

474 Station Rd.  
Oreg Firman



No. \_\_\_\_\_

Date: 5/21/2013

Commonwealth of Massachusetts  
Massachusetts

Soil Suitability Assessment for On-site Sewage Disposal

Performed By: WILLIAM J. SIENUTA PE 30148 Date: 5/21/2013  
Witnessed By: ED SMITH BOH AGENI

Location Address or Lot # <u>696 COOMY FIRM # 15044 LOT 474 STATION RD Amherst MA</u>	Appraiser Name, Address, and Telephone # <u>GREGORY FIRMAN 474 STATION ROAD Amherst MASS</u>
New Construction <input type="checkbox"/> Repair <input checked="" type="checkbox"/>	

1-413-531-3703

Office Review

Published Soil Survey Available: No  Yes

Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_ Soil Map Unit \_\_\_\_\_

Drainage Class \_\_\_\_\_ Soil Limitations \_\_\_\_\_

Surficial Geologic Report Available: No  Yes

Year Published \_\_\_\_\_ Publication Scale \_\_\_\_\_

Geologic Material (Map Unit) \_\_\_\_\_

Landform \_\_\_\_\_

Flood Insurance Rate Map:

Above 500 year flood boundary No  Yes

Within 500 year flood boundary No  Yes

Within 100 year flood boundary No  Yes

Wetland Area:

National Wetland Inventory Map (map-unit) \_\_\_\_\_

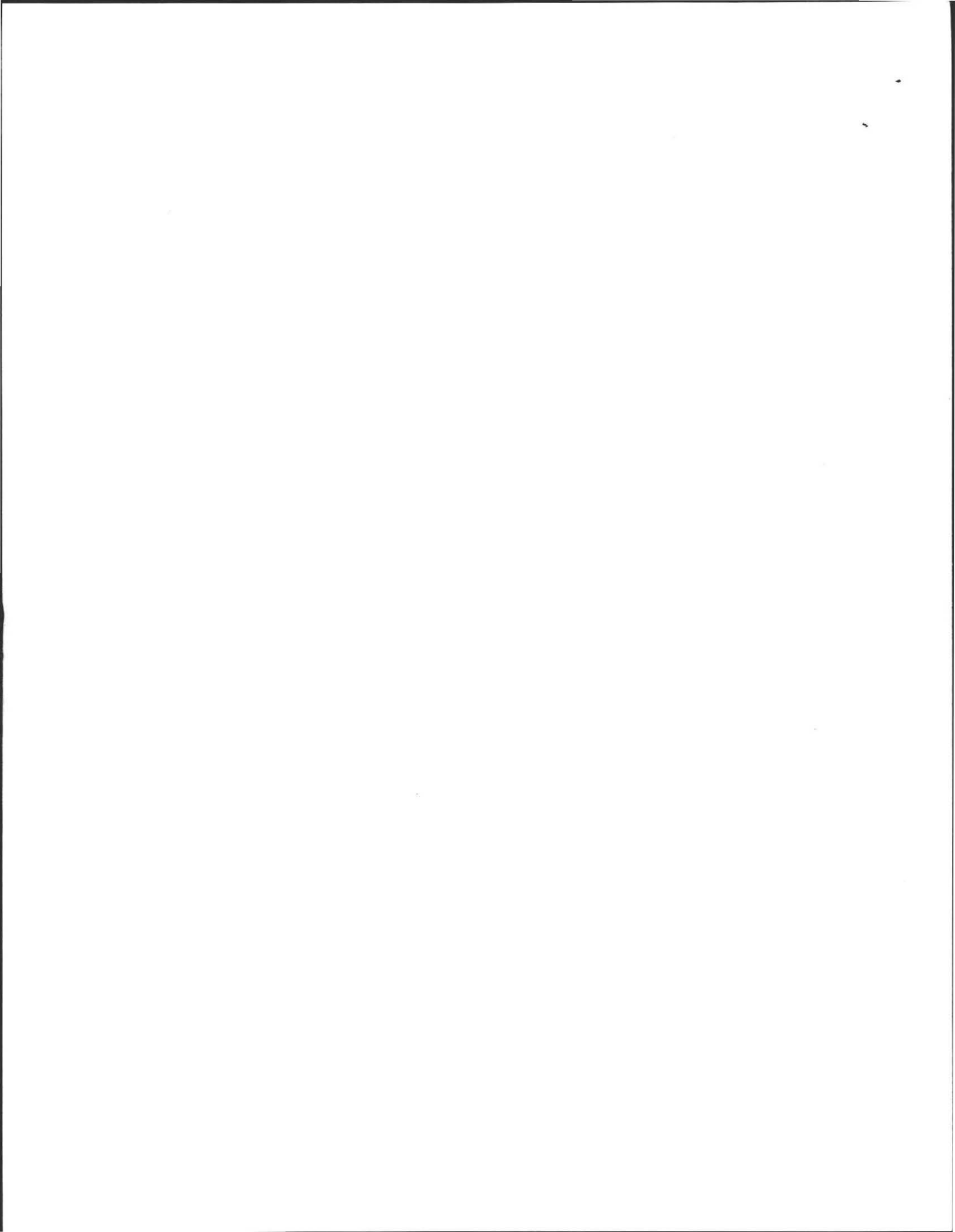
Wetlands Conservancy Program Map (map-unit) \_\_\_\_\_

Current Water Resource Conditions (USGS): Month

Range :Above Normal  Normal  Below Normal

Other References Reviewed: \_\_\_\_\_





GREGORY FIRMANN

FORM II - SOIL EVALUATOR FORM  
Page 2 of 3

NEW LOT: 4774 STATION ROAD  
Amherst, MASS

Location Address or Lot No.

GREGORY FIRMANN  
474 STATION RD  
AMHERST, MASS

Page 2 of 3

Deep Hole Number: TP-1 Date: 5/21/2013 Time: 10:30 Weather: SUNNY  
Location (Identify on site plan): ADJACENT TO  
Land Use: WOODPOND AREA Slope (%): 0 Surface Stones: SOME STONES

On-site Review  
Deep Hole Number: TP-2 Date: 5/21/2013 Time: 10:30 Weather: COOL  
Location (Identify on site plan): ADJACENT TO  
Land Use: WOODPOND AREA Slope (%): 0 Surface Stones: SOME STONES

Vegetation: WOODPOND AREA  
Landform: WOODPOND AREA  
Position on landscape (sketch on the back): DNA  
Distances from:  
Open Water Body: DNA feet  
Possible Wet Area: DNA feet  
Drinking Water Well: public H2O

Vegetation: WOODPOND AREA  
Landform: WOODPOND AREA  
Position on landscape (sketch on the back): DNA  
Distances from:  
Open Water Body: DNA feet  
Possible Wet Area: DNA feet  
Drinking Water Well: public H2O

DEEP OBSERVATION HOLE LOG

DEEP OBSERVATION HOLE LOG

Depth from Surface (feet)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Stumps, Stones, Bedrock, Concretion, % Gravel)
0-12	A	5/2 10YR 3-3	10YR 3-3	10YR 3-3	None
12-24	Bw	4/5 10YR 5-4	10YR 5-4	10YR 5-4	None
24	C1	5AUP COARSL 5-3	5AUP COARSL 5-3	5AUP COARSL 5-3	20% gravel 5% cobbles MASSIVE FRAGMENT STRUCTURELESS

Depth from Surface (feet)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Stumps, Stones, Bedrock, Concretion, % Gravel)
0-12	A	5/2 10YR 3-3	10YR 3-3	10YR 3-3	None
12-20	Bw	4/5 10YR 5-4	10YR 5-4	10YR 5-4	None
20	C1	5AUP COARSL 5-3	5AUP COARSL 5-3	5AUP COARSL 5-3	None
124					None

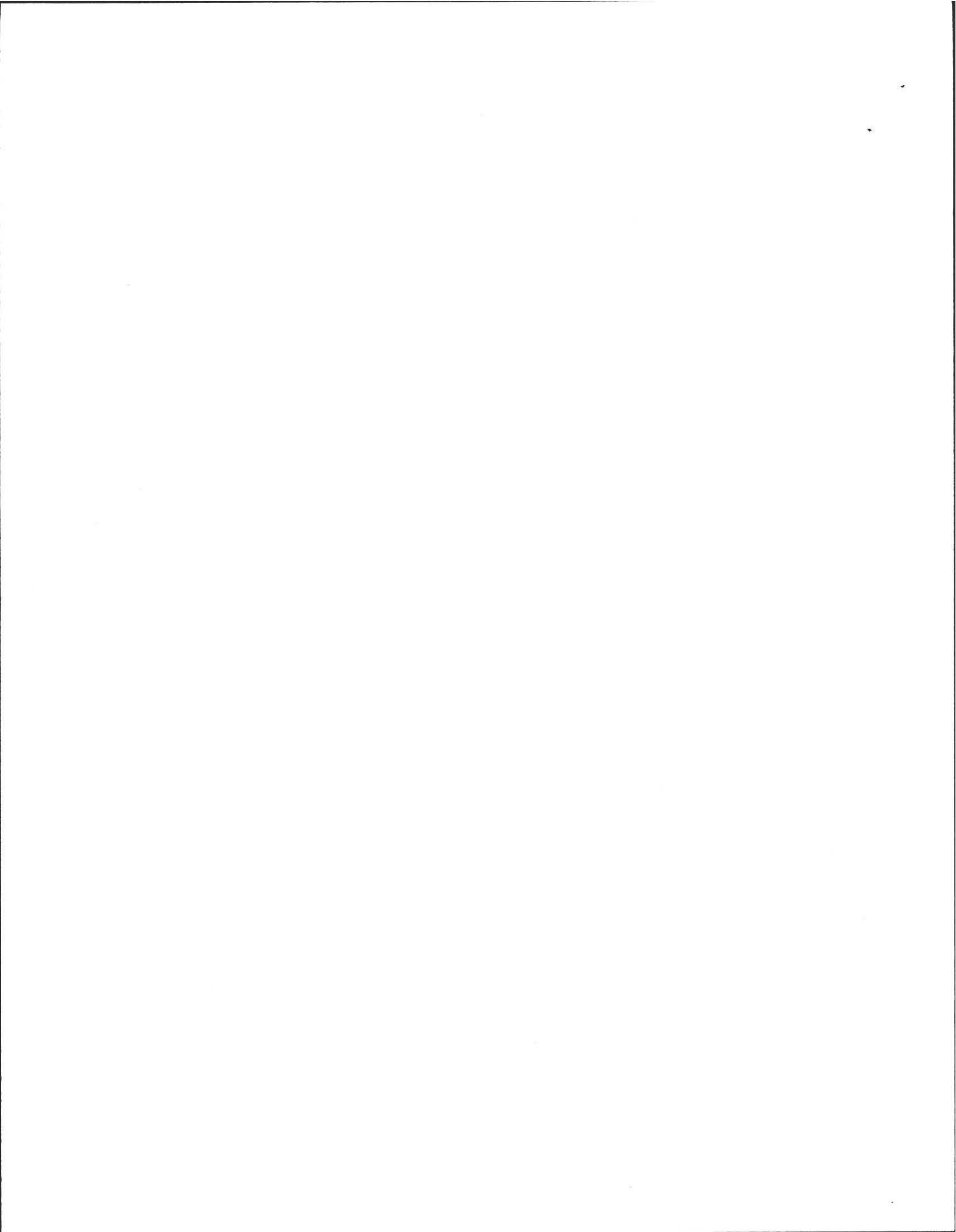
MINIMUM OF 3 HOLES REQUIRED AT EVERY PROPOSED DISINFECTED AREA  
Parent Material (geologic): OUTWASH GRAVEL Depth (feet): DNA  
Depth to Groundwater: None Standing Water in the Hole: None Weeping from Pit Foot: None  
Estimated Seasonal High Ground Water: below 120"

MINIMUM OF 3 HOLES REQUIRED AT EVERY PROPOSED DISINFECTED AREA  
Parent Material (geologic): OUTWASH GRAVEL Depth (feet): DNA  
Depth to Groundwater: None Standing Water in the Hole: None Weeping from Pit Foot: None  
Estimated Seasonal High Ground Water: below 124"



NOT APPROVED FORM - 10/07/05





Gregory FIRMAN  
 474 STATION ROAD  
 AMHERST MASS

Location Address or Lot No. \_\_\_\_\_

Deep Hole Number: TH-3 Date: 5/21/2013 Time: 1030 Weather: SUNNY  
 Location (Identify on site plan): REAR  
 Land Use: WOODS Slope (%): 0 Surface Stones: SOME ROCK  
 Vegetation: WOODS  
 Landform: OUTWASH TERRACE  
 Position on landscape (sketch on the back): \_\_\_\_\_  
 Distances from:  
 Open Water Body: DNA feet  
 Possible Wet Area: DNA feet  
 Drinking Water Well: PUBLIC H2O feet  
 Other: \_\_\_\_\_

DEEP OBSERVATION HOLE LOG

Depth from Surface (feet)	Soil Number	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Stumps, Stones, Boulders, Concretions, etc.)
0-10	A	3/2	10YR 3-3		
10-22	BW	4/5	10YR 5-4		
22	C1	SAND	10YR 5-3		
120					

Notes: none 20% gravel, 5% cobbles  
 MASSIVE FRIABLE

MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSA AREA  
 Parent Material (geologic): OUTWASH GRAY  
 Depth to Groundwater: DRY Standing Water in the Hole: DRY  
 Estimated Seasonal High Ground Water: 120"



Gregory FIRMAN  
 474 STATION ROAD  
 AMHERST MASS

Location Address or Lot No. \_\_\_\_\_

Deep Hole Number: TH-4 Date: 5/21/2013 Time: 1030 Weather: SUNNY  
 Location (Identify on site plan): REAR  
 Land Use: WOODS Slope (%): 0 Surface Stones: SOME ROCK  
 Vegetation: WOODS  
 Landform: OUTWASH TERRACE  
 Position on landscape (sketch on the back): \_\_\_\_\_  
 Distances from:  
 Open Water Body: DNA feet  
 Possible Wet Area: DNA feet  
 Drinking Water Well: PUBLIC H2O feet  
 Other: \_\_\_\_\_

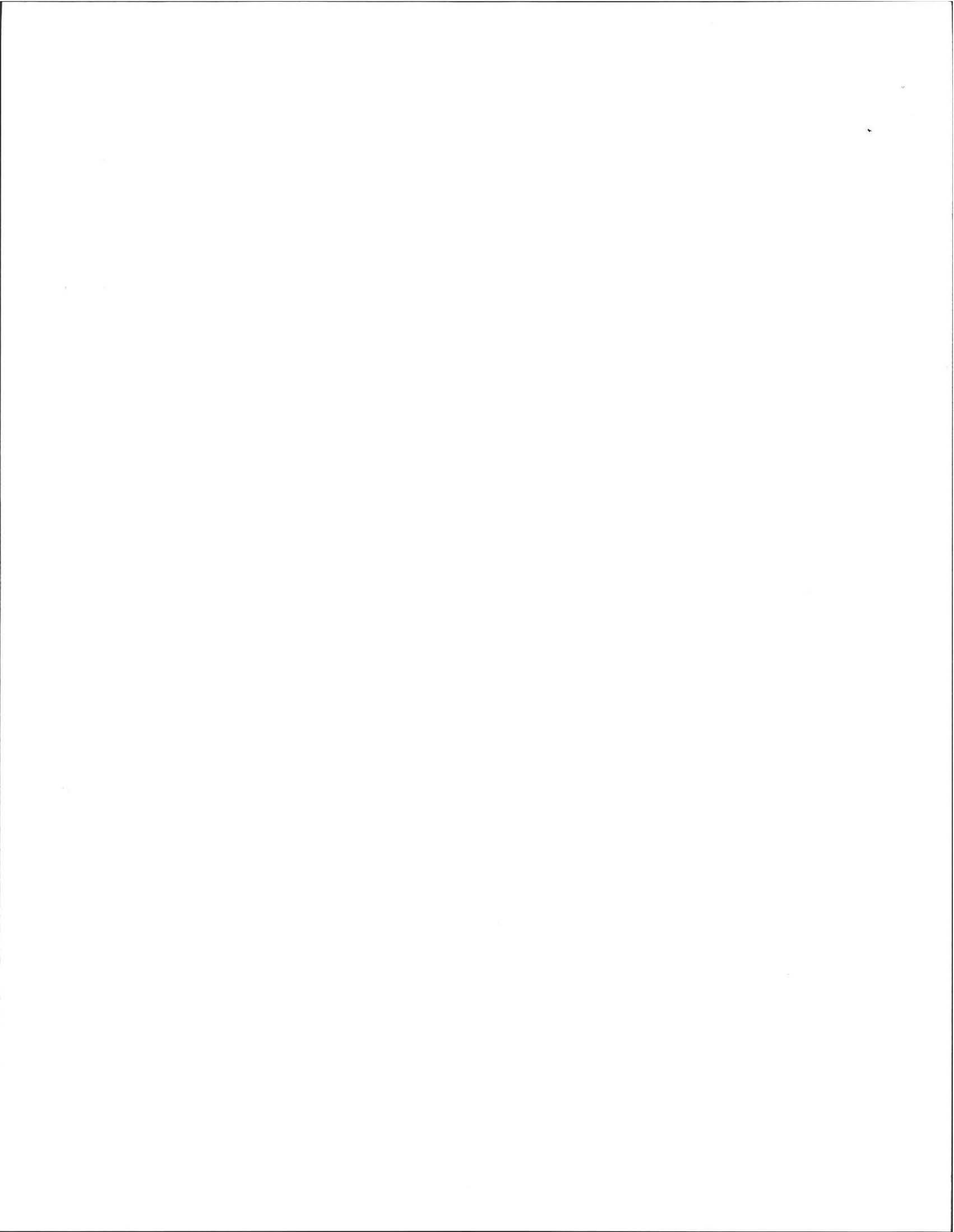
DEEP OBSERVATION HOLE LOG

Depth from Surface (feet)	Soil Number	Soil Texture (USDA)	Soil Color (Munsell)	Soil Moisture	Other (Stumps, Stones, Boulders, Concretions, etc.)
0-10	A	3/2	10YR 3-3		
10-21	BW	4/5	10YR 5-4		
21	C1	SAND	10YR 5-3		
126					

Notes: none 20% gravel, 5% cobbles  
 MASSIVE FRIABLE STRUCTURE

MINIMUM OF 2 HOLES REQUIRED AT EVERY PROPOSED DISPOSA AREA  
 Parent Material (geologic): OUTWASH GRAY  
 Depth to Groundwater: DRY Standing Water in the Hole: DRY  
 Estimated Seasonal High Ground Water: 126"







NEW LOT  
 GREGORY FIRMAN  
 474 STATION ROAD  
 FORM 12 - PERCOLATION TEST

Location Address or Lot No. Amherst MA

COMMONWEALTH OF MASSACHUSETTS  
 Amherst, Massachusetts

Percolation Test*			
Date: <u>5/21/2013</u>		Time: _____	
Observation Hole #	TP1-1 TP1-2	TP1-3 TP1-4	
Depth of Perc	<u>52</u>	<u>54</u>	
Start Pre-soak	<u>10 35 - 10 40</u>	<u>10 45 - 10 50</u>	
End Pre-soak	<u>10 40</u>	<u>10 50</u>	
Time at 12"	<u>10 40</u>	<u>10 50</u>	
Time at 9"	<u>10 42</u>	<u>10 51</u>	
Time at 6"	<u>10 44</u>	<u>10 53</u>	
Time (9"-6")	<u>2/3 = .66</u>	<u>2/3 .66</u>	
Rate Min./Inch	<u>5.0 MIN/INCH</u>	<u>5.0 MIN/INCH</u>	

CLASS E SOIL 60" SEPARATE PER 310CMR 15.212

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

Site Passed  Site Failed

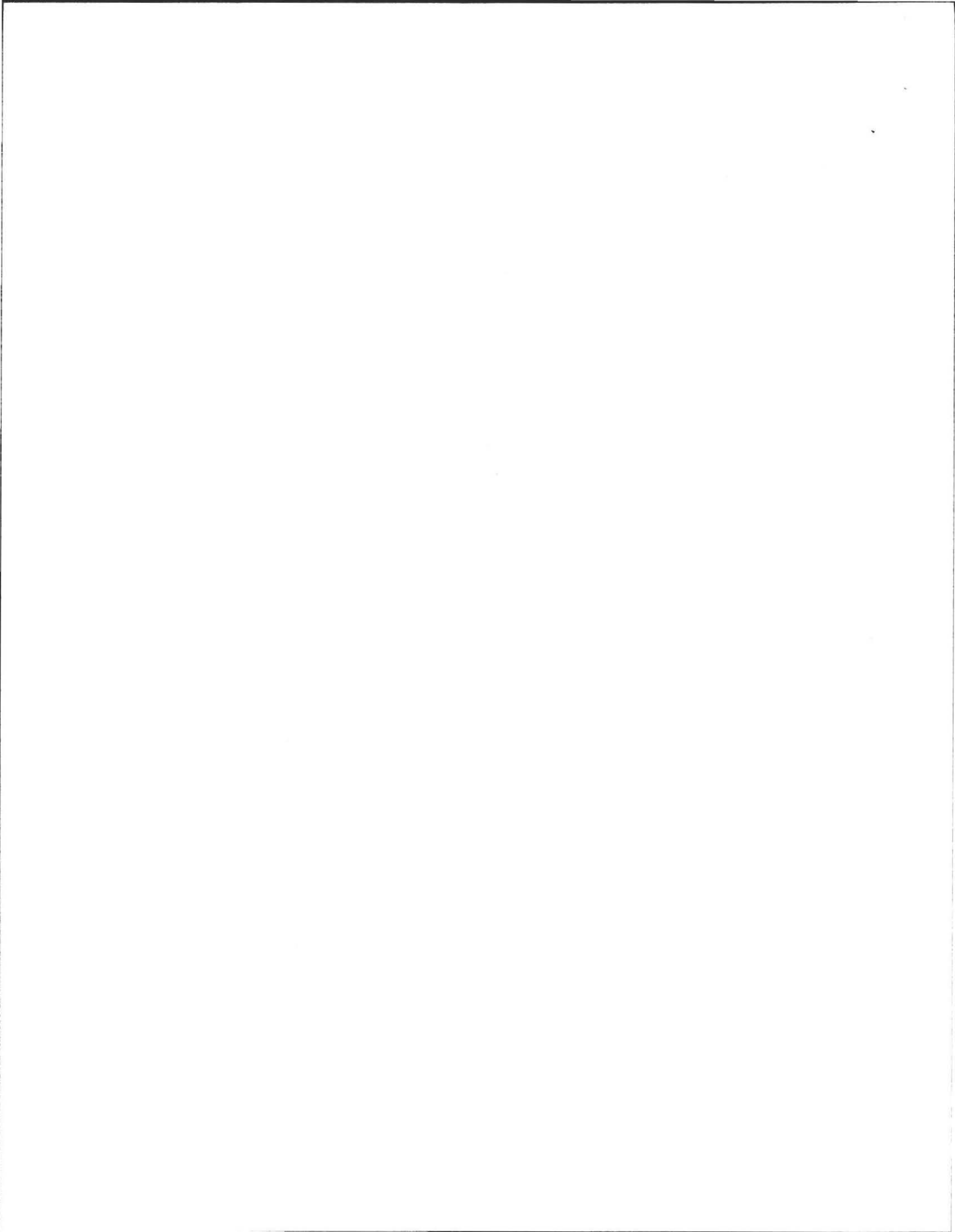
DE 30148  
 SE 2241

Performed By: WILLIAM J SIERUTA PE

Witnessed By: EDWARD SMITH BOH AGENT

Comments: \_\_\_\_\_





Percolation Test

Test No. PERC 1 @ TP1-4  
 Reading Time 24 gal 1035  
 Saturation (15 min) 1040 1040  
12  
11  
10  
9  
8  
7  
6  $2/3 = 1.66$   
 Perc. Rate 5.0 Min/Inch  
 Ground Elev. \_\_\_\_\_  
 Depth of Hole 60" separate

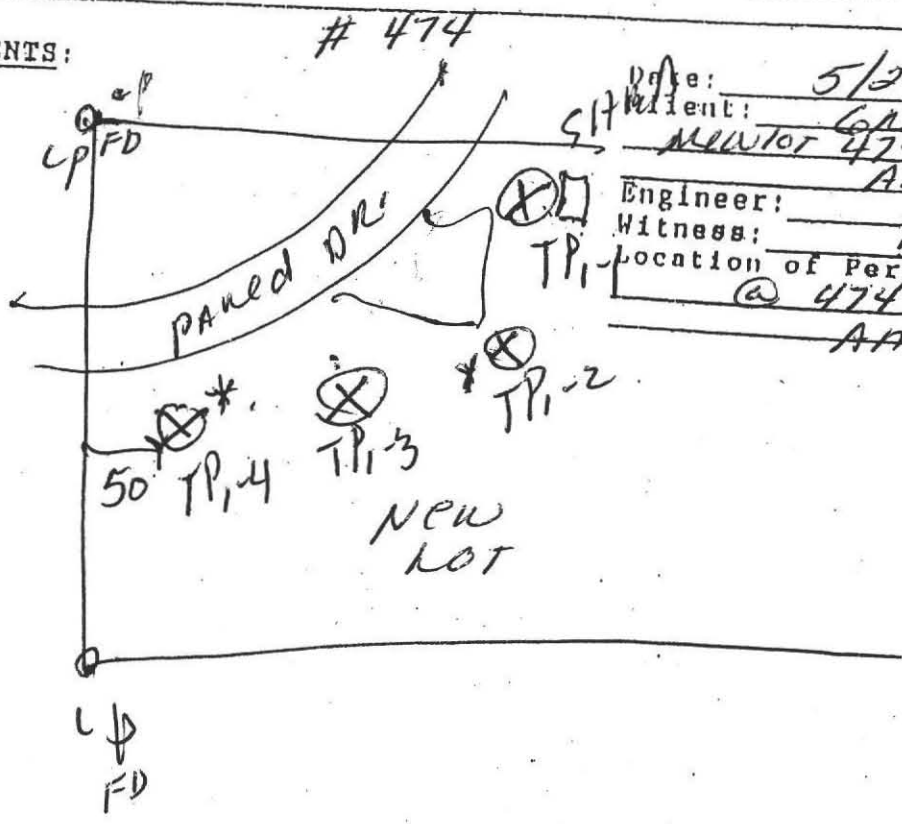
Test No. PERC 2 TP1-2 24 gal  
 Reading Time 1045 ~ 1050  
 Saturation (15 min) 1050  
12  
11  
10  
9  
8  
7  $2/3 = 1.66$   
6  
 Perc. Rate \_\_\_\_\_ Min/Inch  
 Ground Elev. \_\_\_\_\_  
 Depth of Hole \_\_\_\_\_

