389 Henry St.

#389

RECEIVED 10-6-08

Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

389 Henry Street (Lot 5)
Property Address

Owner information is required for every page.

Jason Yanowitz
Owner's Name

Amherst	MA	01002	09.24.2008
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.

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:

Alan E. Weiss
Name of Inspector

Cold Spring Environmental Consultants Inc.
Company Name

350 Old Enfield Road
Company Address

Belchertown	MA	01007
City/Town	State	Zip Code

413.323.5957	
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

	09.24.2008
Inspector's Signature	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.**

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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:

All levels were good at inspection, system is 4+ years old. Tank pumped, (D. box, & S. tank had good levels and no indication of past high staining or ponding.

B) System Conditionally Passes:

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

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

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

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

ND Explain:

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

☐ broken pipe(s) are replaced

☐ obstruction is removed

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B. Certification (cont.)

B) System Conditionally Passes (cont.)**:**

☐ distribution box is leveled or replaced

ND Explain:

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

☐ broken pipe(s) are replaced

☐ obstruction is removed

ND Explain:

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

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.

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B. Certification (cont.)

C) Further Evaluation is Required by the Board of Health (cont.)**:**

☐ 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: Measured

** This system passes if the well water analysis, performed at a DEP certified laboratory, for 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 <u>must</u> indicate "Yes" or "No" to each of the following for <u>all</u> inspections:

Yes	No	
☐	☒	Backup of sewage into facility or system component due to overloaded or clogged SAS or cesspool
☐	☒	Discharge or ponding of effluent to the surface of the ground or surface waters due to an overloaded or clogged SAS or cesspool
☐	☒	Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool
☐	☒	Liquid depth in cesspool is less than 6" below invert or available volume is less than ½ day flow
☐	☒	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.

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B. Certification (cont.)

D) System Failure Criteria Applicable to All Systems (cont.)**:**

Yes	No	
☐	☒	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:

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:
☒	☐	Existing information. For example, a plan at the Board of Health.
☒	☐	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)]

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Amherst — City/Town | MA — State | 01002 — Zip Code | 09.24.2007 — Date of Inspection

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): 550 (671)

Number of current residents: 4

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)): N/A

Sump pump? ☐ Yes ☒ No

Last date of occupancy: current
Date

Commercial/Industrial Flow Conditions:

Type of Establishment: N/A

Design flow (based on 310 CMR 15.203): N/A
Gallons per day (gpd)

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

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: N/A

Last date of occupancy/use: N/A
Date

Other (describe): N/A

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D. System Information (cont.)

General Information

Pumping Records:

Source of information: Owner: (First time)

Was system pumped as part of the inspection? ☒ Yes ☐ No

If yes, volume pumped: 1500 g gallons

How was quantity pumped determined? meas.

Reason for pumping: T-5

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:

4+ years

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

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D. System Information (cont.)

Building Sewer (locate on site plan):

Depth below grade: 1.'+ feet

Material of construction:

☐ cast iron ☒ 40 PVC ☐ other (explain):

Distance from private water supply well or suction line: 10'+ feet

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

Septic Tank (locate on site plan):

Depth below grade: 14" feet

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: 10.5'X5.5'X4.'

Sludge depth: 1-2"

Distance from top of sludge to bottom of outlet tee or baffle 46"

Scum thickness 1-2"

Distance from top of scum to top of outlet tee or baffle 6"

Distance from bottom of scum to bottom of outlet tee or baffle 12"

How were dimensions determined? Measured

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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.):

Tank levels good. Structural integrity appeared good at time of inspection. (Tees in place).

Grease Trap (locate on site plan):

Depth below grade: N/A feet

Material of construction:

☐ concrete ☐ metal ☐ fiberglass ☐ polyethylene ☐ other (explain):

Dimensions: N/A

Scum thickness N/A

Distance from top of scum to top of outlet tee or baffle N/A

Distance from bottom of scum to bottom of outlet tee or baffle N/A

Date of last pumping: N/A Date

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

N/A

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

Depth below grade: N/A

Material of construction:

☐ concrete ☐ metal ☐ fiberglass ☐ polyethylene ☐ other (explain):

N/A

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D. System Information (cont.)

Tight or Holding Tank (cont.)

