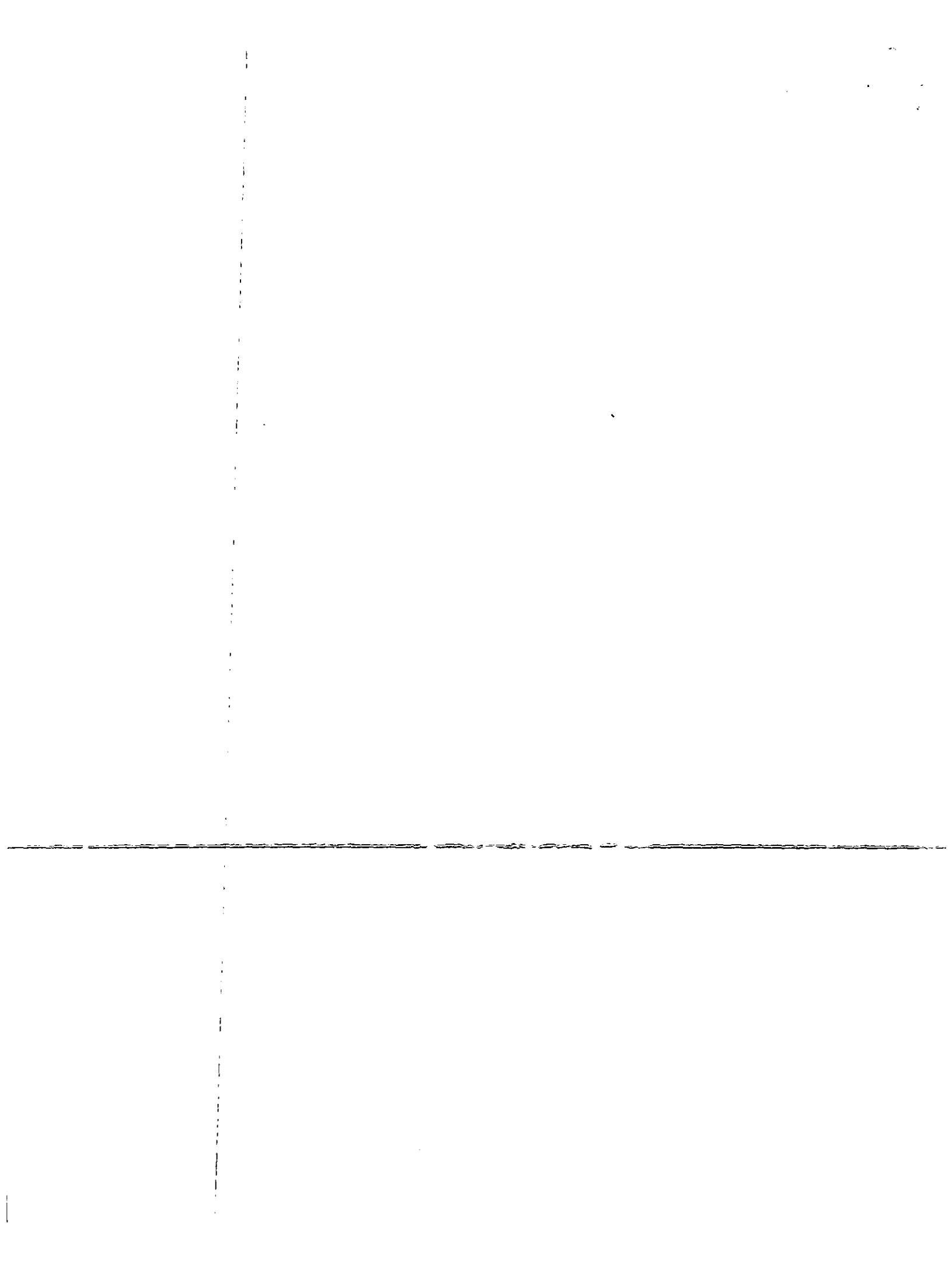
- Passes Conditionally Passes Fails
 Needs Further Evaluation by the Local Approving Authority

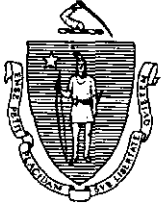
Nathan Torretti

Inspector's Signature JUNE 29, 2011
 Date

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system is a shared system or has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

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





Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

147 BAY ROAD

Property Address

DOS SANTOS

Owner's Name

AMHERST

City/Town

MASS

State

01002

Zip Code

JUNE 29, 2011

Date of Inspection

Owner information is required for every page.

B. Certification (cont.)

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

A) System Passes:

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

Comments:

B) System Conditionally Passes:

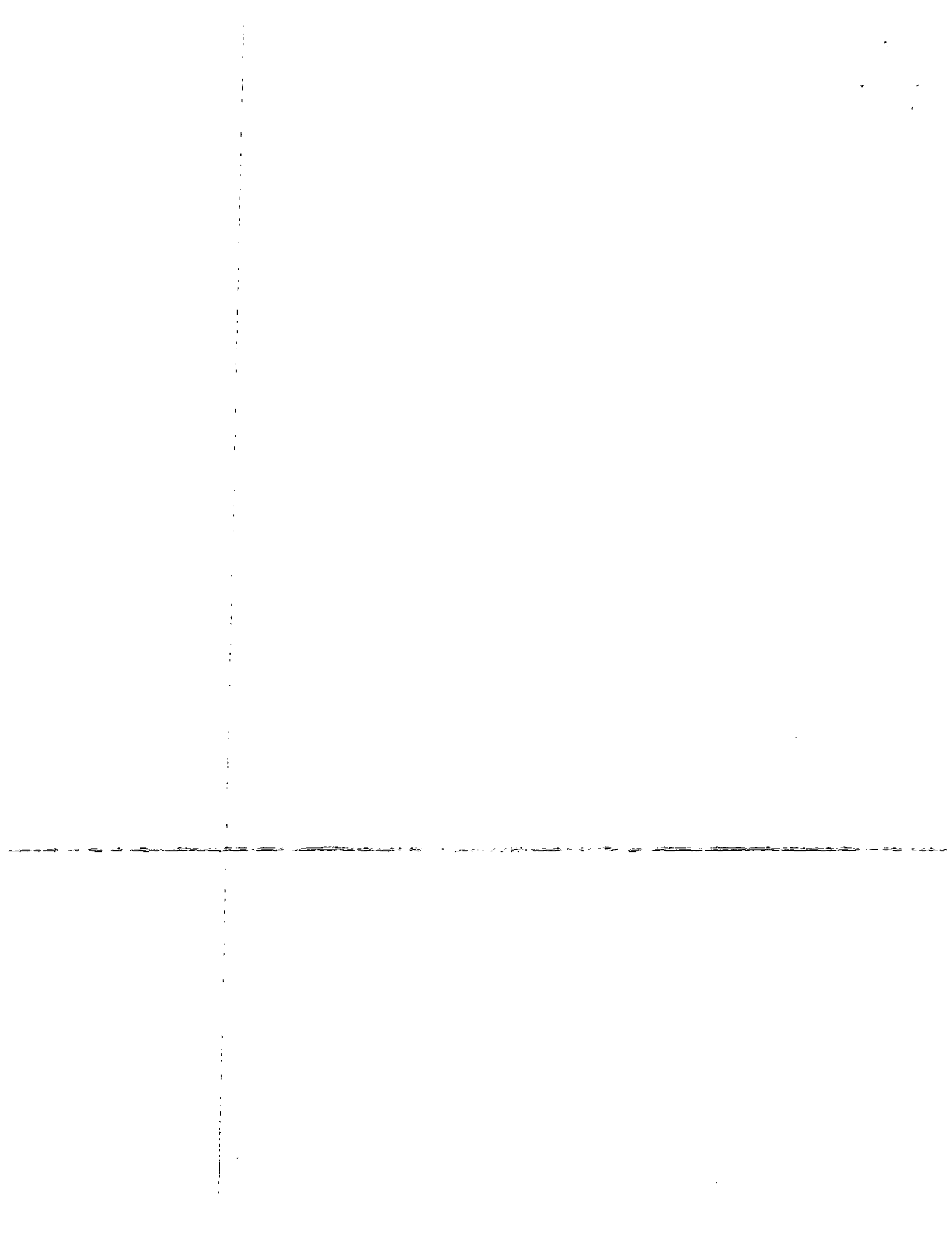
One or more system components as described in the "Conditional Pass" section need to be replaced or repaired. The system, upon completion of the replacement or repair, as approved by the Board of Health, will pass.

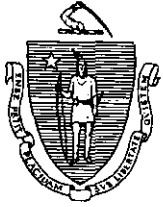
Check the box for "yes", "no" or "not determined" (Y, N, ND) for the following statements. If "not determined," please explain.

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

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

Y N ND (Explain below):





Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

147 BAY ROAD

Property Address

DOS SANTOS

Owner's Name

AMHERST

City/Town

MASS

State

01002

Zip Code

JUNE 29, 2011

Date of Inspection

Owner information is required for every page.

B. Certification (cont.)

B) System Conditionally Passes (cont.):

Observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health):

broken pipe(s) are replaced Y N ND (Explain below):

obstruction is removed Y N ND (Explain below):

distribution box is leveled or replaced Y N ND (Explain below):

The system required pumping more than 4 times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health):

broken pipe(s) are replaced Y N ND (Explain below):

obstruction is removed Y N ND (Explain below):

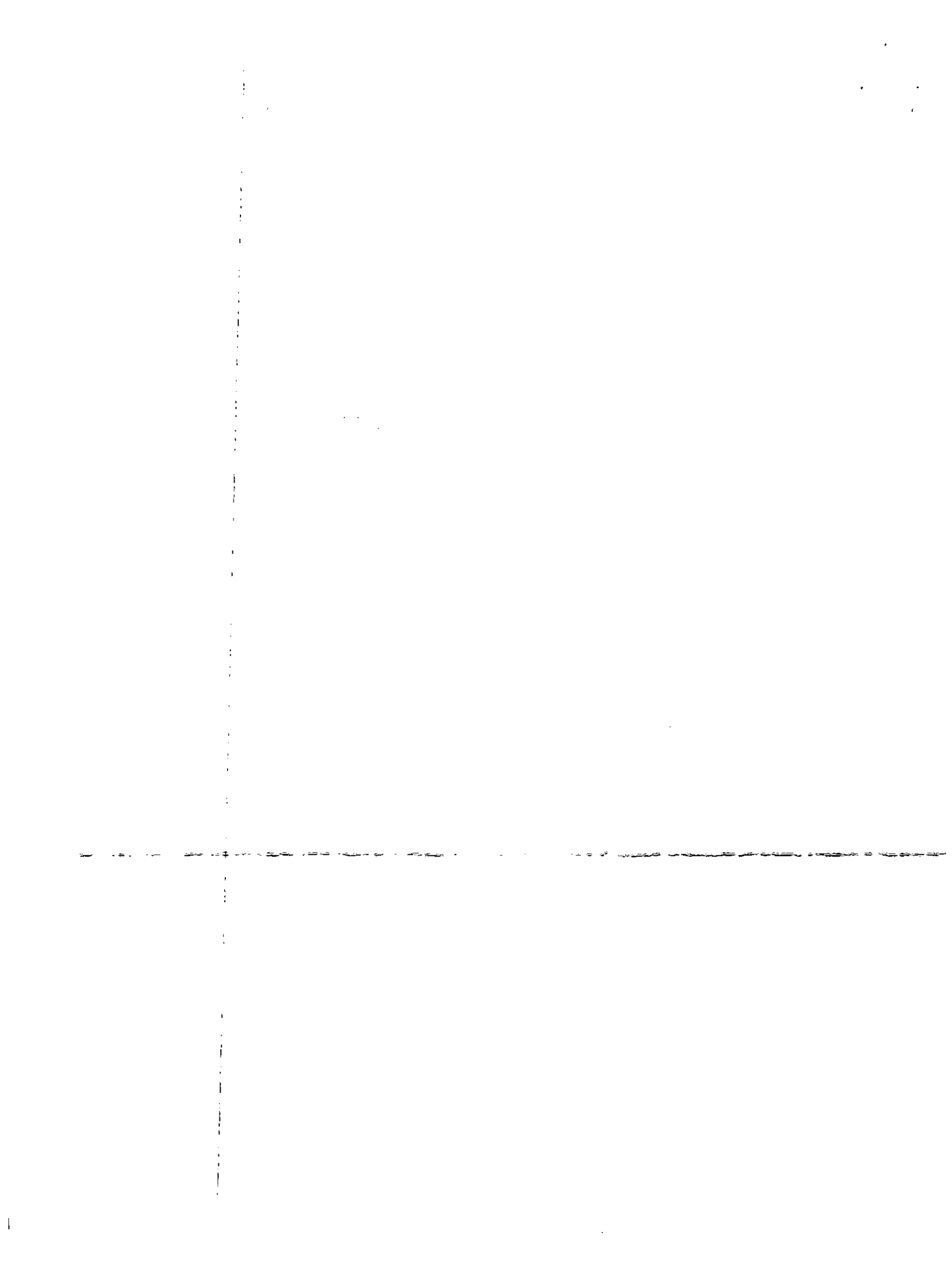
C) Further Evaluation is Required by the Board of Health:

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

1. System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, safety and the environment:

Cesspool or privy is within 50 feet of a surface water

Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh





Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

147 BAY ROAD

Property Address

DOS SANTOS

Owner's Name

AMHERST

City/Town

MASS

State

01002

Zip Code

JUNE 29, 2011

Date of Inspection

Owner information is required for every page.

B. Certification (cont.)

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

- The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.
- The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.
- The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.
- The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well**.

Method used to determine distance: _____

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

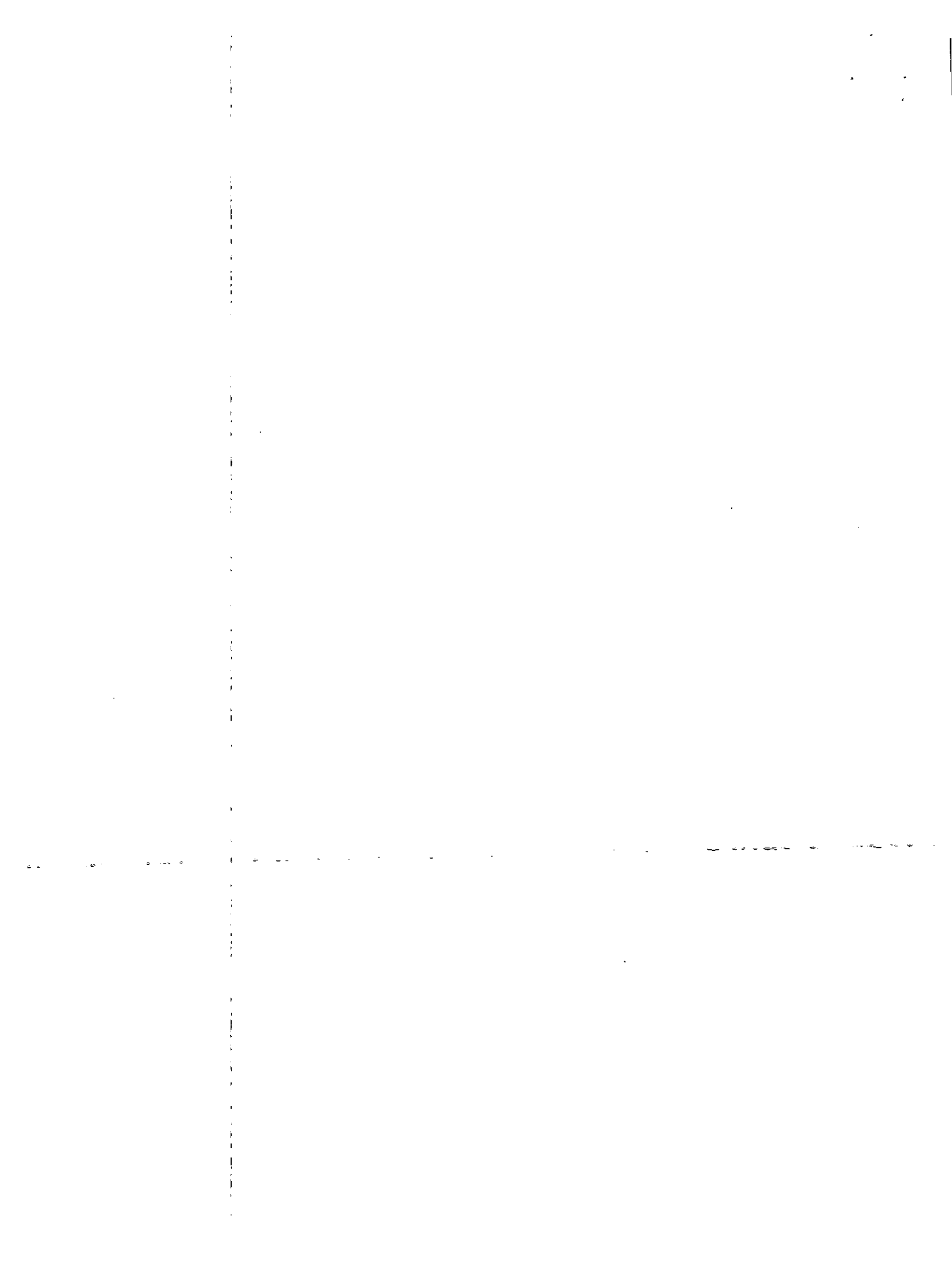
3. Other:

D) System Failure Criteria Applicable to All Systems:

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

Yes No

- | | | |
|-------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow |





Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

147 BAY ROAD

Property Address

DOS SANTOS

Owner's Name

AMHERST

City/Town

MASS

State

01002

Zip Code

JUNE 29, 2011

Date of Inspection

Owner information is required for every page.

B. Certification (cont.)

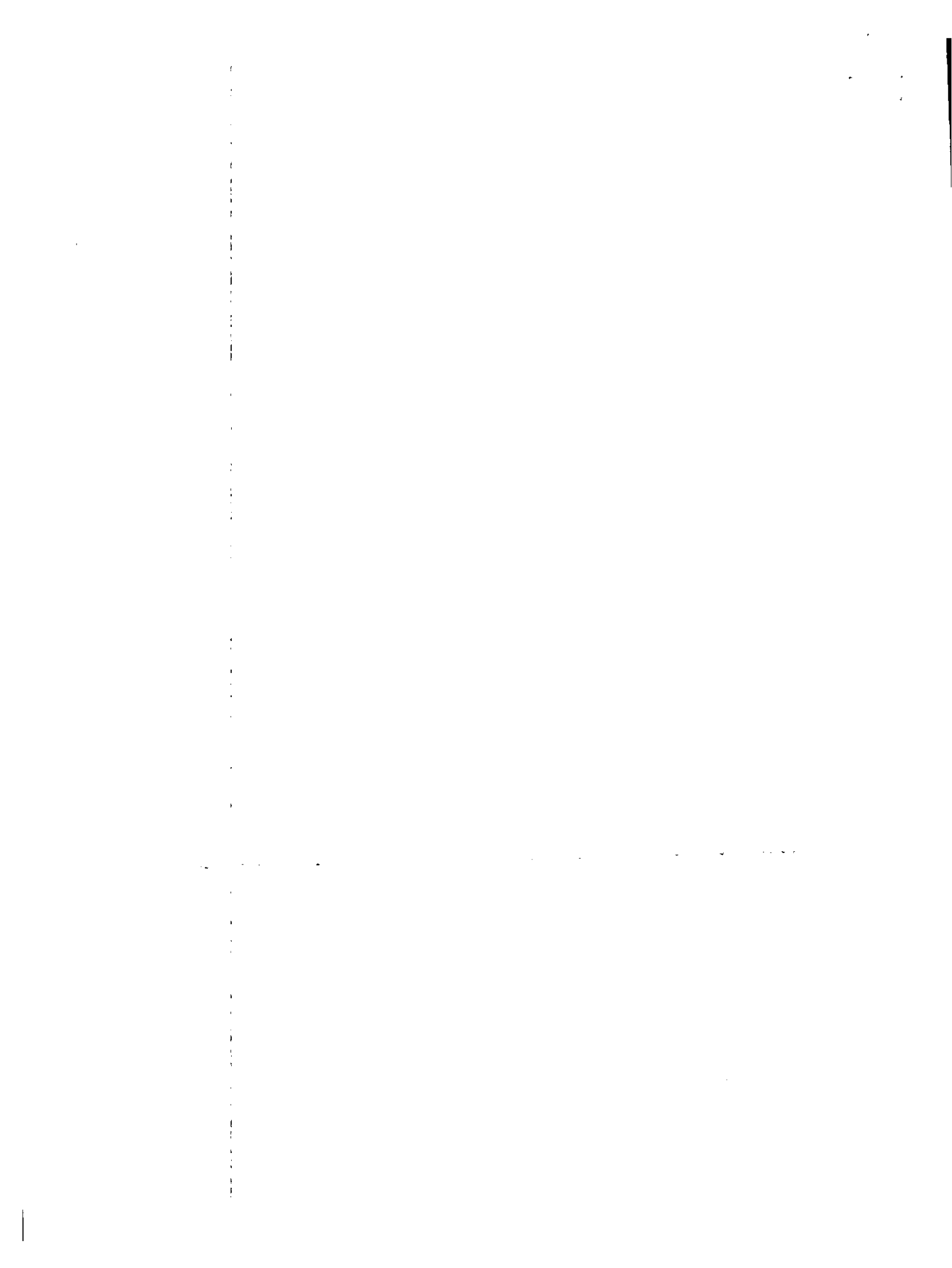
- Yes No Required pumping more than 4 times in the last year NOT due to clogged or obstructed pipe(s). Number of times pumped: _____. Any portion of the SAS, cesspool or privy is below high ground water elevation. Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply. Any portion of a cesspool or privy is within a Zone 1 of a public well. Any portion of a cesspool or privy is within 50 feet of a private water supply well. Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis and chain of custody must be attached to this form.] The system is a cesspool serving a facility with a design flow of 2000gpd-10,000gpd. The system fails. I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.