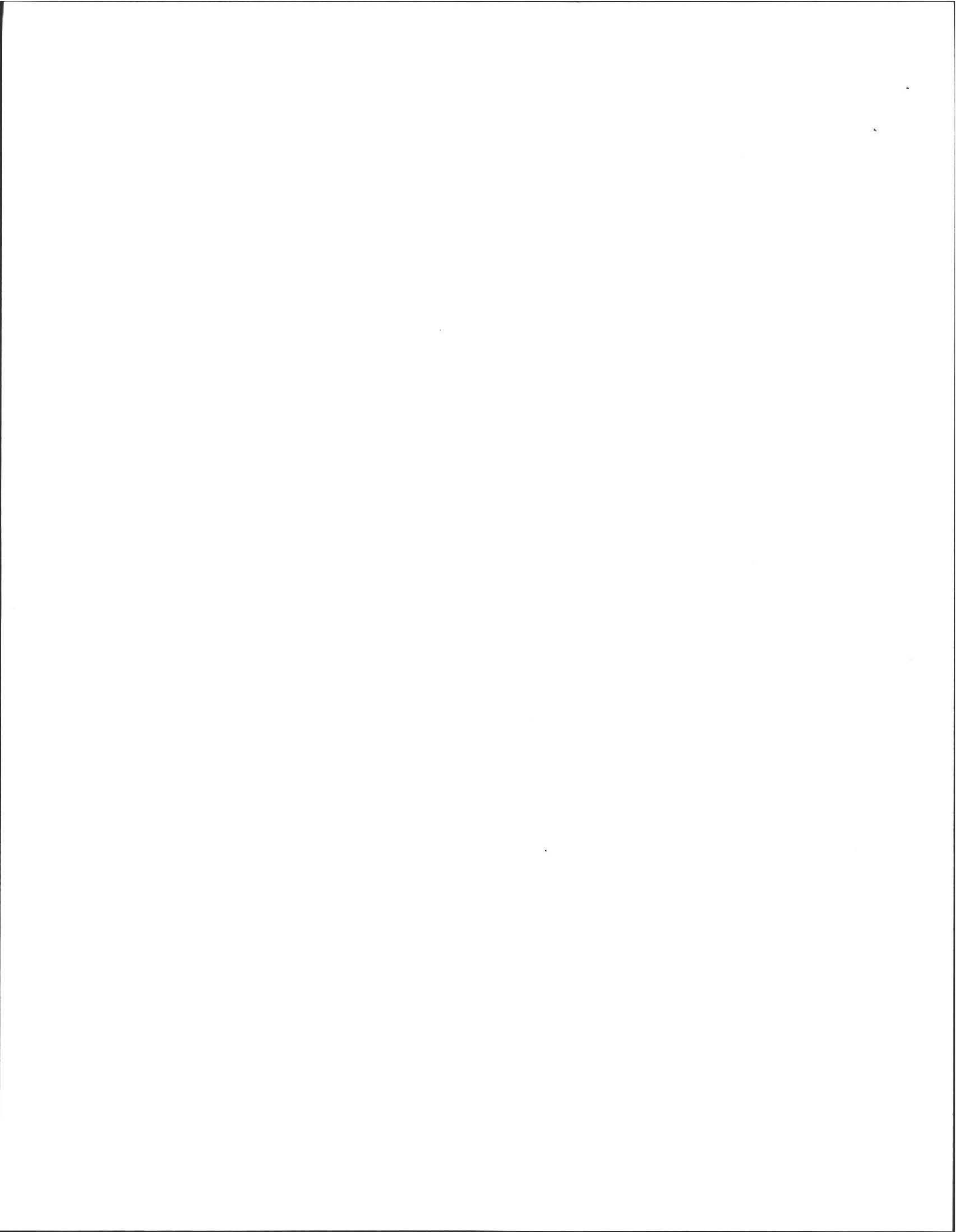
Test Pit TP1-1 52" Deep Test Pit  
 Depth Soil Description  
0-12 OTS LOAM  
12-24 SILTY GRAVEL SUB  
24-120 CAPPED well GRADED  
 Groundwater Depth DRY Elev. GRVEL  
 Bedrock Depth \_\_\_\_\_ Elev. \_\_\_\_\_  
 Ground Elev. EHWT below 120"

Test Pit TP1-2  
 Depth Soil Description  
0-10 OTS LOAM TOP SOIL  
10-21 SILTY GRAVEL SUB  
21-126 well GRADED MED  
 Groundwater Depth DRY Elev. \_\_\_\_\_  
 Bedrock Depth \_\_\_\_\_ Elev. \_\_\_\_\_  
 Ground Elev. EHWT to top 126"

S. Soil Description gravel Seasonal High Water Table? - AS NOTED  
 Bench Mark: Elev. \_\_\_\_\_ Description \_\_\_\_\_

COMMENTS: # 474  
 Date: 5/21/2013  
 Client: GREGORY FIRMAN  
NEW LOT 474 STATION RD  
Amherst MA  
 Engineer: \_\_\_\_\_  
 Witness: WJ SIERUTTA PE  
ED SMITH BOH  
 Location of Perc: NEW LOT  
@ 474 STATION RD  
AMHERST MASS





GREGORY FIRMAN  
NEW LOT 474 STATION RD  
AMHERST MASS

Location Address or Lot No. \_\_\_\_\_

Determination for Seasonal High Water Table

Method Used:

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

TP-1 TP-2 TP-3 TP-4  
dry - - -  
below below below below  
120 124 120 126

Index Well Number \_\_\_\_\_ Reading Date \_\_\_\_\_ Index well level \_\_\_\_\_

Adjustment factor \_\_\_\_\_ Adjusted ground water level \_\_\_\_\_

Depth of Naturally Occurring Pervious Material

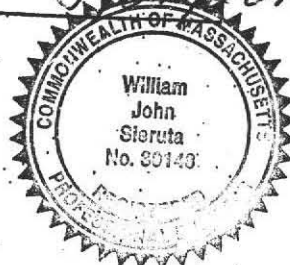
Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system? yes

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

Certification

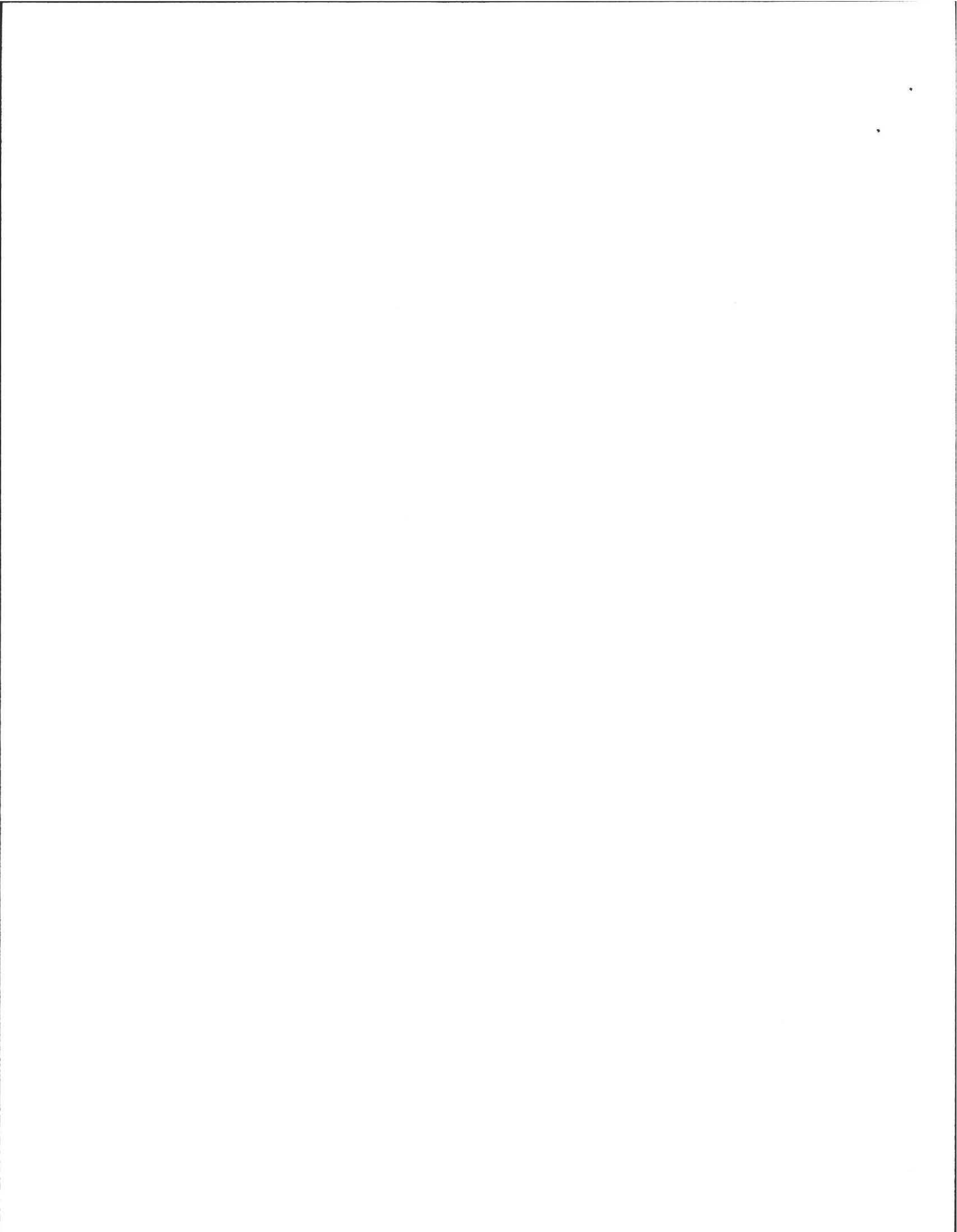
I certify that on 5/95 (date) I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise and experience described in 310 CMR 15.01.

Signature [Signature] Date 5/10/2013



SE 2241  
PK 30148







Commonwealth of Massachusetts

City/Town of

# Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

Use this sheet for field diagrams:

#474  
STATION RD  
RD

WOODED

SHED

TP<sub>1-1</sub>  
X

TP<sub>1-2</sub>  
+  
\*perc

GRAVEL  
PARKING  
AREA

TP<sub>1-3</sub>  
\*perc  
2

WOODED

TP<sub>1-4</sub>

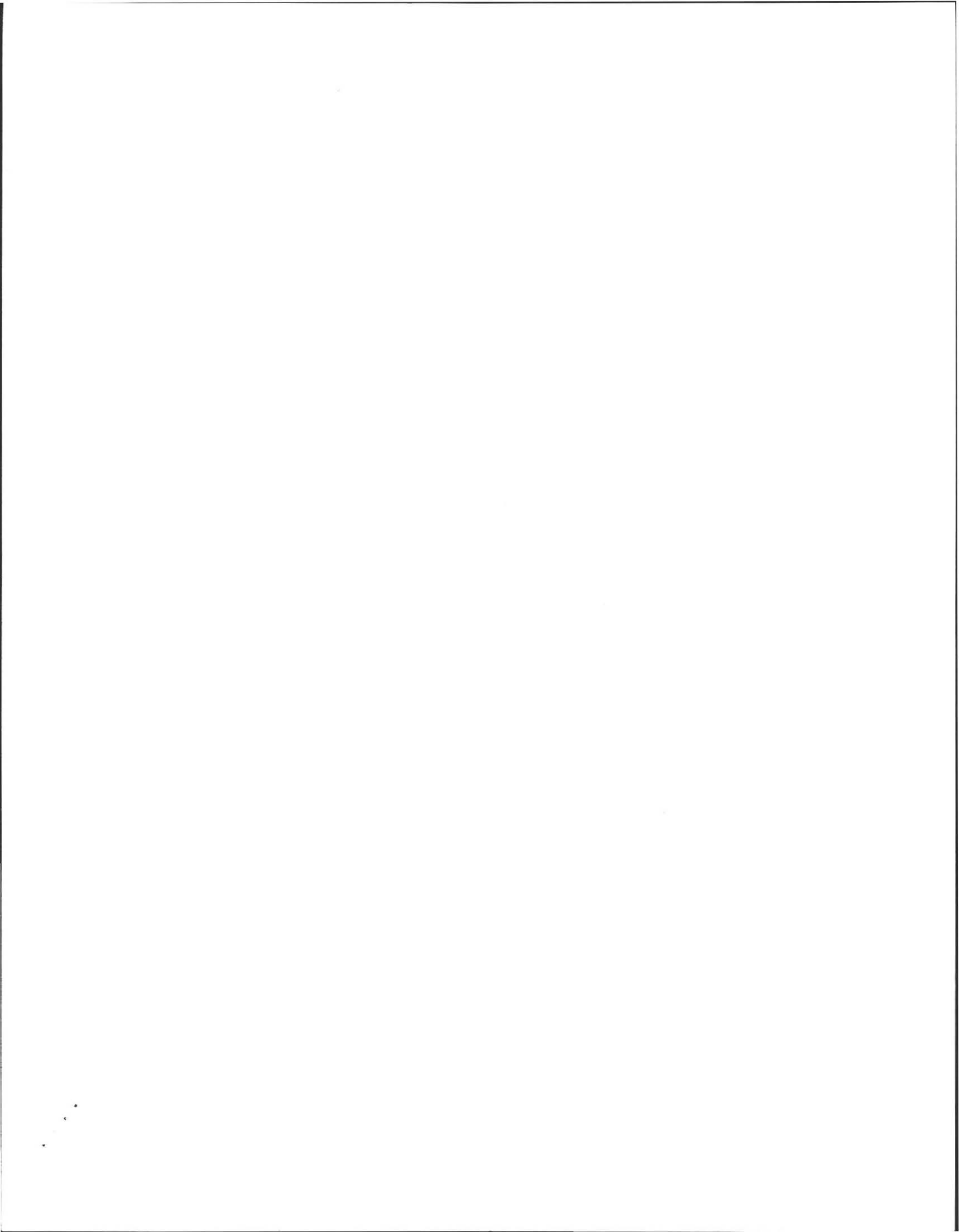
50'  
±

STATION ROAD



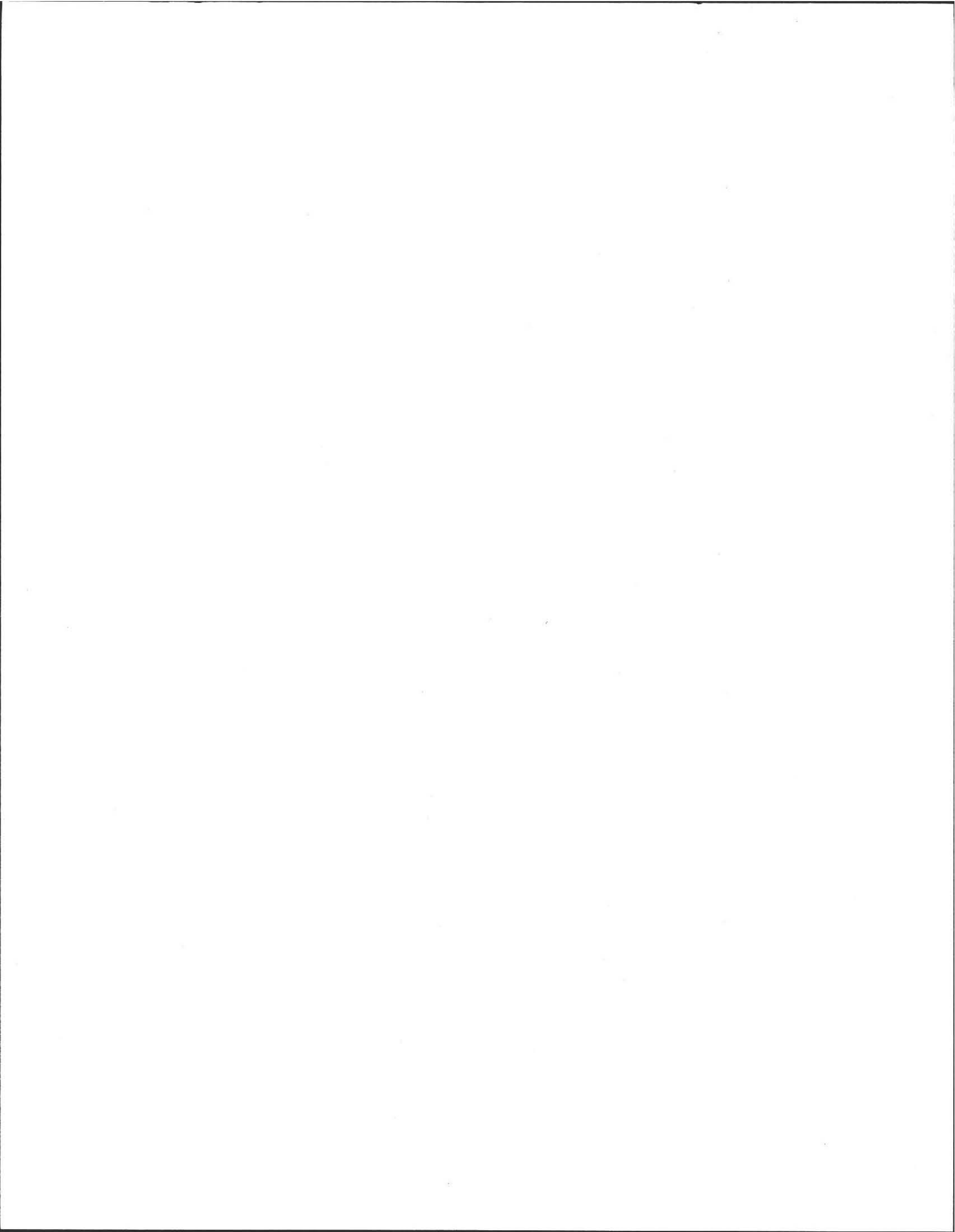
4P  
FD

50  
FD









CUST NAME  
4 BOLTWOOD AVENUE  
05/31/13  
CITY, ST, ZIP

\*\*\*TOWN OF A TOWN HAL  
AMHERST M REFERENCE  
DATE/TIME 13:47

CUST NAME

0  
DEPT

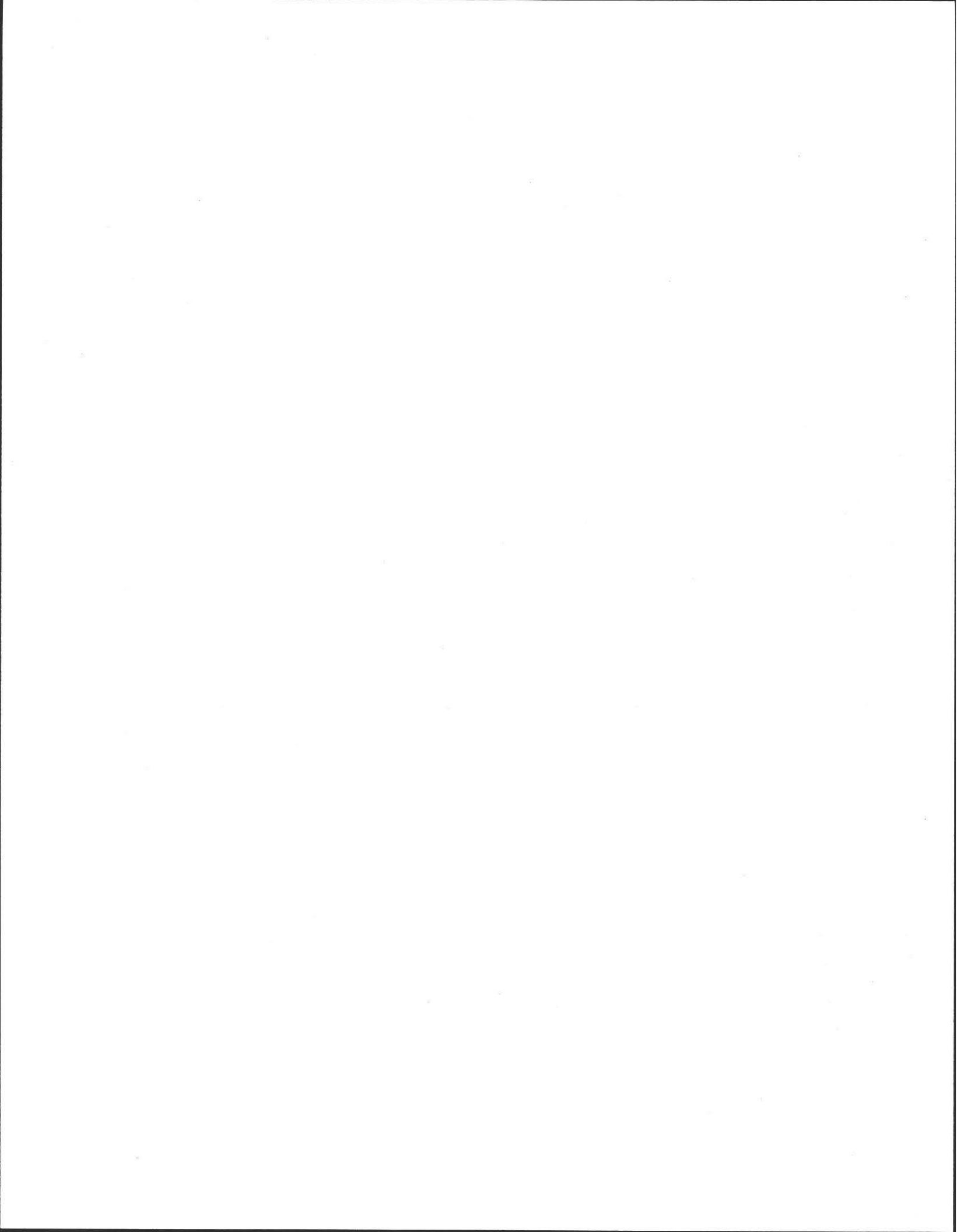
DE HEA011

PERCOLATIO 300.

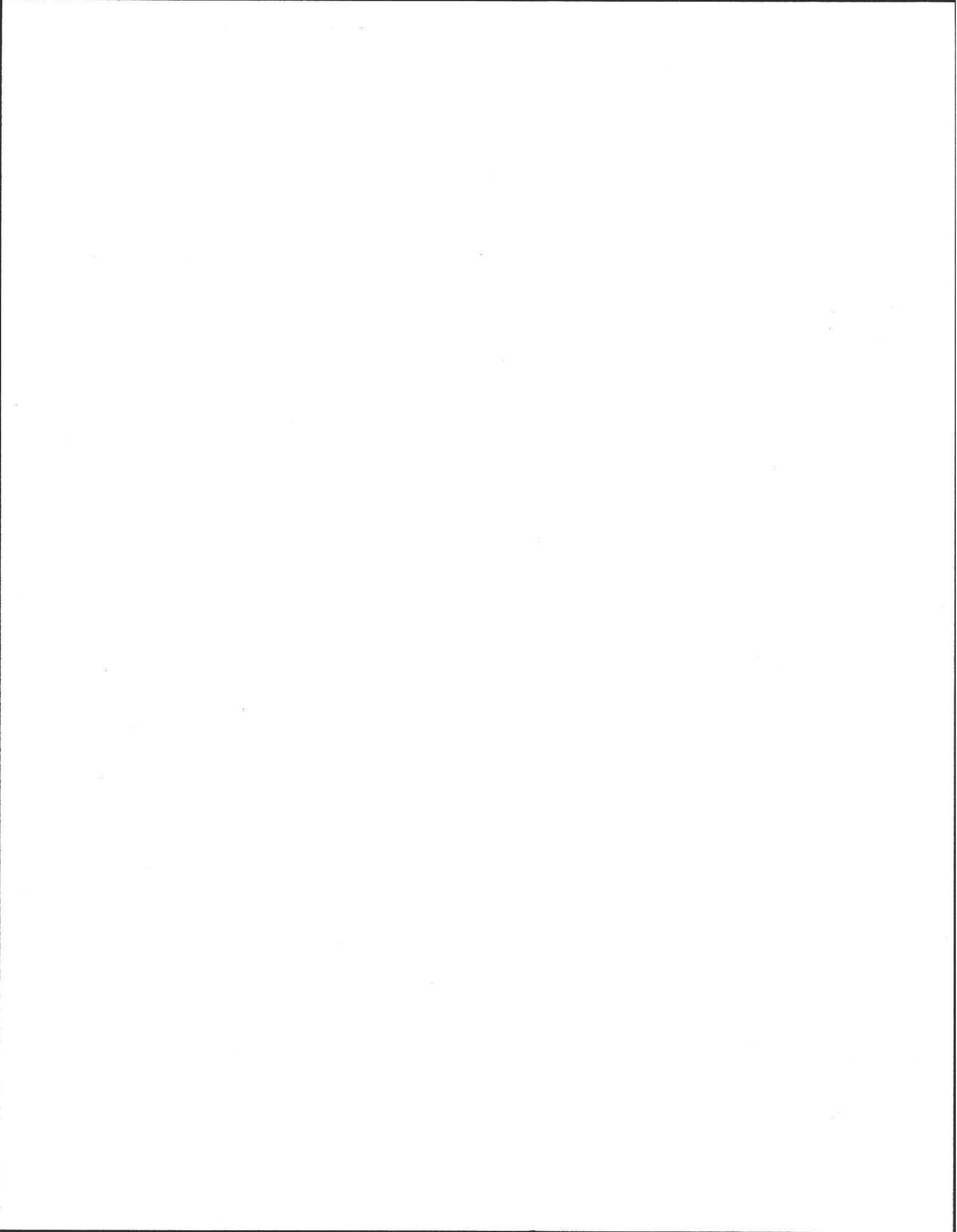
RECPT TOTAL

300.00  
WILLIAM J QUA CHECK

8881 AMOUNT







CUST NAME  
4 BOLTWOOD AVENUE  
05/31/13  
CITY, ST, ZIP

\*\*\*TOWN OF A TOWN HAL  
AMHERST M REFERENCE  
DATE/TIME 13:44

CUST NAME

0  
DEPT

DE HEA058

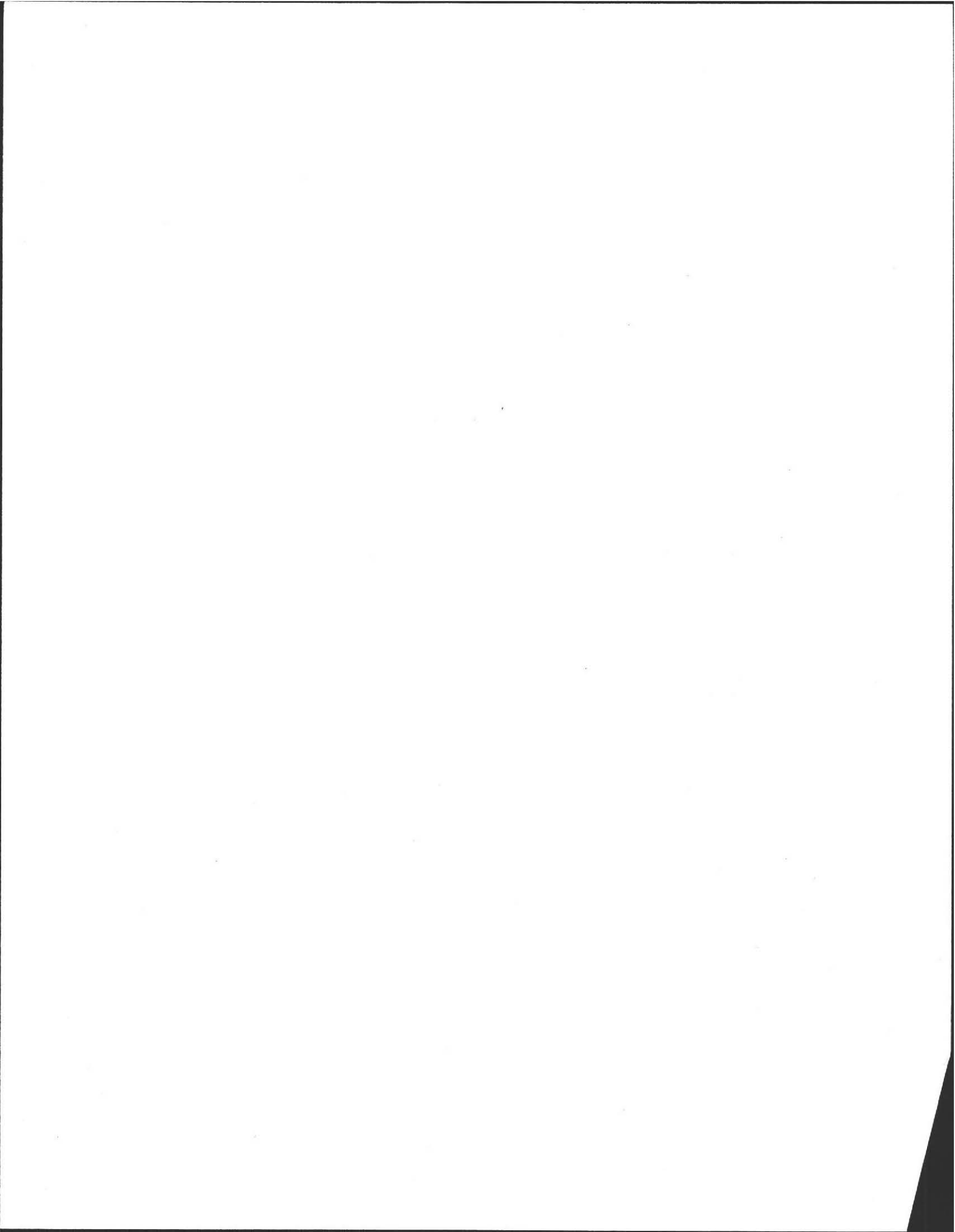
TITLE V WI 200.

