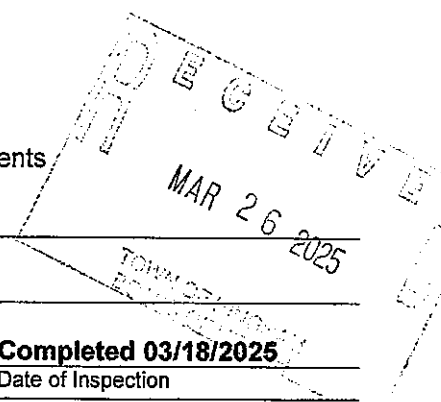




Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments



Owner information is required for every page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

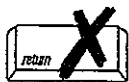
Zip Code

Completed 03/18/2025

Date of Inspection

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

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



A. Inspector Information

Christian A. Davis

Name of Inspector

Rosano Davis Sanitary Pumping, Inc.

Company Name

9 Rocky Lane

Company Address

Cohasset

City/Town

781-383-8888

Telephone Number

MA

State

02025

Zip Code

SI 14510

License Number

B. Certification

I certify that: I am a DEP approved system inspector in full compliance with Section 15.340 of Title 5 (310 CMR 15.000); I have personally inspected the sewage disposal system at the property address listed above; the information reported below is true, accurate and complete as of the time of my inspection; and the inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. After conducting this inspection I have determined that the system:

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

Inspector's Signature

03/21/2025

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 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 form should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Please note: 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.

Number of Bedrooms (Design): 4
Number of Bedrooms (Actual): 4
Estimated Depth to Ground Water:
Greater than 54" below grade.



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

C. Inspection Summary

Inspection Summary: Complete 1, 2, 3, or 5 and all of 4 and 6.

1) 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:

THE PROPERTY INSPECTED HAS BEEN VACANT FOR A PERIOD OF TIME SO THE INFORMATION HEREIN SHOULD BE USED CAUTIOUSLY. IT IS VERY DIFFICULT TO ACCURATELY ASSESS THE PERFORMANCE CAPABILITIES OF A SYSTEM WHEN NOT VIEWED UNDER NORMAL FLOW CONDITIONS. ANYONE RELYING ON THIS REPORT MAY REQUEST TO HAVE THE SYSTEM REINSPECTED WHEN UNDER NORMAL USAGE CONDITIONS. PLEASE REFER TO THE SECTION AT BOTTOM OF PAGE 1.

2) 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

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

C. Inspection Summary (cont.)

2) System Conditionally Passes (cont.):

☐ Pump Chamber pumps/alarms not operational. System will pass with Board of Health approval if pumps/alarms are repaired.

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

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

☐ obstruction is removed ☐ Y ☐ N ☐ ND (Explain below):

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

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

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

☐ obstruction is removed ☐ Y ☐ N ☐ ND (Explain below):

3) 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.

a. 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:

Owner
information is
required for every
page.



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

Owner
information is
required for every
page.

C. Inspection Summary (cont.)

- ☐ 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

b. 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.

c. Other:

4) System Failure Criteria Applicable to All Systems:

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



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

MA

02043

Completed 03/18/2025

City/Town

State

Zip Code

Date of Inspection

C. Inspection Summary (cont.)

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

Yes No

☐ ☒

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.

☐ ☒

Any portion of a cesspool or privy is within a Zone 1 of a public water supply 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 2000 gpd-10,000 gpd.

☐ ☒

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.

5) 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 C.4.

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



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

C. Inspection Summary (cont.)

If you have answered "yes" to any question in Section C.5 the system is considered a significant threat, or answered "yes" to any question in Section C.4 above the large system has failed. The owner or operator of any large system considered a significant threat under Section C.5 or failed under Section C.4 shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

6. You must indicate "yes" or "no" for each of the following for *all* inspections:

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)] |



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

D. System Information

1. Residential Flow Conditions:

Number of bedrooms (design): 4 Number of bedrooms (actual): 4 per homeowner
DESIGN flow based on 310 CMR 15.203 (for example: 110 gpd x # of bedrooms): 440 gpd

Description:

Number of current residents: 0

Does residence have a garbage grinder? ☐ Yes ☒ No

Does residence have a water treatment unit? ☐ Yes ☒ No

If yes, discharges to: _____

Is laundry on a separate sewage system? (Include laundry system inspection information in this report.) ☐ Yes ☒ No

Laundry system inspected? ☐ Yes ☐ No

Seasonal use? ☐ Yes ☒ No

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

Detail:

Water meter readings were not available at time of inspection.

