

#16

ENVIRONMENTAL FIELD SERVICES, INC.
P.O. BOX 518
LEEDS, MA 01053
1-413-586-7200

RECEIVED JAN 28 1998

RECEIVED JAN 28 1998

January 6, 1998

Claire Ellis & Kip Webb
16 Sherry Circle
Amherst, MA 01002

re: Septic System Inspection at 16 Sherry Circle, Amherst, MA

Dear Claire & Kip:

Enclosed please find a copy of my report for the referenced inspection. I have forwarded a copy of the report to the Amherst Board of Health per the requirements of 310 CMR 15.300, and copies to Ron Basto, Ann Parizo and Bill Hart, per your request.

Based on the results of my inspection in accordance with 310 CMR 15.300, I have concluded that the system does not meet any of the failure criteria specified at 310 CMR 15.303.

Please call if you have any questions, and thank you for this opportunity to be of service.

Sincerely yours,



Michael J. Lavigne
Environmental Engineer
Certified System Inspector

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)

Property Address:
Owner:
Date of Inspection:

B) SYSTEM CONDITIONALLY PASSES (continued)

- Sewage backup or breakout or high static water level observed in the distribution box is due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. The system will pass inspection if (with approval of the Board of Health). Describe observations:
 - broken pipe(s) are replaced
 - obstruction is removed
 - distribution box is levelled or replaced

- The system required pumping more than four 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

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 the public health, safety and the environment.

1) SYSTEM WILL PASS UNLESS BOARD OF HEALTH DETERMINES THAT THE SYSTEM IS NOT FUNCTIONING IN A MANNER WHICH WILL PROTECT THE PUBLIC HEALTH AND 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 APPROPRIATE) DETERMINES THAT THE SYSTEM IS FUNCTIONING IN A MANNER THAT PROTECTS THE PUBLIC HEALTH AND SAFETY AND THE ENVIRONMENT:

- The system has a septic tank and soil absorption system (SAS) and the SAS is within 100 feet to a surface water supply or tributary to a surface water supply.
- The system has a septic tank and soil absorption system and the SAS is within a Zone I of a public water supply well.
- The system has a septic tank and soil absorption system and the SAS is within 50 feet of a private water supply well.
- The system has a septic tank and soil absorption system and the SAS is less than 100 feet but 50 feet or more from a private water supply well, unless a well water analysis 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. Method used to determine distance _____ (approximation not valid).

3) OTHER



COMMONWEALTH OF MASSACHUSETTS
 EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 ONE WINTER STREET, BOSTON, MA 02108 617-292-5500

WILLIAM F. WELD
 Governor
 ARGO PAUL CELLUCCI
 Lt. Governor

TRUDY COXE
 Secretary
 DAVID B. STRUHS
 Commissioner

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
 PART A
 CERTIFICATION

Property Address: 16 Sherry Circle, Amherst
 Date of Inspection: 12/17/97 (and 12/31/97)
 Name of Inspector: Mike Lavigne

Address of Owner:
 (If different)

Clairie Ellis
16 Sherry Circle
Amherst, MA 01002

I am a DEP approved system inspector pursuant to Section 15.340 of Title 5 (310 CMR 15.000)

Company Name: Environmental Field Services
 Mailing Address: P.O. Box 578, Leeds, MA 01053
 Telephone Number: 586-7200

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 inspection. The inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. The system:

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

Inspector's Signature: [Signature]

Date: 1/6/98

The System Inspector shall submit a copy of this inspection report to the Approving Authority within thirty (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 Department of Environmental Protection. The original should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

INSPECTION SUMMARY: Check *A, B, C, or D*:

A) SYSTEM PASSES:

I have not found any information which indicates that the system violates any of the failure criteria as defined in 310 CMR 15.303. 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.

Indicate yes, no, or not determined (Y, N, or ND). Describe basis of determination in all instances. If "not determined", explain why not.

_____ The septic tank is metal, unless the owner or operator has provided the system inspector with a copy of a Certificate of Compliance (attached) indicating that the tank was installed within twenty (20) years prior to the date of the inspection; or the septic tank, whether or not metal, is cracked, structurally unsound, shows substantial infiltration or exfiltration, or tank failure is imminent. The system will pass inspection if the existing septic tank is replaced with a conforming septic tank as approved by the Board of Health.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART B
CHECKLIST

Property Address:
Owner:
Date of Inspection:

Check if the following have been done: You must indicate either "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 checked="" type="checkbox"/> | <input type="checkbox"/> | None of the system components have been pumped for at least two weeks and the system has been receiving normal flow rates during that period. Large volumes of water have not been introduced into the system recently or as part of this inspection. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | As built plans have been obtained and examined. Note if they are not available with N/A. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The facility or dwelling was inspected for signs of sewage back-up. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The system does not receive non-sanitary or industrial waste flow. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The site was inspected for signs of breakout. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | All system components, excluding the Soil Absorption System, have been located on the site. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The septic tank manholes were uncovered, opened, and the interior of the septic tank was inspected for condition of baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge, depth of scum. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | The size and location of the Soil Absorption System on the site has been determined based on:
The facility owner (and occupants, if different from owner) were provided with information on the proper maintenance of Sub-Surface Disposal System. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Existing information. Ex. Plan at B.O.H. |
| <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) [15.302(3)(b)] |

**SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART A
CERTIFICATION (continued)**

Property Address:
Owner:
Date of Inspection:

D) SYSTEM FAILS:

You must indicate either "Yes" or "No" as to each of the following:

_____ I have determined that the system violates one or more of the following failure criteria as defined in 310 CMR 15.303. The basis for this determination is identified below. The Board of Health should be contacted to determine what will be necessary to correct the failure.

- | Yes | No | |
|-----|-----|--|
| ___ | ___ | Backup of sewage into facility or system component due to an 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 1/2 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 Soil Absorption System, cesspool or privy is below the high groundwater elevation. |
| ___ | ___ | Any portion of a 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 I 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. If the well has been analyzed to be acceptable, attach copy of well water analysis for coliform bacteria, volatile organic compounds, ammonia nitrogen and nitrate nitrogen. |

E) LARGE SYSTEM FAILS:

You must indicate either "Yes" or "No" as to each of the following:

The following criteria apply to large systems in addition to the criteria above:

_____ The system serves a facility with a design flow of 10,000 gpd or greater (Large System) and the system is a significant threat to public health and safety and the environment because one or more of the following conditions exist:

- | 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) |

The owner or operator of any such system shall bring the system and facility into full compliance with the groundwater treatment program requirements of 314 CMR 5.00 and 6.00. Please consult the local regional office of the Department for further information.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address:
Owner:
Date of Inspection:

BUILDING SEWER:
(Locate on site plan)

Depth below grade: N/A ~ 30"
Material of construction: cast iron 40 PVC other (explain)

Distance from private water supply well or suction line N/A
Diameter 4" (?)

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

Building sewer exits sub-slab on this walkout and is not visible or accessible. Info based on pipe entering tank.

SEPTIC TANK:
(locate on site plan)

Depth below grade: 18"
Material of construction: concrete metal Fiberglass Polyethylene other(explain)

If tank is metal, list age Is age confirmed by Certificate of Compliance (Yes/No)

Dimensions: 9 1/2' x 4' x 5'
Sludge depth: 2"-4"
Distance from top of sludge to bottom of outlet tee or baffle: ~30"
Scum thickness: 1"-2"
Distance from top of scum to top of outlet tee or baffle: 3"-4"
Distance from bottom of scum to bottom of outlet tee or baffle: ~12"
How dimensions were determined: probed, estimated.

Comments:

(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.) No problems noted. Exit line runs slightly uphill leaving tank giving appearance that liquid is above outlet invert. Rise is minimal and not significant.

GREASE TRAP: N/A
(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:

(recommendation for pumping, condition of inlet and outlet tees or baffles, depth of liquid level in relation to outlet invert, structural integrity, evidence of leakage, etc.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION

Property Address:
Owner:
Date of Inspection:

FLOW CONDITIONS

RESIDENTIAL:

Design flow: 824 g.p.d./bedroom for S.A.S.
Number of bedrooms: 6
Number of current residents: 4
Garbage grinder (yes or no): yes
Laundry connected to system (yes or no): yes
Seasonal use (yes or no): no
Water meter readings, if available (last two (2) year usage (gpd): N/A
Sump Pump (yes or no): no

Last date of occupancy: current

COMMERCIAL/INDUSTRIAL:

Type of establishment: _____
Design flow: _____ gallons/day
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: _____

OTHER: (Describe) _____
Last date of occupancy: _____

GENERAL INFORMATION

PUMPING RECORDS and source of information:

Last May, every 2-3 yrs. previously, per owner.
System pumped as part of inspection: (yes or no) no
If yes, volume pumped: _____ gallons
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)
 I/A Technology etc. Copy of up to date contract?
Other _____

APPROXIMATE AGE of all components, date installed (if known) and source of information: 5 yrs. old, per D.W.C.P. attached.

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

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address:
Owner:
Date of Inspection:

SOIL ABSORPTION SYSTEM (SAS):
(locate on site plan, if possible; excavation not required, but may be approximated by non-intrusive methods)

If not determined to be present, explain: Excavated and inspected.

Type:
leaching pits, number: 1, 1500 gal.
leaching chambers, number: _____
leaching galleries, number: _____
leaching trenches, number, length: _____
leaching fields, number, dimensions: _____
overflow cesspool, number: _____
Alternative system: _____
Name of Technology: _____

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

No problems noted. Very clean, only 1" of liquid. Excellent condition.