RECPT TOTAL

200.00  
WILLIAM J QUA CHECK

8882

AMOUNT





OWNERS: FRMAN, GREGORY + LYNDY  
 474 STATION ROAD  
 AMHERST MA 01002

5/20/2013 474 Station Road

(paid by Wm. Sieruta for T5 and Soil Eval.)

10:30 AM

- no water table

#1	0-12	A		
	12-24	Bw	Coarse sand	30% gravel
	24-120	C <sub>1</sub>	Coarse sand	20% gravel 5% cobbles

#2	0-12	A
	12-20	Bw
	20-124	C <sub>1</sub>

#3	0-10
	10-22
	22-120

#4	0-10	
	10-21	
	21-120	C <sub>1</sub> layered coarse gravel

SOIL EVAL - PERC	① 10:35	began wetting hole	24 gallons in
	10:40	12"	
	10:42	9"	
	10:44	6"	< 2 mm / inch (60" separation)
	10:45	SMELT	
	10:50	12	24 gallons in
	10:52	9	< 2 mm / inch
	53	6	

(... ..)

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Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

474 STATION ROAD, AMHERST MASS  
Property Address

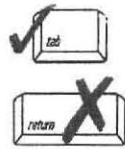
GREGORY FIRMAN  
Owner's Name

AMHERST MA 01002 5/9/2013  
City/Town State Zip Code Date of Inspection

Owner information is required for every page.

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:  
WILLIAM J SIERUTA PE  
Name of Inspector  
SIERUTA ENGINEERING  
Company Name  
18 DEPOT ROAD  
Company Address  
LEVERETT MASS 01054  
City/Town State Zip Code  
413 549 1817 SE 1055  
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

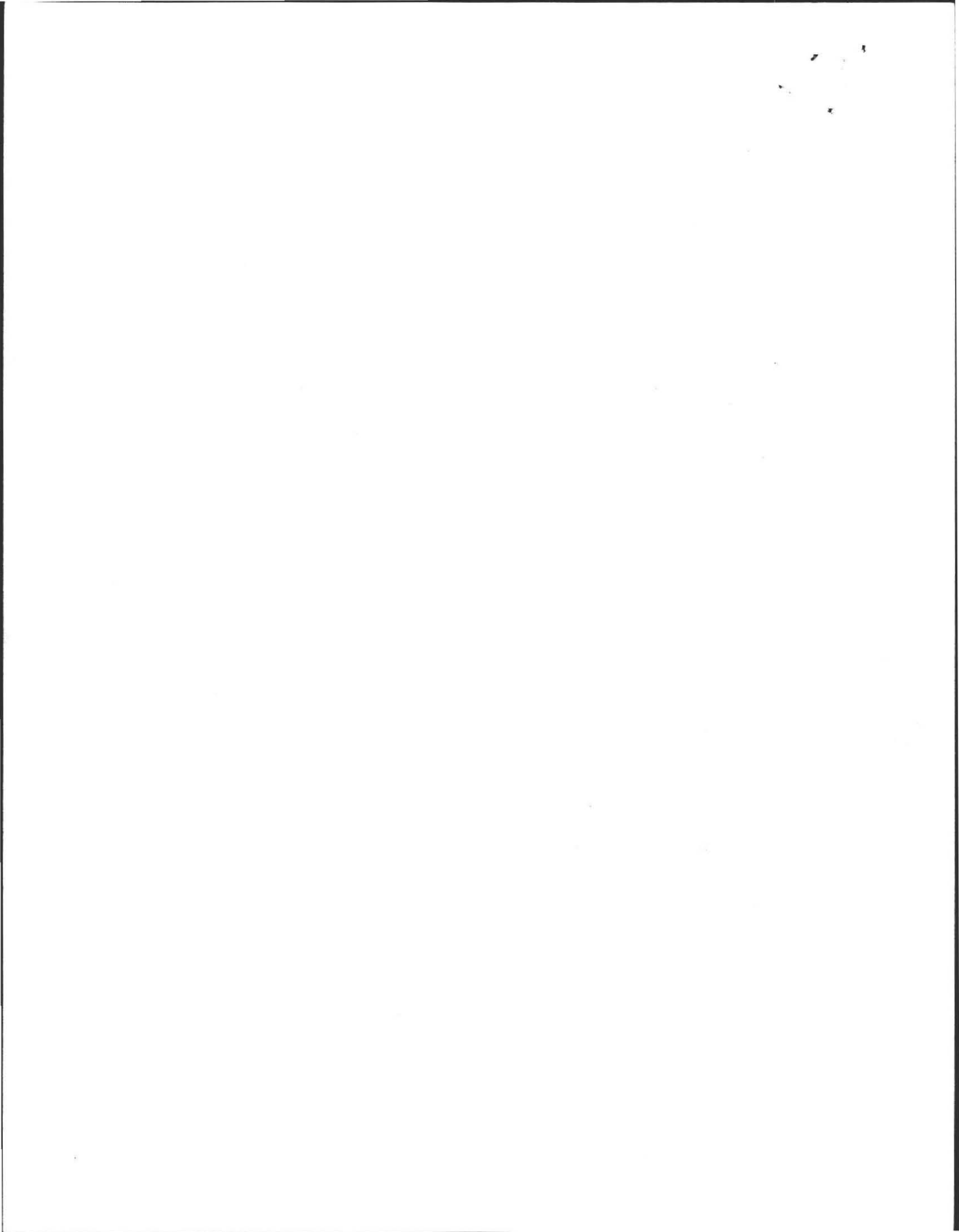
[Signature]  
Inspector's Signature

5/9/2013  
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

474 STATION ROAD  
Property Address

GREGORY FIRMAN  
Owner's Name

AMHERST MA 01002 5/9/2013  
City/Town State Zip Code 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:

SYSTEM IS WORKING WELL NO PROBLEMS NOTED.

### B) System Conditionally Passes:

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

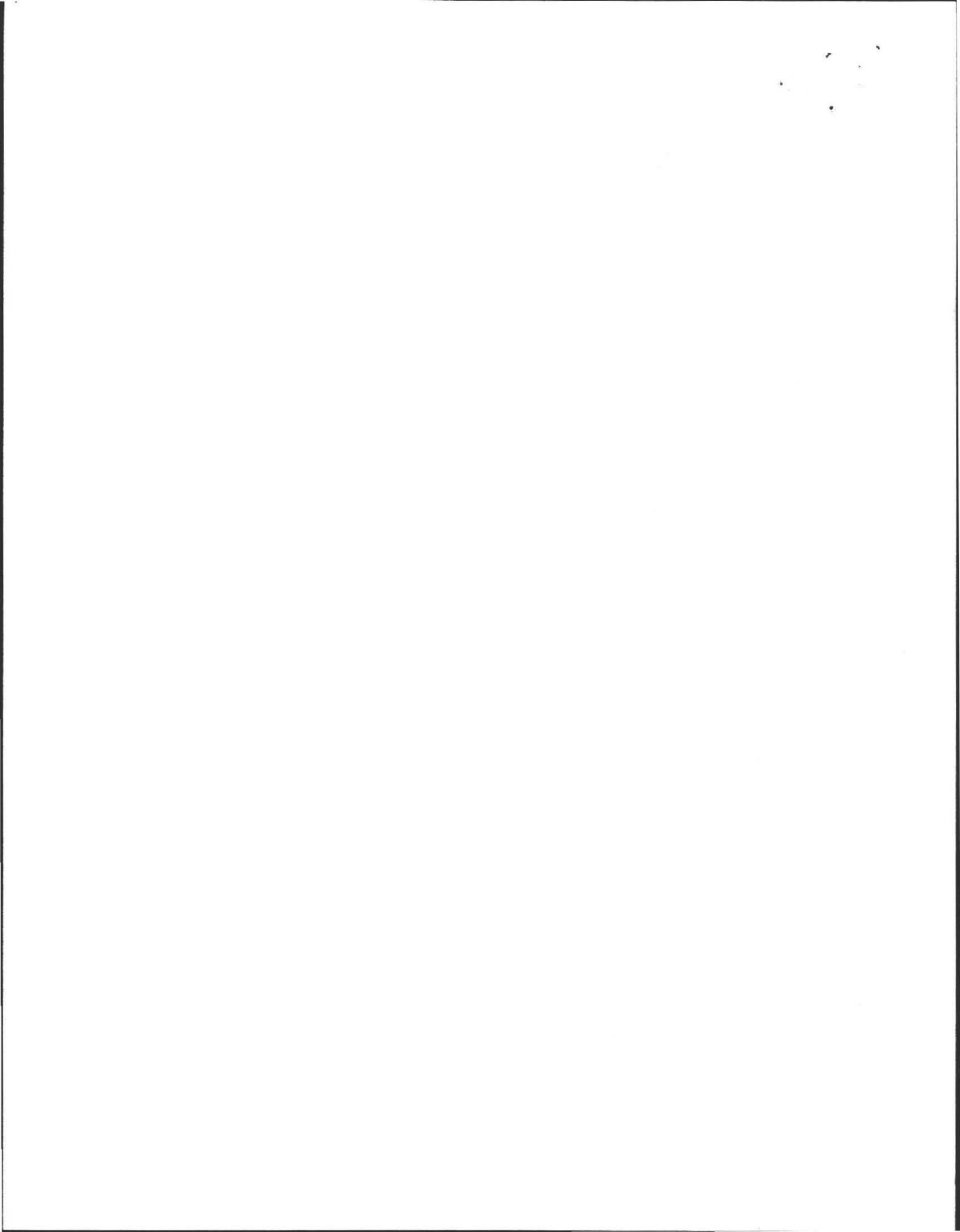
Check the box for "yes", "no" or "not determined" (Y, N, ND) for the following statements. If "not determined," please explain.

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

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

Y  N  ND (Explain below):

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





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

474 STATION ROAD

Property Address

GREGORY FIRMAN

Owner's Name

AMHERST

MA

State

01002

Zip Code

5/9/2013

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):

- |  |                            |                            |  |
|--|----------------------------|----------------------------|--|
| <input type="checkbox"/> broken pipe(s) are replaced             | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> ND (Explain below): |
| <input type="checkbox"/> obstruction is removed                  | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> ND (Explain below): |
| <input type="checkbox"/> distribution box is leveled or replaced | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> 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):

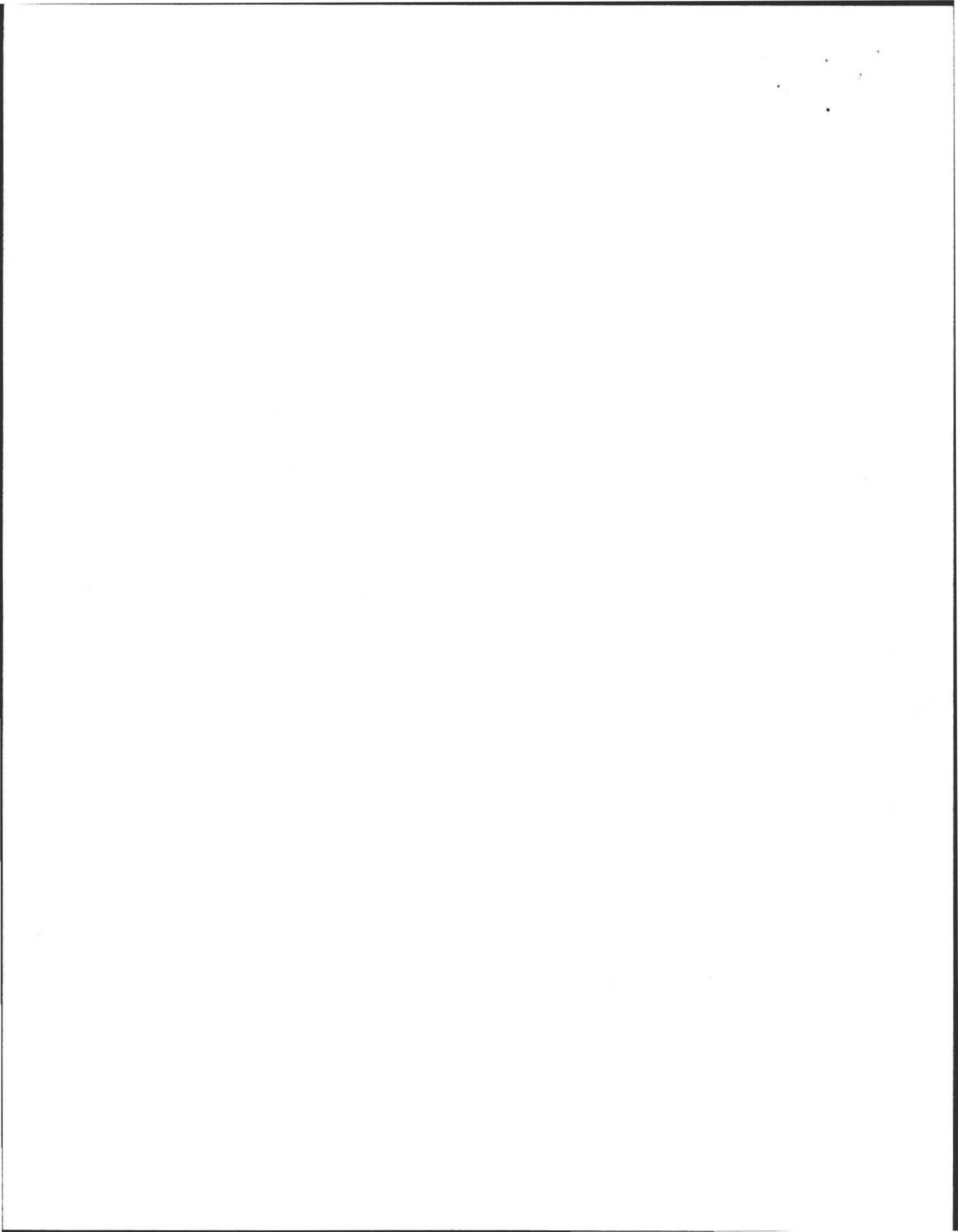
- |  |                            |                            |  |
|--|----------------------------|----------------------------|--|
| <input type="checkbox"/> broken pipe(s) are replaced | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> ND (Explain below): |
| <input type="checkbox"/> obstruction is removed      | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> 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

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

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.

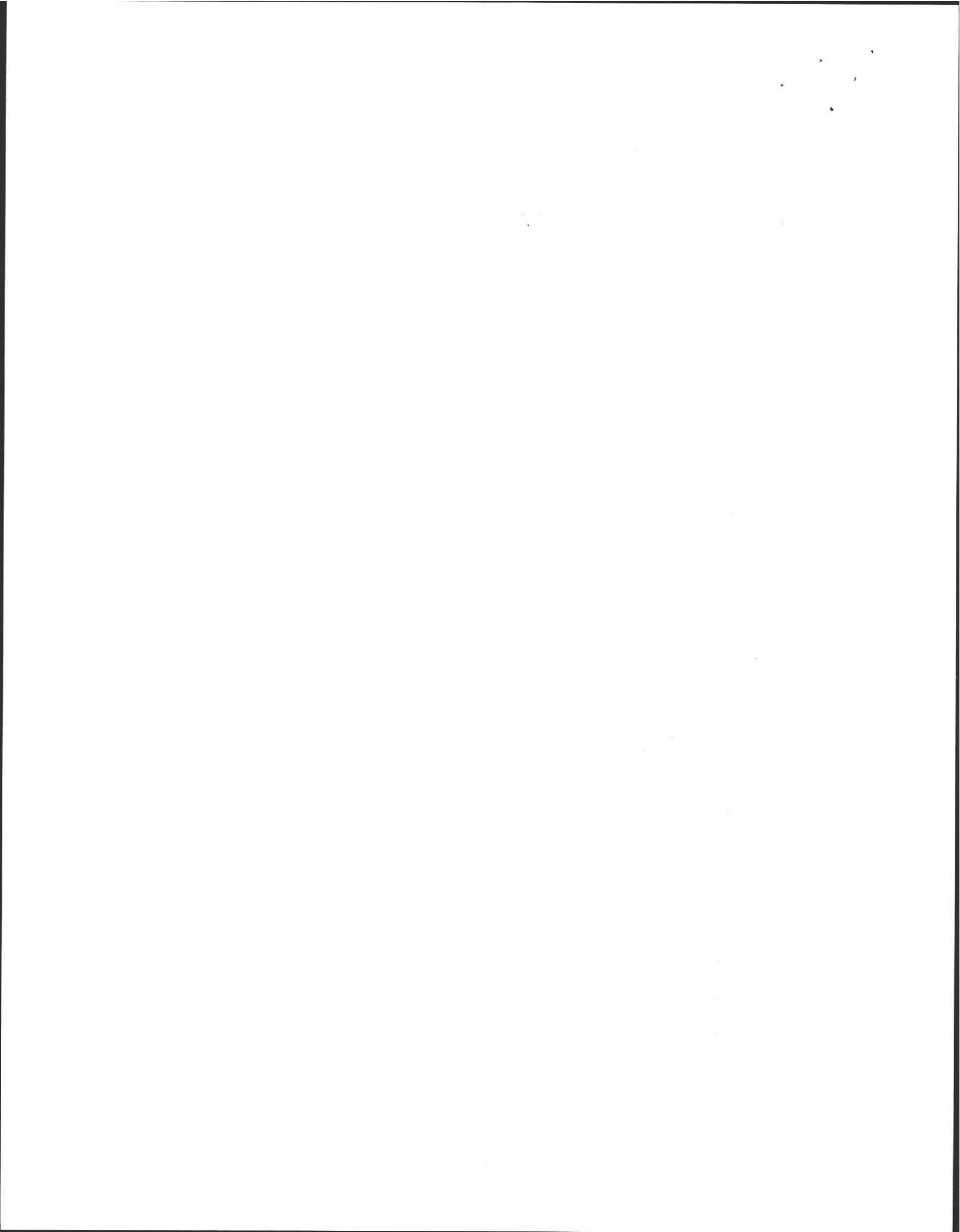
3. Other:

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

## 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 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"/> | <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

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

Owner information is required for every page.

## B. Certification (cont.)

- | Yes                      | No                                  |  |
|--------------------------|-------------------------------------|--|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Required pumping more than 4 times in the last year <b>NOT</b> 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"/> | <input checked="" type="checkbox"/> | 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"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within a Zone 1 of a public well.  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Any portion of a cesspool or privy is within 50 feet of a private water supply well.   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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.] |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | The system is a cesspool serving a facility with a design flow of 2000gpd-10,000gpd.   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <b>The system fails.</b> 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.  |

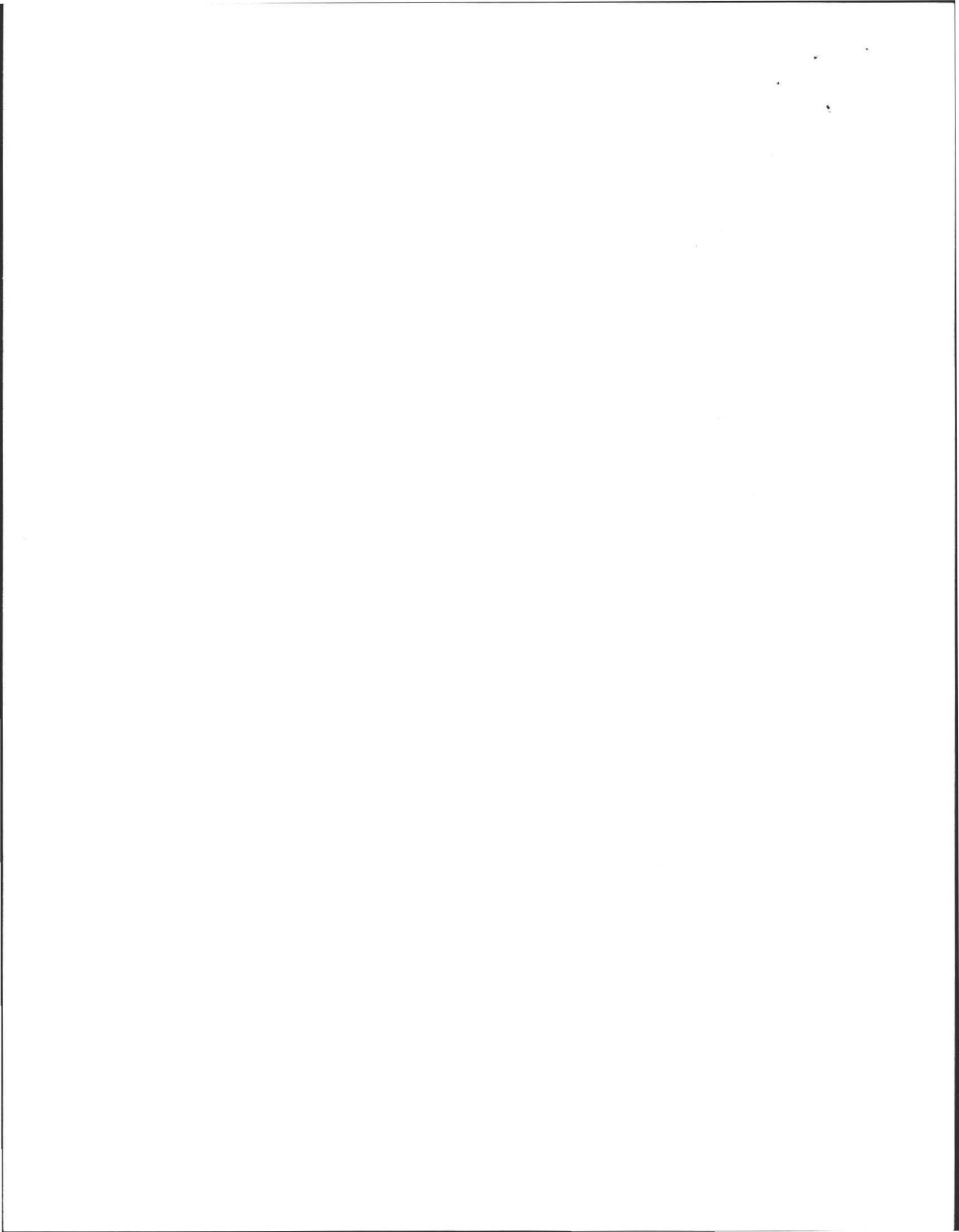
### E) Large Systems: To be considered a large system the system must serve a facility with a design flow of 10,000 gpd to 15,000 gpd.

DNA

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                       |  |
|--------------------------|--------------------------|--|
| <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.





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

Owner information is required for every page.

## C. Checklist

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

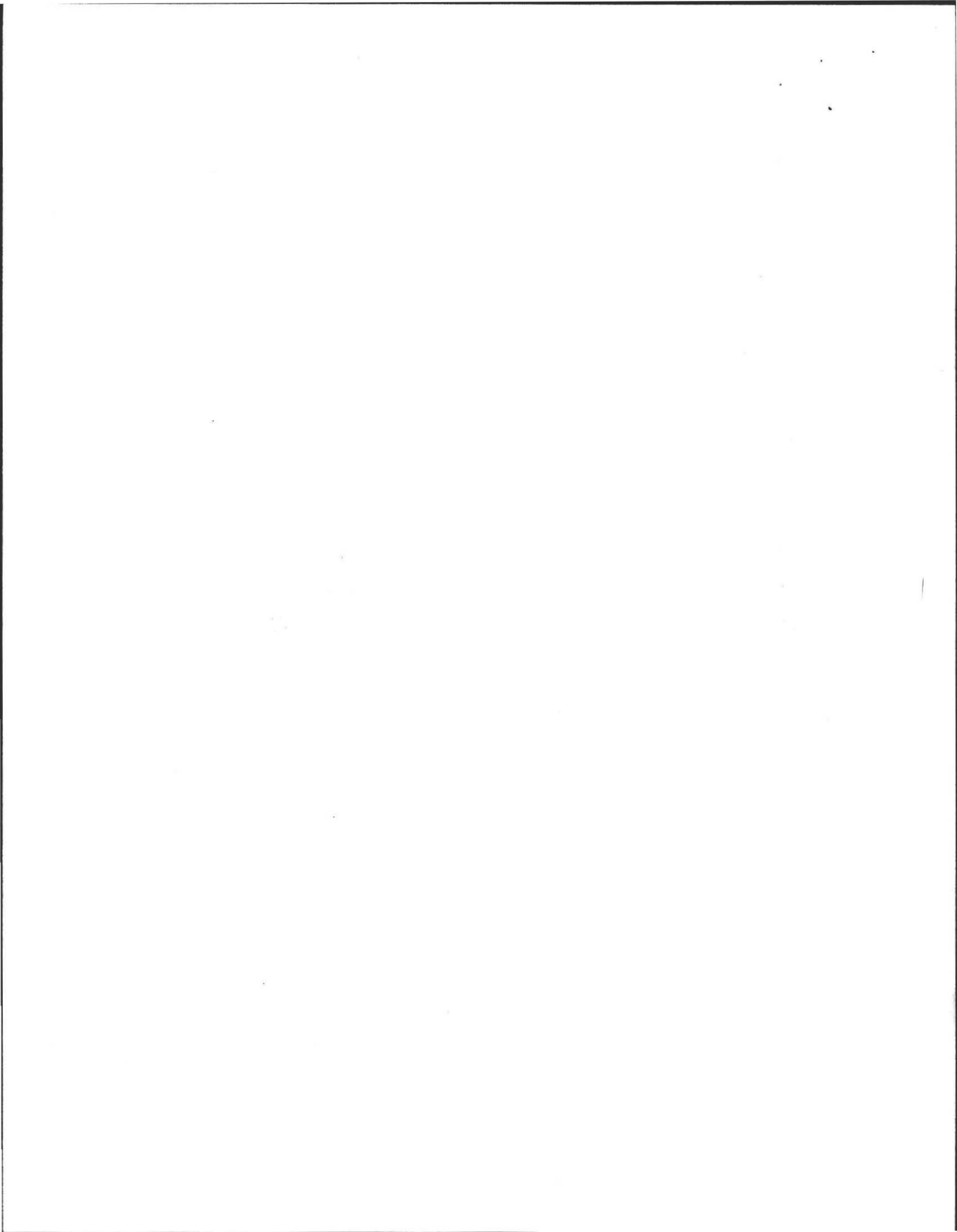
- | Yes                                 | No                                  |  |
|-------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Pumping information was provided by the owner, occupant, or Board of Health  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Were any of the system components pumped out in the previous two weeks?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Has the system received normal flows in the previous two week period?  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | Have large volumes of water been introduced to the system recently or as part of this inspection?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Were as built plans of the system obtained and examined? (If they were not available note as N/A)  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Was the facility or dwelling inspected for signs of sewage back up?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Was the site inspected for signs of break out?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Were all system components, excluding the SAS, located on site?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 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?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The <b>size and location of the Soil Absorption System (SAS)</b> on the site has been determined based on: |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Existing information. For example, a plan at the Board of Health.  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(5)]   |

## D. System Information

Residential Flow Conditions:

Number of bedrooms (design): 5 Number of bedrooms (actual): 5

DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 5 x 110 = 550 GALS DAY





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address: 474 STATION ROAD  
 Owner's Name: GREGORY FIRMAN  
 City/Town: AMHERST State: MA Zip Code: 01002 Date of Inspection: 5/9/2013

Owner information is required for every page.