Sump pump? ☐ Yes ☒ No

Last date of occupancy: Approx. early Feb. 2025



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

D. System Information (cont.)

2. Commercial/Industrial Flow Conditions:

Type of Establishment: _____

Design flow (based on 310 CMR 15.203): _____

Gallons per day (gpd) _____

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

Grease trap present?

☐ Yes ☐ No

Water treatment unit present?

☐ Yes ☐ No

If yes, discharges to: _____

Industrial waste holding tank present?

☐ Yes ☐ No

Non-sanitary waste discharged to the Title 5 system?

☐ Yes ☐ No

Water meter readings, if available: _____

Last date of occupancy/use: _____

Date

Other (describe below): _____

3. Pumping Records:

Source of information:

**Rosano Davis pumped septic tank last on
10/31/2023.**

Was system pumped as part of the inspection?

☒ Yes ☐ No

If yes, volume pumped:

1,500 gallons
gallons

How was quantity pumped determined?

Sight glass on pump truck.

Reason for pumping:

**Required and to determine structural integrity and
watertightness of septic tank.**



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

D. System Information (cont.)

4. 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):

Septic tank, pump chamber, distribution box, soil absorption system.

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

Revised As-Built dated 04/03/2013.

Were sewage odors detected when arriving at the site?

☐ Yes ☒ No

5. Building Sewer (locate on site plan):

Depth below grade:

38"
feet

Material of construction:

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

Schedule 40 PVC inlet pipe.

Distance from private water supply well or suction line:

Homeowner indicated no known wells in immediate area.

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

Inlet pipe appeared to be clean and flowing freely. No evidence of leakage.



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

D. System Information (cont.)

6. Septic Tank (locate on site plan):

Depth below grade:

24" w/riser on outlet to grade.
feet

Material of construction:

☒ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (explain)

1,500-gallon precast concrete septic tank.

If tank is metal, list age:

years

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

☐ Yes ☐ No

Dimensions:

5' wide x 5' deep x 10' long

Sludge depth:

3"

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

A-100 Zabel filter in place.

Scum thickness

2"

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

A-100 Zabel filter in place.

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

A-100 Zabel filter in place.

How were dimensions determined?

Measured with a tape.

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

1,500-gallon septic tank was pumped at time of inspection. Tank was structurally sound and watertight and all effluent levels were at an appropriate height. Inlet tee and A-100 Zabel effluent filter in place. There are no repairs recommended at this time.



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

D. System Information (cont.)

7. Grease Trap (locate on site plan):

Depth below grade:

feet

Material of construction:

☐ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (explain):

Dimensions:

Scum thickness

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

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

Date of last pumping:

Date

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

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

Depth below grade:

Material of construction:

☐ concrete

☐ metal

☐ fiberglass

☐ polyethylene

☐ other (explain):

Dimensions:

Capacity:

gallons

Design Flow:

gallons per day



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

D. System Information (cont.)

8. Tight or Holding Tank (cont.)

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

9. 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 was deteriorated at time of inspection so it was replaced and inspected by the Board of Health. Box will provide even distribution of effluent into SAS due to speed levellers being installed. Box is 15" below grade. There are no other repairs recommended at this time.



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

D. System Information (cont.)

10. Pump Chamber (locate on site plan):

Pumps in working order:

☒ Yes

☐ No*

Alarms in working order:

☒ Yes

☐ No*

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

1,000-gallon pump chamber was structurally sound and watertight. Pump and alarm were in proper working order. Tank is 24" below grade with cover over pump on risers to grade. There are no repairs recommended at this time.

* If pumps or alarms are not in working order, system is a conditional pass.

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

If SAS not located, explain why:

Type:

☐

leaching pits

number:

☒

leaching chambers

number:

28

☐

leaching galleries

number:

☐

leaching trenches

number, length:

☐

leaching fields

number, dimensions:

☐

overflow cesspool

number:

☐

innovative/alternative system

Type/name of technology:



Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Owner
information is
required for every
page.