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

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

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

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





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C. Checklist

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

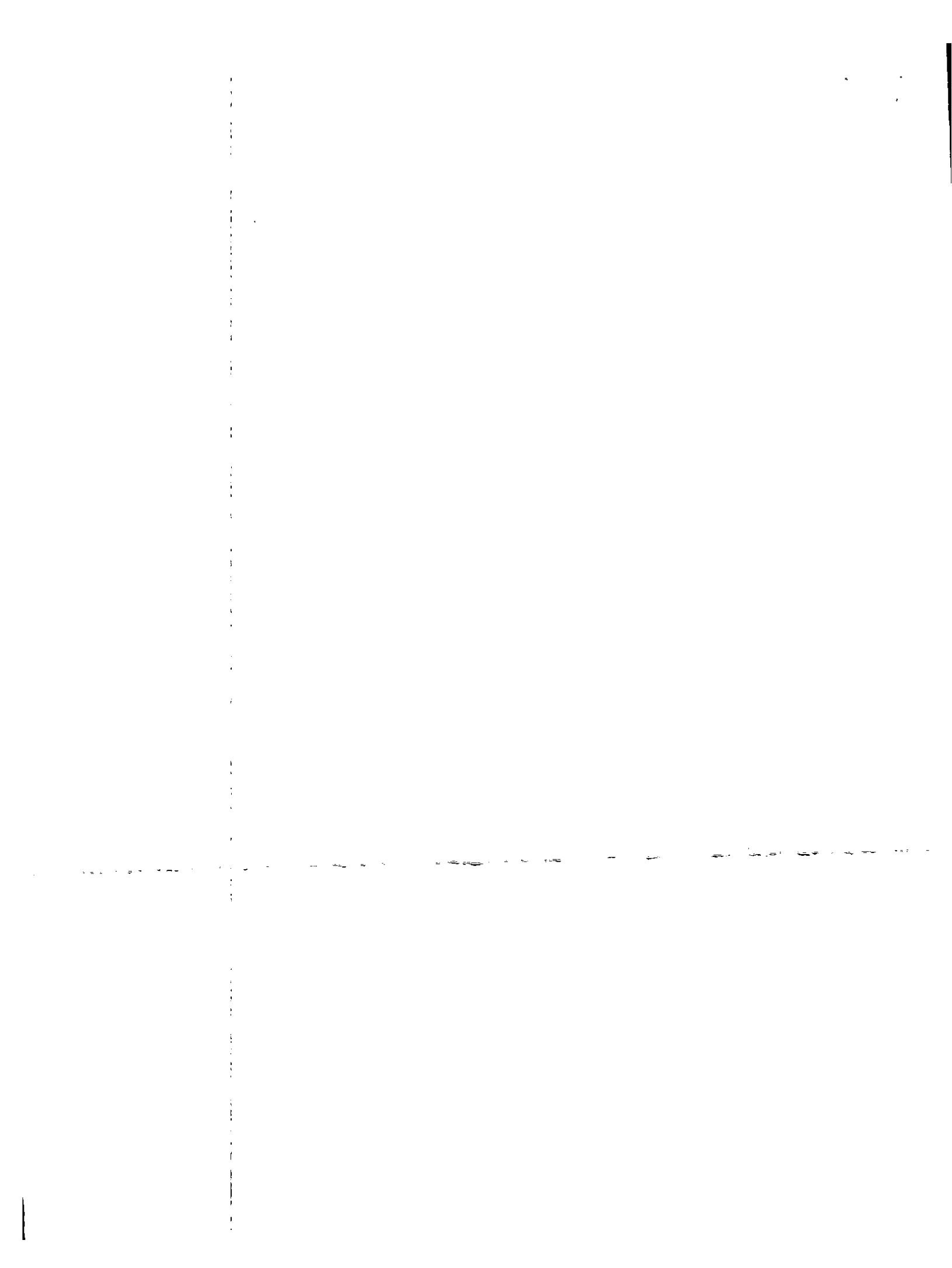
- Checklist items with Yes/No columns and checkboxes. Questions include: Pumping information was provided... Were any of the system components pumped out... Has the system received normal flows... Have large volumes of water been introduced... Were as built plans of the system obtained... Was the facility or dwelling inspected for signs of sewage back up? Was the site inspected for signs of break out? Were all system components, excluding the SAS, located on site? Were the septic tank manholes uncovered... Was the facility owner provided with information on the proper maintenance... Existing information... Determined in the field...

D. System Information

Residential Flow Conditions:

Number of bedrooms (design): 3 Number of bedrooms (actual): 3

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 330





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 MASS
 State
 01002
 Zip Code
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 Date of Inspection

D. System Information

Description:

Number of current residents: 2

Does residence have a garbage grinder? Yes No

Is laundry on a separate sewage system? [if **yes** separate inspection required] Yes No

Laundry system inspected? Yes No

Seasonal use? Yes No

Water meter readings, if available (last 2 years usage (gpd)): TOWN WATER

Detail:

Sump pump? Yes No

Last date of occupancy: PRESENT
 Date

Commercial/Industrial Flow Conditions:

Type of Establishment: _____

Design flow (based on 310 CMR 15.203): _____
 Gallons per day (gpd)

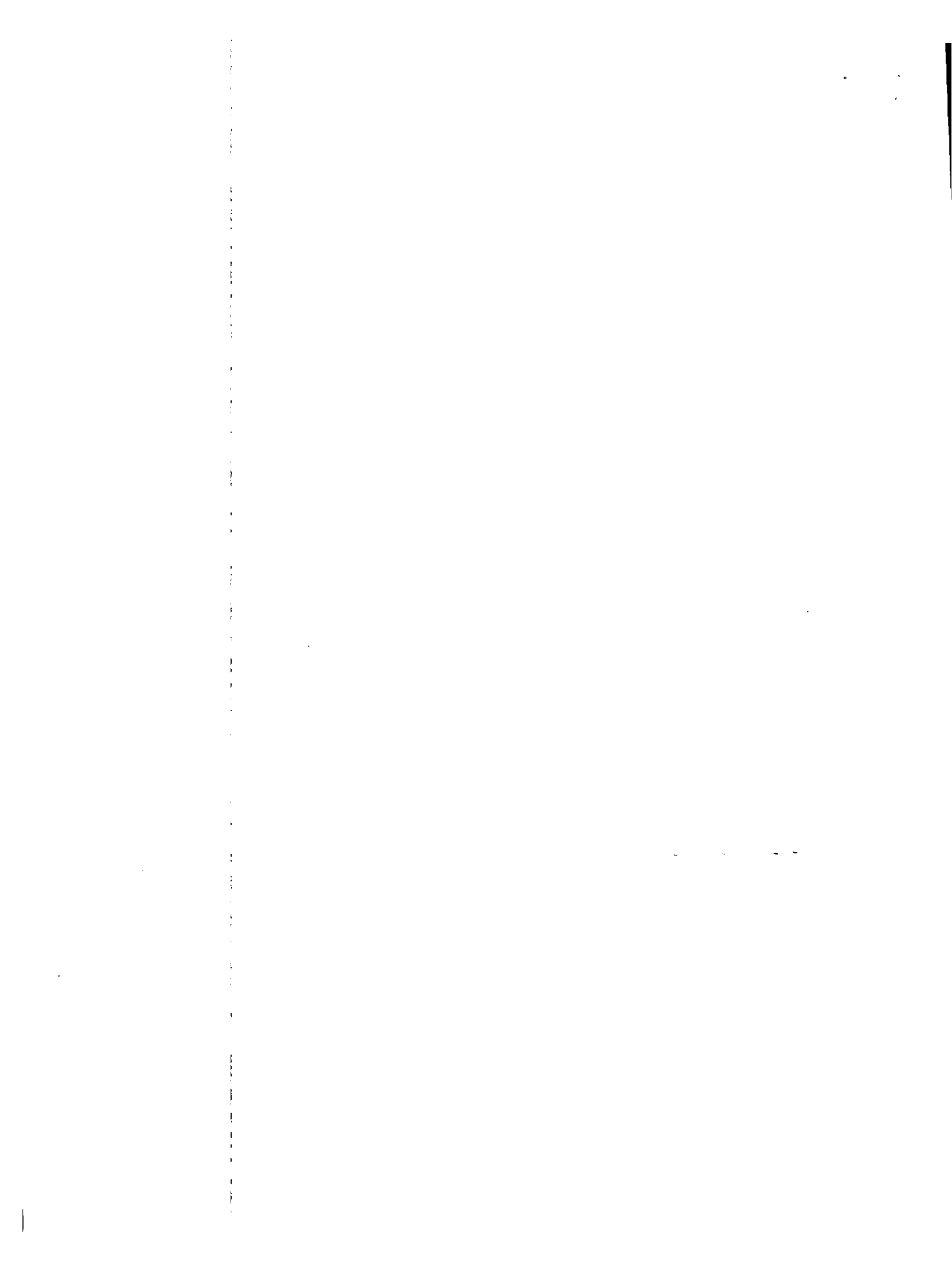
Basis of design flow (seats/persons/sq.ft., etc.): _____

Grease trap present? Yes No

Industrial waste holding tank present? Yes No

Non-sanitary waste discharged to the Title 5 system? Yes No

Water meter readings, if available: _____





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 Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

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 Zip Code
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D. System Information (cont.)

Last date of occupancy/use: _____ Date

Other (describe below):

General Information

Pumping Records:

Source of information: PUMPED 6 / 13 / 2008 BY CLEAN SEPTICS

Was system pumped as part of the inspection? Yes No

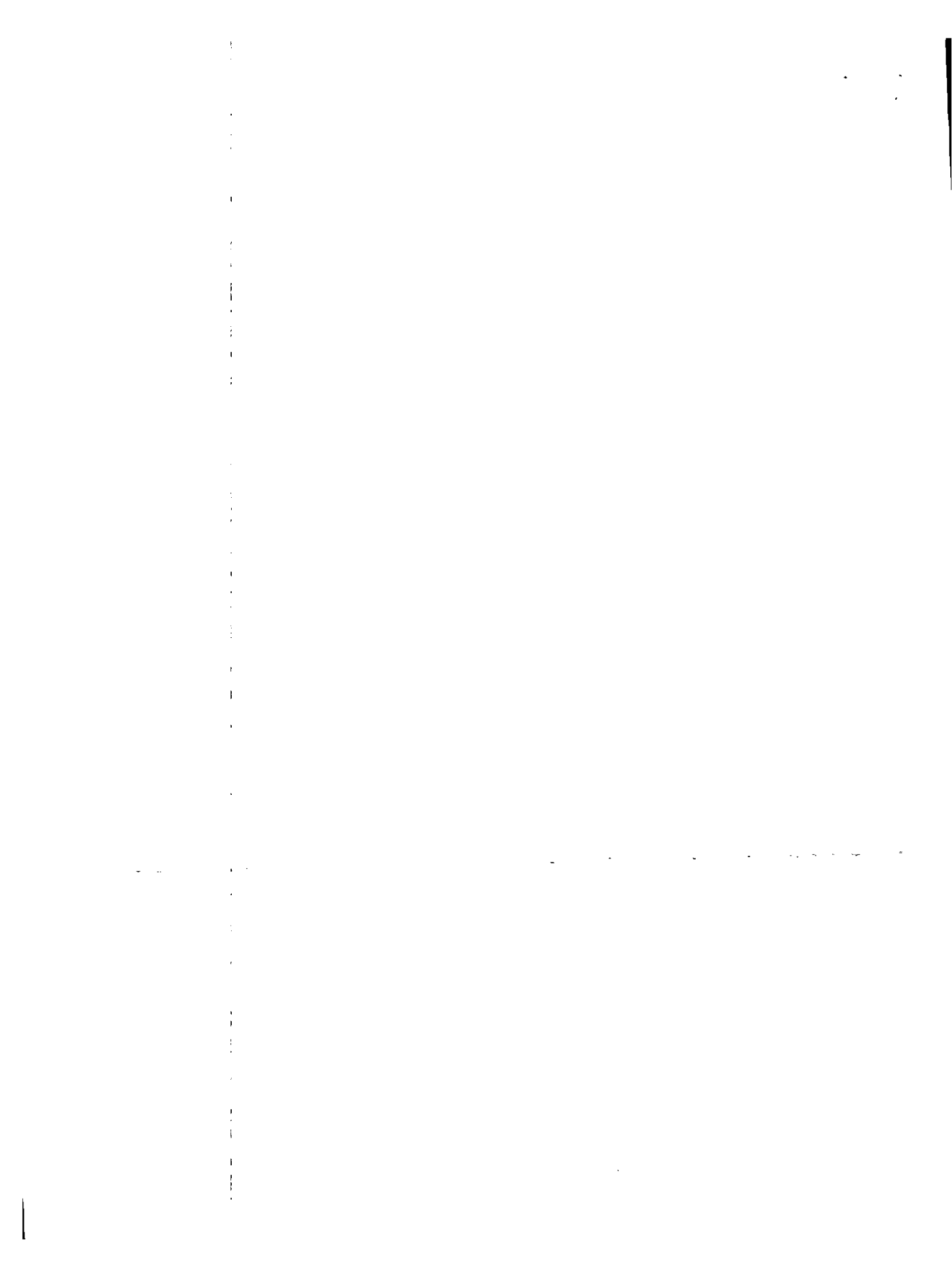
If yes, volume pumped: _____ gallons

How was quantity pumped determined? _____

Reason for pumping: _____

Type of System:

- Septic tank, distribution box, soil absorption system
- Single cesspool
- Overflow cesspool
- Privy
- Shared system (yes or no) (if yes, attach previous inspection records, if any)
- Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner) and a copy of latest inspection of the I/A system by system operator under contract
- Tight tank. Attach a copy of the DEP approval.
- Other (describe): _____





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D. System Information (cont.)

Approximate age of all components, date installed (if known) and source of information:

APPROXIMATELY N / A

Were sewage odors detected when arriving at the site? Yes No

Building Sewer (locate on site plan):

Depth below grade: _____ feet

Material of construction:

cast iron 40 PVC other (explain): _____

Distance from private water supply well or suction line: _____ feet
 TOWN WATER

Comments (on condition of joints, venting, evidence of leakage, etc.):

JOINTS AND VENTING OK, NO LEAKAGE

Septic Tank (locate on site plan):

Depth below grade: _____ feet
 1'

Material of construction:

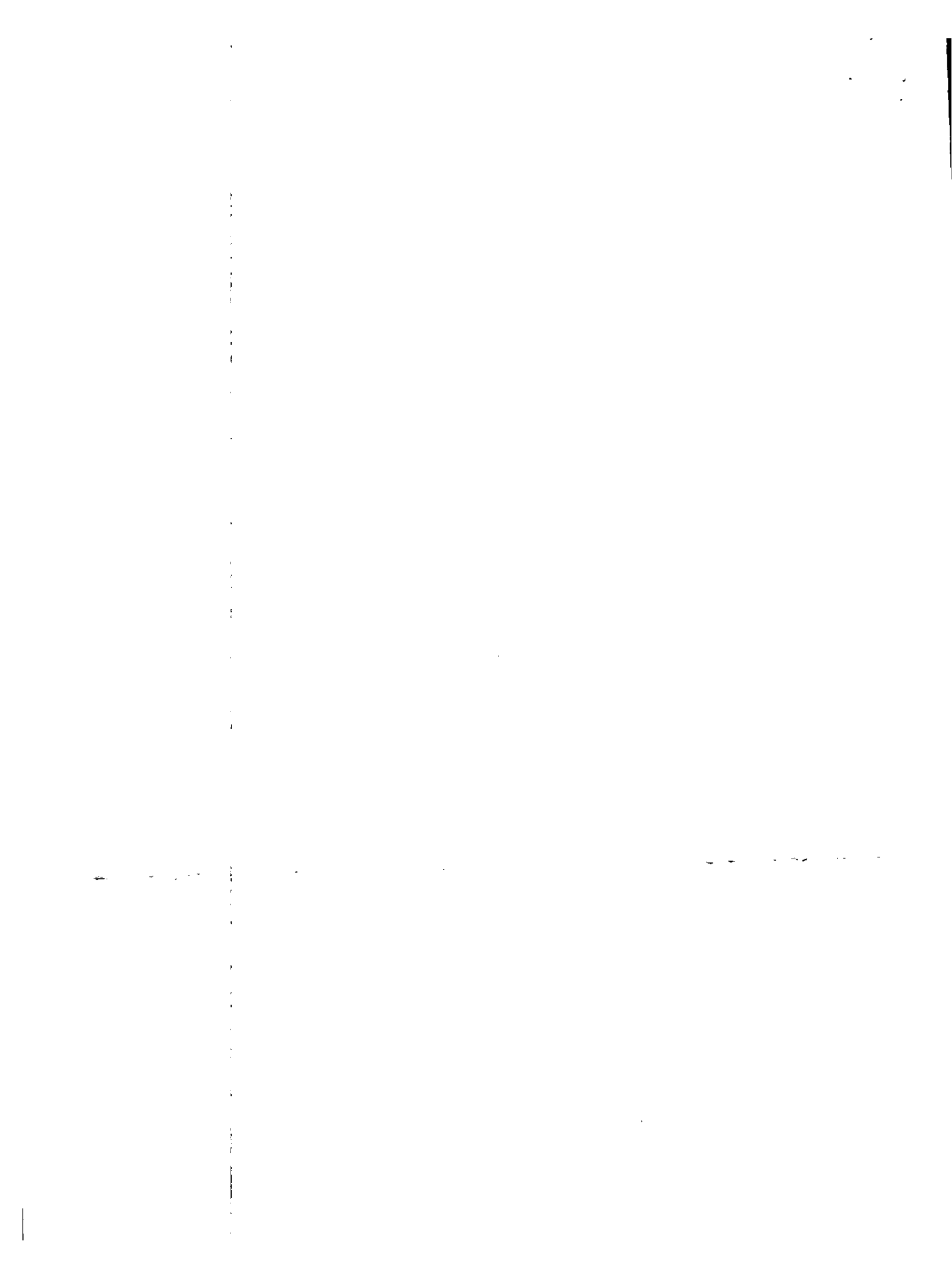
concrete metal fiberglass polyethylene other (explain)

If tank is metal, list age: _____ years

Is age confirmed by a Certificate of Compliance? (attach a copy of certificate) Yes No

Dimensions: _____
 L 10' 5' X W 5' X H 5'

Sludge depth: _____





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D. System Information (cont.)

Septic Tank (cont.)