CESSPOOLS: N/A
(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 (cesspool must be pumped as part of inspection) _____

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.)

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address:
Owner:
Date of Inspection:

TIGHT OR HOLDING TANK: N/A (Tank must be pumped prior to, or 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/day
Alarm level: _____ Alarm in working order Yes; No
Date of previous pumping: _____
Comments:
(condition of inlet tee, condition of alarm and float switches, etc.)

DISTRIBUTION BOX: N/A
(locate on site plan)

Depth of liquid level above outlet invert: _____

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

PUMP CHAMBER: N/A
(locate on site plan)

Pumps in working order: (Yes or No) _____
Alarms in working order (Yes or No) _____
Comments:
(note condition of pump chamber, condition of pumps and appurtenances, etc.) _____

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address:
Owner:
Date of Inspection:

Depth to Groundwater 11 Feet

Please indicate all the methods used to determine High Groundwater Elevation:

- Obtained from Design Plans on record
 Observation of Site (Abutting property, observation hole, basement sump etc.)
 Determine it from local conditions
 Check with local Board of health
 Check FEMA Maps
 Check pumping records
 Check local excavators, installers
 Use USGS Data

Describe in your own words how you established the High Groundwater Elevation. (Must be completed)

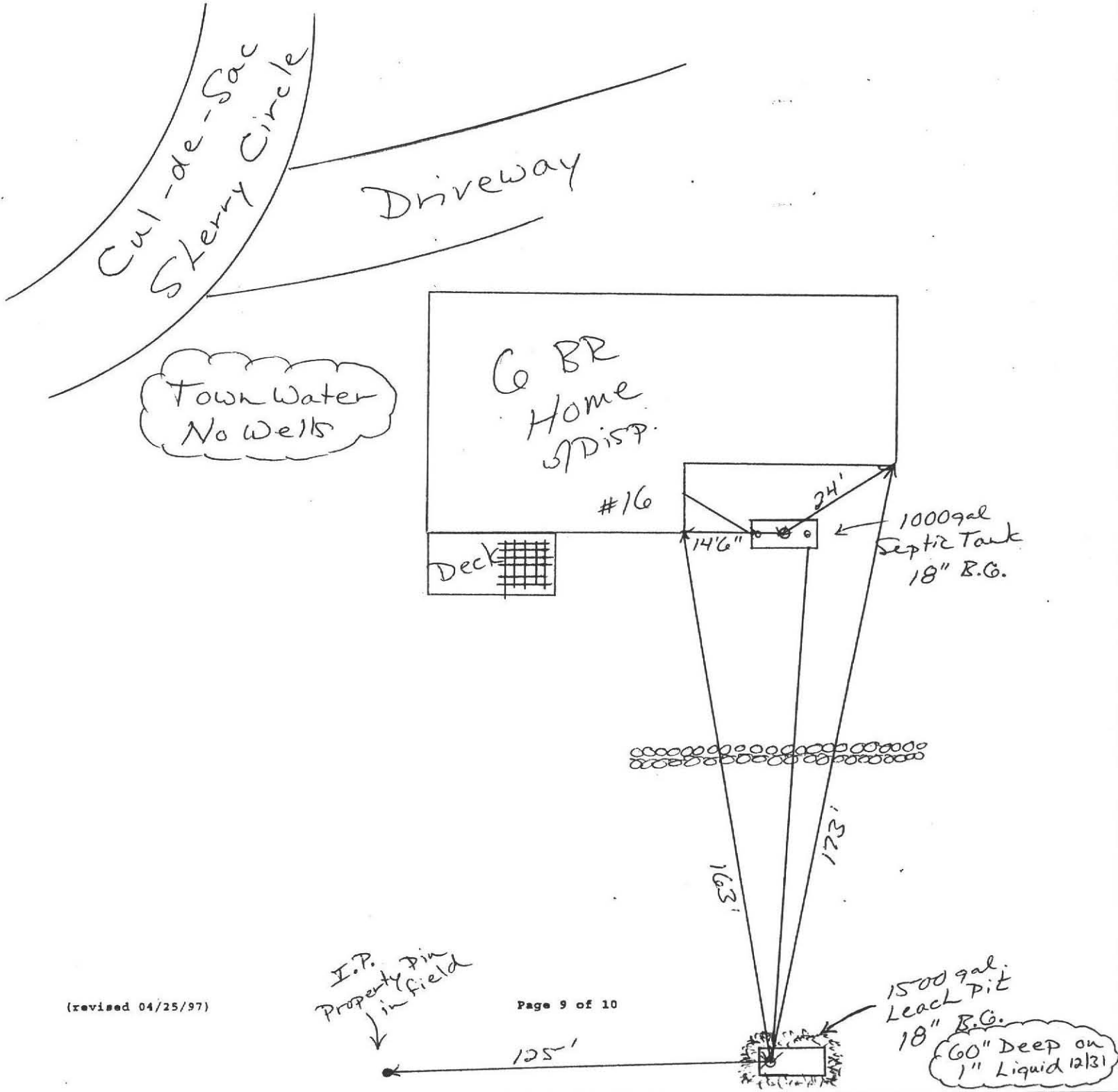
Per D.W.C.P. attached.