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

D. System Information (cont.)

11. Soil Absorption System (SAS) (cont.)

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

SAS consists of (28) ADS Arc36 LP leaching chambers. There was no surface wetness or breakout observed. There were no signs of hydraulic failure observed. SAS appeared to be in proper working order. There are no repairs recommended at this time.

12. 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.):



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

City/Town

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

Owner
information is
required for every
page.

D. System Information (cont.)

13. **Privy** (locate on site plan):

Materials of construction:

Dimensions

Depth of solids

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



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

City/Town

Owner
information is
required for every
page.

D. System Information (cont.)

14. 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



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

Owner
information is
required for every
page.

D. System Information (cont.)

15. Site Exam:

- ☐ Check Slope
- ☐ Surface water
- ☐ Check cellar
- ☐ Shallow wells

Estimated depth to high ground water:

SEE BELOW

feet

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

- ☐ Obtained from system design plans on record
If checked, date of design plan reviewed: _____
Date
- ☒ Observed site (abutting property/observation hole within 150 feet of SAS)
- ☐ Checked with local Board of Health - explain:

- ☐ Checked with local excavators, installers - (attach documentation)
- ☐ Accessed USGS database - explain:

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

An observation hole was dug adjacent to the SAS to a depth of 54" and engineer Paul Graeme Gunn, S.E. of Morse Engineering Co., Inc. performed a soil evaluation and observed no redoximorphic features, weeping or standing water within the test hole. Elevations were then carried over by instrument to determine the bottom of the SAS. It was then determined that separation exists from the bottom of the SAS to the seasonal high ground water elevation. Please see attached Soil Suitability Assessment report.

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

5 Richard Road, Hingham

Property Address

Michelle Doran

Owner's Name

5 Richard Road, Hingham,

MA

State

02043

Zip Code

Completed 03/18/2025

Date of Inspection

E. Report Completeness Checklist

Complete all applicable sections of this form inclusive of:

☒ A. Inspector Information: Complete all fields in this section.

☒ B. Certification: Signed & Dated and 1, 2, 3, or 4 checked

☒ C. Inspection Summary:

1, 2, 3, or 5 completed as appropriate

4 (Failure Criteria) and 6 (Checklist) completed

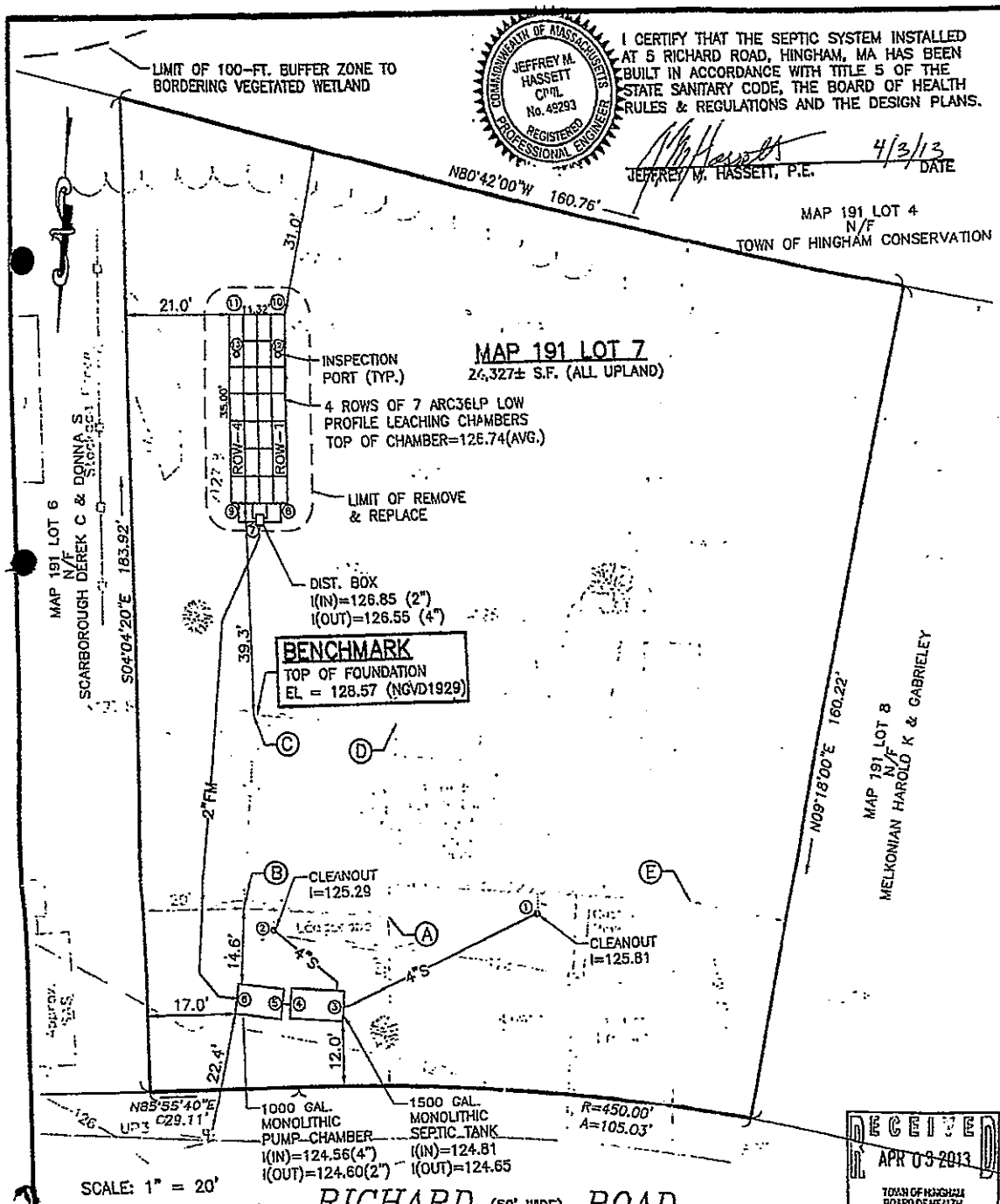
☒ D. System Information:

For 8: Tight/Holding Tank – Pumping contract attached

For 14: Sketch of Sewage Disposal System drawn on pg. 16 or attached

For 15: Explanation of estimated depth to high groundwater included

Owner
information is
required for every
page.



DESC.	CLEAN OUT ①	CLEAN OUT ②	SEPTIC TANK IN ③	SEPTIC TANK OUT ④	PUMP CHAMBER IN ⑤	PUMP CHAMBER OUT ⑥	DIST. BOX ⑦	LEACHING START ROW 1 ⑧	LEACHING START ROW 4 ⑨	LEACHING END ROW 1 ⑩	LEACHING END ROW 4 ⑪	INSP. PORT ROW 1 ⑫	INSP. PORT ROW 4 ⑬
A	30.0'	23.0'	20.2'	24.7'	27.9'	32.4'							
B		7.2'	25.9'	20.9'	19.1'	17.9'							
C							36.0'	39.4'	39.2'	74.6'	74.6'	66.9'	66.8'
D							46.2'	46.4'	51.4'	79.3'	82.4'	72.0'	75.2'
E	31.3'												

PREPARED BY: 19 UNION STREET P.O. BOX 92 SCITUATE, MA 02066 (781) 545-0895	PROJECT: SEPTIC SYSTEM AS-BUILT PLAN 5 RICHARD ROAD (ASSESSOR'S MAP 191 LOT 7) HINGHAM, MA	FIELD: JMH/GJM JOB NO: 12-366 DATE: 3/29/13
	PREPARED FOR: DMH REALTY TRUST 5 RICHARD ROAD HINGHAM, MA	REV: 4/3/13
	PLAN TITLE: SEPTIC SYSTEM AS-BUILT PLAN	SHEET: 1 OF 1



Commonwealth of Massachusetts
City/Town of Scituate – 5 Richard Road, Hingham
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