Dimensions: N/A

Capacity: N/A gallons

Design Flow: N/A gallons per day

Alarm present: ☐ Yes ☐ No

Alarm level: N/A

Alarm in working order: ☐ Yes ☐ No

Date of last pumping: N/A Date

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

N/A

* Attach copy of current pumping contract (required). Is copy attached? ☐ Yes ☐ No

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

Depth of liquid level above outlet invert @ Inv. level good.

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 condition good, level (flow levelers), 18" below grade.

Pump Chamber (locate on site plan):

Pumps in working order: ☐ Yes ☐ No

Alarms in working order: ☐ Yes ☐ No

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D. System Information (cont.)

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:

See plan from 2004 (Kohl Const. Lot 5)

Type:

☐	leaching pits	number:	
☐	leaching chambers	number:	
☐	leaching galleries	number:	
☒	leaching trenches	number, length:	2 @ 45' L+/- x 3' W x2.5' D
☐	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, soil at top good no stone staining. (No standing liquid in stone)

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D. System Information (cont.)

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

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

Privy (locate on site plan):

Materials of construction: N/A

Dimensions N/A

Depth of solids N/A

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

N/A

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D. System Information (cont.)

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.

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D. System Information (cont.)

Site Exam:

☒ Check Slope

☐ Surface water

☒ Check cellar

☐ Shallow wells

Estimated depth to ground water: 10'+ (records) 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: n/A Date

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

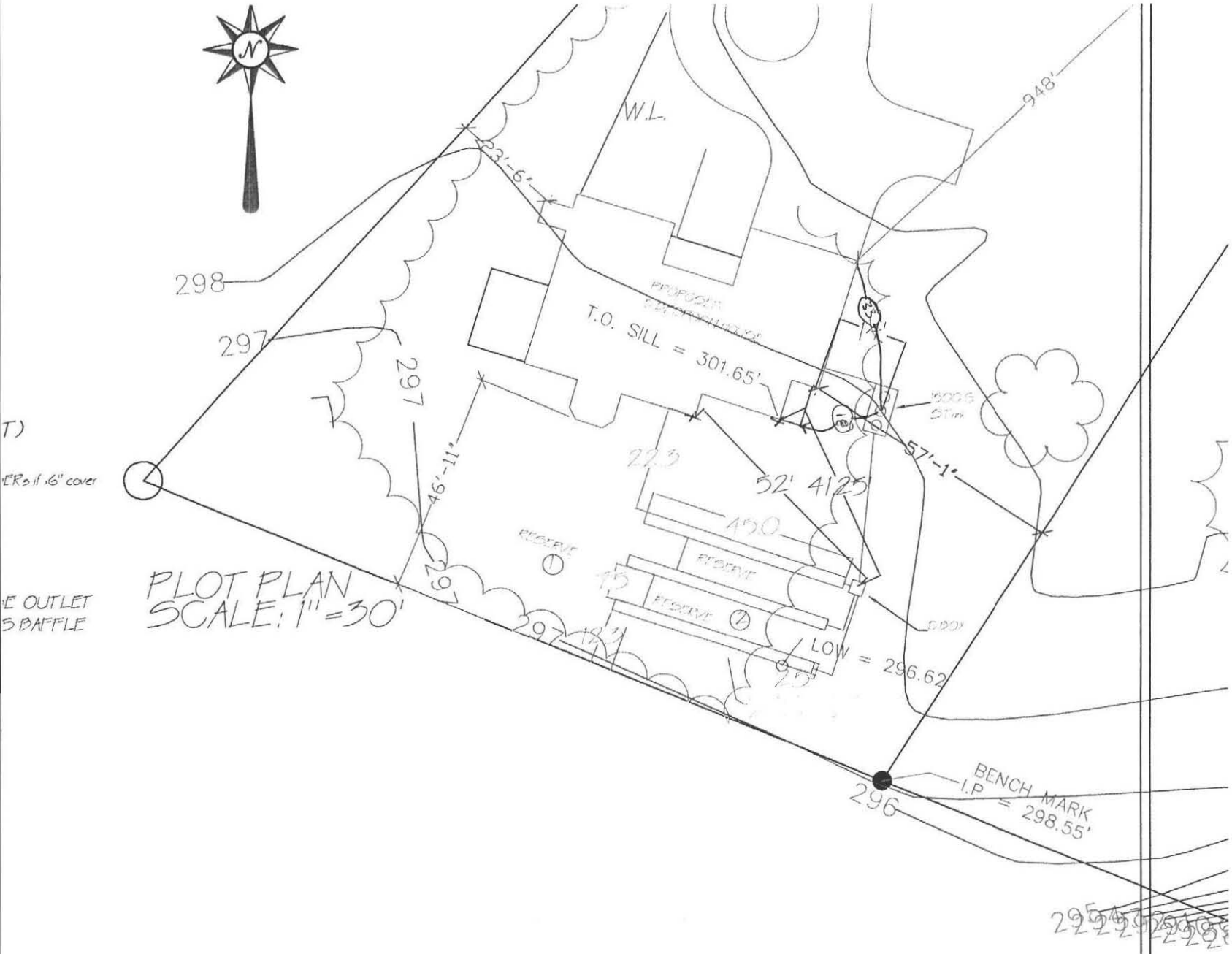
☐ Checked with local Board of Health - explain:

☐ Checked with local excavators, installers - (attach documentation)

☐ Accessed USGS database - explain:

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

Based on existing records and site review.



T)

ERs if .6" cover

E OUTLET
S BAFFLE

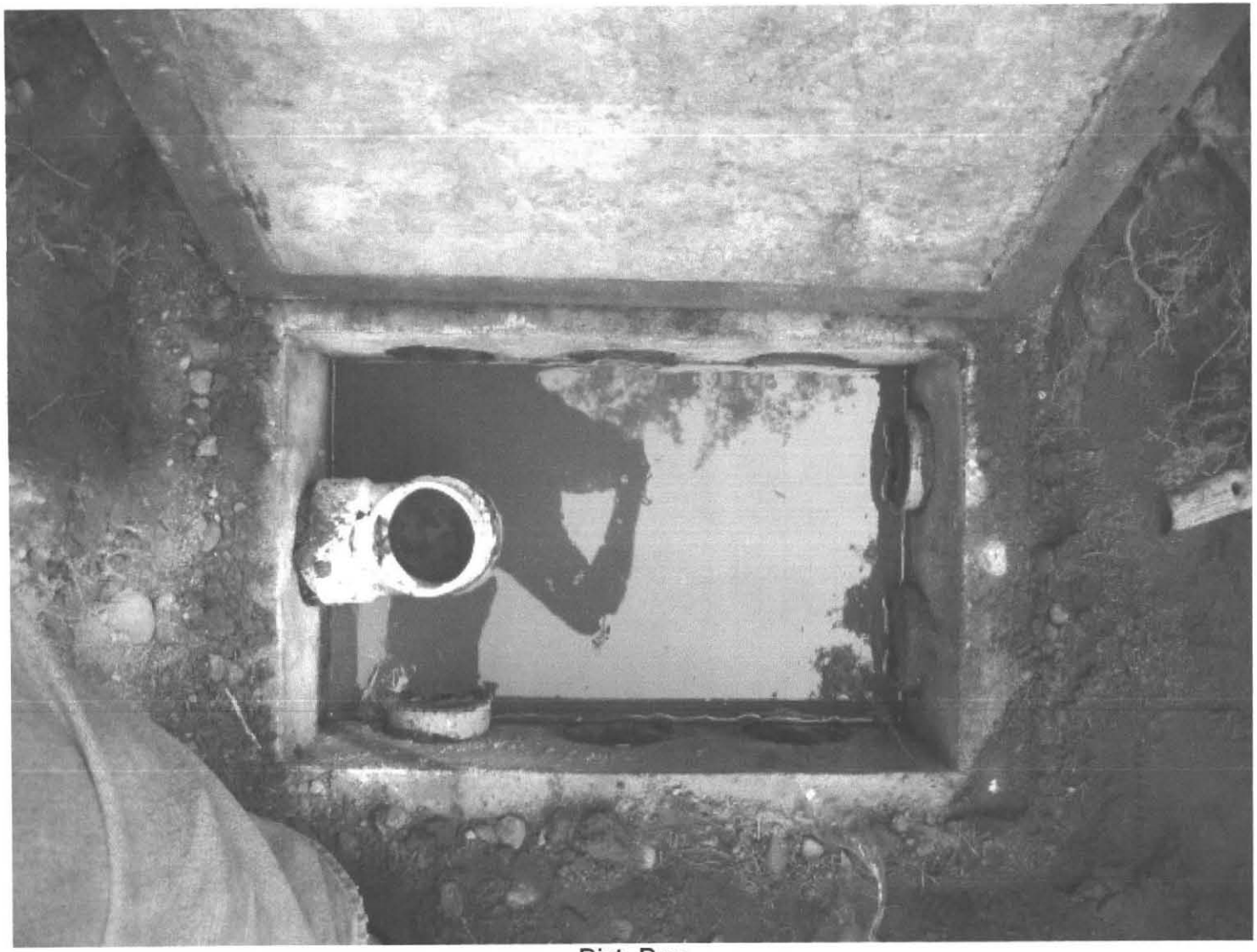
GRAVITY SLOPE SEPTIC SYSTEM OPERATION AND MAINTENANCE NOTES FOR HOMEOWNER:

1. HAVE SEPTIC TANK PUMPED EVERY SECOND (2) YEARS.
2. MAINTAIN AREA OVER SEPTIC AS GRASSY OR SIMILAR GROUND COVER ATTEMPTING TO MAXIMIZE SUNLIGHT TO AREA.

DESIGN NOTES:

1. 5 BR. x 110 gal/day gal/day =550 gal/day (5 bedroom design)
2. Use three Leach Trenches: 45' long x 2.50' wide x 24" stone below invert.
   Bot. Area: 2.5' wide x 45' long x 3= 337.50sf.
   Side Area: 2.00' D x 45' L x 2 SIDES x3= 540 sf.
   Side Area 2.00' D x 2.5' W x 2 SIDES x 3= 30 sf
   Tot. Area: 907 sf x 0.74 GAL/DAY = 671 gal/day.
3. NO GARBAGE DISPOSAL ALLOWED
4. ALL D. BOX OUTLET PIPES LEVEL FOR 2'; TEE AT D. BOX. INLET
5. NO WELLS WITHIN 150 FEET OF SYSTEM, (town water line noted).
6. NO WETLANDS WITHIN 150 FEET OF SEPTIC SYSTEM,
   ** NO CURTAIN/FOOTING DRAINS WITHIN 50 FOOT OF SYSTEM. **
7. PRE & POST CONTOURS NOTED AS NECESSARY, NOTE: NO GRADE CHANGE REQUIRED.
8. RESERVE AREA (BEWEEN TRENCHES).
9. SLOPE CALCS APPLIC, REGRADE OVER TRENCHES AS NOTED.
9A SUBGRADE INSPECTION REQUIRED
10. APPLICATION FORM TO BE FILED WITH BOH PRIOR TO WORK.,
11. SOIL EVALUATION TP- 1A & 2A AE WEISS, INSP. (03/15/2004)

12. PERCS by AE WEISS, RS (03/15/2004) RATE= <2 MIN./IN. "SAND"
13. INSTALL OUTLET GAS BAFFLE AT S. TANK OUTLETS AS NOTED
14. INSTALL/INSPECT TEES SCH. 40, (10" INLET, 14" OUTLET) ON 1,500 GAL. S. TANK
15. USE APPROVED (1.5") ID DbI WASHED STONE UNDER PIPE & D. BOX CONTRACTOR
    TO CONFIRM STONE PROPERLY WASHED (WITH BUCKET /H20 TEST) PRIOR TO PLACEMENT.
16. NO TREES WITHI N 10 FT. OF NEW LEACHING TRENCH STONE.
17 NO FILL WITHIN 5 FEET OF PROPERTY LINE.
18. T.B.M1. =298.55'= TOP OF pin as NOTED ON PLAN, TBM2, EXISTING SILL=301.65'
19. USE SILTATION CONTROL, AS NEEDED WHERE SLOPING.
20. GRADE MULCH AND SEED OVER LEACHFIELD (MIN. 2 % GRADE).
    (USE SILT FENCE ON SLOPE AS NEEDED TO CONTROL SILTATION DURING CONSTRUCTION)



Dist. Box
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Amherst, MA
September 24, 2008

Septic System
389 Henry Street
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