Distance from top of sludge to bottom of outlet tee or baffle _____

Scum thickness _____

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

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

How were dimensions determined? _____

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

PUMP SEPTIC TANK EVERY ONE - THREE YEARS, INLET AND OUTLET BAFFLE OK. TANK IS STRUCTURALLY SOUND, LIQUID LEVELS ARE AT THE INVERT. NO LEAKAGE

Grease Trap (locate on site plan):

Depth below grade: _____

feet

Material of construction:

concrete

metal

fiberglass

polyethylene

other (explain):

Dimensions: _____

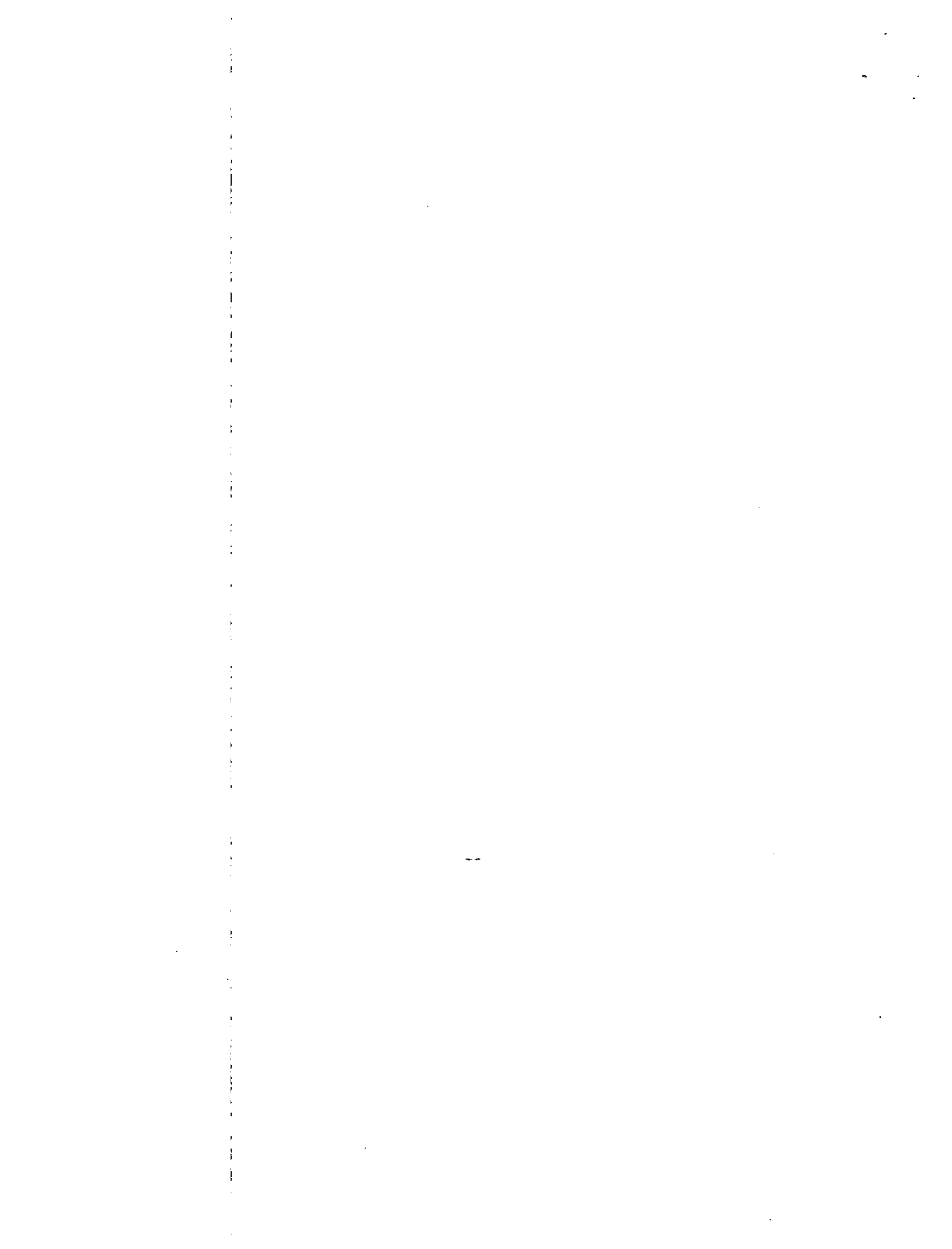
Scum thickness _____

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

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

Date of last pumping: _____

Date





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D. System Information (cont.)

Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

SEPTIC TANK IS STRUCTURALLY SOUND

Tight or Holding Tank (tank must be pumped at time of inspection) (locate on site plan):

Depth below grade: _____

Material of construction:

concrete

metal

fiberglass

polyethylene

other (explain):

Dimensions: _____

Capacity: _____

gallons

Design Flow: _____

gallons per day

Alarm present: Yes No

Alarm level: _____

Alarm in working order: Yes No

Date of last pumping: _____

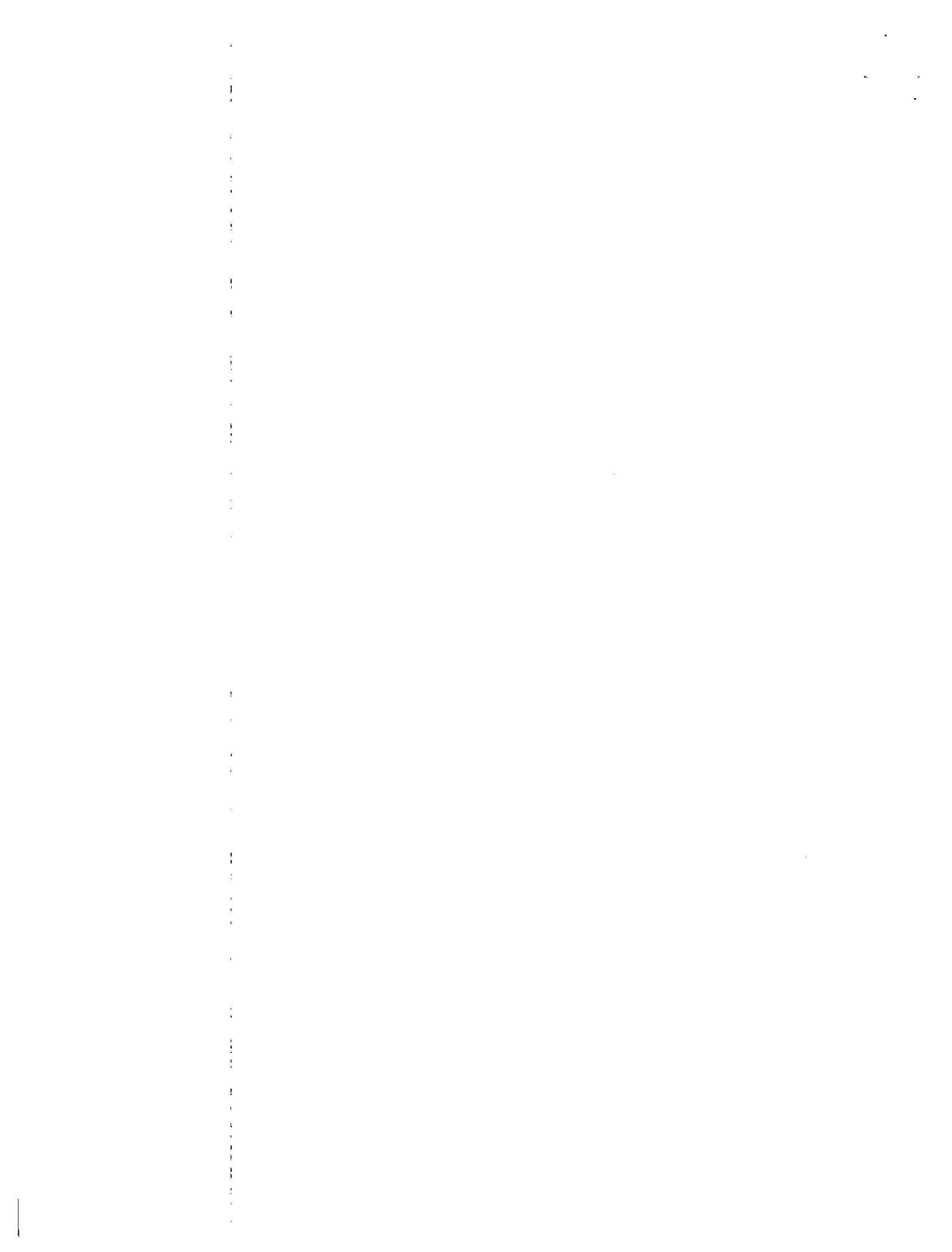
Date

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

* Attach copy of current pumping contract (required). Is copy attached?

Yes

No





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D. System Information (cont.)

Distribution Box (if present must be opened) (locate on site plan):

Depth of liquid level above outlet invert 2", D-BOX IS APPROXIMATELY 1' 2" DEEP

Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.):

S . A . S . IS FLOODED

Pump Chamber (locate on site plan):

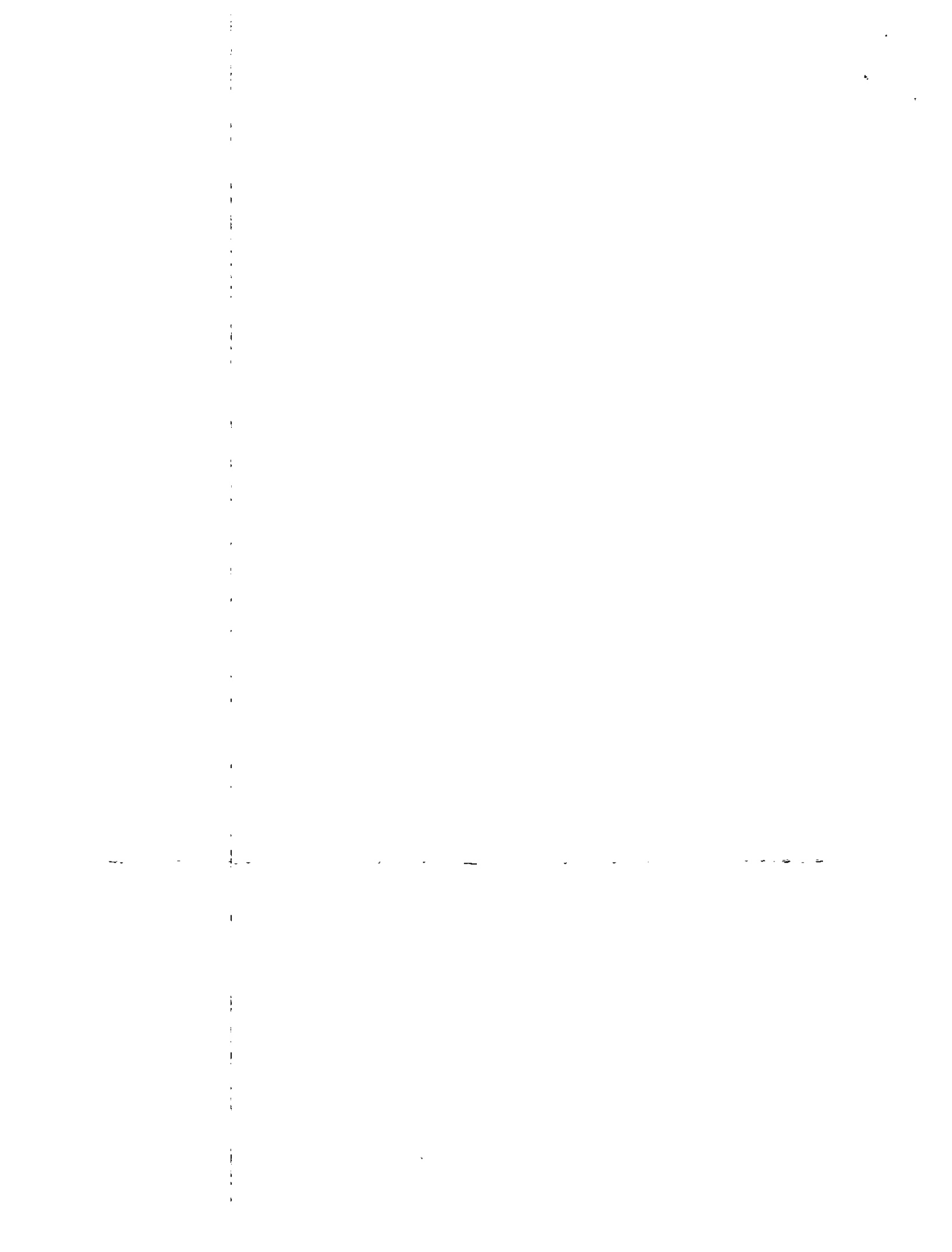
Pumps in working order: Yes No

Alarms in working order: Yes No

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

Soil Absorption System (SAS) (locate on site plan, excavation not required):

If SAS not located, explain why:





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D. System Information (cont.)

Type:

- leaching pits number: _____
- leaching chambers number: _____
- leaching galleries number: _____
- leaching trenches number, length: 2, 30' TO 35" LENGTHS
- leaching fields number, dimensions: OFF D -BOX
- overflow cesspool number: _____
- innovative/alternative system

Type/name of technology: _____

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

YES SIGNS OF HYDRAULIC FAILURE

Cesspools (cesspool must be pumped as part of inspection) (locate on site plan):

Number and configuration _____

Depth – top of liquid to inlet invert _____

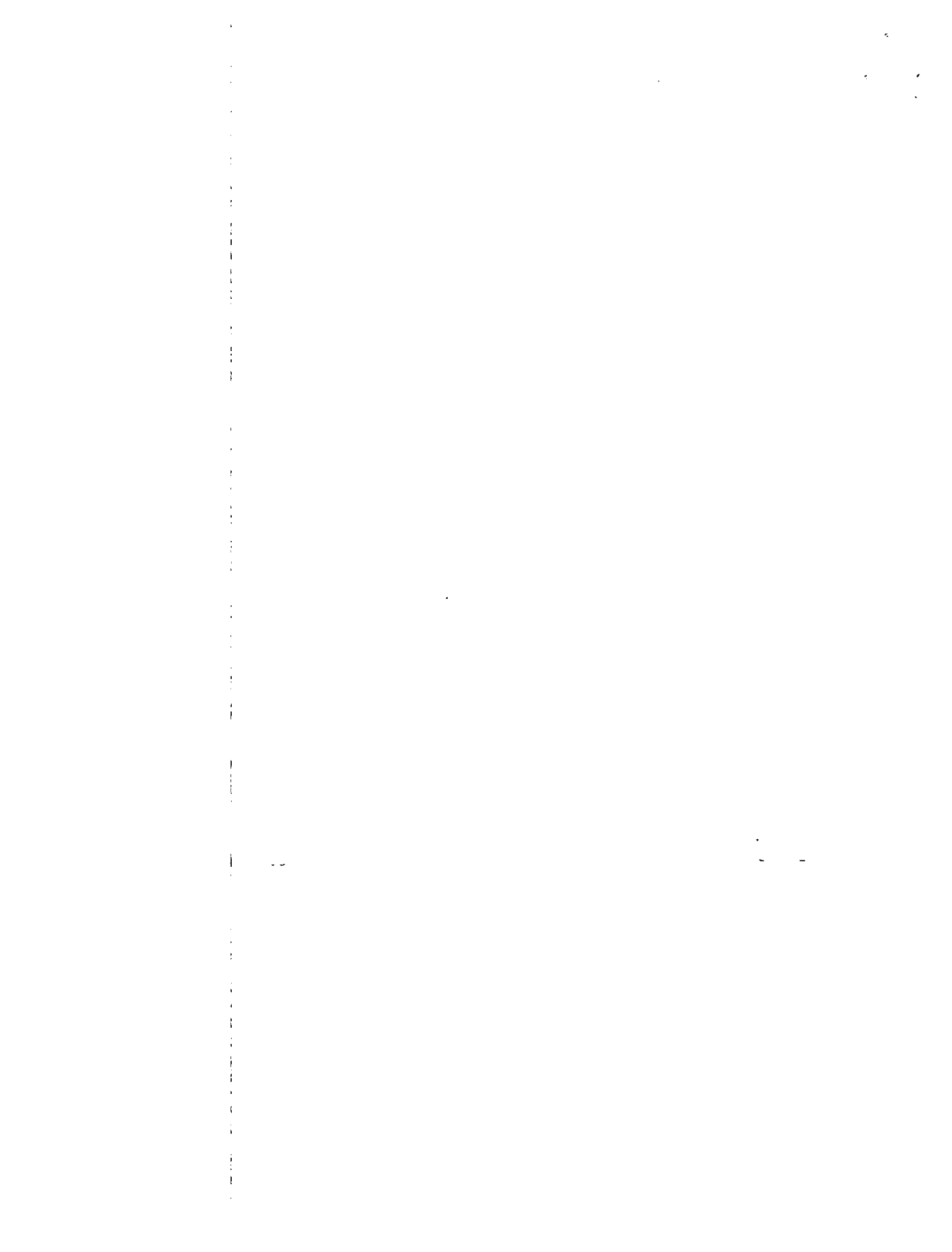
Depth of solids layer _____

Depth of scum layer _____

Dimensions of cesspool _____

Materials of construction _____

Indication of groundwater inflow Yes No





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D. System Information (cont.)

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

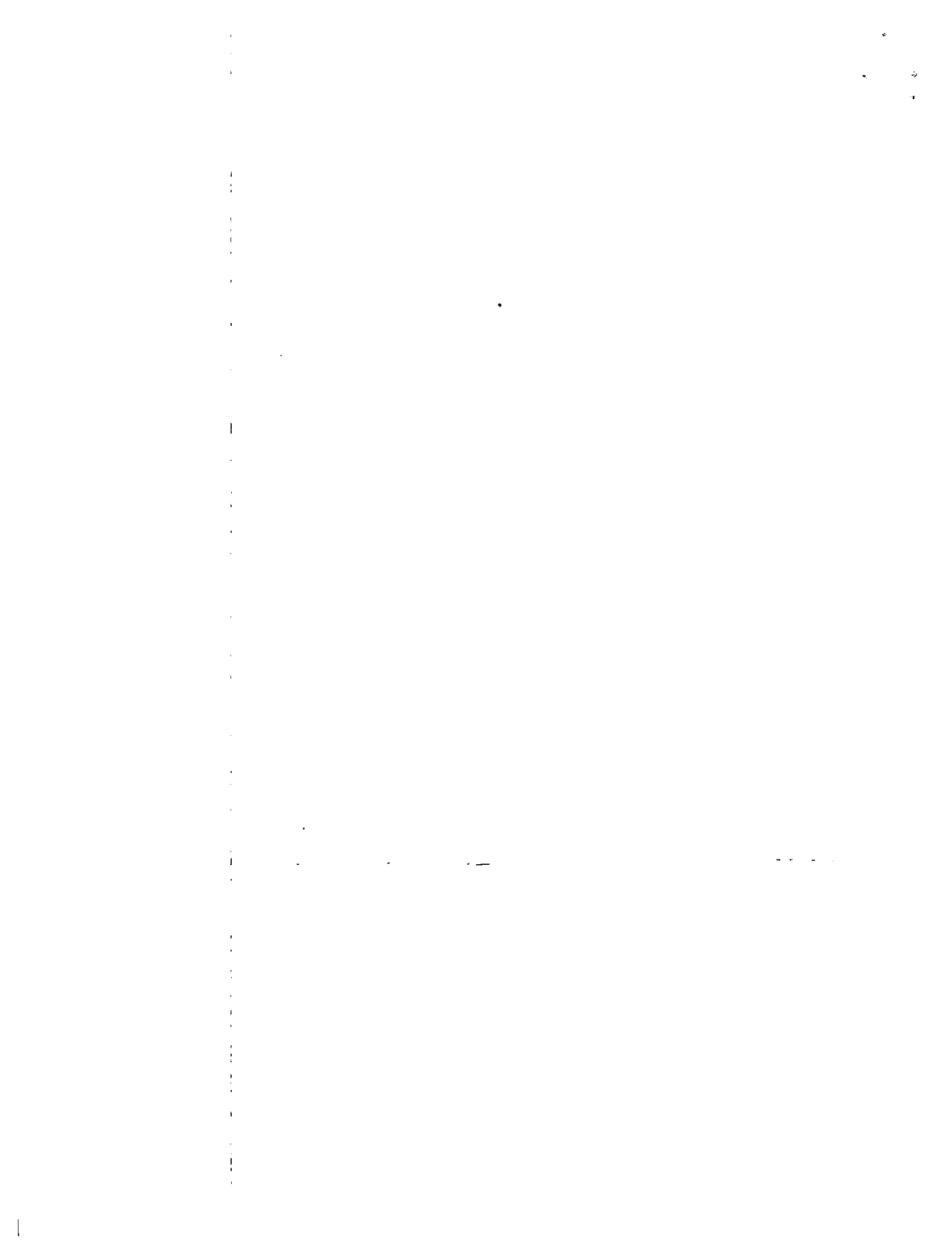
Privy (locate on site plan):