## D. System Information

Description: septic system installed per plan  
5/2/2004 554 GALS/DAY

Number of current residents: 3

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)):

Detail: —

Sump pump?  Yes  No

Last date of occupancy: —  
Date

Commercial/Industrial Flow Conditions: DNA

Type of Establishment: \_\_\_\_\_

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

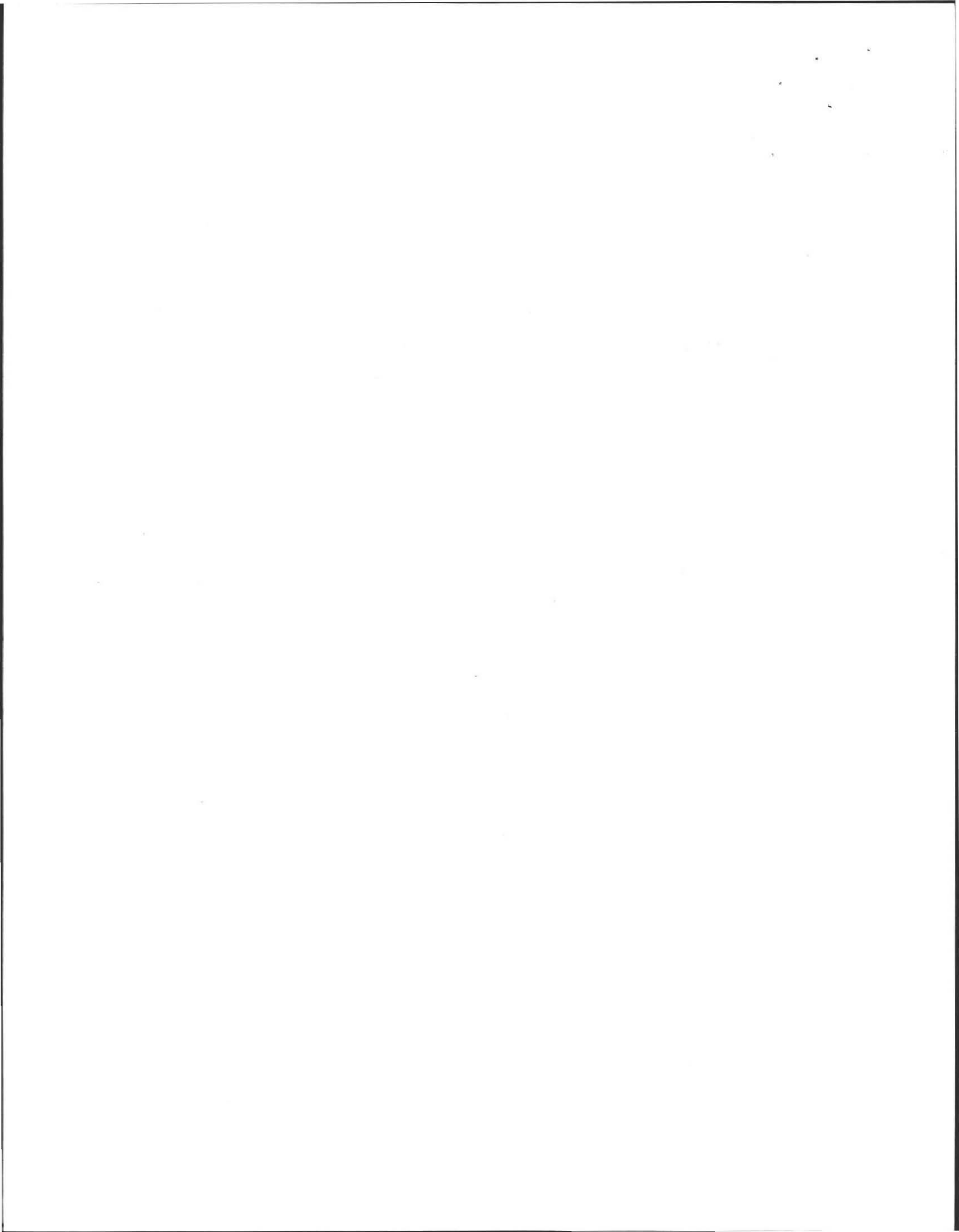
Basis of design flow (seats/persons/sq.ft., etc.): \_\_\_\_\_

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: \_\_\_\_\_







Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

Owner information is required for every page.

## D. System Information (cont.)

Last date of occupancy/use: \_\_\_\_\_ Date \_\_\_\_\_

Other (describe below):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### General Information

#### Pumping Records:

Source of information:

*system pumped every 2 yrs per owner LAST PUMPING 11/27/12 see INV.*

Was system pumped as part of the inspection?

Yes  No *NOT NEEDED*

If yes, volume pumped:

\_\_\_\_\_  
gallons

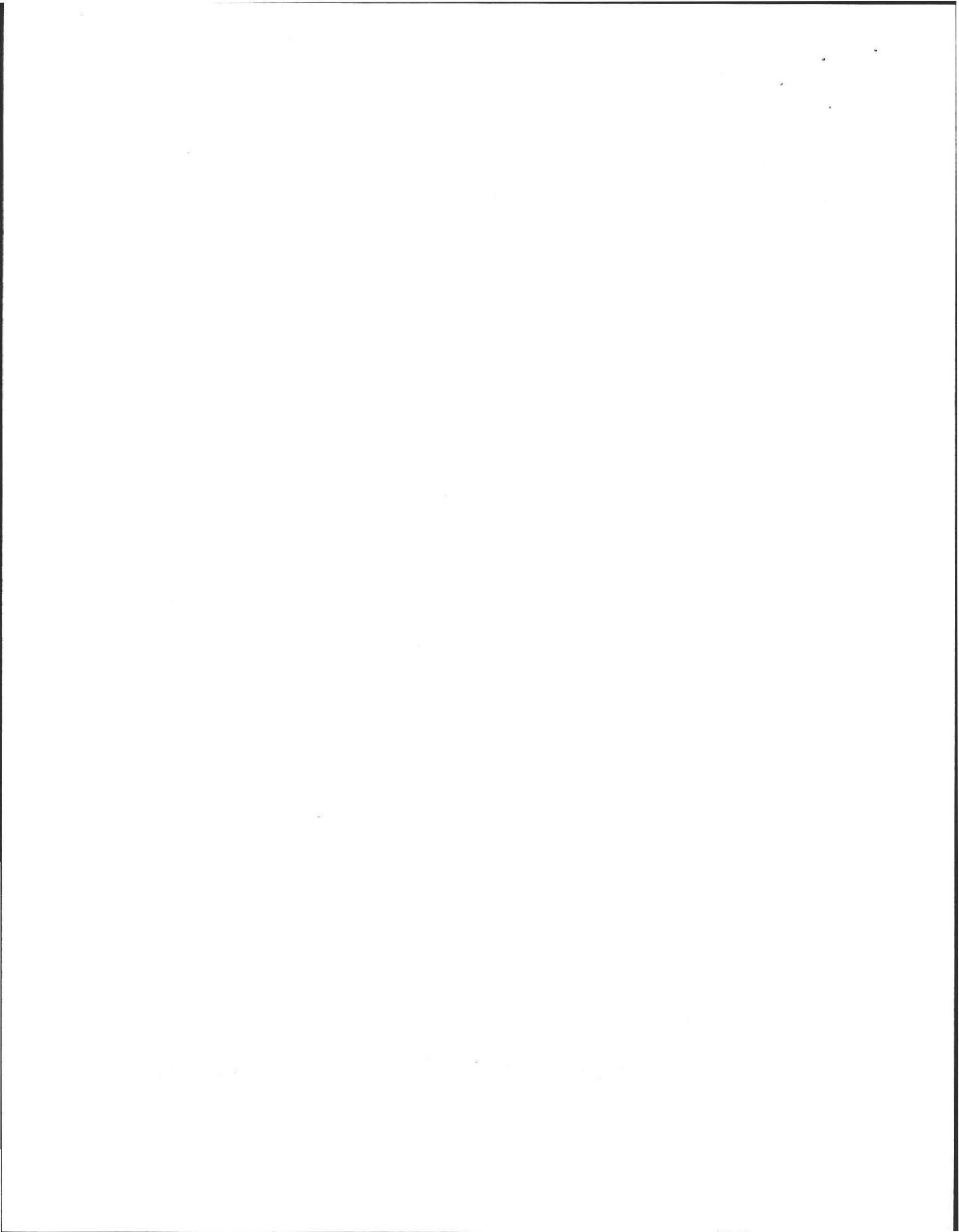
How was quantity pumped determined?

Reason for pumping:

*NOT pump, pumped in 6 mo NO SOLIDS etc*

#### 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):  
\_\_\_\_\_





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

474 STATION ROAD

Property Address

GREGORY FIRMAN

Owner's Name

AMHERST

MA

01002

5/9/2013

City/Town

State

Zip Code

Date of Inspection

Owner information is required for every page.

## D. System Information (cont.)

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

5-26-2004

Were sewage odors detected when arriving at the site?

Yes  No

Building Sewer (locate on site plan):

Depth below grade:

feet

4.5'

Material of construction:

cast iron

40 PVC

other (explain):

Distance from private water supply well or suction line:

feet

PUBLIC H<sub>2</sub>O

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

GOOD CONDITION

Septic Tank (locate on site plan):

Depth below grade:

feet

Material of construction:

concrete

metal

fiberglass

polyethylene

other (explain)

2004

NEW 1500 GAL TWO COMPARTMENT TANK

10'6" x 5' x 6' 48" FLOW LINE

If tank is metal, list age:

years

Is age confirmed by a Certificate of Compliance? (attach a copy of certificate)

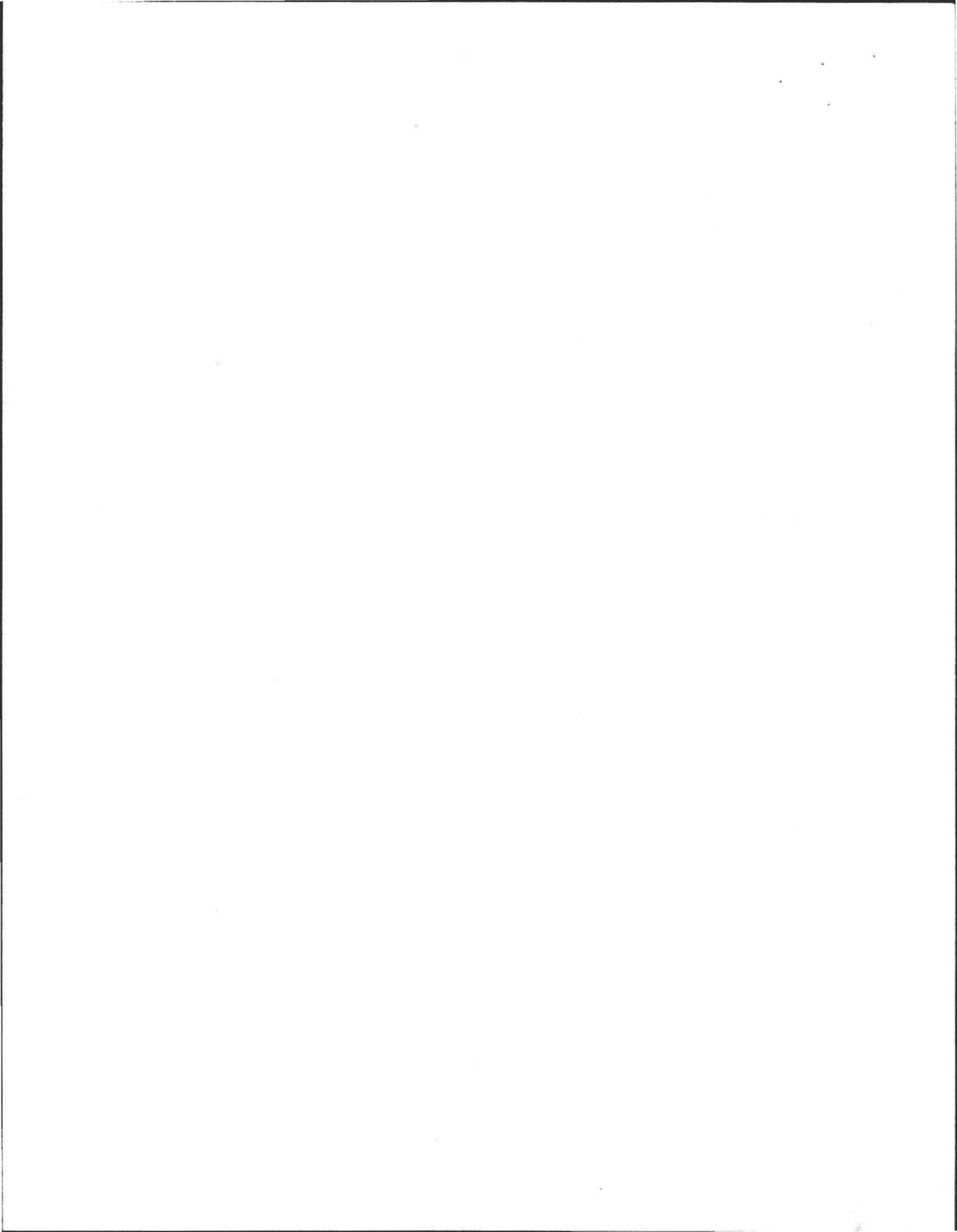
Yes  No

Dimensions:

10'6" x 5' x 6'

Sludge depth:

0" pumped 11/27/2012 see INV. ATTACHED





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

Owner information is required for every page.

## D. System Information (cont.)

### Septic Tank (cont.)

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

Scum thickness 1"

Distance from top of scum to top of outlet tee or baffle 3"

Distance from bottom of scum to bottom of outlet tee or baffle 11" ...

How were dimensions determined? measured

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

TANK IN GOOD CONDITION PVC SCH 40 TEES  
NO PROBLEMS

Grease Trap (locate on site plan): DNA

Depth below grade: \_\_\_\_\_ feet

Material of construction:

concrete     metal     fiberglass     polyethylene     other (explain):

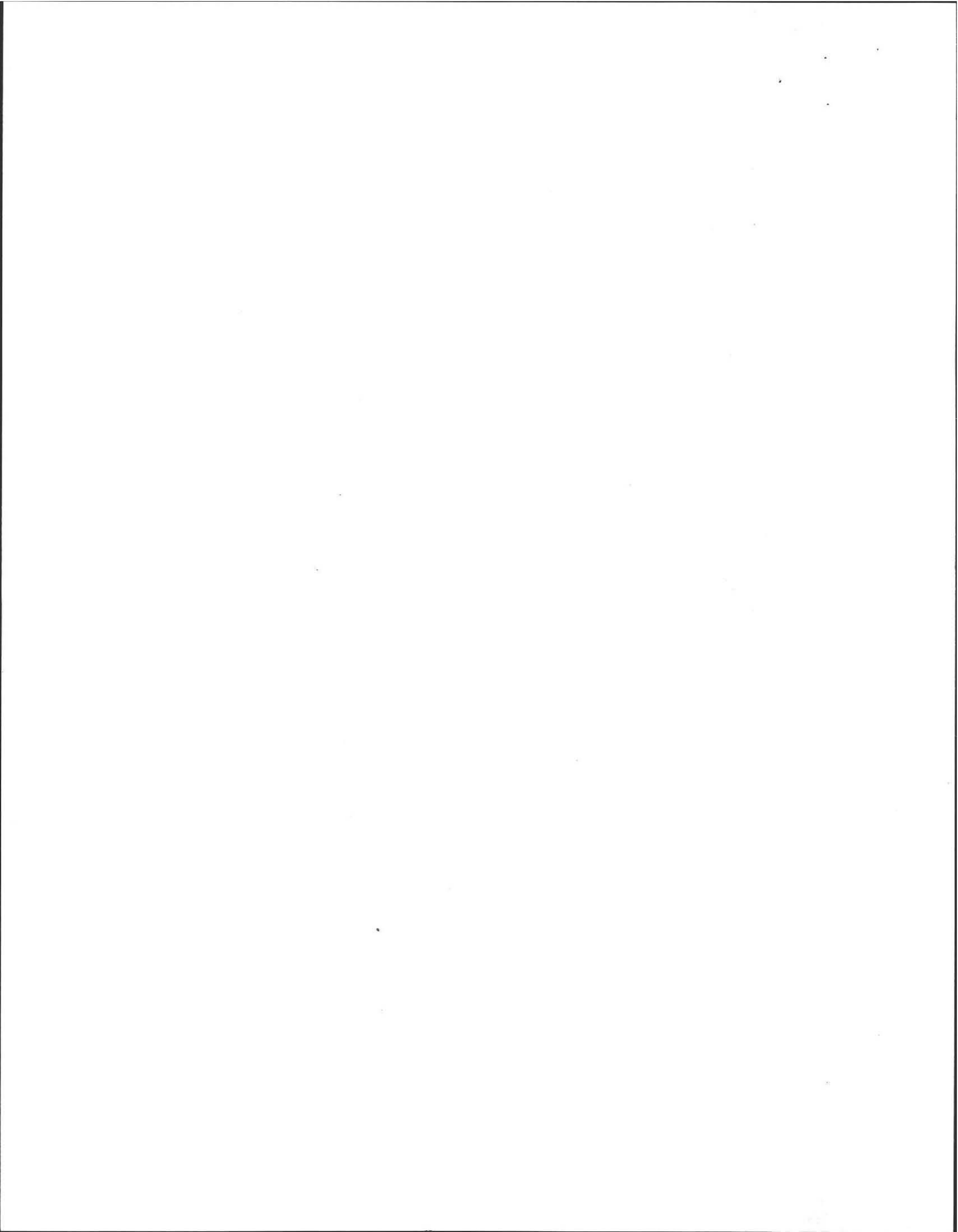
Dimensions: \_\_\_\_\_

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





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

Owner information is required for every page.

## 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.):

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

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

Depth below grade: \_\_\_\_\_

Material of construction:

concrete     metal     fiberglass     polyethylene     other (explain):

Dimensions: \_\_\_\_\_

Capacity: \_\_\_\_\_ gallons

Design Flow: \_\_\_\_\_ gallons per day

Alarm present:  Yes     No

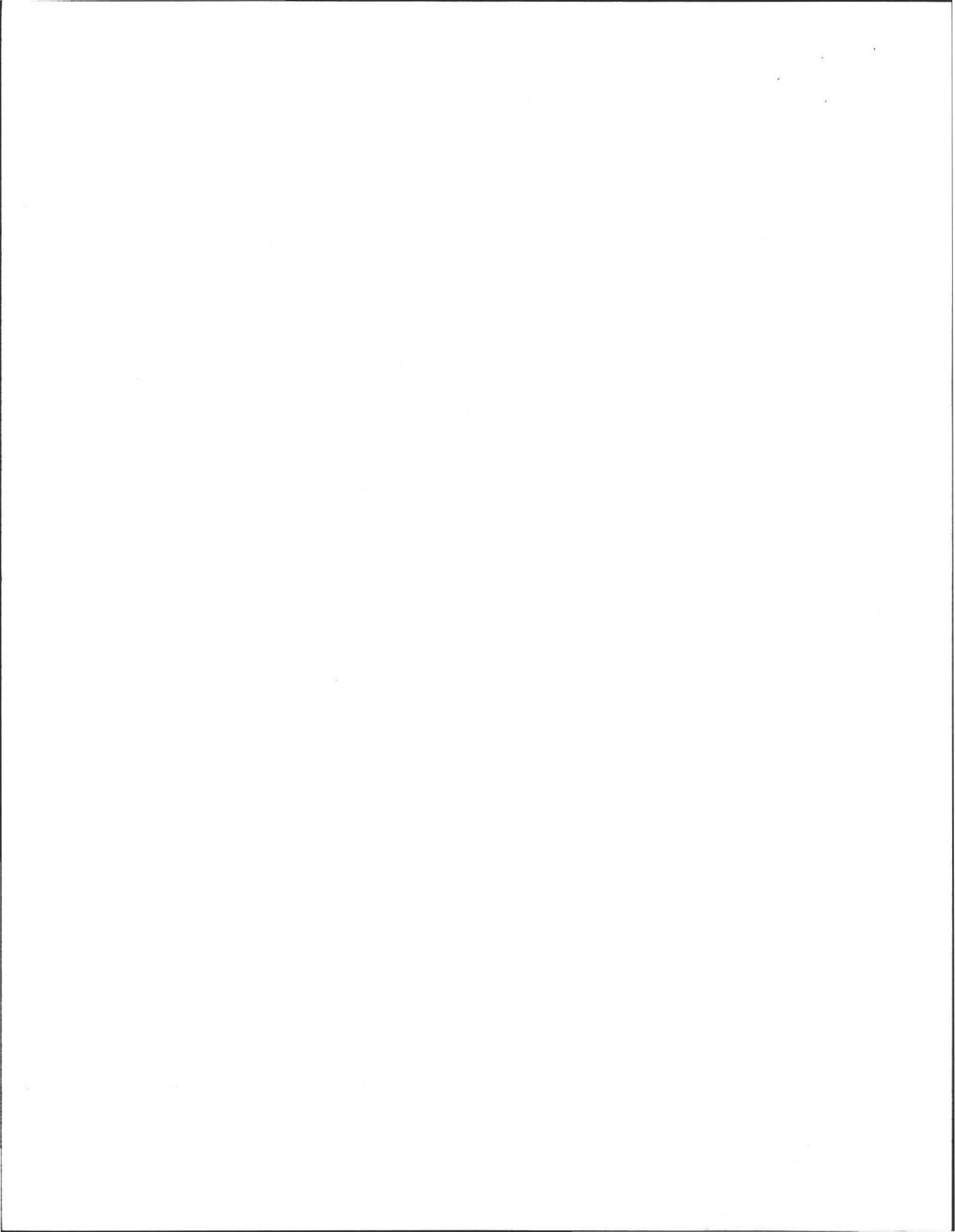
Alarm level: \_\_\_\_\_ Alarm in working order:  Yes     No

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







Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

474 STATION ROAD

Property Address

GREGORY FIRMAN

Owner's Name

AMHERST

MA

01002

5/9/2013

City/Town

State

Zip Code

Date of Inspection

Owner information is required for every page.

## D. System Information (cont.)

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

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 IN GOOD CONDITION, SELF LABELERS IN PROPER ADJUSTMENT.

Pump Chamber (locate on site plan):

ON 1A

Pumps in working order:

Yes  No

Alarms in working order:

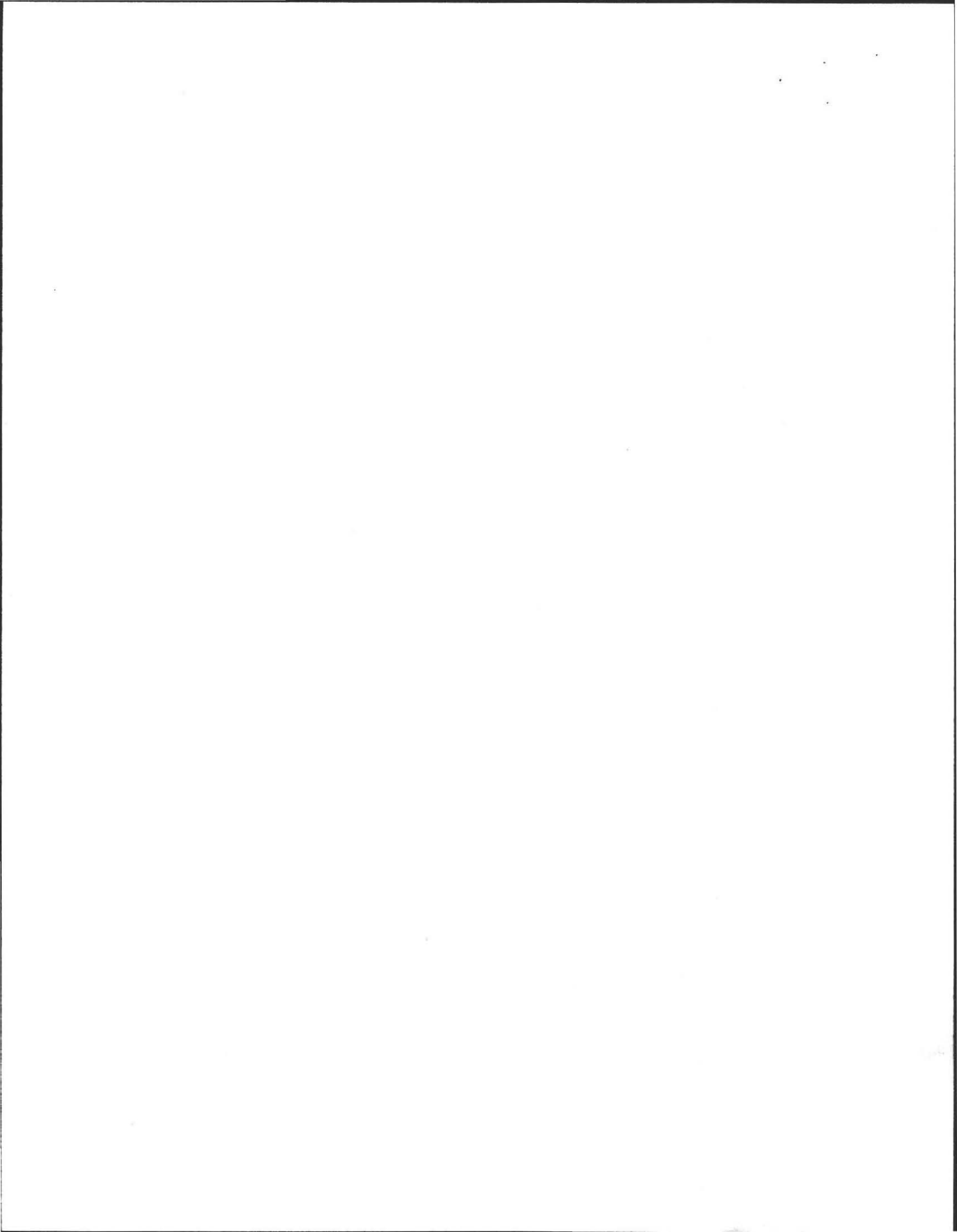
Yes  No

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:

2 TRENCH TRENCHES  
49' LONG EFFECTIVE DEPTH 24"  
EFFECTIVE WIDTH 3'.5' (41")  
SEE ATTACHED PLAN.





# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner information is required for every page.