SUBSURFACE SEWAGE DISPOSAL SYSTEM INSPECTION FORM
PART C
SYSTEM INFORMATION (continued)

Property Address:
Owner:
Date of Inspection:

SKETCH OF SEWAGE DISPOSAL SYSTEM:

include ties to at least two permanent references landmarks or benchmarks
locate all wells within 100' (Locate where public water supply comes into house)





92-13
David E. Keates
5/23/92

011 1277
FEE 160.00
Pd Barbara Dailey
5/25/92

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 () or Repair (X) an Individual Sewage Disposal System at:

16 SHERRY CIRCLE Home # 253-9671

BARBARA DAILEY Location - Address or Lot No.

Richard Roberts Owner Address

Installer Address

Type of Building 4/ DESIGN GOOD FOR 6 BEDROOMS Size Lot 2.87 AC

Dwelling - No. of Bedrooms Expansion Attic () Garbage Grinder (X)

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

Other fixtures DESIGN PLAN = 834 GPD

Design Flow 55 gallons per person per day. Total daily flow 440 x 1.25 = 550 gallons.

Septic Tank - Liquid capacity gallons Length 11 FT EXISTING Diameter Depth

Disposal Trench - No. Width 11 FT Total Length 16 FT Total leaching area 257.2 sq. ft SIDE

Seepage Pit No. 1 Diameter Depth below inlet Total leaching area 176 sq. ft BOT

Other Distribution box () Dosing tank ()

Percolation Test Results Performed by DAVID E. KEATES, P.E. Date 5/22/92

Test Pit No. 1 7.2.0 minutes per inch Depth of Test Pit 132" Depth to ground water 7.132"

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

Description of Soil 0-4" TOPSOIL; 4"-18" SILTY SAND; 18"-30" FINE SAND; 30"-120" FINE GRAVEL; 120"-132" MED SAND

Nature of Repairs or Alterations Answer when applicable REPLACE INLET & OUTLET CARRIES W/ NEW PVC PIPE PER PLAN

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 Barbara W Dailey Date May 24, 1992

Application Approved By Date

Application Disapproved for the following reasons: Date

Permit No. 92-13 Issued Date

Richard Roberts

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

David E. Keates
5/3/92

Certificate of Compliance

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

by Richard Roberts Installer

at 16 Sherry Circle

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. 92-13 dated

THE ISSUANCE OF THIS CERTIFICATE SHALL NOT BE CONSTRUED AS A GUARANTEE THAT THE

SYSTEM WILL FUNCTION SATISFACTORY.

DATE 6/5/92 Inspector Roger Bennett

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

TOWN OF AMHERST

No. 92-13

Disposal Works Construction Permit

FEE 160.00
Pd B. Dailey
5/25/92

Permission is hereby granted Barbara Dailey

to Construct () or Repair (X) an Individual Sewage Disposal System

at No. 16 Sherry Circle

as shown on the application for Disposal Works Construction Permit No. 92-13 Dated

DATE 5/26/92 Board of Health

100

To: David Zarojinski
Amherst Health Dept.
70 Boltwood walk
Amherst, MA 01002-2128

RE: Daily septic system
16 Sherry Circle

Checked bottom of excavation at leaching
gallery at 12:30 on 6/3/92. Average
grade prior to placing stone was elev. 90.9
or 0.1 lower than design. Inv. outlet of
septic tank is elev. 104.84 or 0.26 ft lower
than estimated when tank was full. Pipe
grade was adjusted accordingly to flow
from tanks at the 2.0% called for.
Checked grade of trench at stone wall on
4/4/92 and it was right on grade at 103.9.
Invert at gallery is elev. 95.84.
Everything installed per plan.

David E. Keates

PROJECT

DAVID E. KEATES, P.E.
CONSULTING CIVIL ENGINEER
102 RUSSELL STREET
SUNDERLAND, MASSACHUSETTS 01375
Tel. 413-665-7670

$$\begin{array}{r}
 105.1 \\
 + 106.1 \\
 + 4.61 \\
 + 0.71 \\
 + 5.87 \\
 \hline
 104.84 \\
 100.00 \\
 \hline
 104.84
 \end{array}$$

6.15

$$\begin{array}{r}
 110.71 \\
 - 6.15 \\
 \hline
 104.55
 \end{array}$$

50