Materials of construction:

Dimensions

Depth of solids

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





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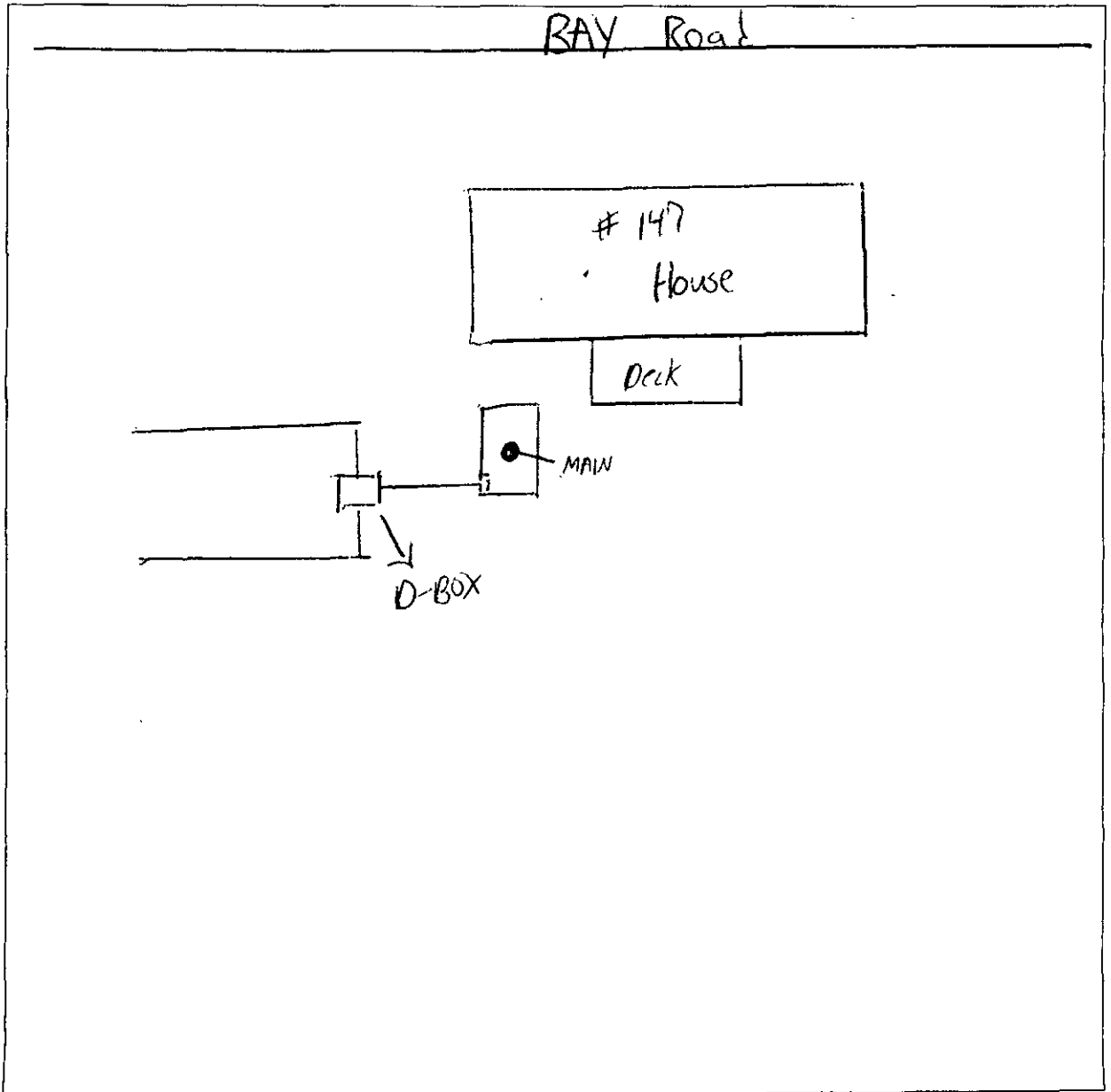
Date of Inspection

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D. System Information (cont.)

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

- hand-sketch in the area below
- drawing attached separately







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D. System Information (cont.)

Site Exam:

Check Slope

Surface water

Check cellar

Shallow wells

Estimated depth to high ground water: _____

feet

Please indicate all methods used to determine the high ground water elevation:

Obtained from system design plans on record

If checked, date of design plan reviewed: _____

Date

Observed site (abutting property/observation hole within 150 feet of SAS)

Checked with local Board of Health - explain:

INSPECTION WITNESS BY THE BOARD OF HEALTH

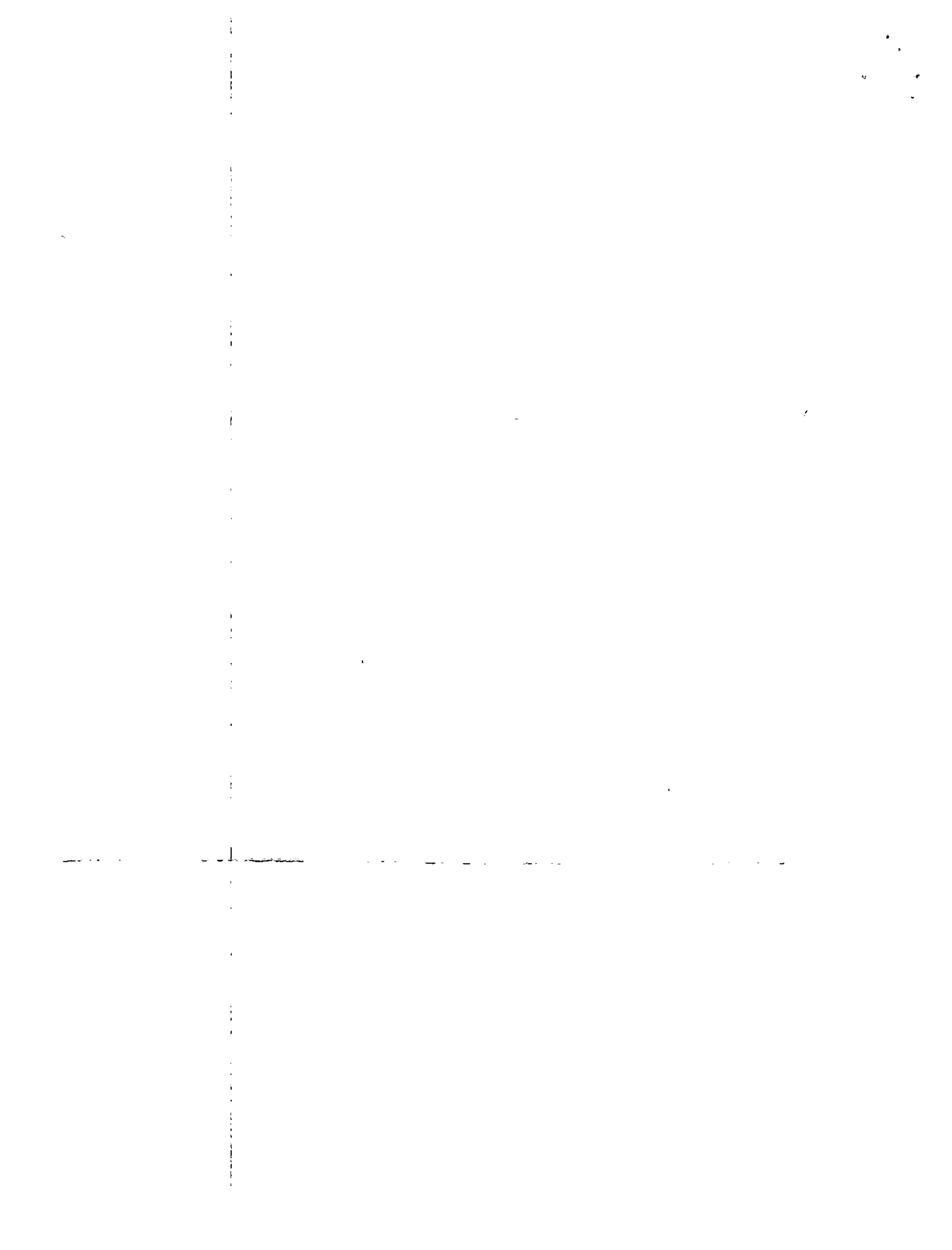
Checked with local excavators, installers - (attach documentation)

Accessed USGS database - explain:

You **must** describe how you established the high ground water elevation:

TO BE VERIFIED AT TIME OF PERCOLATION TEST

Before filing this Inspection Report, please see Report Completeness Checklist on next page.





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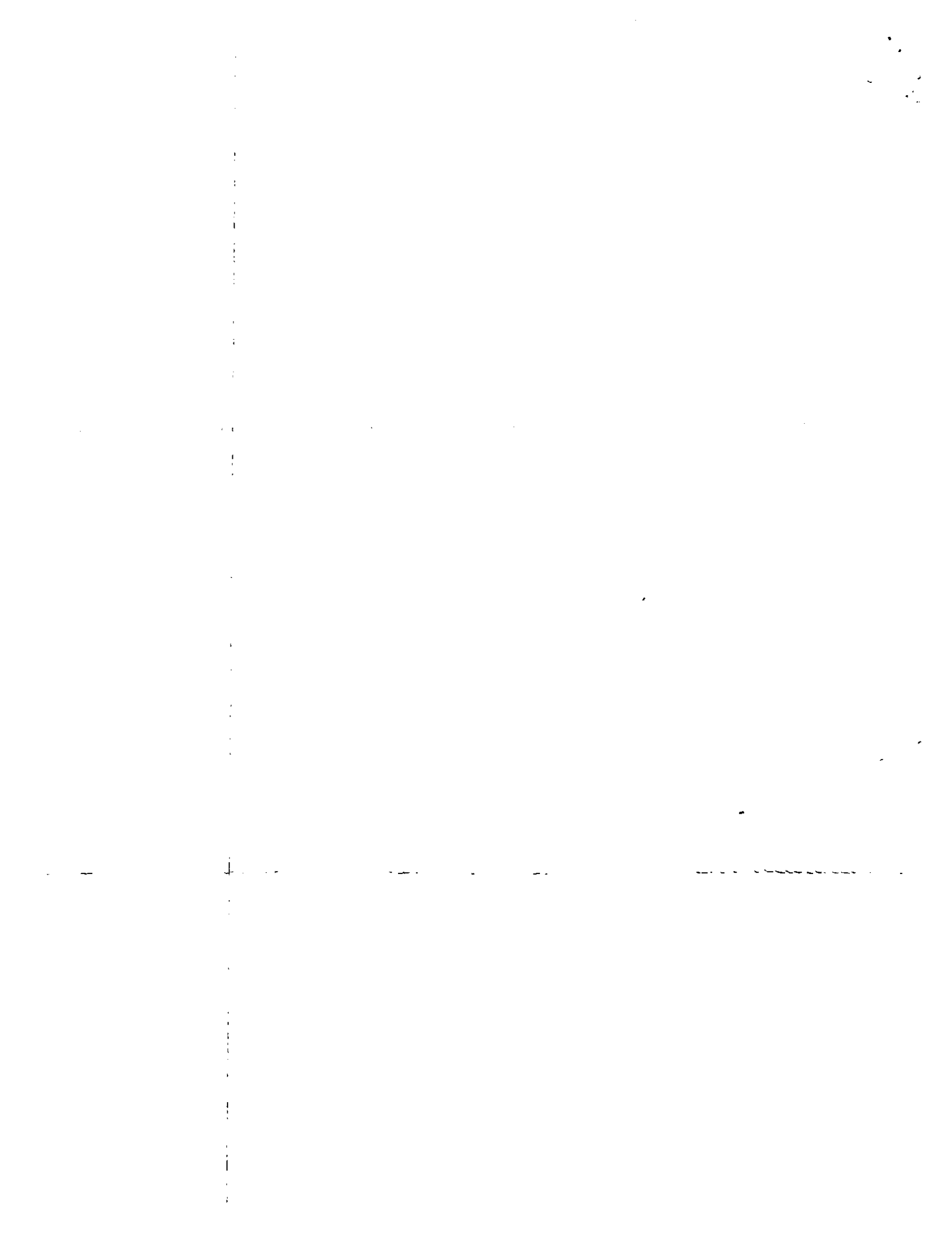
Zip Code

Date of Inspection

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E. Report Completeness Checklist

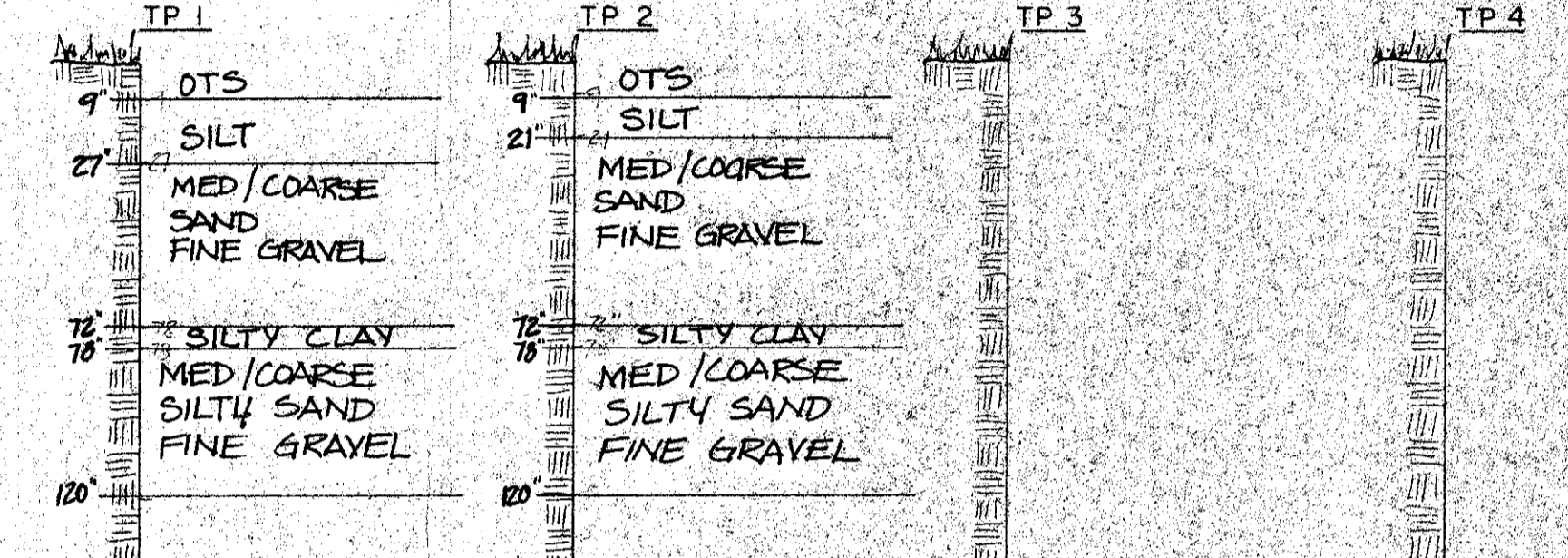
- Inspection Summary: A, B, C, D, or E checked
- Inspection Summary D (System Failure Criteria Applicable to All Systems) completed
- System Information – Estimated depth to high groundwater
- Sketch of Sewage Disposal System either drawn on page 15 or attached in separate file



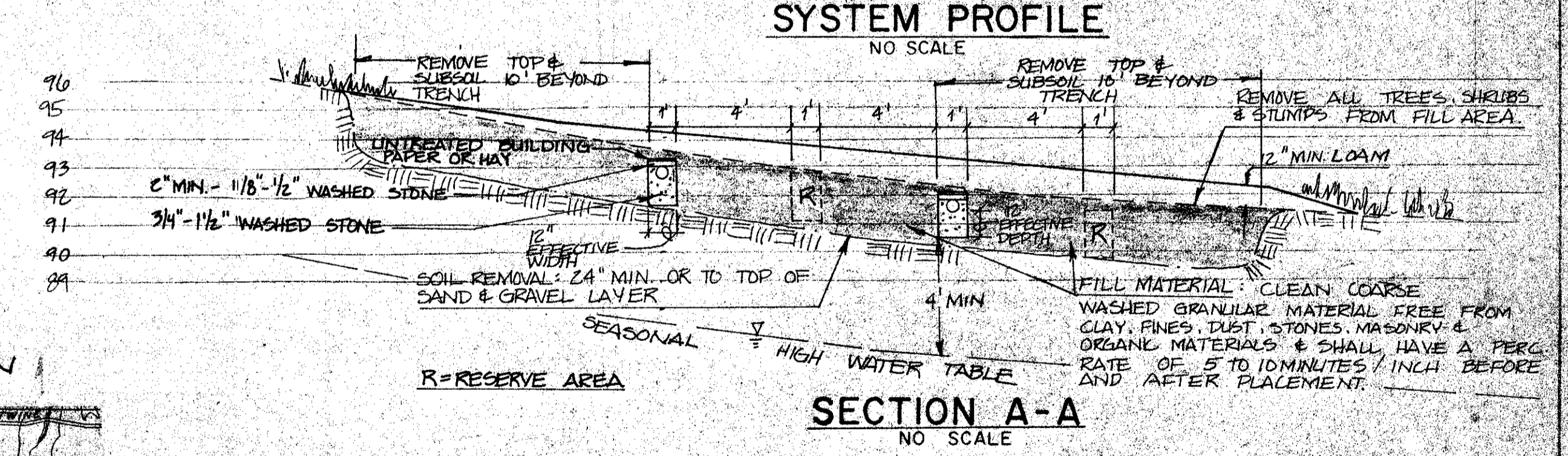
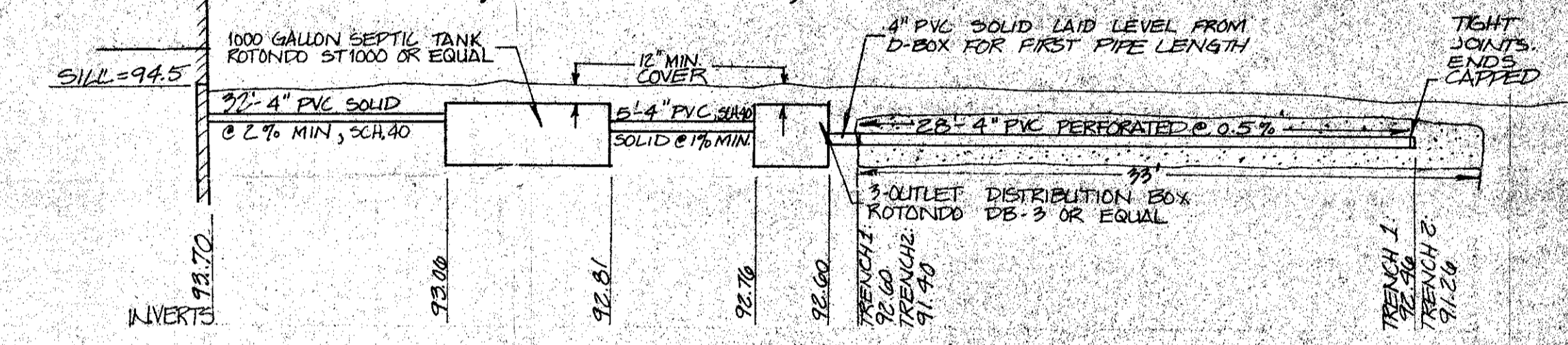
DESIGN CRITERIA

1. LOCATION OF STREAMS, SURFACE AND SUBSURFACE DRAINS AND WETLANDS: GREATER THAN 100', SUBSURFACE DRAINS GREATER THAN 25'.
2. WATER SUPPLY SOURCE: MUNICIPAL WATER
3. SYSTEM IS NOT DESIGNED FOR GARBAGE DISPOSAL.
4. HOUSE 2 BEDROOMS
5. DESIGN FLOW: 110 GPD X 3 BEDROOMS = 330 GPD
6. DESIGN CALCULATIONS: DESIGN PERC RATE = 2 MIN/INCH, SIDEWALL AREA = 25 SF/GAL
 $330 \text{ GPD} = 2.5 \text{ SF/GAL} \times (1' \text{ WIDE} \times L) \times 2 \text{ SIDES}$
 $L = 66 \text{ FT}$
 USE 2 TRENCHES AT 33 FT X 1 FT WIDE X 1 FT DEEP
7. SEPTIC TANK CAPACITY: 1000 GAL.
8. FOUNDATION TO BE DRAINED
9. SOIL TYPE:

TEST PITS	TP 1	TP 2	TP 3	TP 4
PIT DEPTH	120"	120"		
PERCOLATION RATE & DEPTH	2 min/inch @ 54"			
DEPTH OF SEASONAL HIGH WATER	12" oxides	78" oxides		
DEPTH OF OBSERVED GROUNDWATER	NONE	NONE		
DEPTH TO LEDGE	NONE	NONE		

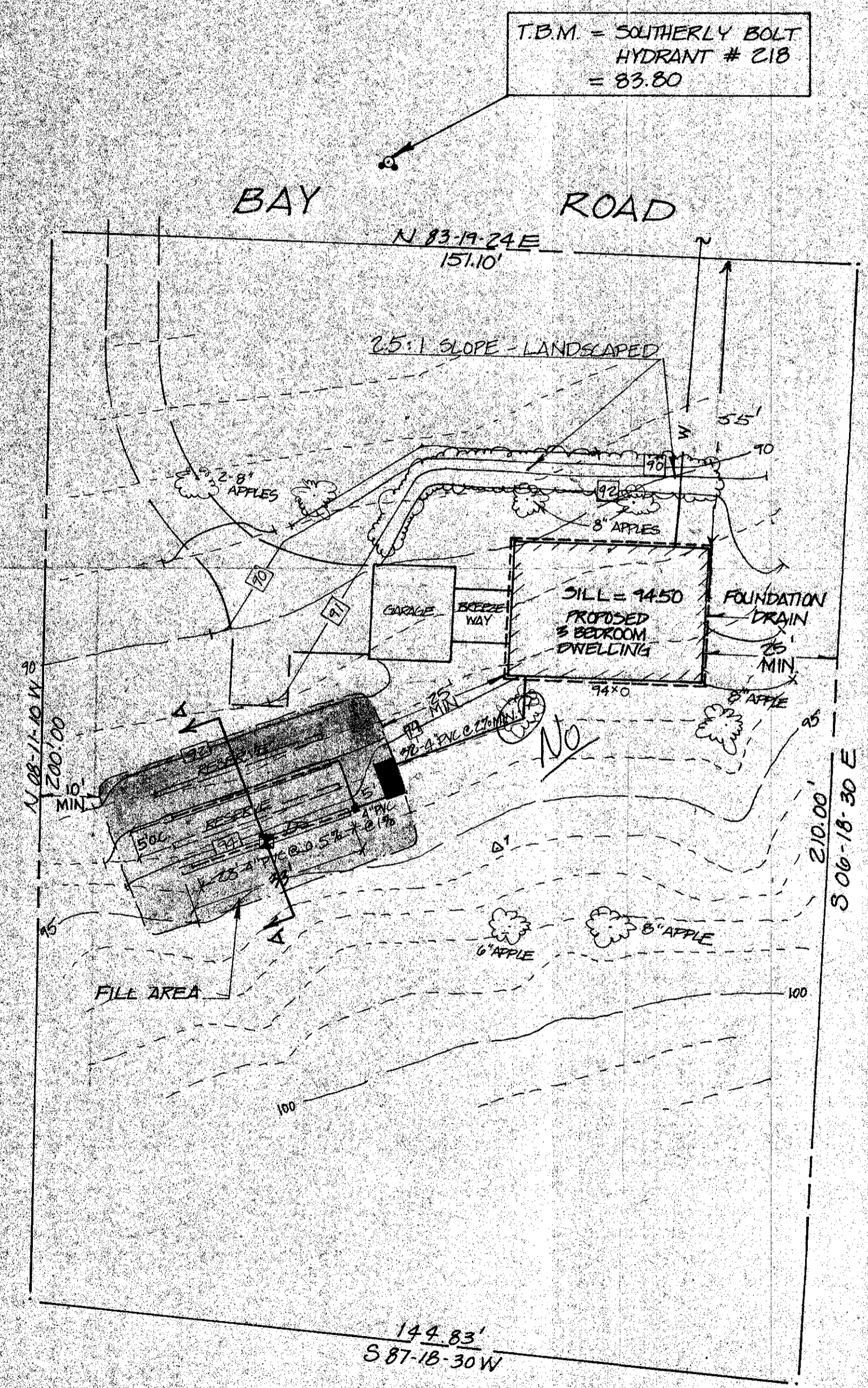


NOTE: SOIL OBSERVATIONS & PERCOLATION TESTS TAKEN 4-23-80 BY ALMER HUNTLEY, JR. & ASSOCIATES, INC.

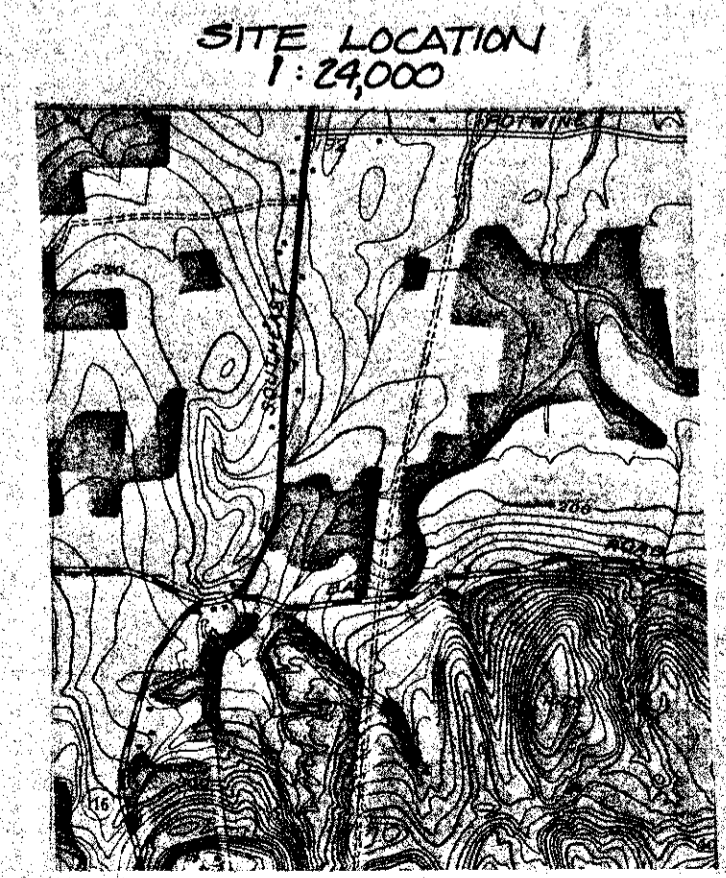


GENERAL NOTES

1. SYSTEM DESIGNED ACCORDING TO: TITLE V, MASSACHUSETTS DEGE, CHAPTER 30A. CONSTRUCTION TO CONFORM TO SAME.
2. ---(102)--- INDICATES EXISTING CONTOUR, ---(102)--- INDICATES PROPOSED CONTOUR.
3. C.T. MALE ASSOCIATES, INC. HAS FURNISHED THIS DESIGN & PLAN BUT HAS NOT BEEN RETAINED TO CONSTRUCT OR SUPERVISE CONSTRUCTION OF THE SYSTEM. THEREFORE, NO GUARANTEE OR WARRANTY, EXPRESS OR IMPLIED IS MADE TO THE ULTIMATE USER RELATIVE TO ANY SYSTEM INSTALLED PURSUANT TO THE PLAN. CONTRACTOR TO NOTIFY ENGINEER OF ANY SITE CONDITION DIFFERING FROM THOSE INDICATED OR OF FIELD CHANGES MADE.



SCALE: 1" = 20'



DATE	REVISIONS	APPROV
01/08/80	REVISED HOUSE LOCATION & GRADING	WWS

C.T. MALE ASSOCIATES, INC.
 Engineers, Surveyors and Planners
 Formerly
 Gordon E. Ainsworth & Associates, Inc.

SCALE	AS NOTED
DATE	JULY 28, 1980
PROJECT NO.	86-150
DRAWN	DW
CHECKED BY	WWS
APPROVED BY	WWS

PROJECT
PAUL RACKOWE
 BAY ROAD
 AMHERST, MASSACHUSETTS

SHEET TITLE
**SUBSURFACE
 SEWAGE
 DISPOSAL**

SHEET 1 OF 1

No. 86-41

#147

W.M. RACKOWE

FEE 90.00

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

CK by K. ALORICH 4/25/1986

Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct (X) or Repair () an Individual Sewage Disposal System at:

147 Bay Road (Lot #1) Location: Address PAUL W. RACKOWE James 34 CLARK ST. EASTHAMPTON or Lot No. Address WILLIAMS, AUG MA Address

Type of Building TRAC 3 Dwelling - No. of Bedrooms Expansion Attic () Garbage Grinder () Other - Type of Building No. of persons Showers (1) - Cafeteria () Other fixtures 1 TUB/SHOWER

Design Flow 110 gallons per person per day. Total daily flow 330 gallons. Septic Tank - Liquid capacity 1000 gallons Length Width Diameter Depth Disposal Trench - No. 2 Width 2 FT. Total Length 65 FT. Total leaching area 1.32 sq. ft. Seepage Pit No. Diameter Depth below inlet 1 Total leaching area sq. ft. Other Distribution box () Dosing tank () Percolation Test Results Performed by ALMER HUNTLEY JR. M.D.S.P.C. Date 4-23-86 Test Pit No. 1 2 minutes per inch Depth of Test Pit 120" Depth to ground water 6' 10" Test Pit No. 2 minutes per inch Depth of Test Pit Depth to ground water

Description of Soil 8" OTS; 18" SILT; 3'-9" MED TO COARSE SAND/FINE gravel; 6" silty clay; MEDIUM TO COARSE SILTY SAND WITH FINE gravel Nature of Repairs or Alterations - Answer when applicable

Agreement:

The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Sanitary Code - The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Signed Paul W. Rackowe Date NOV. 19, 1986 Application Approved By [Signature] Date NOV. 20, 1986 Application Disapproved for the following reasons:

Permit No. 86-41 Issued 11-20-86 Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

OF

Certificate of Compliance

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired () by Installer

at has been installed in accordance with the provisions of TITLE 5 of The State Sanitary Code as described in the application for Disposal Works Construction Permit No. dated

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE Inspector

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

No. 86-41

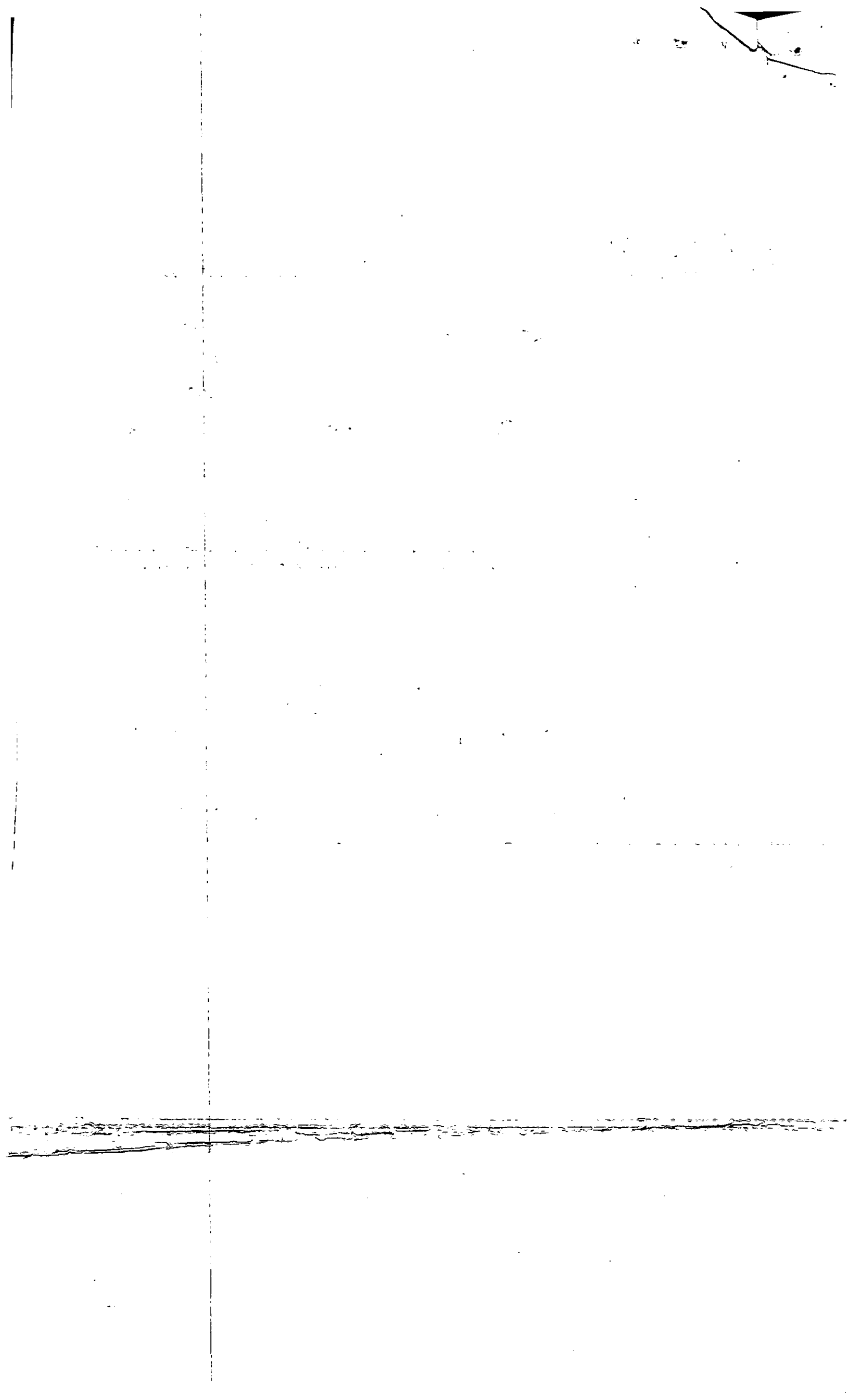
FEE 90

Disposal Works Construction Permit

Permission is hereby granted PAUL RACKOWE by to Construct (X) or Repair () an Individual Sewage Disposal System at No. Lot #1 (ATKINS) BAY ROAD 5 Street 4-25-86 as shown on the application for Disposal Works Construction Permit No. 86-41 Dated MAY 1986

DATE Nov 20, 1986 Board of Health

CHECK OR FILL IN WHERE APPLICABLE



BOARD OF HEALTH

TOWN OF AMHERST, MASSACHUSETTS

Lot #1 147 BAY RD

Important Information Regarding Your Private Sewage Disposal System

DISPLAY THIS DOCUMENT IN A PROMINENT PLACE

Owner PAUL W. RACKOWS Address 34 CLARK ST EASTAMPTON MA

Installer MISTAKA Inc Address 339 WESTAMPTON MA

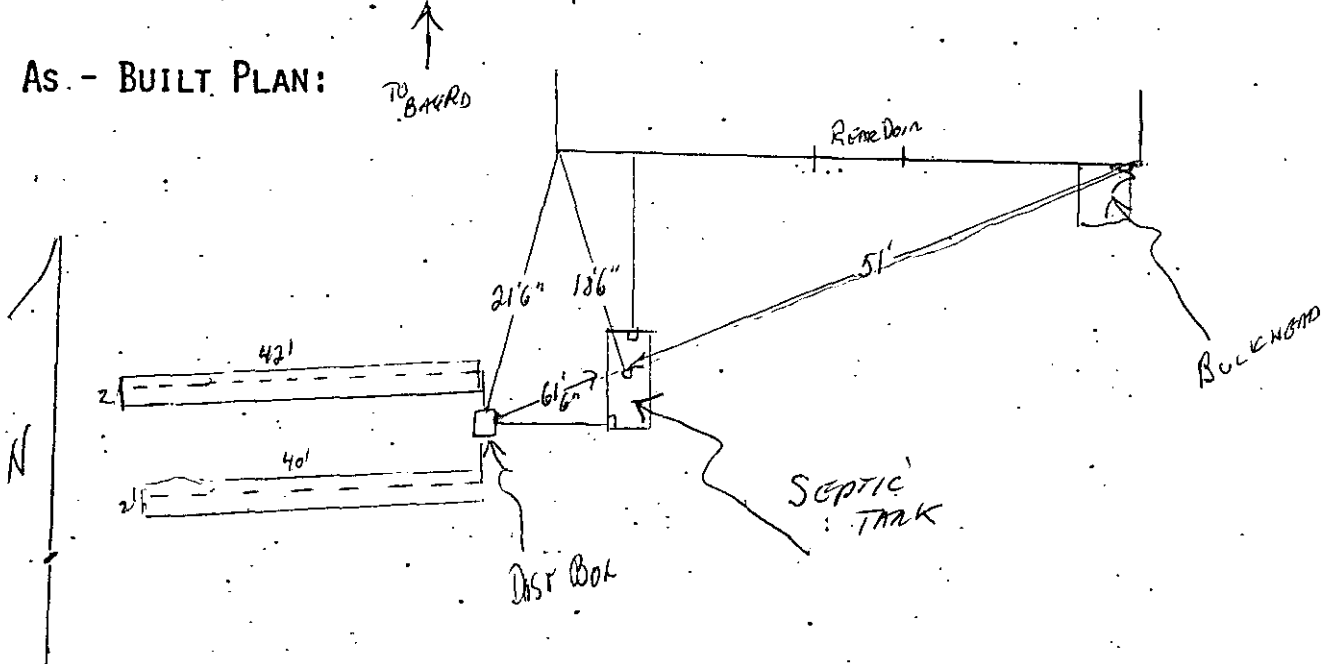
Date Installation Inspected and Approved 4/6/87

Description of System: Tank Capacity: 1500 160 sq SIDES

Leach Field (X) Bed () Seepage Pit () Square Feet: 160 sq BOTTOM

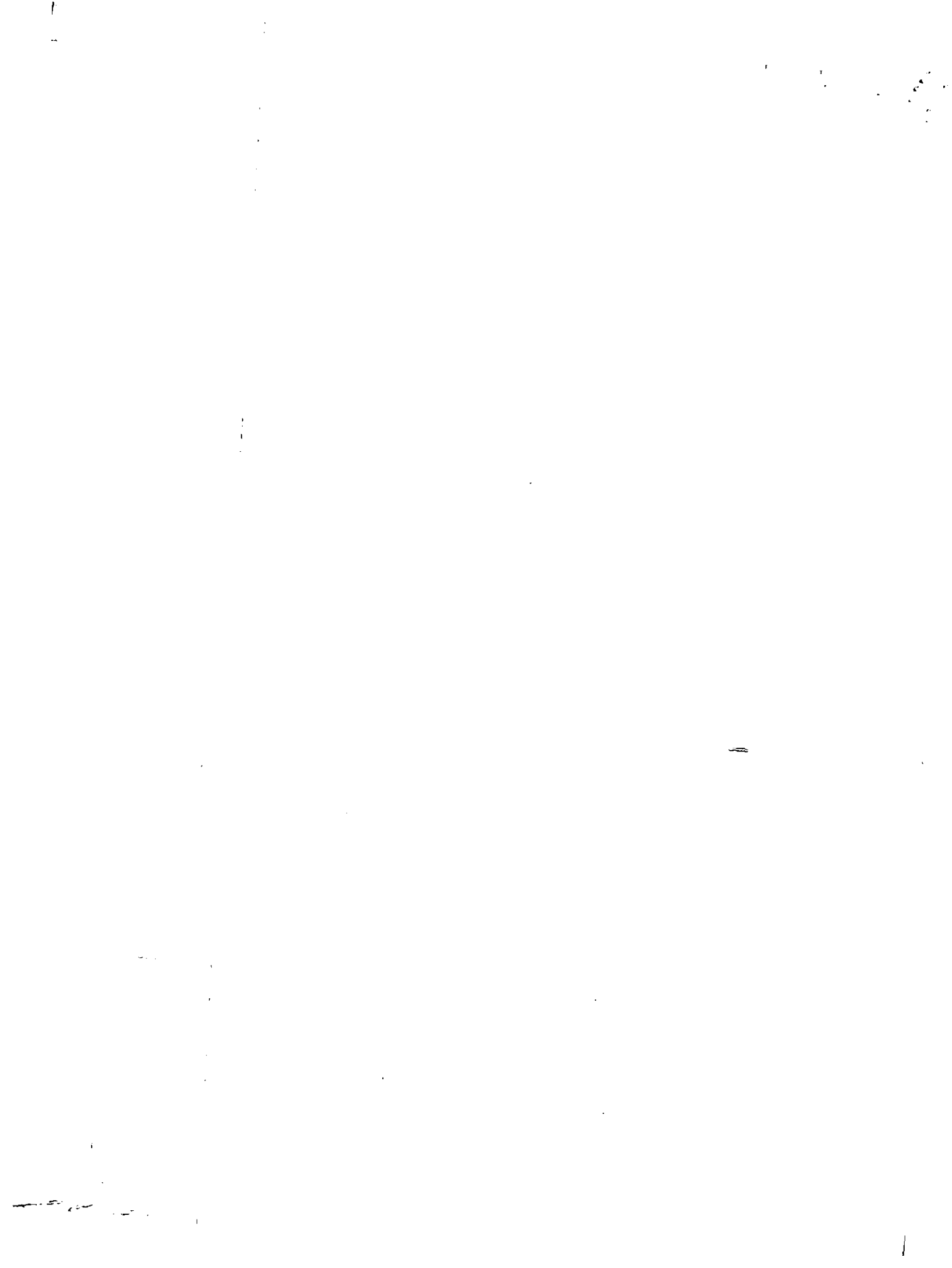
Garbage Grinder Yes () - No (X) No. Bedrooms: 3 No. People 6

AS - BUILT PLAN:



PROPER MAINTENANCE OF YOUR PRIVATE SEWAGE DISPOSAL SYSTEM

1. This system must be inspected periodically and the tank pumped out at an interval not to exceed 3 years. 1987 REGULAR
2. For your protection sanitary pumpers are licensed by the Amherst Board of Health.
3. Regular pumping is crucial to avoid early failure and costly repairs of the system.
4. DO NOT dispose into the system such items as rags, string, sanitary napkins, coffee grounds as they can cause it to clog and fail.
5. Further information can be obtained by contacting your Health Department at 253-7077.