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

## D. System Information (cont.)

Type:

- leaching pits number: \_\_\_\_\_
- leaching chambers number: \_\_\_\_\_
- leaching galleries number: \_\_\_\_\_
- leaching trenches number, length: 2 - 42" x 24" x 49
- 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.):

TOTAL BOTTOM AREA 343 FT<sup>2</sup>

SIDE WALLS 410 FT<sup>2</sup>

TOTAL PERMEABILITY

(343 + 410) x .74 = 554 GALS/DAY

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

Number and configuration \_\_\_\_\_

Depth - top of liquid to inlet invert \_\_\_\_\_

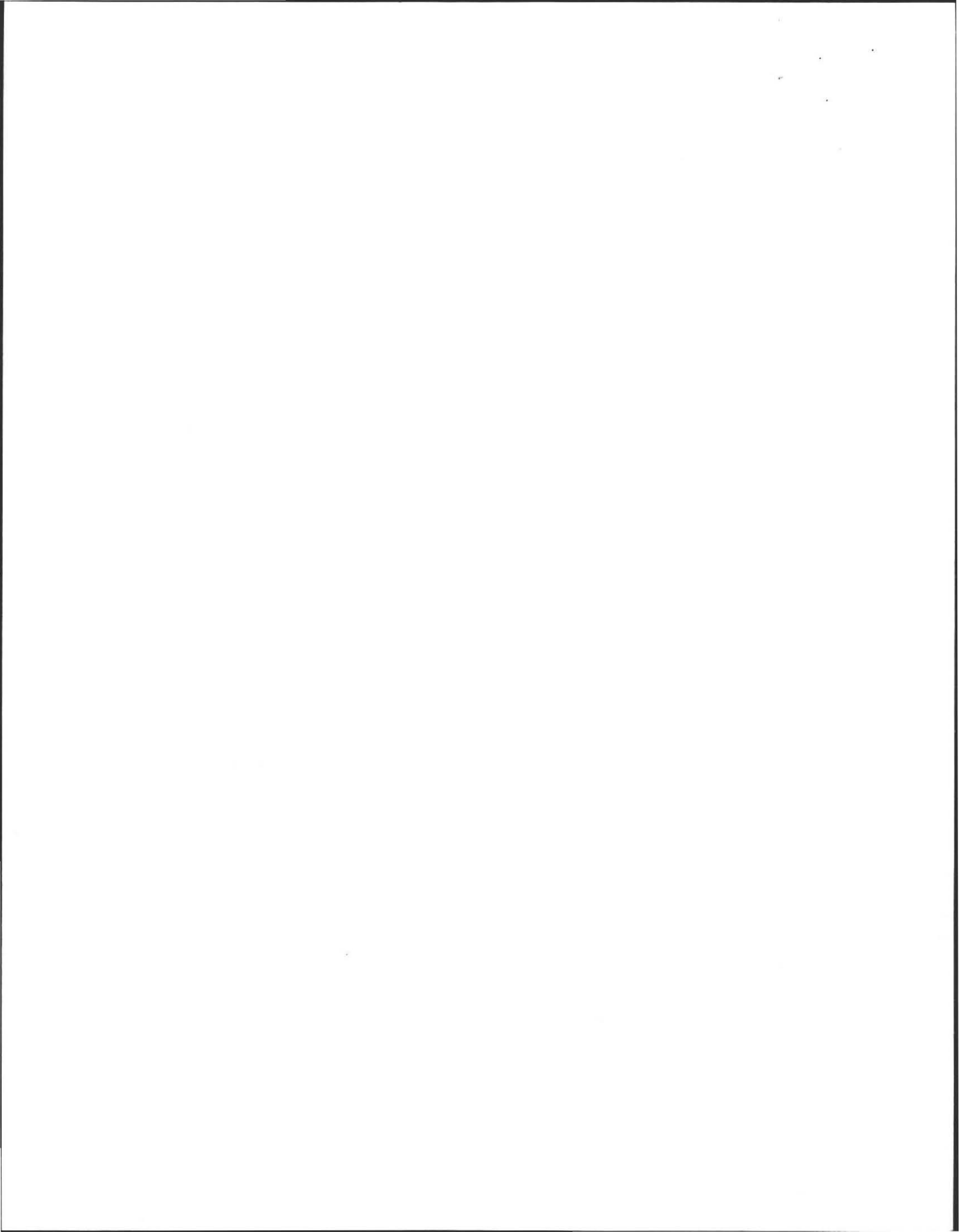
Depth of solids layer \_\_\_\_\_

Depth of scum layer \_\_\_\_\_

Dimensions of cesspool \_\_\_\_\_

Materials of construction \_\_\_\_\_

Indication of groundwater inflow  Yes  No





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

474 STATION ROAD

Property Address

GREGORY FIRMAN

Owner's Name

AMHERST

MA

01002

5/9/2013

City/Town

State

Zip Code

Date of Inspection

Owner information is required for every page.

## 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): *DNA*

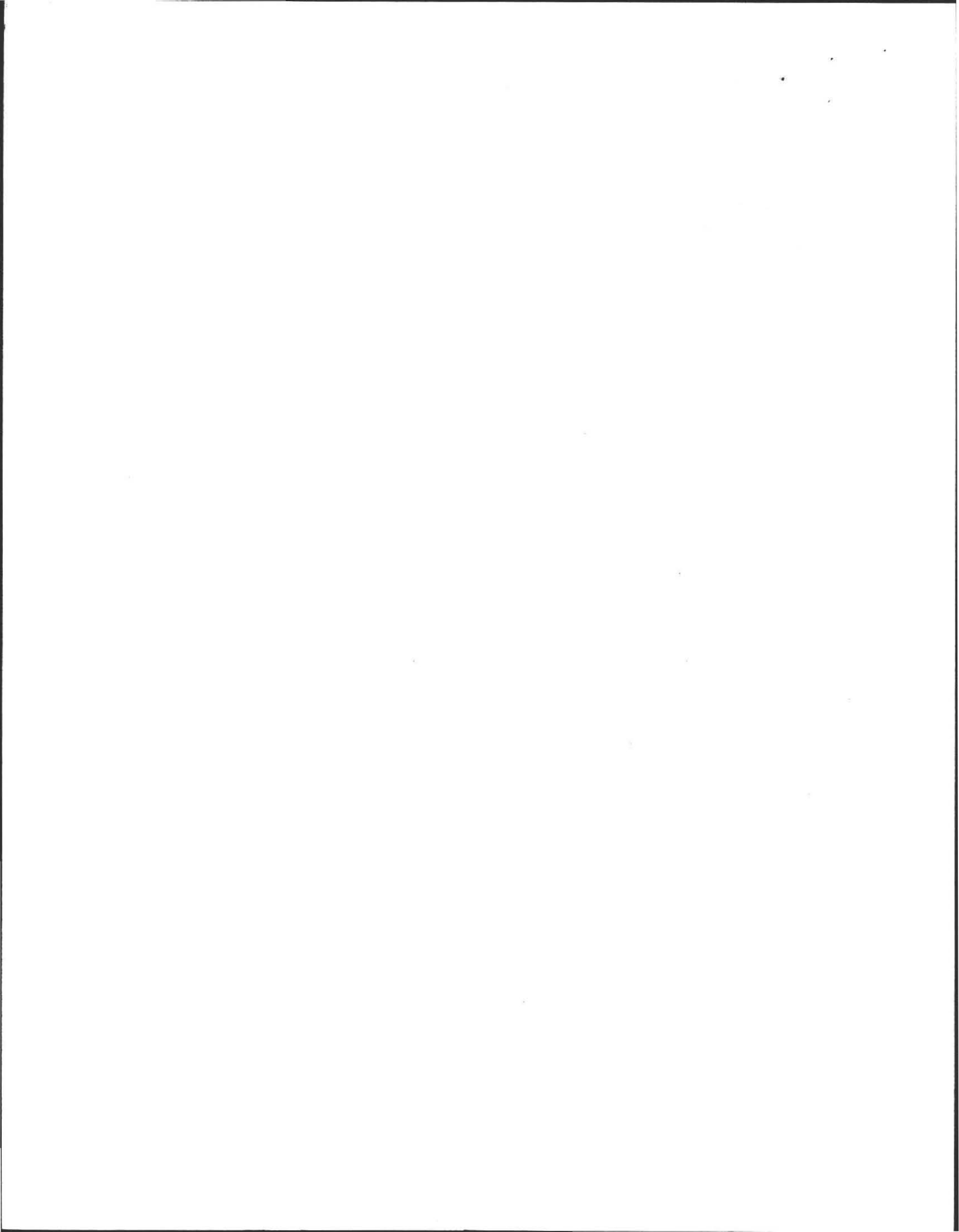
Materials of construction: \_\_\_\_\_

Dimensions \_\_\_\_\_

Depth of solids \_\_\_\_\_

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

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





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

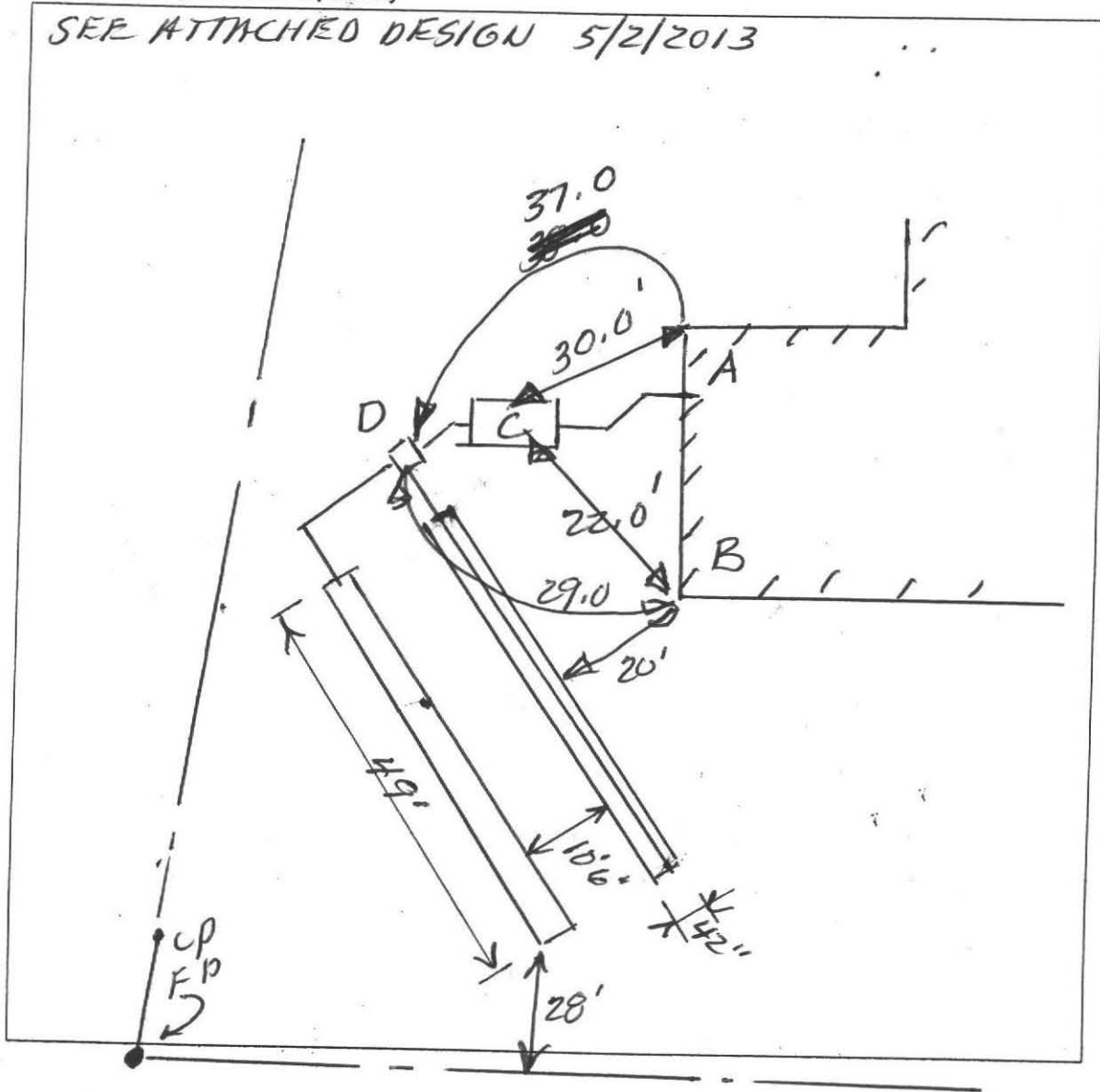
Owner information is required for every page.

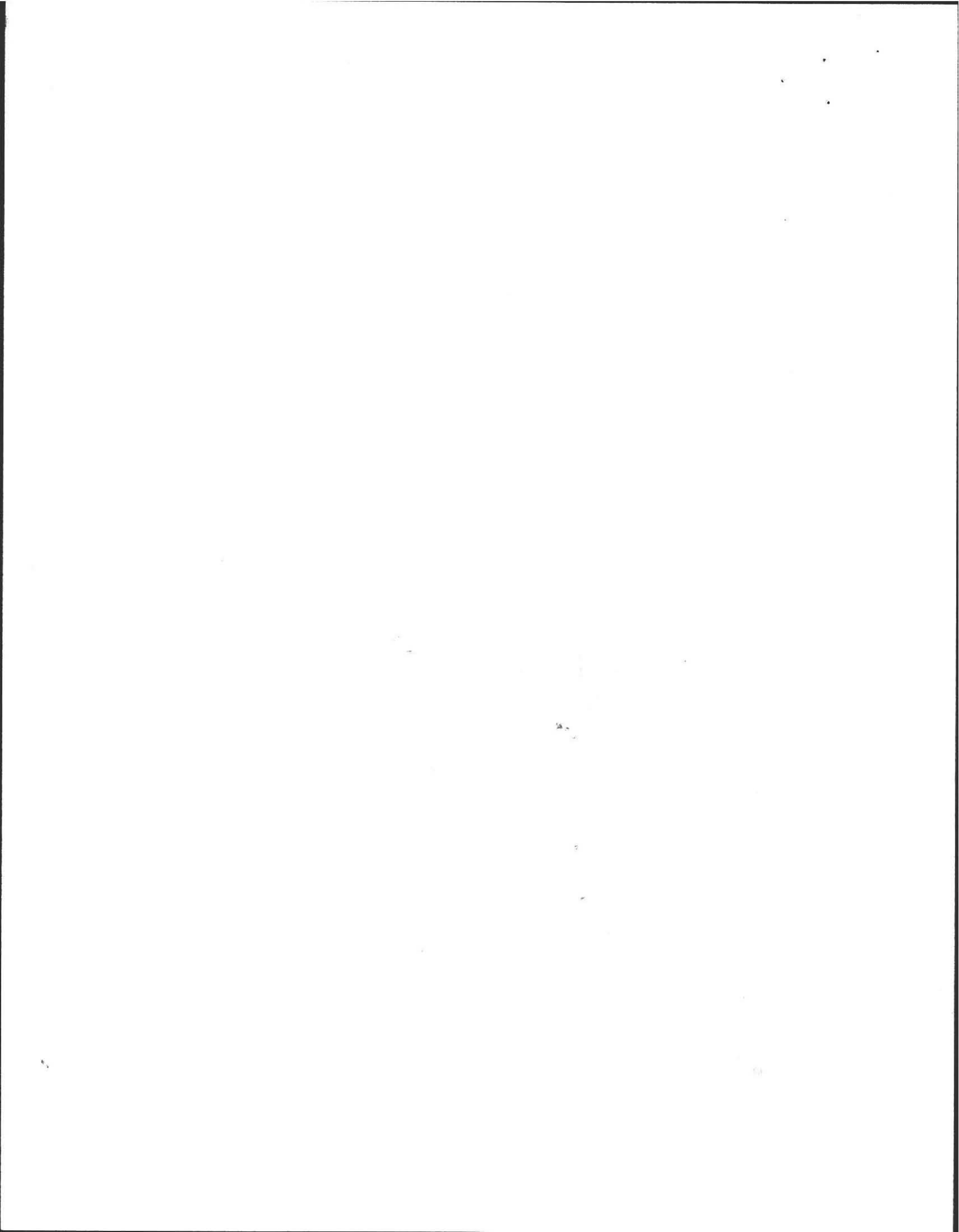
## D. System Information (cont.)

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

SEE ATTACHED DESIGN 5/2/2013









Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address 474 STATION ROAD

Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

Owner information is required for every page.

## D. System Information (cont.)

### Site Exam:

Check Slope

Surface water

Check cellar

Shallow wells

Estimated depth to high ground water: 8 FT SEE DESIGN PLAN feet

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

Obtained from system design plans on record

PERCOLATION test 1-6-04  
A WEIS

If checked, date of design plan reviewed: 5/2/2004 Date

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

Checked with local Board of Health - explain:

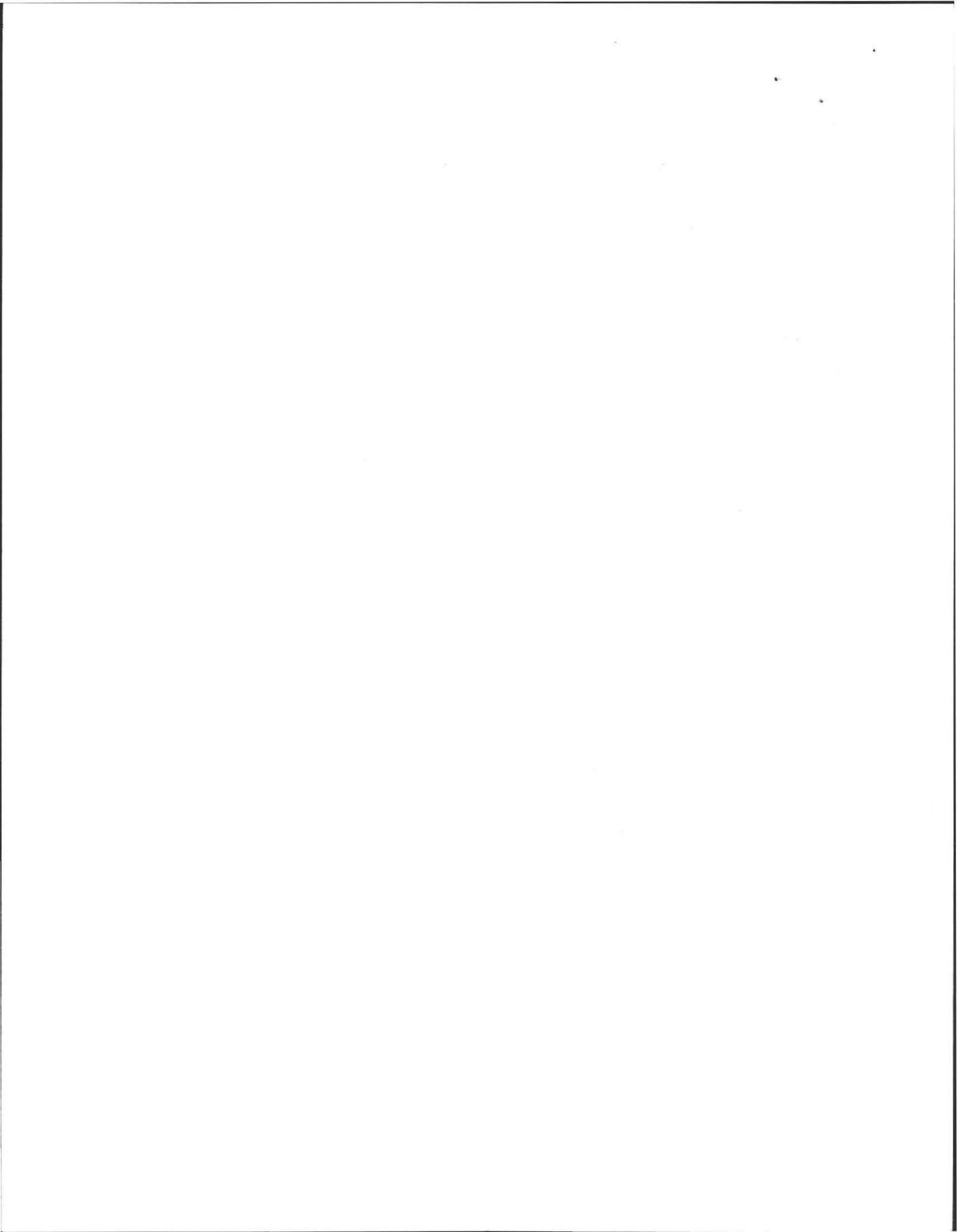
Checked with local excavators, installers - (attach documentation)

Accessed USGS database - explain:

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

SEE ORIGINAL PERCOLATION TEST 1-6-04  
SEE SEPTIC SYSTEM PLANS 5-2-2004  
WJS

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





Commonwealth of Massachusetts

# Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address 474 STATION ROAD

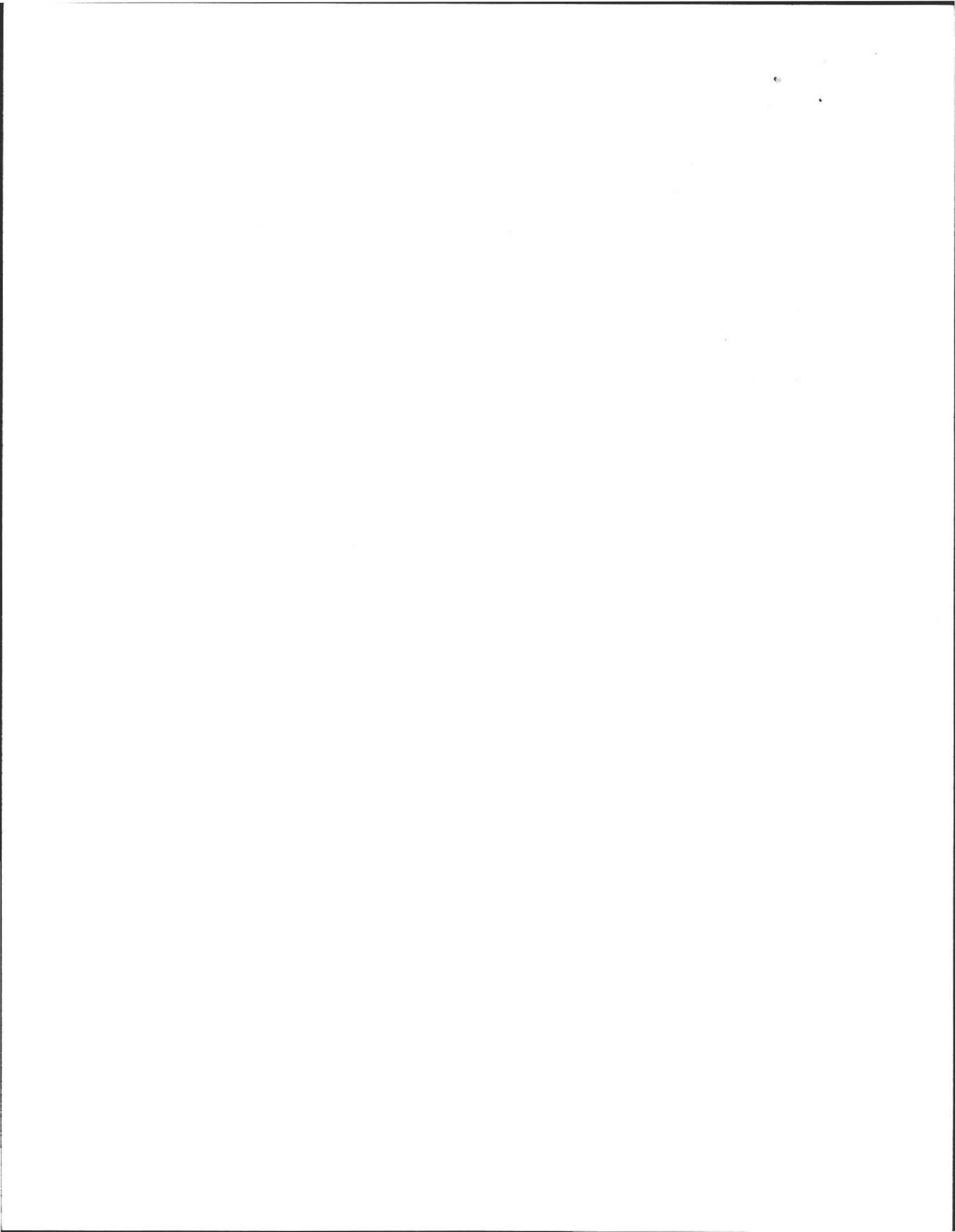
Owner's Name GREGORY FIRMAN

City/Town AMHERST State MA Zip Code 01002 Date of Inspection 5/9/2013

Owner information is required for every page.