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

PART A
CERTIFICATION (continued)

Property Address: 147 Bay Rd
Amherst
Owner: Rackone
Date of Inspection: 7/8/02

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

A. System Passes:

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

Comments:

See page one

B. System Conditionally Passes:

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

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

No The septic tank is metal and over 20 years old* or the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health.

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

ND explain:

No Observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System will pass inspection if (with approval of Board of Health):

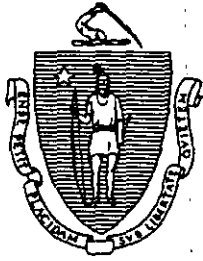
- broken pipe(s) are replaced
- obstruction is removed
- distribution box is leveled or replaced

ND explain:

No The system required pumping more than 4 times a year due to broken or obstructed pipe(s). The system will pass inspection if (with approval of the Board of Health):

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

ND explain:



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

TITLE 5
 OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
 SUBSURFACE SEWAGE DISPOSAL SYSTEM FORM
 PART A
 CERTIFICATION

Property Address: 147 Bay Rd.
Amherst, Mass.
 Owner's Name: Paul W. Rackowe
 Owner's Address: 147 Bay Rd
Amherst, MA 01002
 Date of Inspection: 7/8/02
 Name of Inspector: (please print) Robert Stover
 Company Name: Amherst Civil Engineering
 Mailing Address: P.O. Box 3312
Amherst, MA 01004-3312
 Telephone Number: (413) 25

(Handwritten initials: RLS)

CERTIFICATION STATEMENT

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

- Passes
- Conditionally Passes
- Needs Further Evaluation by the Local Approving Authority
- Fails

Inspector's Signature: Robert W. Stover Date: 7/8/02

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system is a shared system or has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Notes and Comments: System is 15 years old, in gravelly soil and has had relatively light use (2 persons). Distribution box has some cracks in sidewalls but is solidly in place and functional and not leaking.

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

I recommend pumping this tank every two years or once a year if there are more than

4 occupants in the house. Use liquid laundry detergents

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

SYSTEM INFORMATION (continued)

Property Address: 147 Bay Rd.

Owner: Amherst Rackowe

Date of Inspection: 7/8/02

SOIL ABSORPTION SYSTEM (SAS): (locate on site plan, excavation not required)

If SAS not located explain why:

Type

- leaching pits, number: _____
- leaching chambers, number: _____
- leaching galleries, number: _____
- leaching trenches, number, length: 2
- leaching fields, number, dimensions: _____
- overflow cesspool, number: _____
- innovative/alternative system Type/name of technology: _____

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

No evidence of hydraulic failure, no ponding observed - no damp soil - vegetation normal.

CESSPOOLS: N/A (cesspool must be pumped as part of inspection)(locate on site plan)

- Number and configuration: _____
- Depth – top of liquid to inlet invert: _____
- Depth of solids layer: _____
- Depth of scum layer: _____
- Dimensions of cesspool: _____
- Materials of construction: _____
- Indication of groundwater inflow (yes or no): _____

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

PRIVY: N/A (locate on site plan)

- Materials of construction: _____
- Dimensions: _____
- Depth of solids: _____

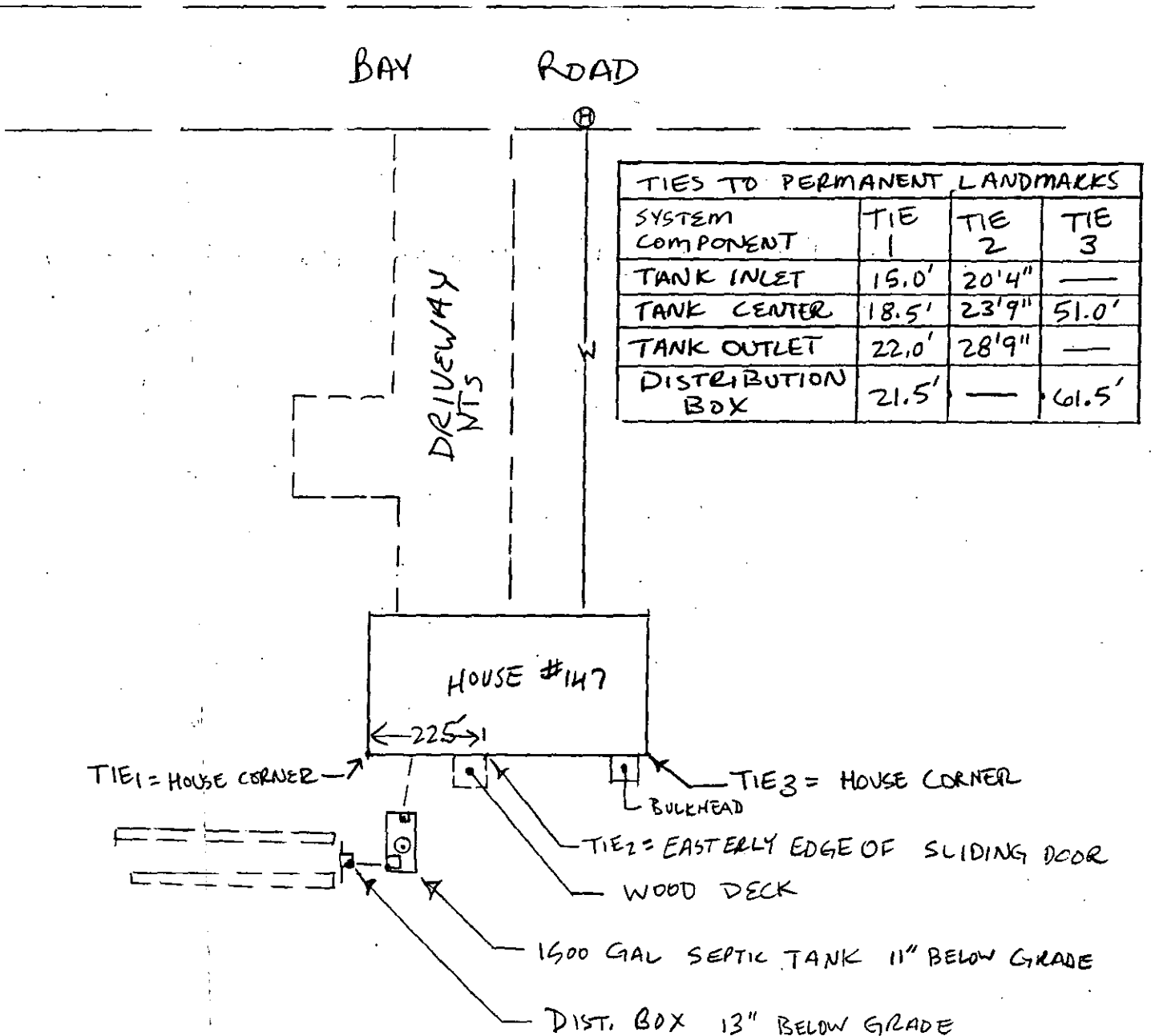
Comments (note condition of soil, signs of hydraulic failure, level of ponding, condition of vegetation, etc.):

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

Property Address: 147 Bay Rd.
Amherst
 Owner: Rackowe
 Date of Inspection: 7/8/02

SKETCH OF SEWAGE DISPOSAL SYSTEM

Provide a sketch of the sewage disposal system including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building.



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

Property Address: 147 Bay Rd.
Amherst
Owner: Lackawee
Date of Inspection: 7/8/02

BUILDING SEWER (locate on site plan) 34" below top found. to invert 7'4" from
inside R rear
Depth below grade: 17" corner of gar.
Materials of construction: cast iron 40 PVC other (explain): 4" Dia
Distance from private water supply well or suction line: _____
Comments (on condition of joints, venting, evidence of leakage, etc.):
everything appears to be in good condition + no evidence of leakage
observed

SEPTIC TANK: (locate on site plan) 11" below grade
Depth below grade: 11"
Material of construction: concrete metal fiberglass polyethylene
other(explain) _____

If tank is metal list age: N/A Is age confirmed by a Certificate of Compliance (yes or no): _____ (attach a copy of certificate)

Dimensions: 10.5' x 5.5' x 4.0' below outlet invert
Sludge depth: 10"
Distance from top of sludge to bottom of outlet tee or baffle: 24"
Scum thickness: 3"
Distance from top of scum to top of outlet tee or baffle: 5"
Distance from bottom of scum to bottom of outlet tee or baffle: 11"±

How were dimensions determined: measured and typical
Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):
Inlet baffle is enclosed cast-to-walls concrete in good condition
Outlet baffle is enclosed cast-to-walls concrete in functional condition
The structural integrity of the tank is good - no signs of leakage
observed - liquid level was at the invert of the outlet.

GREASE TRAP: not apply (locate on site plan)
Depth below grade: _____
Material of construction: concrete metal fiberglass polyethylene other
(explain): _____

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

Date of last pumping: _____
Comments (on pumping recommendations, inlet and outlet tee or baffle condition, structural integrity, liquid levels as related to outlet invert, evidence of leakage, etc.):

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

Property Address: 147 Bay Rd.
Amherst
Owner: Rackowe
Date of Inspection: 7/8/02

TIGHT or HOLDING TANK: not apply (tank must be pumped at time of inspection)(locate on site plan)

Depth below grade: not apply
Material of construction: not apply concrete not apply metal not apply fiberglass not apply polyethylene not apply other(explain):

Dimensions: _____
Capacity: _____ gallons
Design Flow: _____ gallons/day
Alarm present (yes or no): _____
Alarm level: _____ Alarm in working order (yes or no): _____
Date of last pumping: _____
Comments (condition of alarm and float switches, etc.):

DISTRIBUTION BOX: (if present must be opened)(locate on site plan) 13" below grade

Depth of liquid level above outlet invert: 0"
Comments (note if box is level and distribution to outlets equal, any evidence of solids carryover, any evidence of leakage into or out of box, etc.):
Box is reasonably level and distribution is reasonably equal - very little carryover of solids. There are several cracks in box sidewalls and some corrosion of inside walls above liquid level but there was no evidence of leakage and the box is functional.

PUMP CHAMBER: not apply (locate on site plan)
Pumps in working order (yes or no): not apply
Alarms in working order (yes or no): _____
Comments (note condition of pump chamber, condition of pumps and appurtenances, etc.):

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

Property Address: 147 Bay Rd
Amherst
Owner: Rackow
Date of Inspection: 7/8/02

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

- Yes No Pumping information was provided by the owner occupant, or Board of Health
- Were any of the system components pumped out in the previous two weeks ?
- Has the system received normal flows in the previous two week period ?
- Have large volumes of water been introduced to the system recently or as part of this inspection ?
- Were as built plans of the system obtained and examined? (If they were not available note as N/A)
- Was the facility or dwelling inspected for signs of sewage back up ?
- Was the site inspected for signs of break out ?
- Were all system components, excluding the SAS, located on site ?
- Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum ?
- Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems ?

The size and location of the Soil Absorption System (SAS) on the site has been determined based on:

- Yes no Existing information. For example, a plan at the Board of Health. *as-built sketch - see attached*
- Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(3)(b)]

d. box located and uncovered.

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

Property Address: 147 Bay Rd
Amherst, Mass.
Owner: Rackowe
Date of Inspection: 7/8/02

FLOW CONDITIONS

RESIDENTIAL

Number of bedrooms (design): 3 Number of bedrooms (actual): 3
DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 330
Number of current residents: 1
Does residence have a garbage grinder (yes or no): no
Is laundry on a separate sewage system (yes or no): no [if yes separate inspection required]
Laundry system inspected (yes or no): N/A
Seasonal use: (yes or no): no
Water meter readings, if available (last 2 years usage (gpd)): town water: 104.5 gpd
Sump pump (yes or no): no
Last date of occupancy: occupied at time of insp.

COMMERCIAL/INDUSTRIAL

not apply
Type of establishment: _____
Design flow (based on 310 CMR 15.203): _____ gpd
Basis of design flow (seats/persons/sqft, etc.): _____
Grease trap present (yes or no): _____
Industrial waste holding tank present (yes or no): _____
Non-sanitary waste discharged to the Title 5 system (yes or no): _____
Water meter readings, if available: _____
Last date of occupancy/use: _____

OTHER (describe): _____

GENERAL INFORMATION

Pumping Records

Source of information: owner reported that tank was last pumped approx. 3 yrs. ago + 3-4 years before that.
Was system pumped as part of the inspection (yes or no): yes
If yes, volume pumped: 1500 gallons – How was quantity pumped determined? tank dimensions
Reason for pumping: inspection & routine maintenance + pump shows

1500 gal. tank

TYPE OF SYSTEM:

- Septic tank, distribution box, soil absorption system
- Single cesspool
- Overflow cesspool
- Privy
- Shared system (yes or no) (if yes, attach previous inspection records, if any)
- Innovative/Alternative technology. Attach a copy of the current operation and maintenance contract (to be obtained from system owner)
- Tight tank Attach a copy of the DEP approval

Other (describe): _____

Approximate age of all components, date installed (if known) and source of information:

15 years old by report of owner

Were sewage odors detected when arriving at the site (yes or no): no

OFFICIAL INSPECTION FORM - NOT FOR VOLUNTARY ASSESSMENTS
SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address: 147 Bay Rd
Amherst
Owner: Rackow
Date of Inspection: 7/9/02

C. Further Evaluation is Required by the Board of Health:

no Conditions exist which require further evaluation by the Board of Health in order to determine if the system is failing to protect public health, safety or the environment.

1. System will pass unless Board of Health determines in accordance with 310 CMR 15.303(1)(b) that the system is not functioning in a manner which will protect public health, safety and the environment:

- not apply
- Cesspool or privy is within 50 feet of a surface water
- Cesspool or privy is within 50 feet of a bordering vegetated wetland or a salt marsh

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

no The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet of a surface water supply or tributary to a surface water supply.

no The system has a septic tank and SAS and the SAS is within a Zone 1 of a public water supply.

no The system has a septic tank and SAS and the SAS is within 50 feet of a private water supply well.

no The system has a septic tank and SAS and the SAS is less than 100 feet but 50 feet or more from a private water supply well**. Method used to determine distance

area is served by town water supply
**This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.

3. Other: [Signature]

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

Property Address: 147 Bay Rd
Amherst, MA
Owner: Rackowe
Date of Inspection: 7/8/02

D. System Failure Criteria applicable to all systems:
You must indicate "yes" or "no" to each of the following for all inspections:

- | Yes | No | |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool |
| <input type="checkbox"/> | <u>N/A</u> | Liquid depth in cesspool is less than 6" below invert or available volume is less than 1/2 day flow |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Required pumping more than 4 times in the last year <u>NOT</u> due to clogged or obstructed pipe(s). Number of times pumped _____ |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of the SAS, cesspool or privy is below high ground water elevation. |
| <input type="checkbox"/> | <u>N/A</u> | Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply. |
| <input type="checkbox"/> | <u>N/A</u> | Any portion of a cesspool or privy is within a Zone 1 of a public well. |
| <input type="checkbox"/> | <u>N/A</u> | Any portion of a cesspool or privy is within 50 feet of a private water supply well. |
| <input type="checkbox"/> | <u>N/A</u> | Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for coliform bacteria and volatile organic compounds indicates that the well is free from pollution from that facility and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis must be attached to this form.] |

No (Yes/No) The system fails. I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.

E. Large Systems: not apply
To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

You must indicate either "yes" or "no" to each of the following:
(The following criteria apply to large systems in addition to the criteria above)

- | yes | no | |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | the system is within 400 feet of a surface drinking water supply |
| <input type="checkbox"/> | <input type="checkbox"/> | the system is within 200 feet of a tributary to a surface drinking water supply |
| <input type="checkbox"/> | <input type="checkbox"/> | the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area – IWPA) or a mapped Zone II of a public water supply well |

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

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

Property Address: 147 Bay Rd,
Amburst
Owner: Rackow
Date of Inspection: 7/8/02

- SITE EXAM**
 Slope
 Surface water none
 Check cellar
 Shallow wells

Estimated depth to ground water 72 ~~feet~~ inches

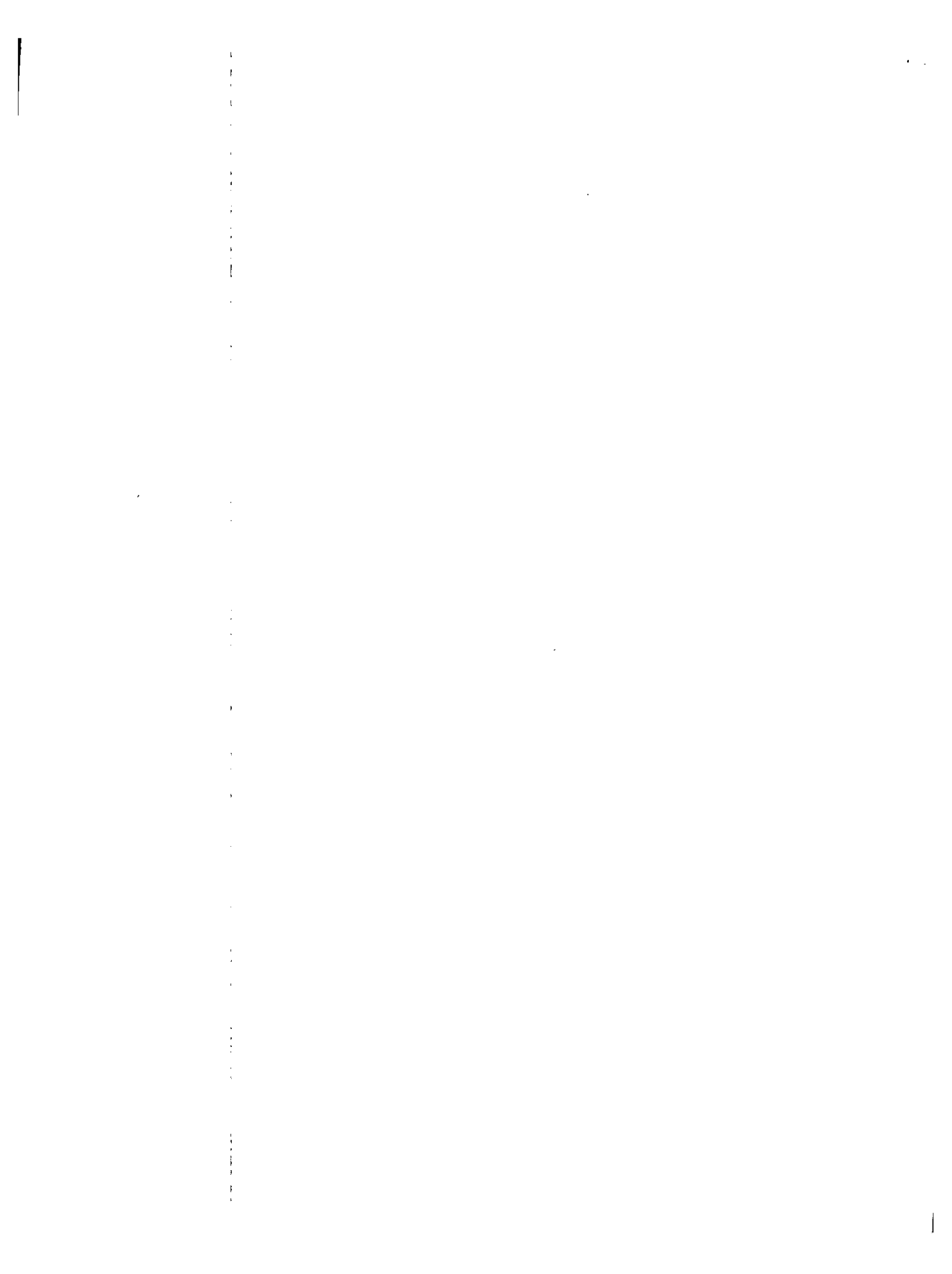
Please indicate (check) all methods used to determine the high ground water elevation:

- Obtained from system design plans on record - If checked, date of design plan reviewed: 4/23/86
 Observed site (abutting property/observation hole within 150 feet of SAS)
 Checked with local Board of Health-explain: for plans + soil logs
 Checked with local excavators, installers- (attach documentation)
 Accessed USGS database-explain: _____

You must describe how you established the high ground water elevation:

high groundwater elevations taken from logs of soil
test pits done by Almer Hunter, Jr. & Associates, Inc.
dated 4/23/86 (see attached). Oxides were reported at
72" + 75" - well below bottom of existing S.A.S.

NRCS soil survey shows this site has WRB (windsor)
soil w/ a typical high water table deeper than 60'



#147

Wm RACKOWE

No. 86-41

CK by FEB 90.00
K. ALORICH
4/25/1986

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town OF Amherst

Application for Disposal Works Construction Permit

Application is hereby made for a Permit to Construct (X) or Repair () an Individual Sewage Disposal System at:

147 Bay Road (Lot #1)

Location - Address PAUL W. RACKOWE James 34 CLARK ST. EASTHAMPTON

Owner TRAC SECORANG M. STAN Address WILLIAMSBURG MA

Type of Building Dwelling - No. of Bedrooms 3 Expansion Attic () Garbage Grinder ()

Other - Type of Building No. of persons Showers (1) - Cafeteria ()

Other fixtures 1 TUB/SHOWER

Design Flow 110 gallons per person per day. Total daily flow 330 gallons.

Septic Tank - Liquid capacity 1000 gallons Length Width Diameter Depth

Disposal Trench - No. 2 Width 2 FT. Total Length 66 FT. Total leaching area 132 sq. ft. Bottom

Seepage Pit No. Diameter Depth below inlet 1 Total leaching area sq. ft.

Other Distribution box () Dosing tank ()

Percolation Test Results Performed by ALMER HUNTLEY JR. Assoc. Date 4-23-86

Test Pit No. 1 2 minutes per inch Depth of Test Pit 120" Depth to ground water 6' 0"

Test Pit No. 2 minutes per inch Depth of Test Pit Depth to ground water

Description of Soil 8" OTS; 18" SILT; 3'-9" MED TO COARSE SAND/FINE gravel; 6" silty clay; MEDIUM TO COARSE SILTY SAND WITH FINE gravel

Nature of Repairs or Alterations - Answer when applicable

Agreement:

The undersigned agrees to install the aforescribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 of the State Sanitary Code - The undersigned further agrees not to place the system in operation until a Certificate of Compliance has been issued by the board of health.

Signed Paul W. Rackowe

NOV. 19, 1986

Application Approved By [Signature]

NOV. 20, 1986

Application Disapproved for the following reasons:

Permit No. 86-41

Issued 11-20-86 Date

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

OF

Certificate of Compliance

THIS IS TO CERTIFY, That the Individual Sewage Disposal System constructed () or Repaired () by [Installer] at [Address]

has been installed in accordance with the provisions of TITLE 5 of The State Sanitary Code as described in the application for Disposal Works Construction Permit No. [] dated []

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORY.

DATE [] Inspector []

CHECK OR FILL IN WHERE APPLICABLE

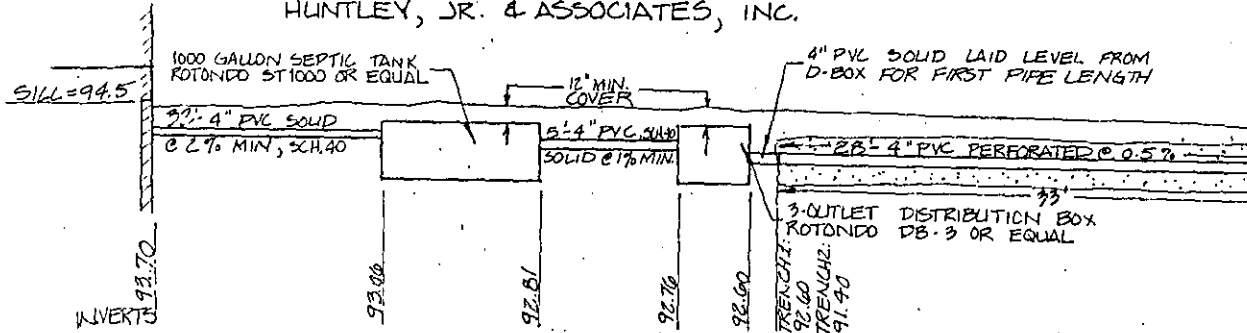
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MUNICIPAL WATER

3. SYSTEM IS NOT DESIGNED FOR GARBAGE DISPOSAL.
4. HOUSE 2 BEDROOMS
5. DESIGN FLOW: 110 GPD X 3 BEDROOMS = 330 GPD
6. DESIGN CALCULATIONS: DESIGN PERC RATE = 2 MIN./INCH, SIDEWALL AREA = 2.5 SF
 $330 \text{ GPD} = 2.5 \text{ SF/GAL} \times (1' \text{ WIDE} \times L) \times 2 \text{ SIDES}$
 $L = 66 \text{ FT}$
 USE 2 TRENCHES AT 33 FT X 1 FT WIDE X 1 FT DEEP
7. SEPTIC TANK CAPACITY: 1000 GAL.
8. FOUNDATION TO BE DRAINED
9. SOIL TYPE:

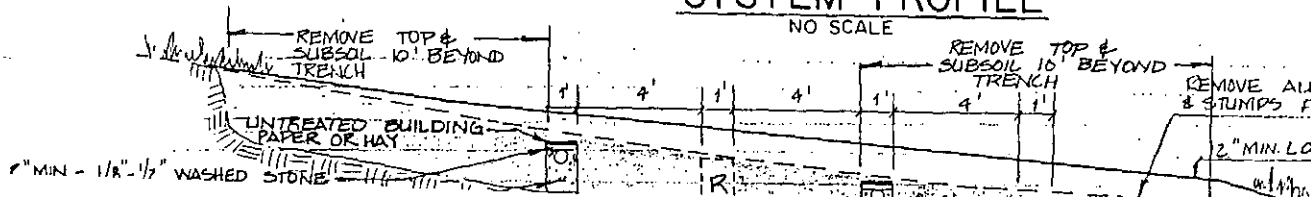
TEST PITS	TP 1	TP 2	TP 3
PIT DEPTH	120"	120"	
PERCOLATION RATE & DEPTH	2 min/inch @ 54"		
DEPTH OF SEASONAL HIGH WATER	72" oxides	70" oxides	
DEPTH OF OBSERVED GROUNDWATER	NONE	NONE	
DEPTH TO LEDGE	NONE	NONE	

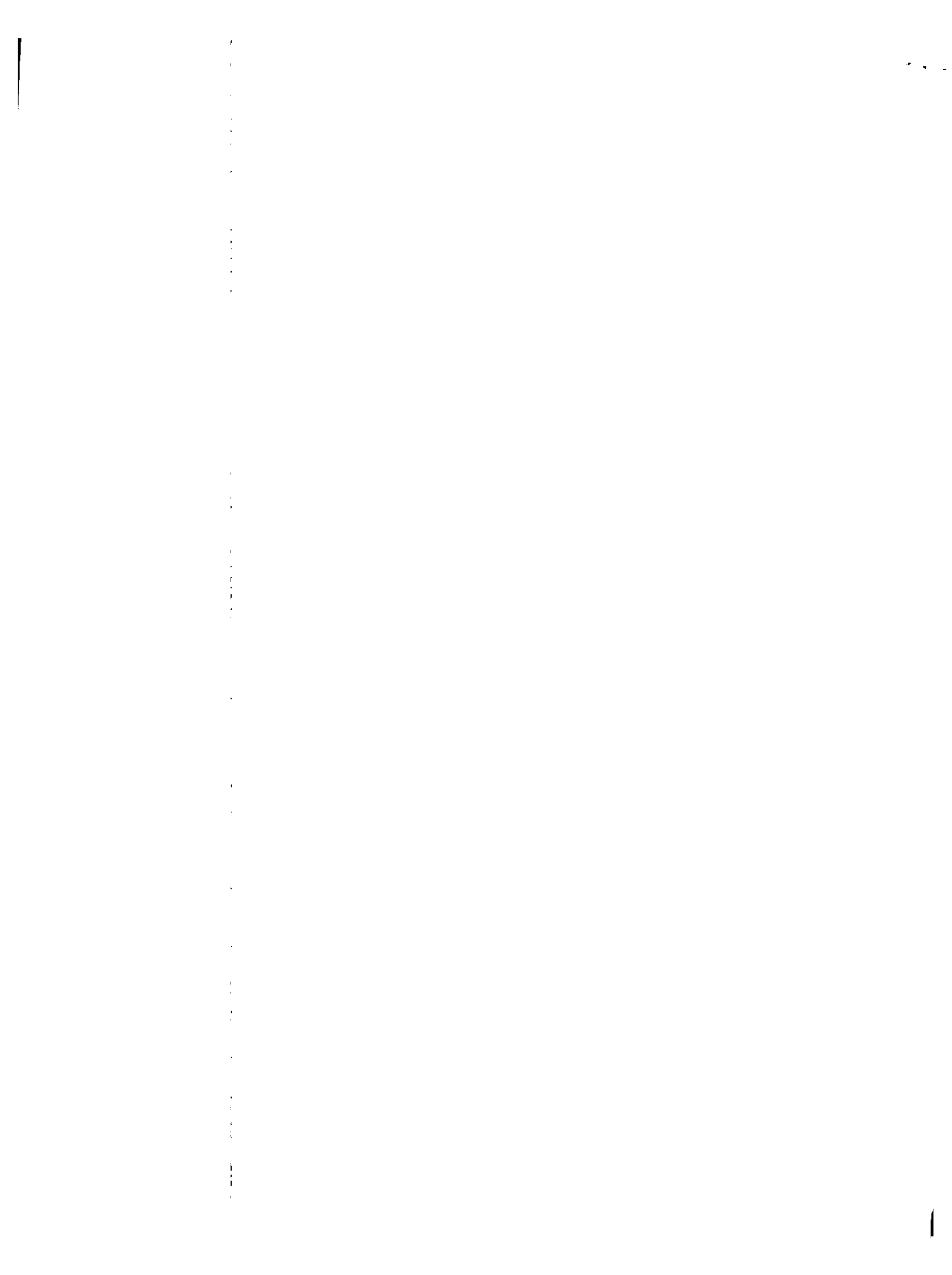
NOTE: SOIL OBSERVATIONS & PERCOLATION TESTS TAKEN 4-23-86 BY HUNTLEY, JR. & ASSOCIATES, INC.



SYSTEM PROFILE

NO SCALE





BOARD OF HEALTH

TOWN OF AMHERST, MASSACHUSETTS

Lot #1 147 BAY RD

Important Information Regarding Your Private Sewage Disposal System

DISPLAY THIS DOCUMENT IN A PROMINENT PLACE

Owner PAUL W. RACKOWS Address 34 CLINTON ST EASTHAMPTON MA

Installer MISTAKA Inc Address 339 WESTHAMPTON MA

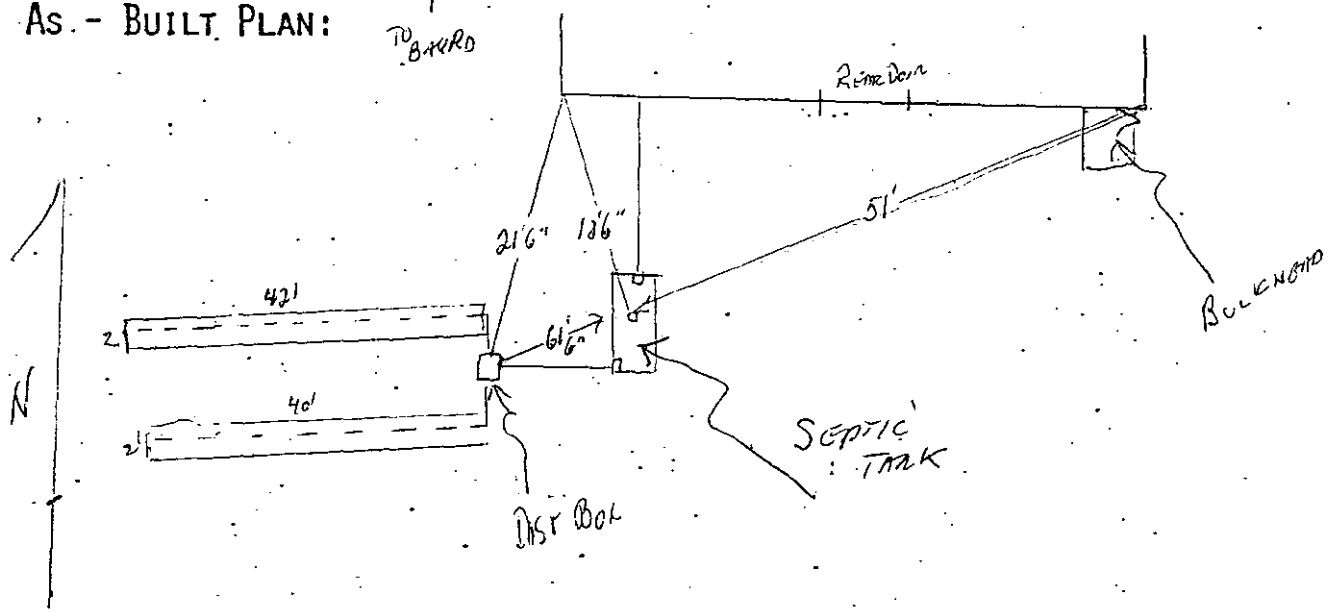
Date Installation Inspected and Approved 4/6/87

Description of System: Tank Capacity: 1500 160 sq Sides

Leach Field (X) Bed () Seepage Pit () Square Feet: 160 Bottom

Garbage Grinder Yes () - No (X) No. Bedrooms: 3 No. People 6

AS-BUILT PLAN:



PROPER MAINTENANCE OF YOUR PRIVATE SEWAGE DISPOSAL SYSTEM

- 1. This system must be inspected periodically and the tank pumped out at an interval not to exceed 3 years. 1987 REGULATION
2. For your protection sanitary pumpers are licensed by the Amherst Board of Health.
3. Regular pumping is crucial to avoid early failure and costly repairs of the system.
4. DO NOT dispose into the system such items as rags, string, sanitary napkins, coffee grounds as they can cause it to clog and fail.
5. Further information can be obtained by contacting your Health Department at 253-7077.



BAY

ROAD

N 83-19-24 E
151.10'

2.5:1 SLOPE - LANDSCAPED

N

5'5"

90

2-8" APPLES

8" APPLES

GARAGE

BREEZE WAY

SILL = 94.50
PROPOSED
3 BEDROOM
DWELLING

FOUNDATION
DRAIN

25'
MIN.

94'x0

8" APPLE

N 08-11-10 W
200'00"

10'
MIN.

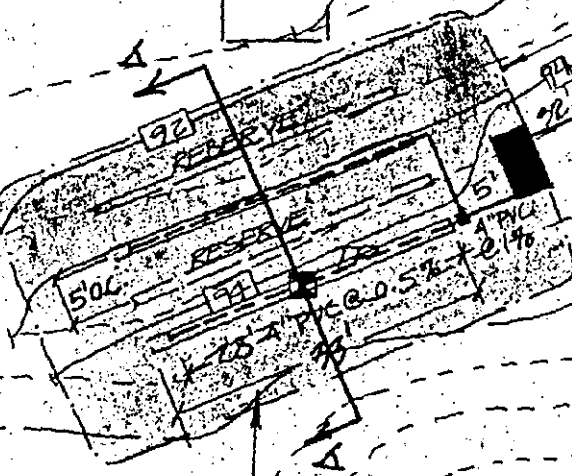
25'
MIN.

2-4" PVC @ 2% MIN

NO

95

S 06-18-30 E
210'00"



FILL AREA

6" APPLE

8" APPLE

100

100

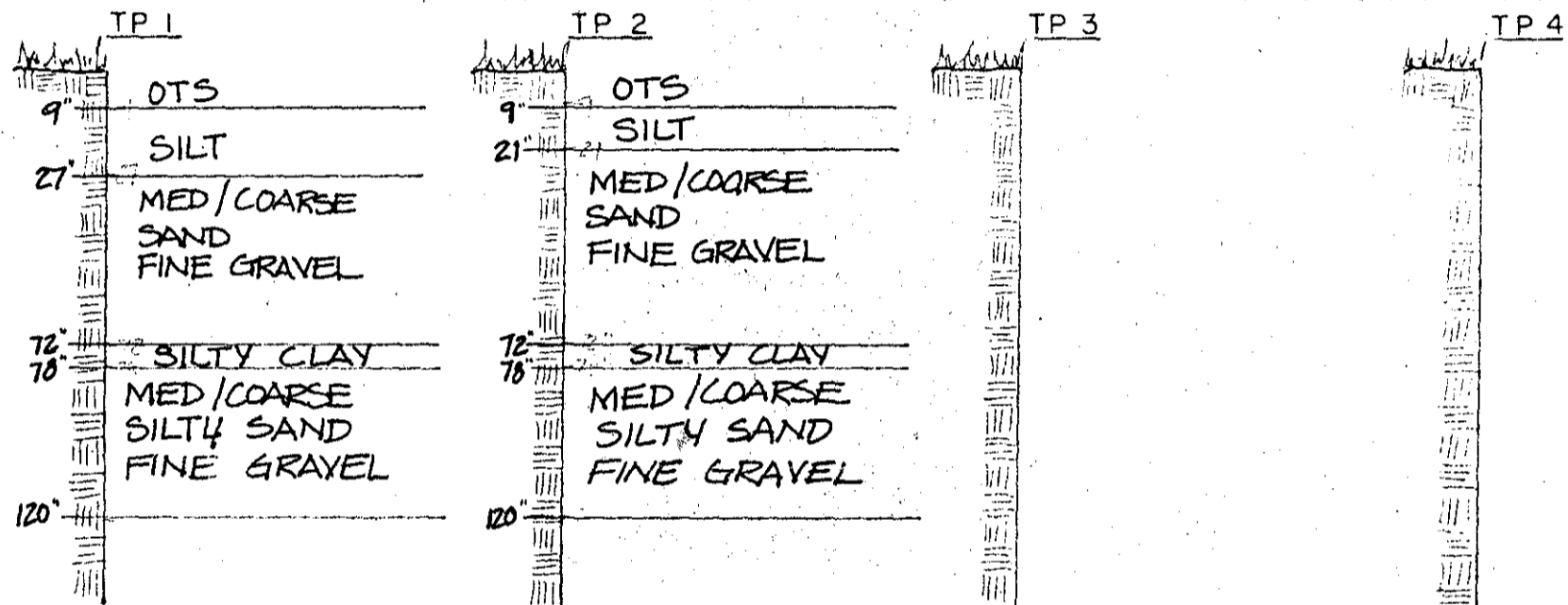
144.83'