## 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

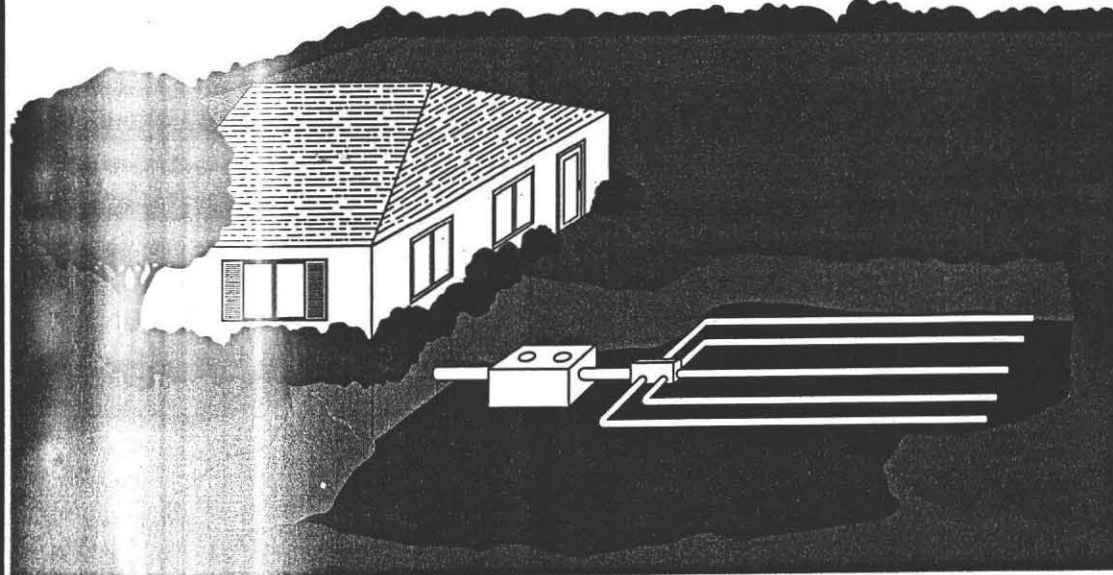


## Septic Systems Explained

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

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

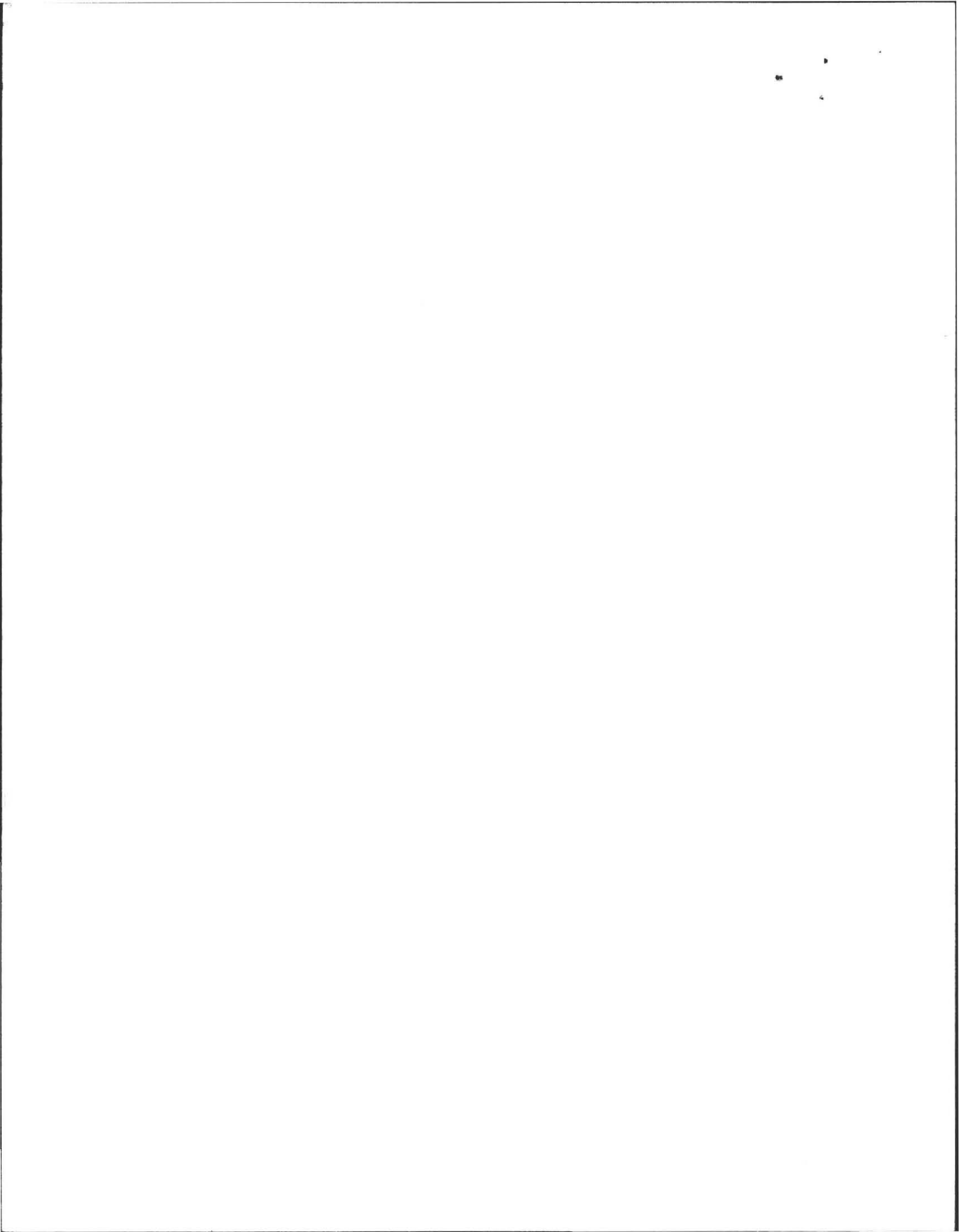
### *A Conventional Septic System*



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

*Your septic system treats your household wastewater by temporarily holding it in the **septic tank** where heavy solids and lighter scum are allowed to separate from the wastewater. This separation process is known as **primary treatment**. The solids stored in the tank are decomposed by bacteria and later removed, along with the lighter scum, by a professional septic tank pumper.*

*After the partially treated wastewater leaves the tank, it flows into a **distribution box**, which separates this flow evenly into a network of **drainfield trenches**. Drainage holes at the bottom of each line allow the wastewater to drain into gravel trenches for temporary storage. This **effluent** then slowly seeps into the subsurface soil where it is further treated and purified (**secondary treatment**).*



# Caring for Your Septic System

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

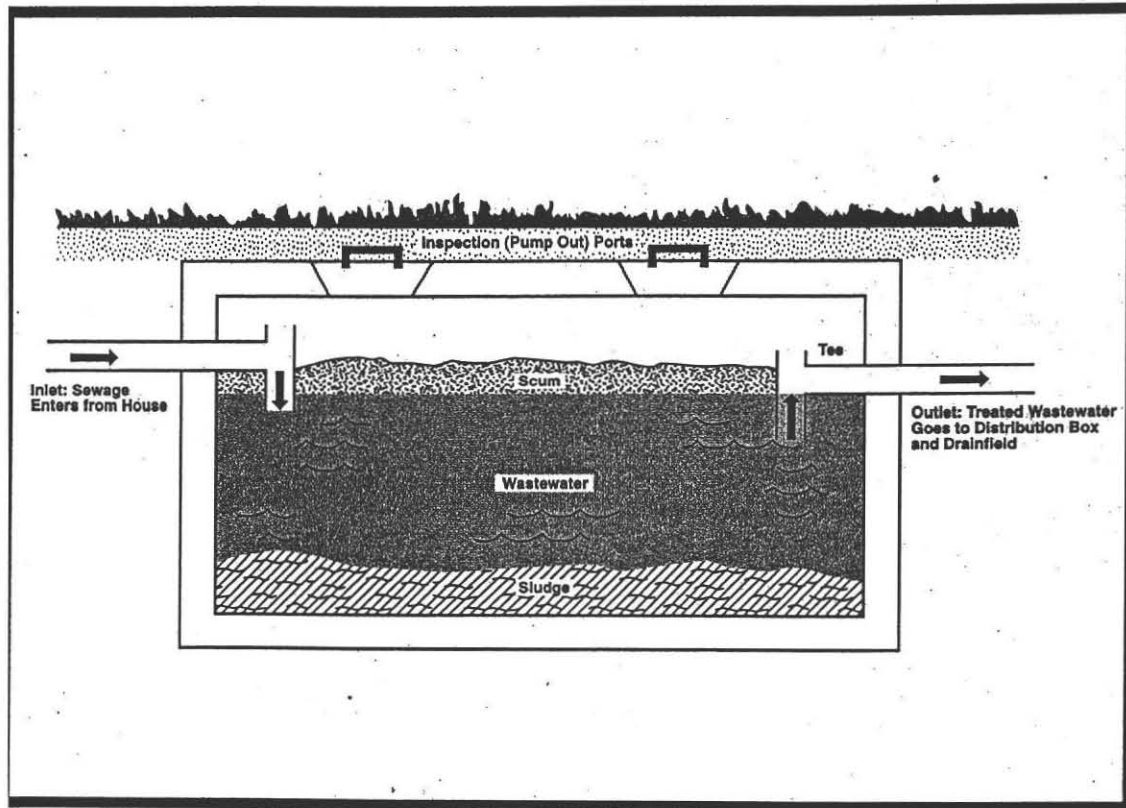
Neglect or abuse of your septic system can cause it to fail. Failing septic systems can

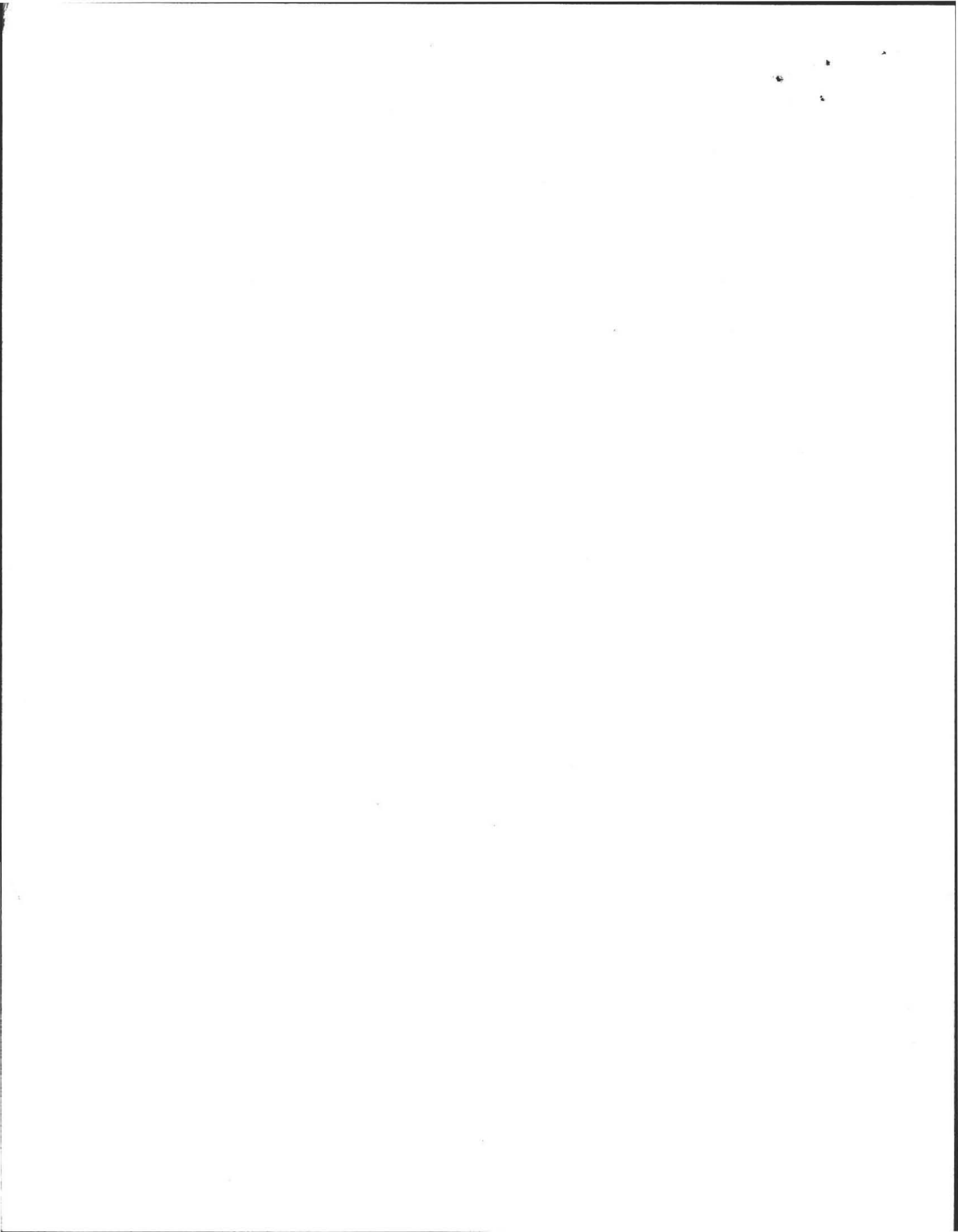
- cause a serious health threat to your family and neighbors,
- degrade the environment, especially lakes, streams and groundwater,
- reduce the value of your property,
- be very expensive to repair, and

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

Be alert to these warning signs of a failing system:

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

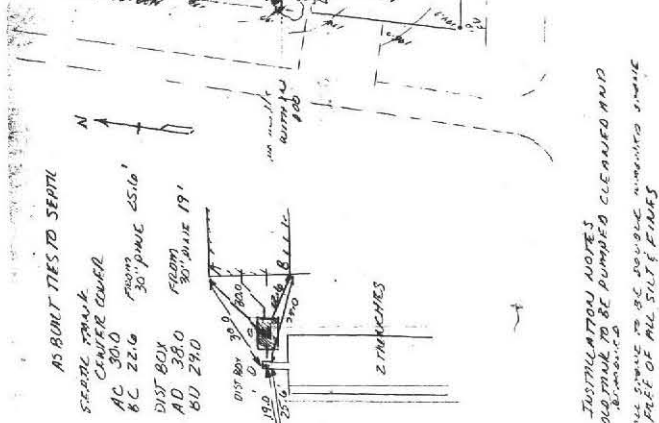
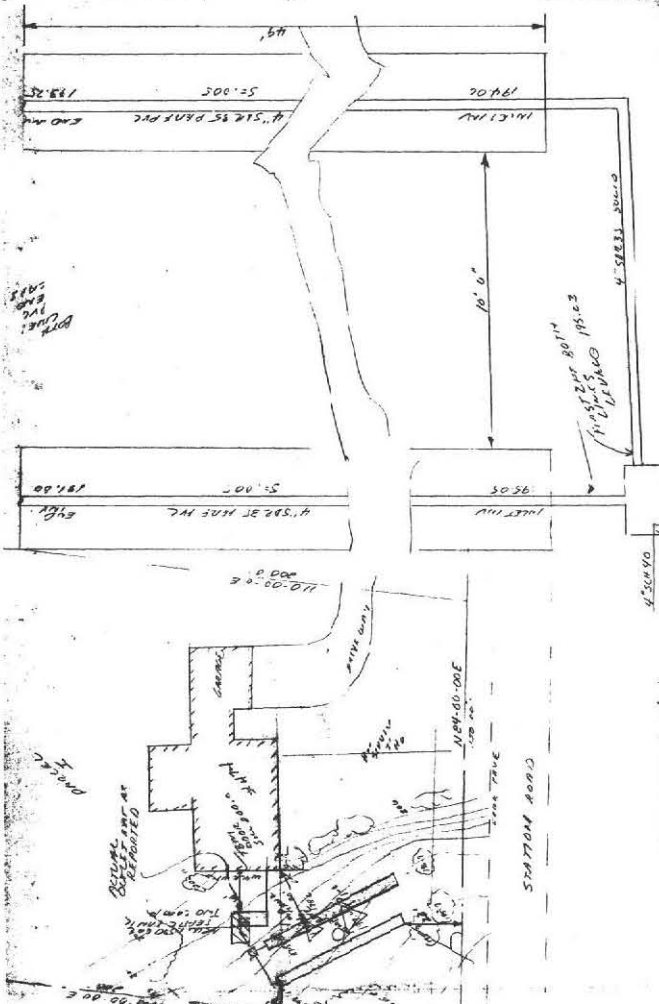








GREGORY FIRM, INC.  
 1000 KENNEDY FLYING WING  
 SUITE 200  
 RALEIGH, NC 27601  
 DATE: MAY 2, 2007



**AS BUILT TIES TO SEPTIC**

SEPTIC TANK  
 CENTER COORD  
 AC 301.0 FROM 30" P.I.V. 251.6'  
 BC 222.6 FROM 30" P.I.V. 191.1'  
 DIST BOX FROM 30" P.I.V. 191.1'  
 AD 38.0 FROM 30" P.I.V. 191.1'  
 BU 24.0 FROM 30" P.I.V. 191.1'

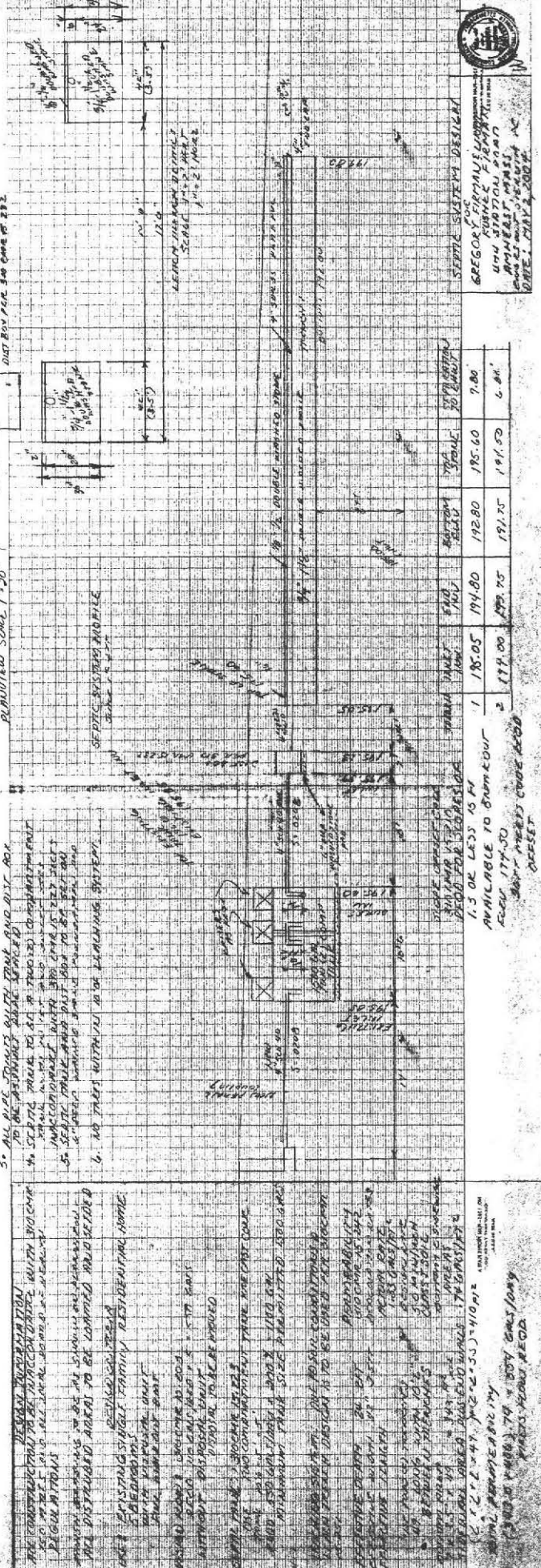
2 INCHES

NO H2O  
 NO WITTLING  
 NO WITTLING

PARC 2  
 DIMENSIONED BY 80H

DATE: 1-10-08  
 DRAWN: A. RUEISS, AS  
 CHECKED: D. ZAROWSKI, 80H  
 PROJECT: 174-50  
 DEPTH: 4'-0"

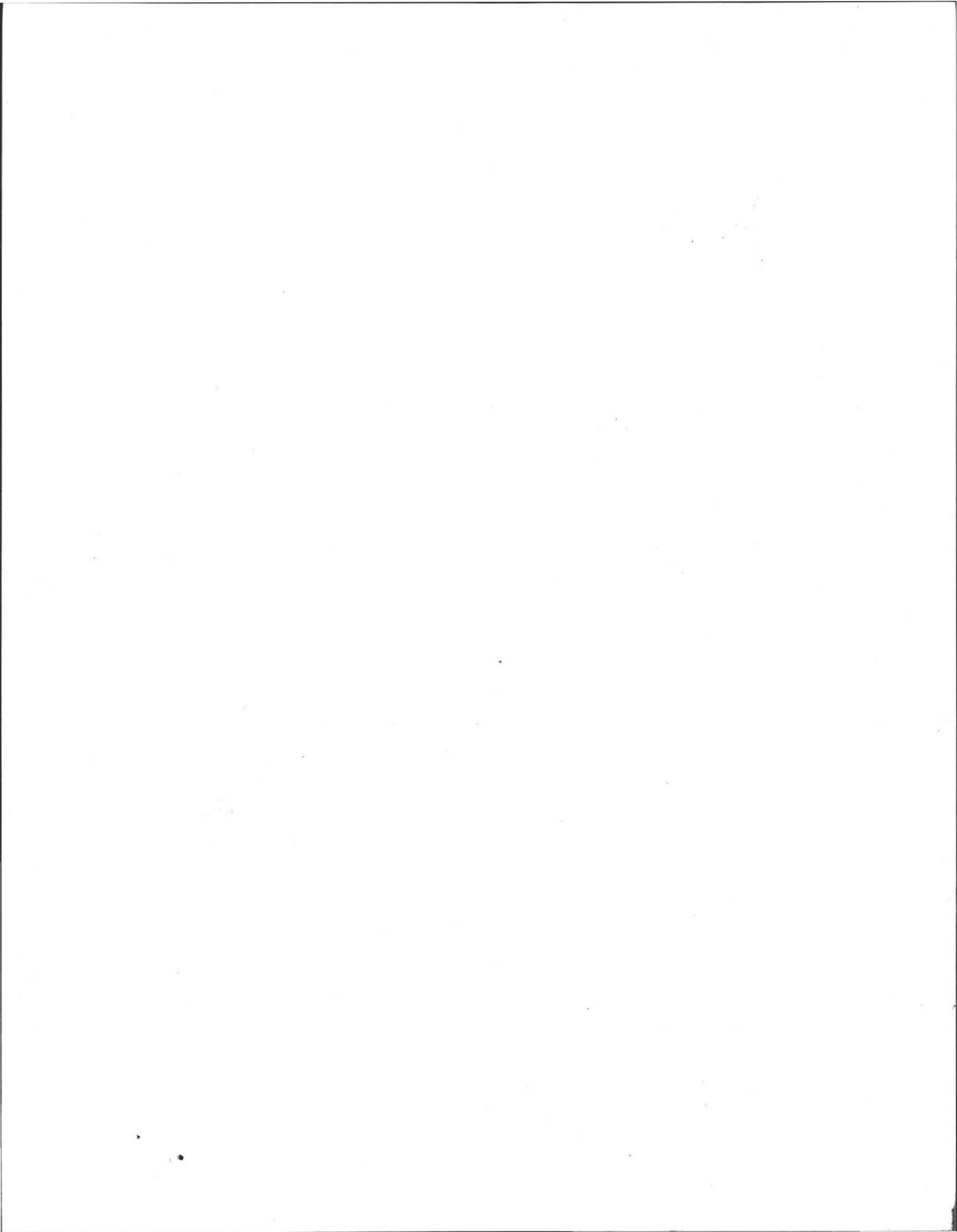
ACTUAL RATE: 1.33 MIN/INCH  
 DESIGN RATE: 3.0 MIN/INCH  
 GUESSED SOIL  
 80% SEPARATION EFF. PER  
 DUCHEME 15.12



**INSTALLATION NOTES:**

1. ALL PIPE JOINTS WITH TANK AND DIST BOX TO BE REINFORCED WITH 2" REINFORCING BARS SPACED 12" ON CENTER.
2. SEPTIC TANK TO BE PUMPED CLEANED AND 2 INCHES OF ALL SOIL PIPES.
3. ALL PIPE JOINTS WITH TANK AND DIST BOX TO BE REINFORCED WITH 2" REINFORCING BARS SPACED 12" ON CENTER.
4. SEPTIC TANK TO BE PUMPED CLEANED AND 2 INCHES OF ALL SOIL PIPES.
5. ALL PIPE JOINTS WITH TANK AND DIST BOX TO BE REINFORCED WITH 2" REINFORCING BARS SPACED 12" ON CENTER.
6. ALL TANKS WITH 1/2" DIA. LAMINATING SYSTEM.

1.5 OR LESS 10 M  
 AVAILABLE TO BROWNS  
 AREA 174-50  
 PART 174-50  
 SHEET



Adair Constructio  
 89 Potwine Lane  
 Amherst, MA 01002  
 413-253-9925

# Invoice

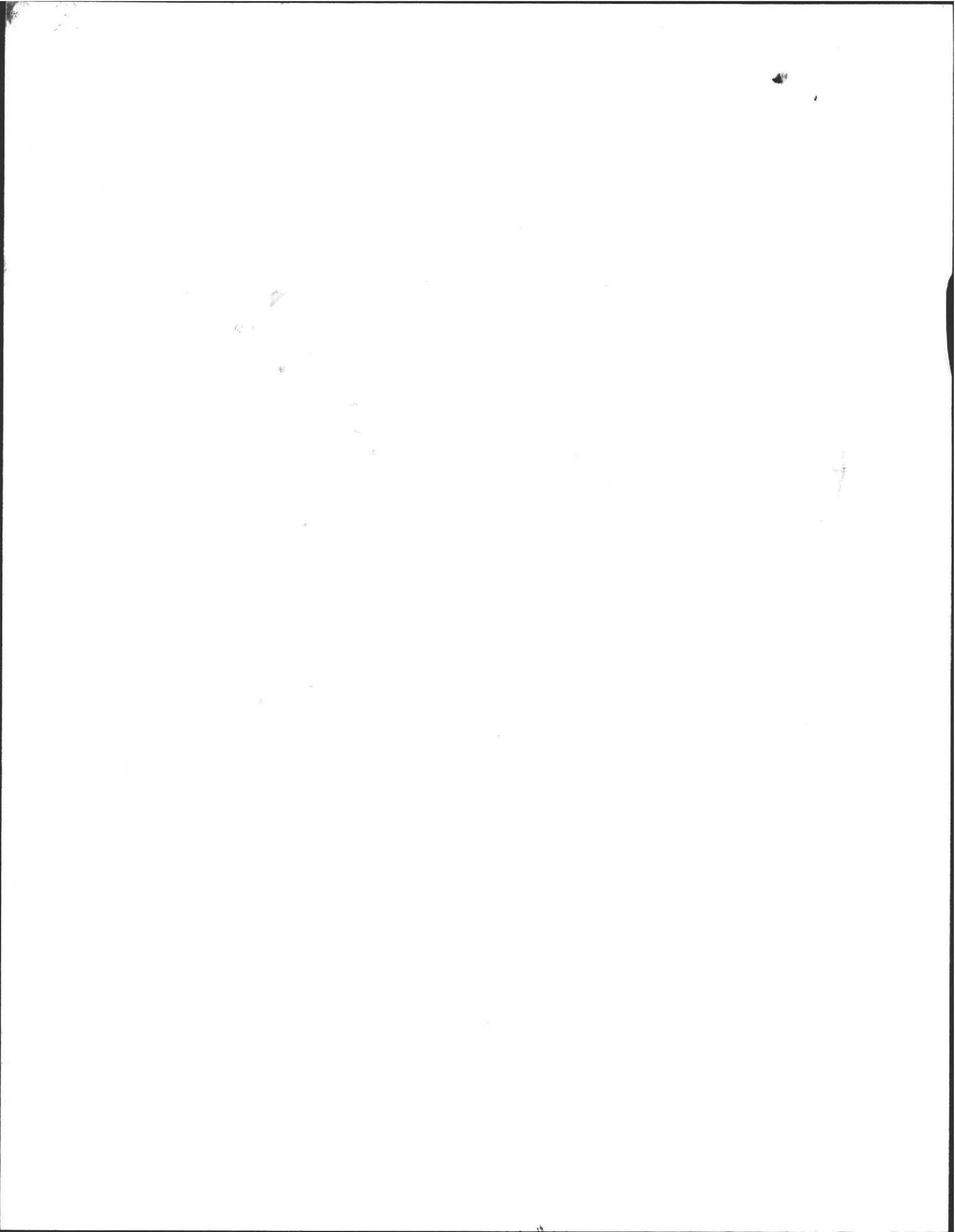
Bill To:

Gregory Firman  
 474 Station Rd.  
 Amherst, MA 10002

Date	Invoice No.	P.O. Number	Terms	Project
12/09/12	6039	253-1484	Due on receipt	

Item	Description	Quantity	Rate	Amount
11002	11/27/2012 Tuesday Septic tank pumping, waste water removal for 1500 gallon tank	1	150.00	150.00
11005	Waste Water Disposal 1530 gallons @ Hadley Waste Water slip #791137	1,530	0.13	198.90
1.5% Interest after 30 days			Total	\$348.90

*pd online  
 12/19/12  
 G.*



No. 04-01 Revised  
B.8 cents

FEE 75<sup>00</sup>  
Pi  
B.11 cents



COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

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

Location <u>G. FIRMAN</u>	Owner's Name <u>G. FIRMAN &amp; L. RUSTIKA FIRMAN</u>
Map/Parcel# <u>474 STATION ROAD</u>	Address <u>474 STATION ROAD</u>
Lot# <u>AMHERST, MASS</u>	Telephone# <u>AMHERST MASS</u>
Installer's Name <u>LOT 210 25</u>	Designer's Name <u>WILLIAM SIEKUTA PC</u>
Address	Address <u>46 UPLAND RD</u>
Telephone#	Telephone# <u>HOLYOKE MASS</u>
	<u>532 8525</u>

Type of Building RESIDENTIAL HOME Lot Size 1.37 ACRES sq. ft.  
 Dwelling - No. of Bedrooms 5+ BEDROOM Garbage grinder (NO)  
 Other - Type of Building SINGLE FAMILY No. of persons 10 Showers 3, Cafeteria ( )  
 Other Fixtures WALK OUT BMT  
 Design Flow (min. required) 110 x 5 gpd Calculated design flow 550 Design flow provided 554 gpd  
 Plan: Date MAY 2 2004 Number of sheets 1 Revision Date \_\_\_\_\_  
 Title SEPTIC SYSTEM DESIGN FOR G. FIRMAN 474 STATION RD  
 Description of Soil(s) SEE ATTACHED  
 Soil Evaluator Form No. 11 Name of Soil Evaluator A WEISS Date of Evaluation 1/6/04

DESCRIPTION OF REPAIRS OR ALTERATIONS complete septic system upgrade to 310 CMR 15.0

The undersigned agrees to install the above described Individual Sewage Disposal System in accordance with the provisions of TITLE 5 and further agrees to not to place the system in operation until a Certificate of Compliance has been issued by the Board of Health.