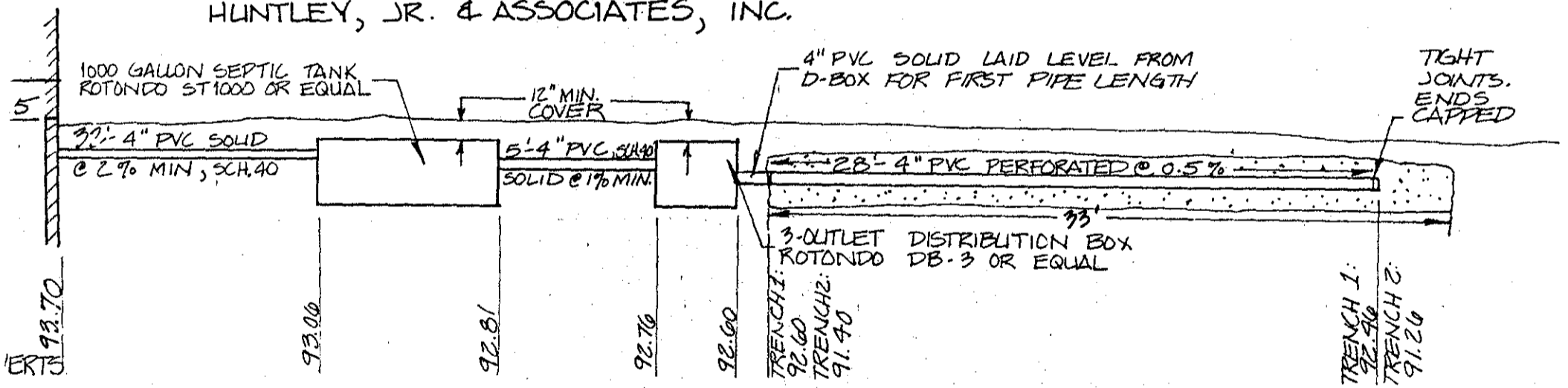
DESIGN CRITERIA

1. LOCATION OF STREAMS, SURFACE AND SUBSURFACE DRAINS AND WETLANDS: GREATER THAN 100', SUBSURFACE DRAINS GREATER THAN 25'.
2. WATER SUPPLY SOURCE: MUNICIPAL WATER
3. SYSTEM IS NOT DESIGNED FOR GARBAGE DISPOSAL.
4. HOUSE 3 BEDROOMS
5. DESIGN FLOW: 110 GPD X 3 BEDROOMS = 330 GPD
6. DESIGN CALCULATIONS: DESIGN PERC RATE = 2 MIN./INCH, SIDEWALL AREA = 2.5 SF/GAL.
 $330 \text{ GPD} = 2.5 \text{ SF/GAL} \times (1' \text{ WIDE} \times L) \times 2 \text{ SIDES}$
 $L = 66 \text{ FT}$
 USE 2 TRENCHES AT 33 FT X 1 FT WIDE X 1 FT DEEP
7. SEPTIC TANK CAPACITY: 1000 GAL.
8. FOUNDATION TO BE DRAINED
9. SOIL TYPE:

10. TEST PITS	TP 1	TP 2	TP 3	TP 4
PIT DEPTH	120"	120"		
PERCOLATION RATE & DEPTH	2 min/inch @ 54"			
DEPTH OF SEASONAL HIGH WATER	72" oxides	78" oxides		
DEPTH OF OBSERVED GROUNDWATER	NONE	NONE		
DEPTH TO LEDGE	NONE	NONE		

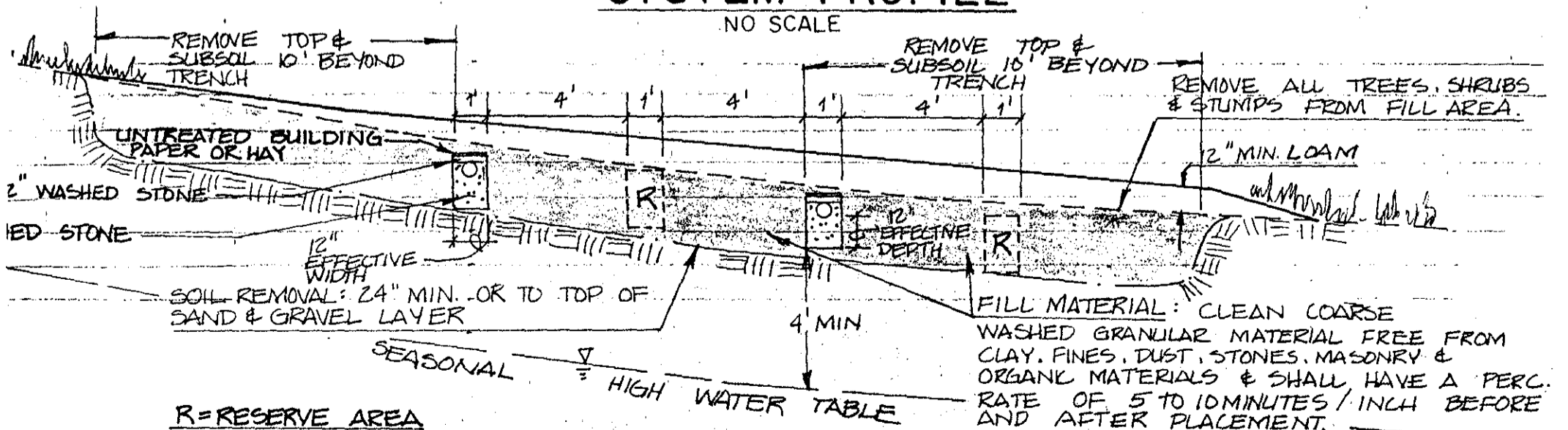


NOTE: SOIL OBSERVATIONS & PERCOLATION TESTS TAKEN 4-23-86 BY ALMER HUNTLEY, JR. & ASSOCIATES, INC.



SYSTEM PROFILE

NO SCALE



SECTION A-A

NO SCALE

GENERAL NOTES

1. SYSTEM DESIGNED ACCORDING TO: TITLE V, MASSACHUSETTS DEQE, CHAPTER 30A.

2. WATER SUPPLY SOURCE: MUNICIPAL WATER

3. SYSTEM IS NOT DESIGNED FOR GARBAGE DISPOSAL.

4. HOUSE 3 BEDROOMS

5. DESIGN FLOW: 110 GPD X 3 BEDROOMS = 330 GPD

6. DESIGN CALCULATIONS: DESIGN PERC RATE = 2 MIN./INCH, SIDEWALL AREA = 2.5 SF
 $330 \text{ GPD} = 2.5 \text{ SF/GAL} \times (1' \text{ WIDE} \times L) \times 2 \text{ SIDES}$

$L = 66 \text{ FT}$

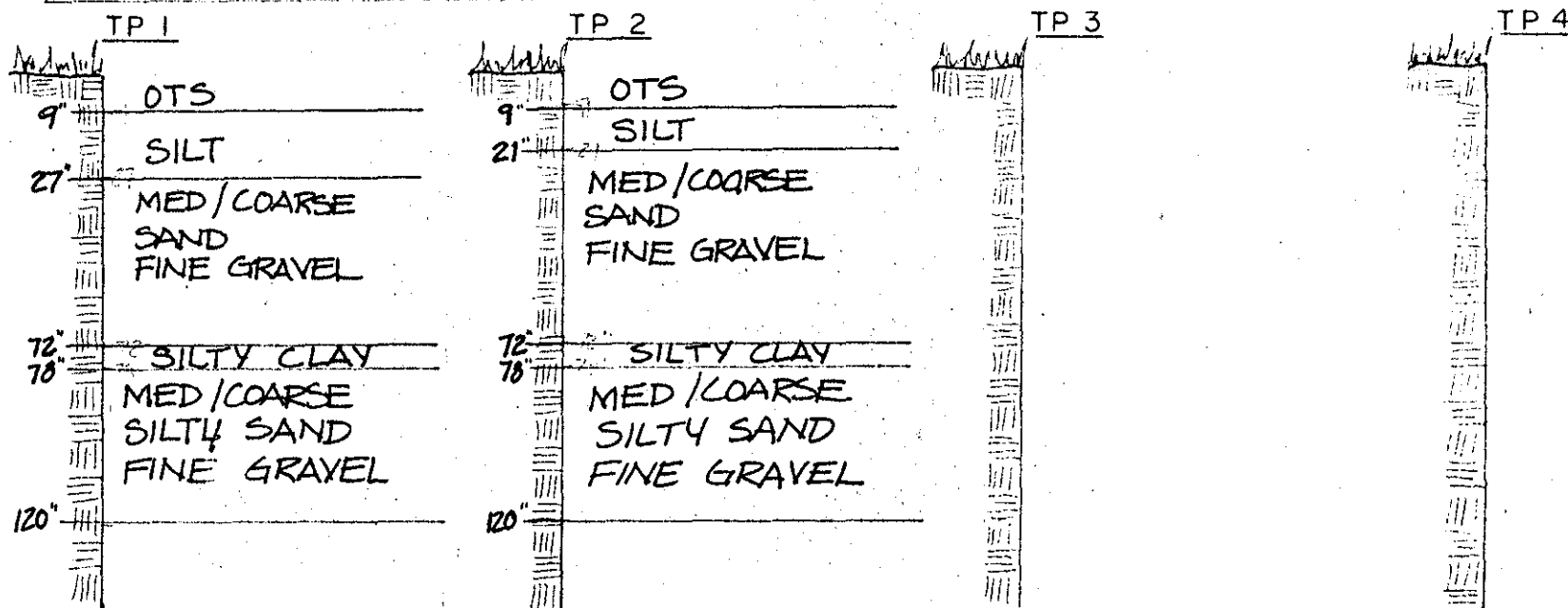
USE 2 TRENCHES AT 33 FT X 1 FT WIDE X 1 FT DEEP

7. SEPTIC TANK CAPACITY: 1000 GAL.

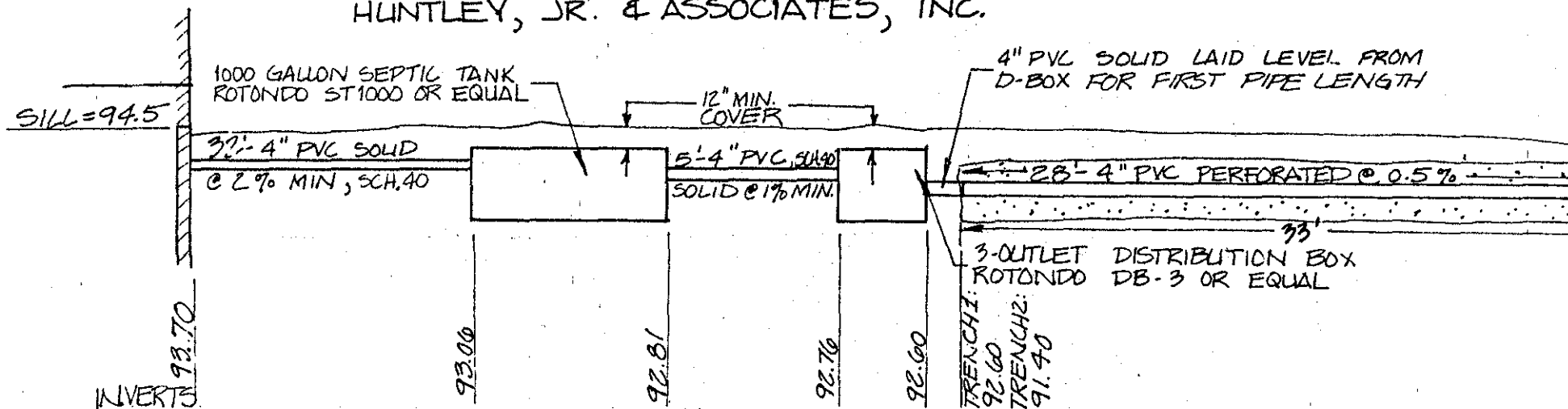
8. FOUNDATION TO BE DRAINED

9. SOIL TYPE:

10. TEST PITS	TP 1	TP 2	TP 3
PIT DEPTH	120"	120"	
PERCOLATION RATE & DEPTH	2min/inch @ 54"		
DEPTH OF SEASONAL HIGH WATER	72" oxides	78" oxides	
DEPTH OF OBSERVED GROUNDWATER	NONE	NONE	
DEPTH TO LEDGE	NONE	NONE	

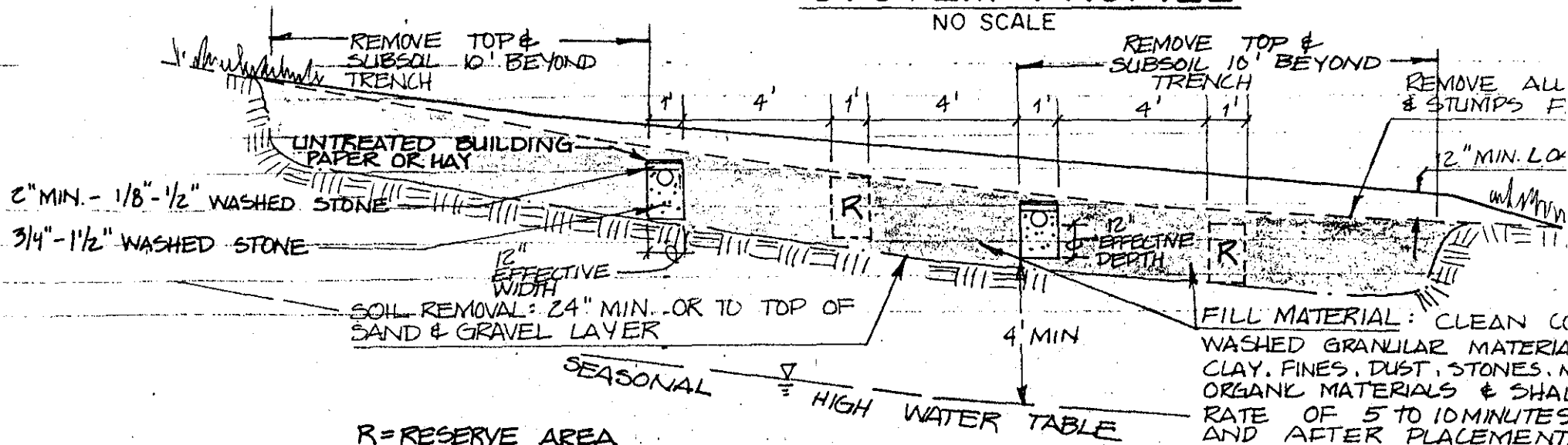


NOTE: SOIL OBSERVATIONS & PERCOLATION TESTS TAKEN 4-23-86 BY HUNTLEY, JR. & ASSOCIATES, INC.



SYSTEM PROFILE

NO SCALE



SECTION A-A

NO SCALE

GENERAL NOTES

1. SYSTEM DESIGNED ACCORDING TO: TITLE IX, MASSACHUSETTS DEGE, CHAPTER 30A. CONSTRUCTION TO CONFORM TO SAME.
2. -102- INDICATES EXISTING CONTOUR, -102- INDICATES PROPOSED CONTOUR.
3. C.T. MALE ASSOCIATES, INC. HAS FURNISHED THIS DESIGN & PLAN BUT HAS NOT BEEN RETAINED OR SUPERVISE CONSTRUCTION OF THE SYSTEM. THEREFORE, NO GUARANTEE OR WARRANTY, OR IMPLIED, IS MADE TO THE ULTIMATE USER RELATIVE TO ANY SYSTEM INSTALL TO THE PLAN. CONTRACTOR TO NOTIFY ENGINEER OF ANY SITE CONDITION DIFFERING THOSE INDICATED OR OF FIELD CHANGES MADE.

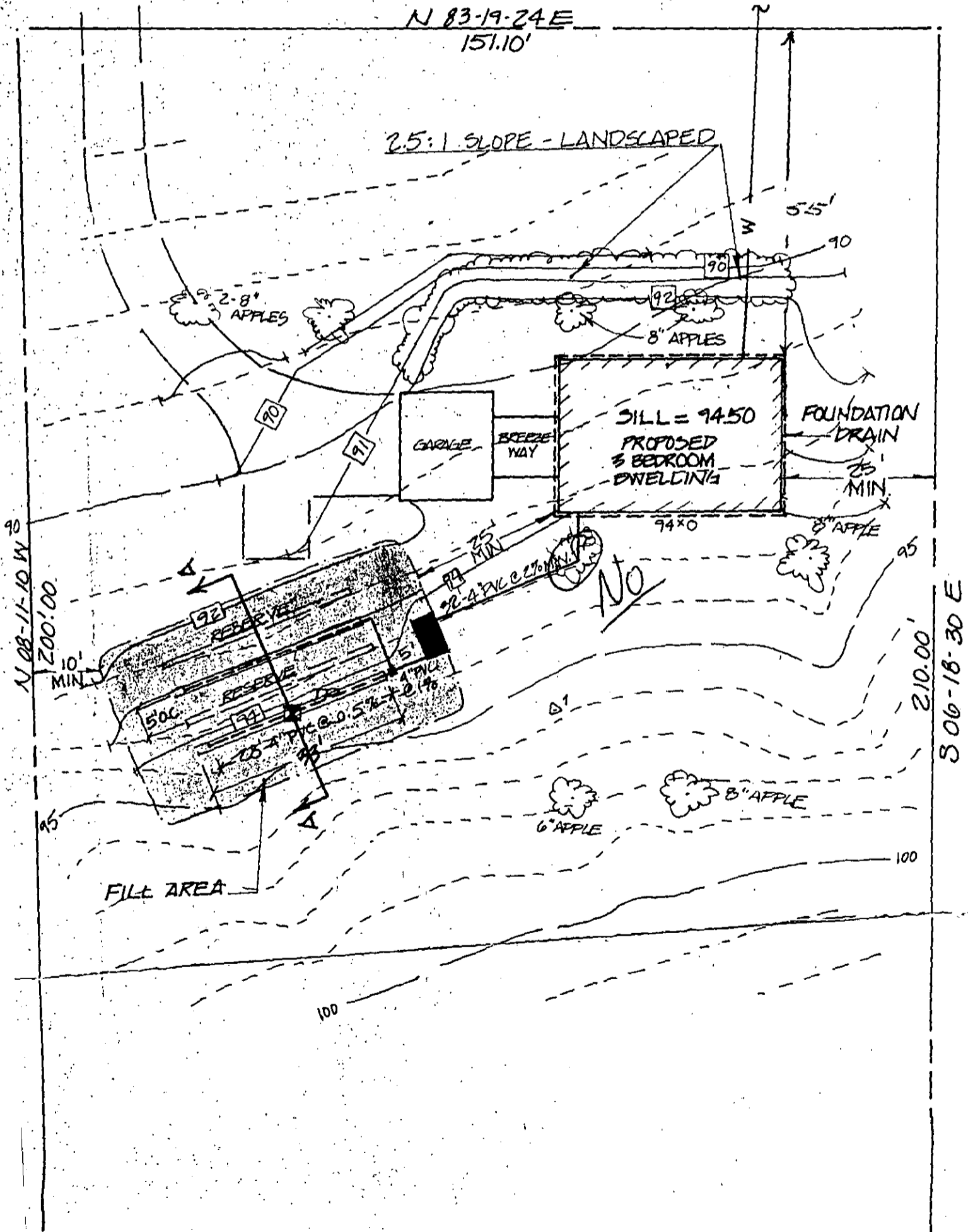
T.B.M. = SOUTHERLY BOLT
HYDRANT # 218
= 83.80

BAY

ROAD

N 83-19-24 E
151.10'

2.5:1 SLOPE - LANDSCAPED





RECEIVED MAY - 3 2000

A.S.A.P.

FIRE
CASUALTY

Adjustment Service, Inc.

COMPENSATION
SPECIAL INVESTIGATION

24 Elm Street, Suite #3
Westfield, MA 01085

"Multiline Adjusters Specializing in Quality"

Tel. (413)562-4154
Fax (413)562-7993

05/02/00

To: Board of Health or
Board of Selectmen
CITY HALL
AMHERST, MA. 01002

Re: Insured: PAUL RACKOWE

Property Address: 147 BAY ROAD
AMHERST, MA 01002

Policy No.: NBSL38573

Loss of: 04/08/00

Loss Type: WIND CO

File No.: 00-048672-00P

Claim has been made involving loss, damage or destruction of the above captioned property, which may either exceed \$ 1,000.00 or cause Mass.Gen. Law, Chapter 143, Section 6 to be applicable.

If any notice under Mass. Gen. Laws, Ch. 139, Sec. 3B is appropriate please direct it to the attention of the writer and include a reference to the captioned insured, location, policy number, date of loss and claim or file number.

Ken Bourque, Adjuster

On this date, I caused copies of this notice to be sent to the persons named above at the addresses indicated above by first class mail.


Signature and Date

2 2