Signed x William Siekuta Firman Date 5-5-04

Inspections \_\_\_\_\_

No. 04-01 Revised

FEE 75<sup>00</sup>

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

CERTIFICATE OF COMPLIANCE

Description of Work:  Individual Component(s)  Complete System

The undersigned hereby certify that the Sewage Disposal System; Constructed ( ), Repaired ( ), Upgraded ( ), Abandoned ( )

by: William Siekuta

at 474 STATION RD

has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 0401R, dated \_\_\_\_\_, Approved Design Flow \_\_\_\_\_ (gpd)

Installer William Siekuta

Designer: William Siekuta Inspector: Carl Pappas Date: 5/11/04

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

No. 04-01  
Revised

FEE 75<sup>00</sup>

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Amherst, MA.

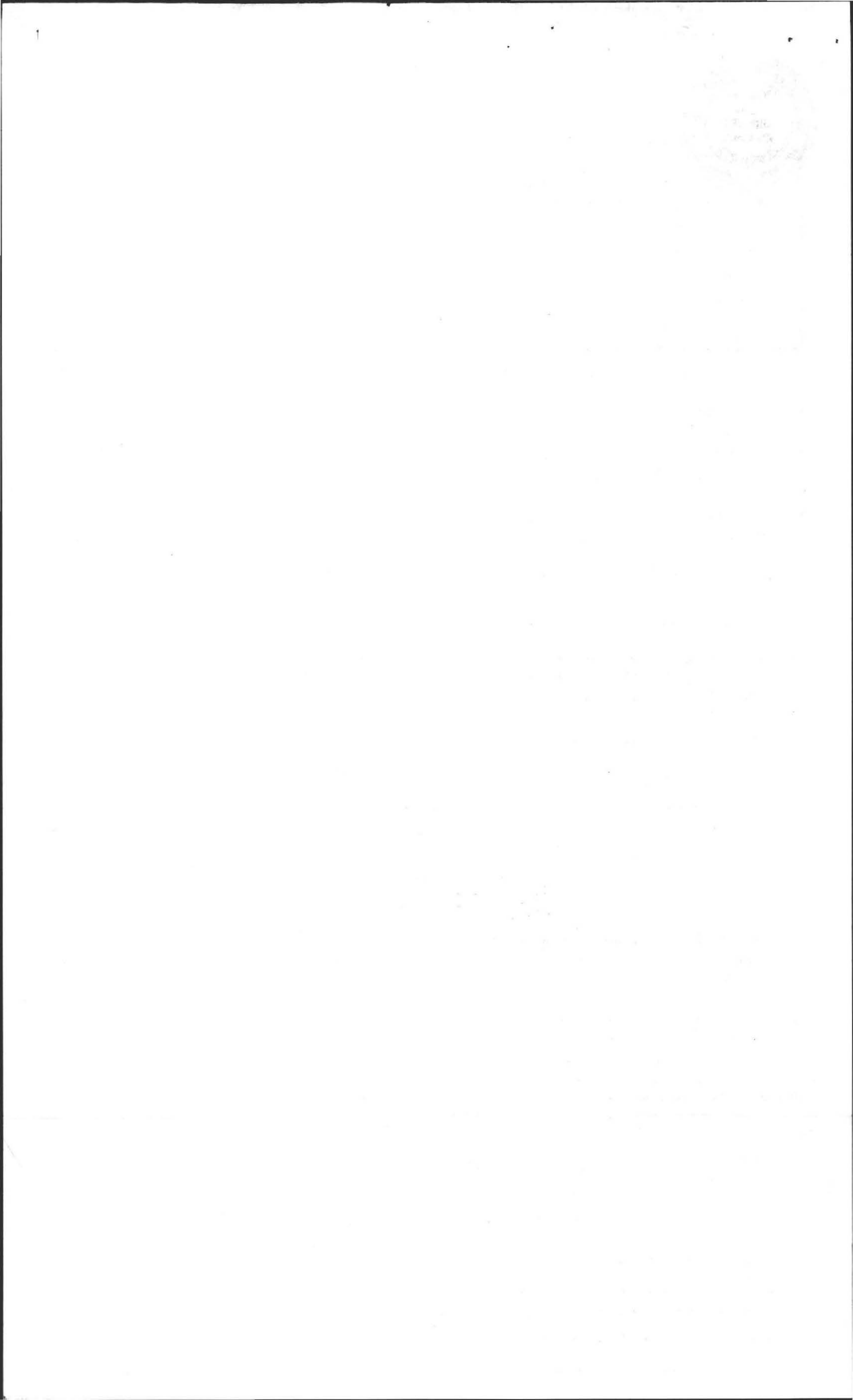
DISPOSAL SYSTEM CONSTRUCTION PERMIT

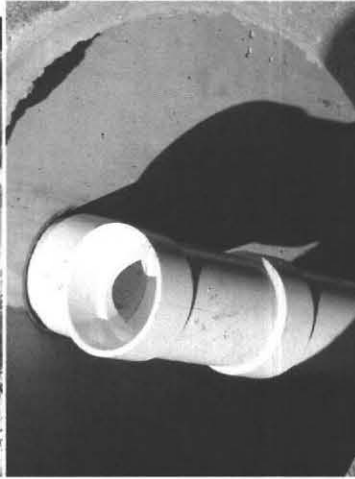
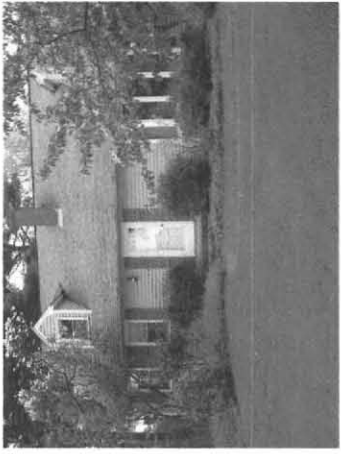
Permission is hereby granted to; Construct ( ) Repair ( ) Upgrade ( ) Abandon ( ) an individual sewage disposal system at 474 STATION RD as described in the application for

Disposal System Construction Permit No. 0401R, dated MAY 2, 2004

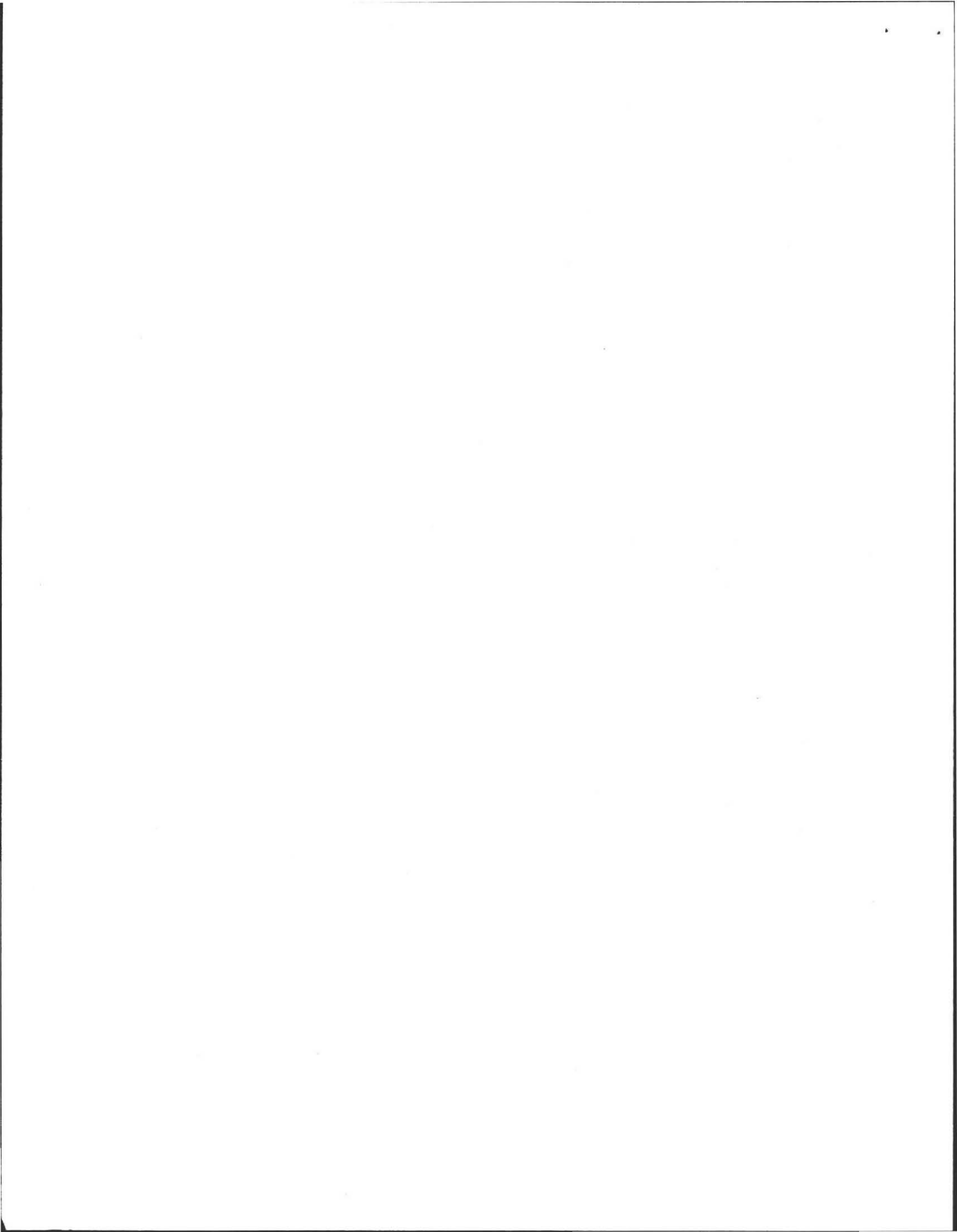
Provided: Construction shall be completed within three years of the date of this permit. All local conditions must be met.

Form 1255 Rev. 5/96 A.M. Sulkin Co. Boston, MA Date May 6, 2004 Board of Health Carl Pappas





474 Station Road 5/11/04  
Installer: W. Sieruta  
Engineer: W. Sieruta





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

0350

Received of Gregory + Lynde Rustic Firm of 474 Station Rd.  
Name Address

For Property Located at: same same  
Street Address Owner

- |  |                   |  |                   |
|--|-------------------|--|-------------------|
| HEA009 Bakery<br>R6510 443509                    | _____             | HEA016 Septic Tank Permit-Installers<br>R6510 443511     | _____             |
| HEA001 Bed & Breakfast<br>R6510 443516           | _____             | HEA017 Septic Tank Permit-Private<br>R6510 443510        | <u>(D) 107.00</u> |
| HEA002 Catering License<br>R6510 443507          | _____             | HEA018 Septic Tank Reinspection Fee<br>R6510 432301      | _____             |
| HEA003 Food Handler<br>R6510 443515              | _____             | HEA019 Sub-Division Review Fee<br>R6510 432306           | _____             |
| HEA004 Frozen Deserts<br>R6510 443501            | _____             | HEA012 Swimming Pool Permits<br>R6510 443512             | _____             |
| HEA005 Health Dept. Housing Isp.<br>R6510 432302 | _____             | HEA020 Tanning License<br>R6510 443509                   | _____             |
| HEA006 Massage Therapy License<br>R6510 443504   | _____             | HEA034 Immunization Clinic<br>R6510 432307               | _____             |
| HEA008 Motel License<br>R6510 443506             | _____             | HEA026 Smoking & Tobacco Reg. Violations<br>R6510 443518 | _____             |
| HEA010 Removal of Offal<br>R6510 443513          | _____             | HEA022 Tobacco License<br>R6510 443505                   | _____             |
| HEA021 Removal of Rubbish<br>R6510 443520        | _____             | HEA042 Body Arts / Tatoo<br>R6510 443521                 | _____             |
| HEA011 Percolation Test Fees<br>R6510 432300     | <u>(D) 175.00</u> | HEA043 Food Service Plan Review<br>R6510 432308          | _____             |
| HEA013 Recreation Camp License<br>R6510 443503   | _____             | HEA044 Porta Potties<br>R6510 432309                     | _____             |
| HEA014 Retail Store Permit<br>R6510 443514       | _____             | HEA045 Ice Rinks<br>R6510 443522                         | _____             |
| HEA015 Sanitary Code Booklets<br>R6510 432305    | _____             | HEA046 Rental Registration<br>R6510 432310               | _____             |
|  |                   | HEA047 Fines<br>R6510 48200                              | _____             |
|  |                   | HEA  | _____             |
|  |                   | HEA  | _____             |

**TOTAL FEE:** \$275.00

1/27/04  
Date

Amherst Health Department

**OFFICE USE ONLY**

CHECK #	CASH
MISC CASH RECEIPTS	
<u>5278</u>	: 01/28/04 11:48
Payment	: \$175.00
Receipt #	: 52785
Check/Credit Card #:	

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

WHITE - Applicant      YELLOW - Collector      PINK - Accounting      GOLD - Health / Inspections

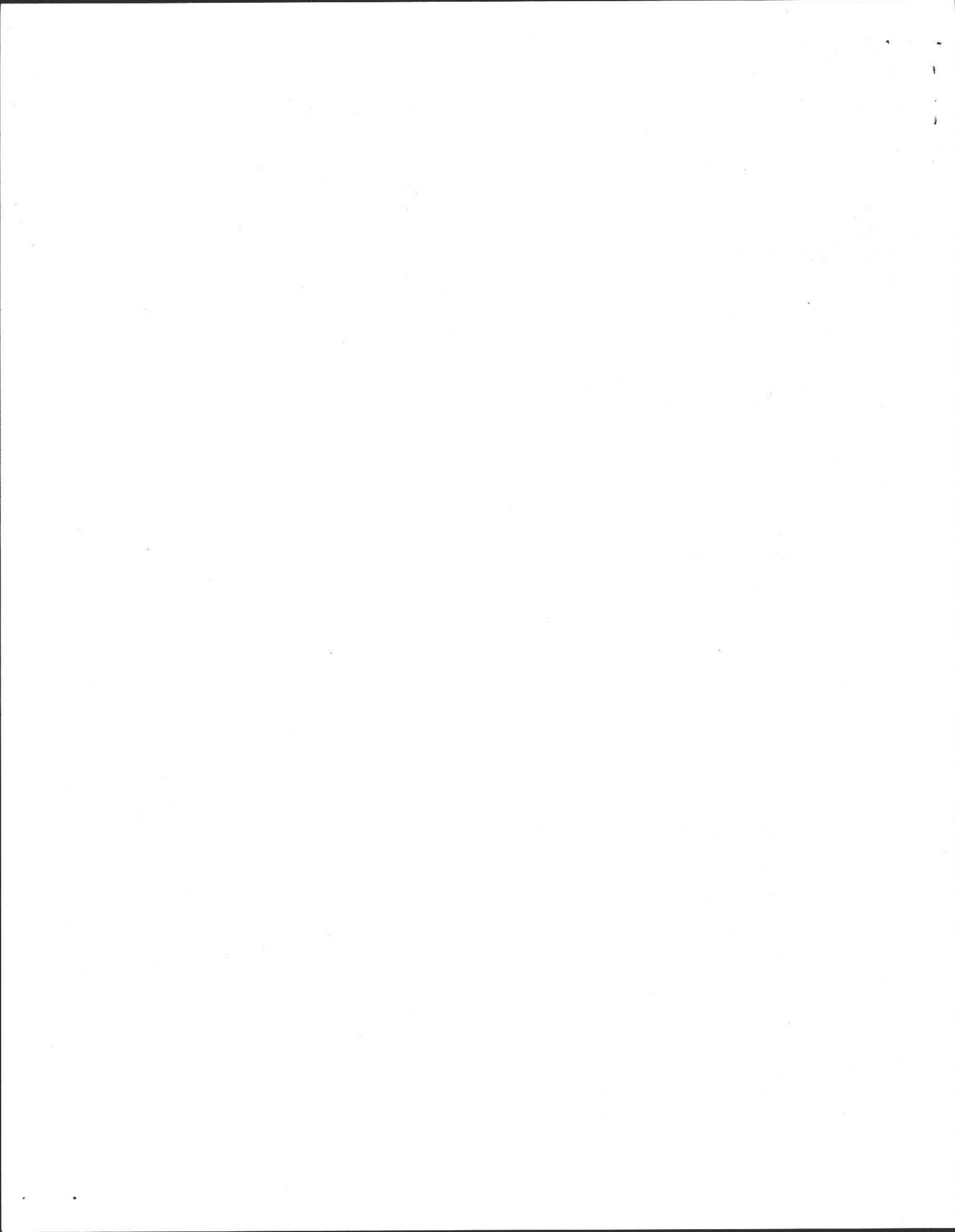
Paid by \$ \_\_\_\_\_  
 Check/Credit Card #: \_\_\_\_\_  
 Receipt #: 5278  
 Payment: \$100.00  
 Date / Name: 01/28/04 11:48  
 MISC CASH RECEIPTS  
 \*\*\*TOWN OF AMHERST\*\*\*  
 82108216  
 GREGORY & LYNDIE RU

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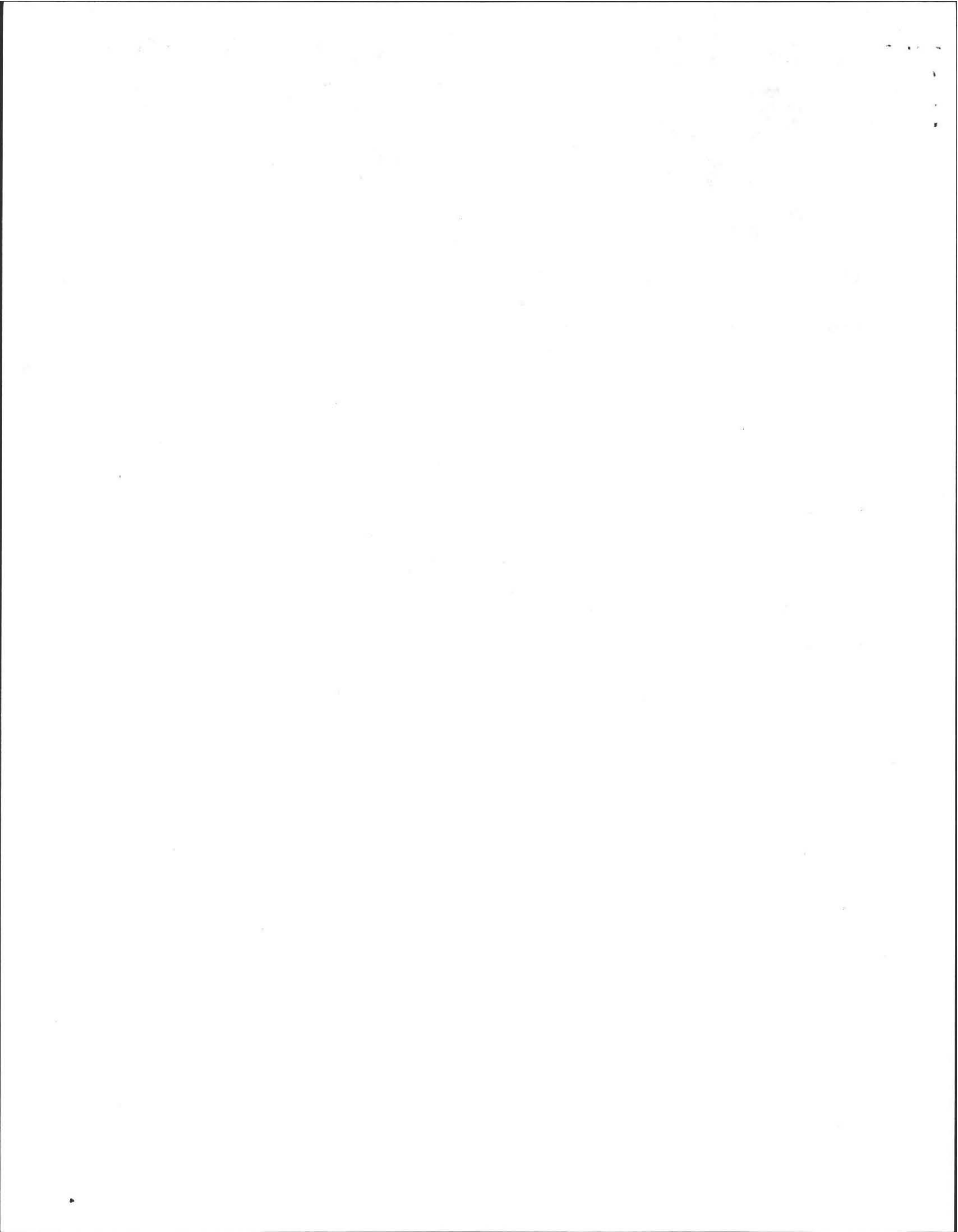


474 STATION RD      OWNER: GREG FIRMAN





474 STATION RD - 2      OWNER: GREG FIRMAN



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

Board of Health  
Town Hall  
Boltwood Avenue  
Amherst, MA. 01002

May 26, 2004

Subject: As Built Inspection  
474 Station Road  
Amherst, MA.

An "as built" inspection was completed for the subject septic system. The system is in compliance with 310 CMR 15.0 and local board of health regulations. Septic tank was reorientated due to the actual sewer outlet pipe. See "as built plan." If you have any questions or need any further information, please do not hesitate to contact me.

Very truly yours,

*William J. Sieruta P.E.*

William J. Sieruta, P.E.

*(mbs)*

2CC : G. Firman

WJS:mbs

*Fir*

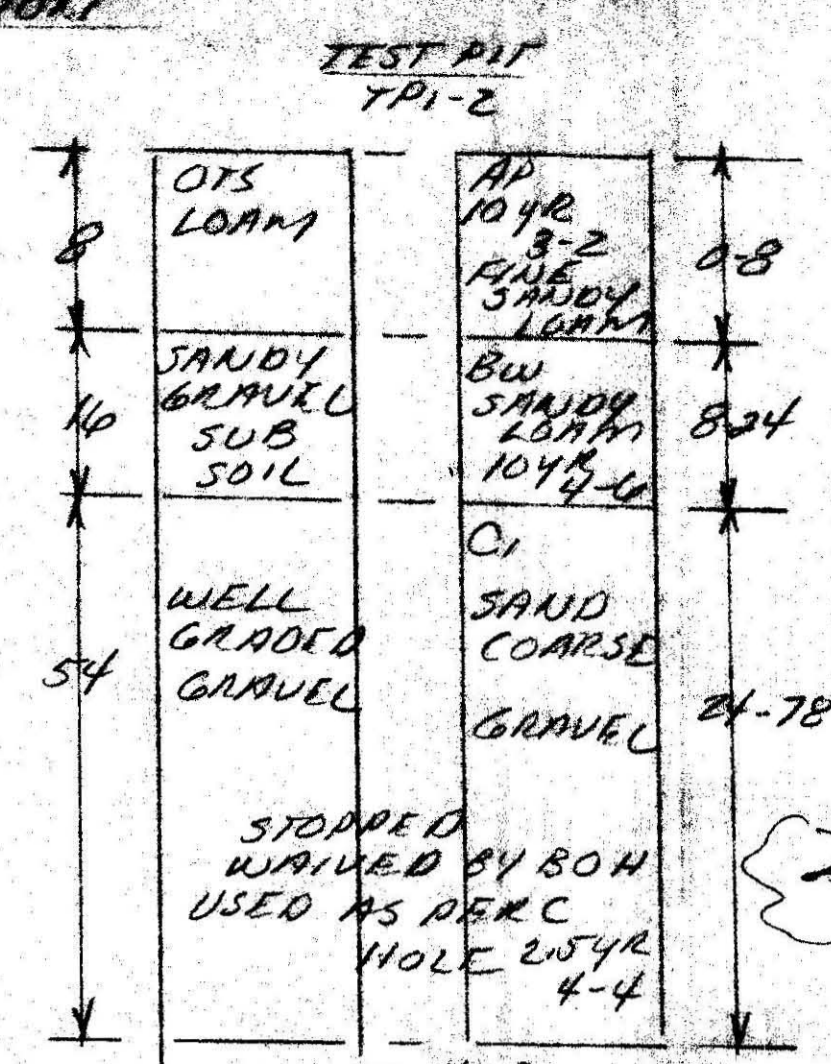
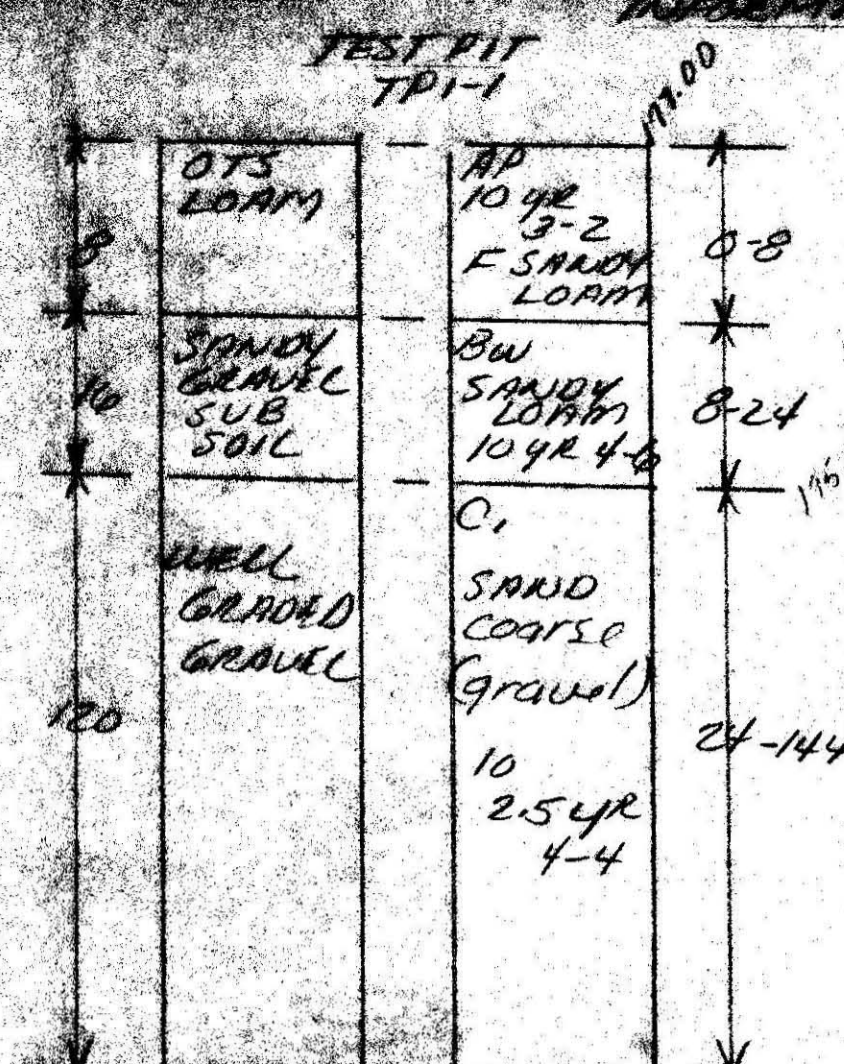
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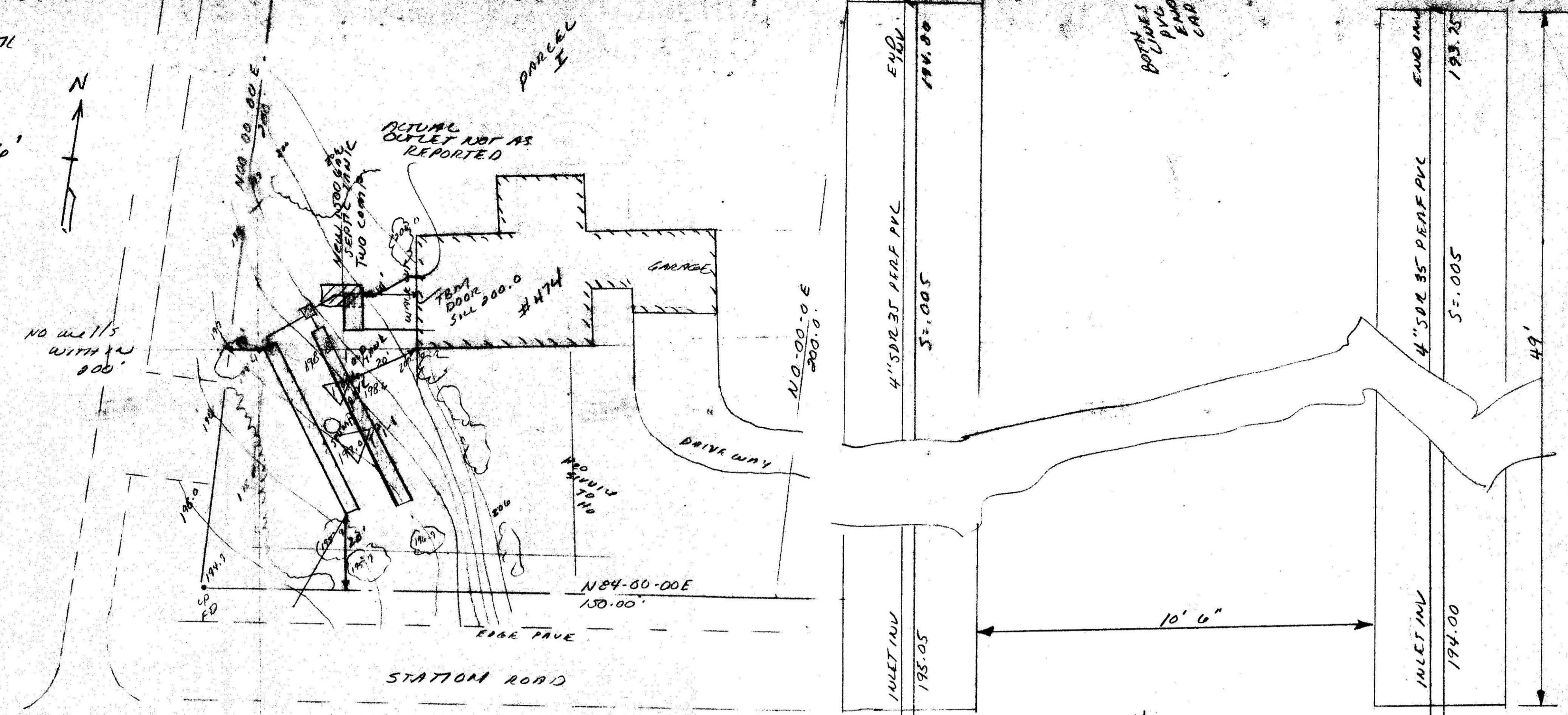
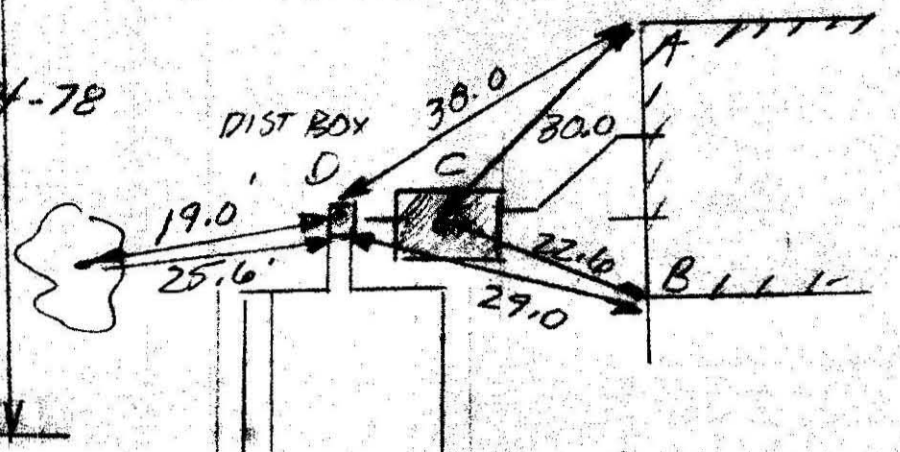




AS BUILT TIES TO SEPTIC  
 SEPTIC TANK  
 CENTER COVER  
 AC 30.0  
 BC 22.6 FROM 30" PINE 25.6'  
 DIST BOX  
 AD 38.0 FROM 30" PINE 19'  
 BD 29.0

WEEPING NONE  
 STANDING NONE  
 MOTTLING NONE  
 EHUT BELOW 144  
 DATE: 7-6-04  
 ENGINEER: A. WEISS, RS  
 WITNESS: D. ZAROZINSKI, BOW  
 PERMEABILITY TEST  
 PERC. @ TPI-1  
 DEPTH 40"  
 ACTUAL RATE 1.33 MIN/INCH  
 DESIGN RATE 5.0 MIN/INCH  
 CLASS I SOIL  
 60" SEPARATION REQD PER  
 310CMR 15.212

NO H2O  
 NO WEEPING  
 NO MATTING  
 PERC 2  
 WAIVED BY BOW



- INSTALLATION NOTES
1. OLD TANK TO BE PUMPED CLEANED AND REMOVED
  2. ALL STONE TO BE DOUBLE WASHED STONE FREE OF ALL SILT & FINES
  3. ALL PIPE JOINTS WITH TANK AND DIST BOX TO BE ASPHALT ROPE SEALED
  4. SEPTIC TANK TO BE A TWO (2) COMPARTMENT TANK WITH INLET AND OUTLET FEES IN ACCORDANCE WITH 310 CMR 15.227 SACS
  5. SEPTIC TANK AND DIST BOX TO BE SET ON 6" DEEP WASHED STONE FOUNDATION PAD
  6. NO TREES WITHIN 10' OF LEACHING SYSTEM

DESIGN INFORMATION  
 ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310CMR 15.0 TIES AND ALL LOCAL BOARD OF HEALTH REGULATIONS  
 FINISH GRADING TO BE AS SHOWN ON PLANVIEW - ALL DISTURBED AREAS TO BE LOAMED AND SEEDED

DESIGN CRITERIA  
 USE: EXISTING SINGLE FAMILY RESIDENTIAL HOME  
 5 BEDROOMS  
 WITH DISPOSAL UNIT  
 FULL WALKOUT BMT

DESIGN FLOW: 310CMR 15.203  
 REQD 110 GALS/BED x 5 = 550 GALS  
 WITHOUT DISPOSAL UNIT  
 DISPOSAL TO BE REMOVED

SEPTIC TANK: 310CMR 15.223  
 USE TWO COMPARTMENT TANK RING CAST CONC  
 TANK 10'6" x 15' x 5'  
 REQD 650 GALS/DAY x 200% = 1100 GALS  
 MINIMUM TANK SIZE PERMITTED 1500 GALS

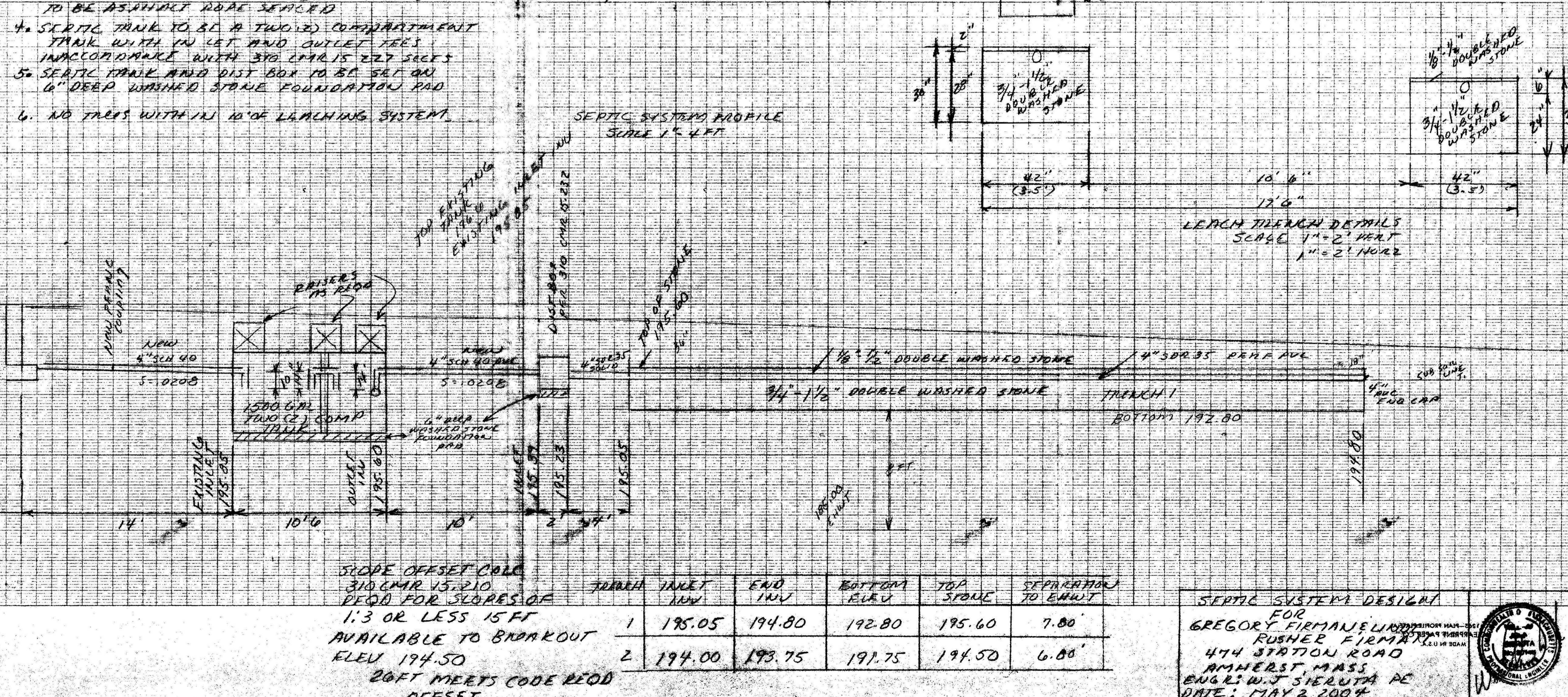
LEACHING SYSTEM: ONE FOR SOIL CONDITIONS D  
 LEACH TRENCH DESIGN IS TO BE USED PER 310CMR 15.251

EFFECTIVE DEPTH 24" 2FT  
 EFFECTIVE WIDTH 42" 3.5FT  
 EFFECTIVE LENGTH

PERMEABILITY  
 310CMR 15.242  
 PERCOLATION RATES  
 ACTUAL RATE 1.33 GALS/FT<sup>2</sup>  
 DESIGN RATE 5.0 MINIMUM  
 CLASS I SOIL

USE TWO (2) TRENCHES  
 49' LONG WITH 10'6" BETWEEN TRENCHES  
 BOTTOM AREA 2' x 3'5" x 49' = 343 FT<sup>2</sup>  
 SIDEWALL AREA PLUS END WALLS .74 GALS/FT<sup>2</sup>  
 (2' x 2' x 49') + (2' x 3.5' x 49') = 410 FT<sup>2</sup>

TOTAL PERMEABILITY  
 (343.0 + 406) .74 = 554 GALS/DAY  
 MEETS FLOW REQD



SEPTIC SYSTEM DESIGN FOR GREGORY FIRMANJELIAN RUSHER FIRM 474 STATION ROAD AMHERST, MASS ENGR. W. J. SIERUTA PE DATE: MAY 2, 2004

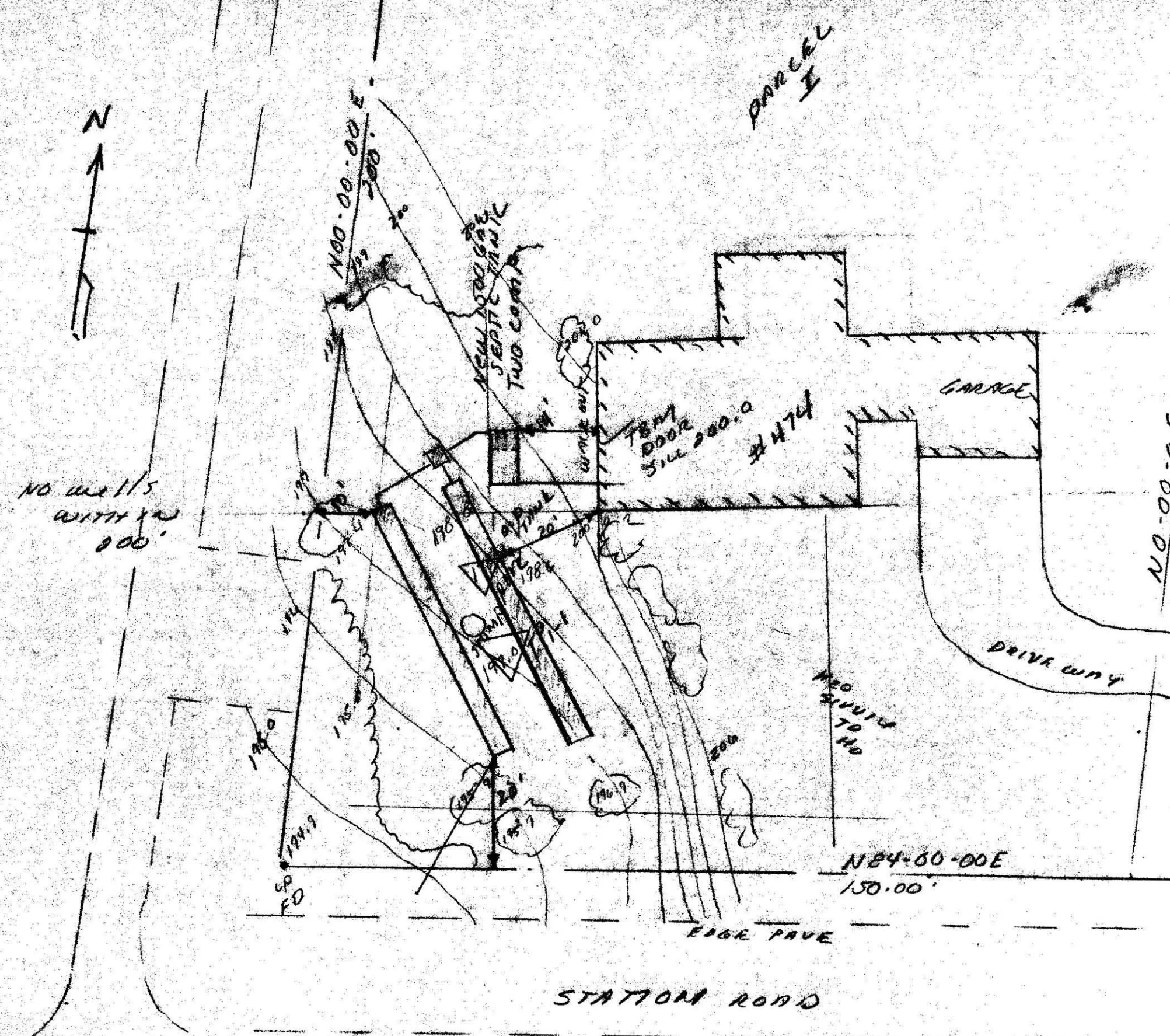
TEST PIT TPI-1			TEST PIT TPI-2		
0TS LOAM	104R 3-2 F SANDY LOAM	08	0TS LOAM	104R 3-2 F SANDY LOAM	08
SANDY GRAVEL SUB SOIL	24-24 SANDY LOAM 104R 4-4	0-24	SANDY GRAVEL SUB SOIL	24-24 SANDY LOAM 104R 4-4	0-24
WELL GRADED GRAVEL	24-44 SAND COARSE (GRAVEL)	24-44	WELL GRADED GRAVEL	24-78 SAND COARSE GRAVEL	24-78
	10 2.54R 4-4				

NO WEIR  
NO WEIRING  
NO MITTING

NO WEIR  
NO WEIRING  
NO MITTING

DATE: 1-10-04  
ENGR: H. WEISS, P.E.  
WITNESS: D. ZAROGIUSKI, BOH

PERMEABILITY TEST  
PERC. @ 14" DEPTH 40"  
ACTUAL RATE 1.33 GALS/FT<sup>2</sup>  
DESIGN RATE 5.0 MIN/INCH  
CLASS I SOIL  
60" SEPARATION REQD PER 310CMR 15.212



PLANVIEW SCALE 1"=20'

- INSTALLATION NOTES**
1. OLD TANK TO BE PUMPED CLEANED AND REMOVED
  2. ALL STONE TO BE DOUBLE WASHED STONE FREE OF ALL SILT & FINES
  3. ALL PIPE JOINTS WITH TANK AND DIST BOX TO BE ASPHALT ROPE SEALED
  4. SEPTIC TANK TO BE A TWO (2) COMPARTMENT TANK WITH IN LET AND OUTLET TEES IN ACCORDANCE WITH 310 CMR 15.227 SECTS
  5. SEPTIC TANK AND DIST BOX TO BE SET ON 16" DEEP WASHED STONE FOUNDATION PAD
  6. NO TREES WITHIN 10' OF LEACHING SYSTEM

**DESIGN INFORMATION**

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 310 CMR 15.00 TREES AND ALL LOCAL BOARD OF HEALTH REGULATIONS

FINISH GRADING TO BE AS SHOWN ON PLANVIEW. ALL DISTRIBUTED AREAS TO BE LOAMED AND SEEDED

**DESIGN CRITERIA**

USE EXISTING SINGLE FAMILY RESIDENTIAL HOME

5 BED ROOMS  
WITH DISPOSAL UNIT  
FULL BUILT OUT BMT

**DESIGN ALLOW** 310CMR 15.208  
REQD 110 GALS BED 1.5 = 550 GALS  
WITHOUT DISPOSAL UNIT  
DISPOSAL TO BE REMOVED

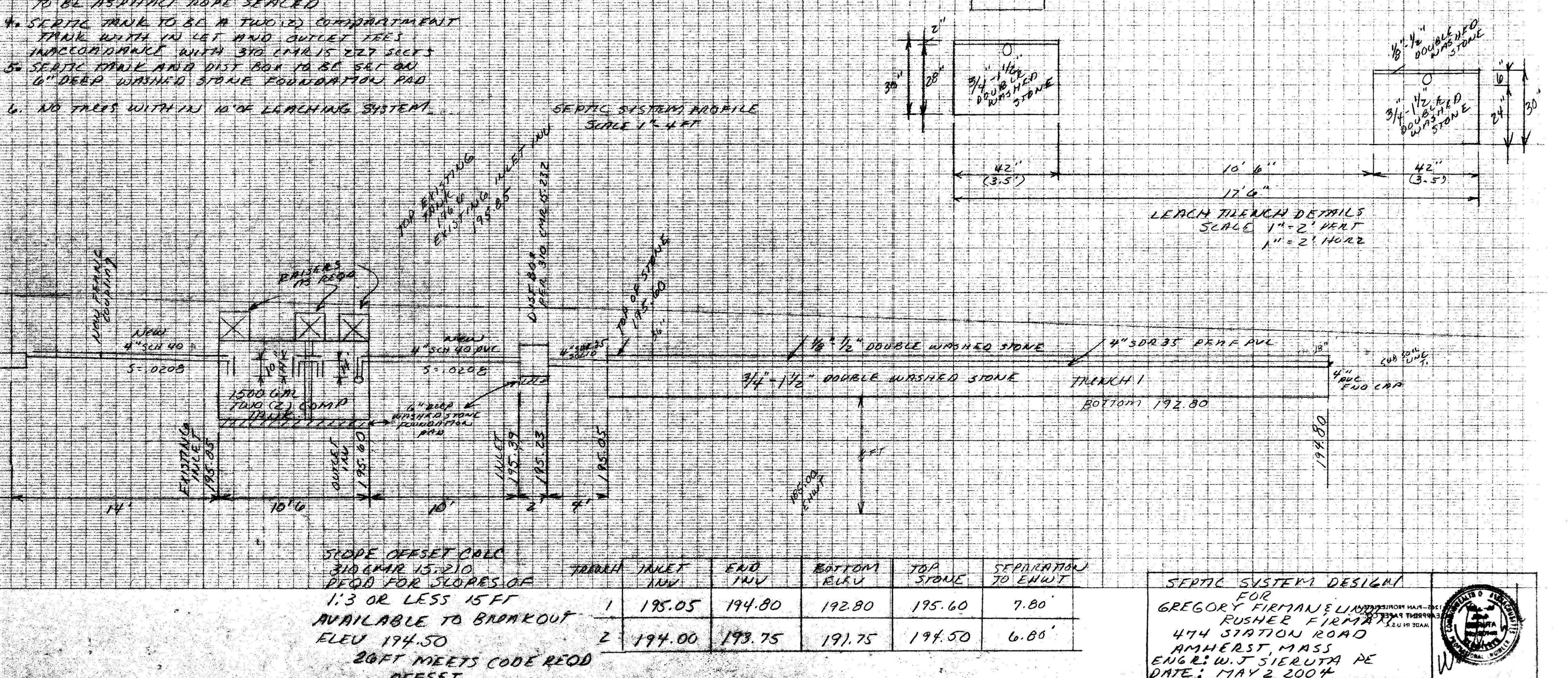
**SEPTIC TANK** 310CMR 15.225  
USE 1200 COMPARTMENT TANK PRECAST CONCRETE  
TANK 104R 15  
REQD 150 GALS/DAY 1.208 = 180 GALS  
MINIMUM TANK SIZE PERMITTED 1500 GALS

**LEACHING SYSTEM** DUE TO SOIL CONDITIONS A LEACH TRENCH DESIGN IS TO BE USED PER 310CMR 15.251

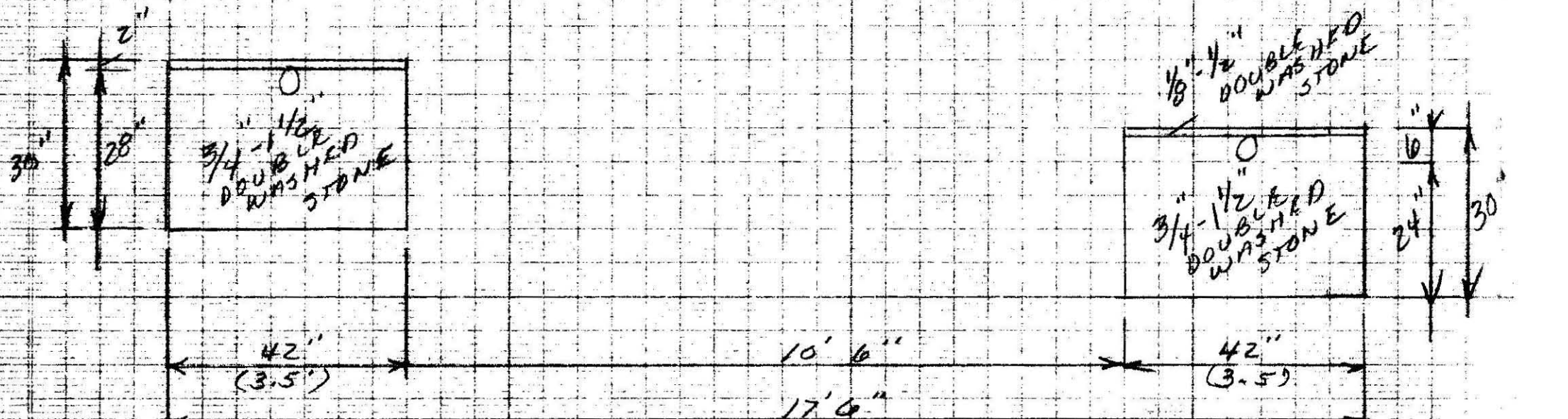
**PERMEABILITY**  
310CMR 15.242  
REGULATION RATES  
ACTUAL RATE  
1.33 GALS/FT<sup>2</sup>  
DESIGN RATE  
5.0 MIN/INCH  
CLASS I SOIL  
BOTTOM C SIDEWALL  
AREA 15

**LEACH TRENCH**  
EFFECTIVE DEPTH 24" 24"  
EFFECTIVE WIDTH 42" 3.5'  
EFFECTIVE LENGTH

USE TWO (2) TRENCHES  
47' LONG WITH 10' 8" BETWEEN TRENCHES  
BOTTOM AREA  
2 x 3.5' x 49' = 343 FT<sup>2</sup>  
SIDE WALL AREA 266 END WALLS  
(2' x 2' x 49') + (2' x 3.5' x 49') = 418 FT<sup>2</sup>  
TOTAL PERMEABLE AREA  
(343 + 418) x 1.74 = 554 GALS/DAY  
MEETS FLOW REQD



SEPTIC SYSTEM PROFILE SCALE 1"=4 FT



LEACH TRENCH DETAILS SCALE 1"=2' VERT 1"=2' HORIZ

**SLOPE OFFSET CALC**  
310CMR 15.210  
REQD FOR SLOPES OF 1:3 OR LESS 15 FT  
AVAILABLE TO BREAKOUT  
ELEV 194.50  
26 FT MEETS CODE REQD OFFSET

TRENCH	INLET INV	END INV	BOTTOM ELEV	TOP STONE	SEPARATION TO ENWT
1	195.05	194.80	192.80	195.60	7.80'
2	194.00	193.75	191.75	194.50	6.80'

**SEPTIC SYSTEM DESIGN**  
FOR  
GREGORY FIRMAN ELI...  
RUSHER FIRMAN...  
474 STATION ROAD  
AMHERST MASS  
ENGR: W. J. SIERUTA PE  
DATE: MAY 2, 2004