TP-1

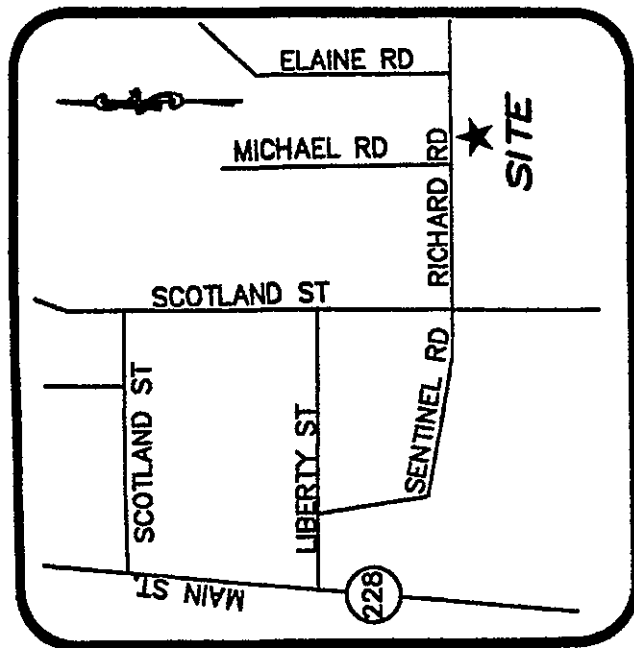
Deep Observation Hole Number:

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0-10	A	10YR 3/4	-	-	-	Sandy Loam	0	0	Granular	Friable	
10-28	Bw	10YR 5/8	-	-	-	Loamy Sand	0	0	Massive	Friable	
28-54	C	2.5Y 5/6	-	-	-	Medium Sand	5	5	Single Grain	Loose	

Additional Comments:

Redoximorphic features, weeping, and standing water were not observed within the test pit to a depth of 54" .

Soil Evaluation by: Paul Graeme Gunn, SE#14392
Date: 3/13/2025



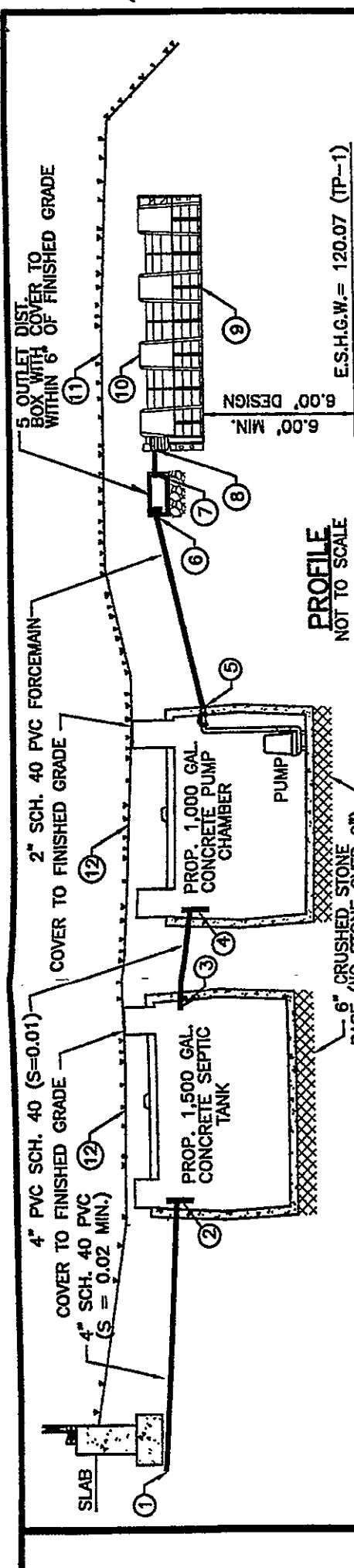
SITE LOCUS

NOT TO SCALE

SOIL TEST DATA

SOIL TESTING AND EVALUATION BY: JEFFREY M. HASSETT, P.E., DEP SE #12903
 SOIL TESTING WITNESSED BY: SUSAN ROWE - TOWN OF HINGHAM
 DATE: DECEMBER 19, 2012

TP-1	APPROX. GRADE EL. 127.4±	TP-2	APPROX. GRADE EL. 127.0±
EL. 126.73	A HORIZON SANDY LOAM 10YR 3/2 8"	EL. 126.17	A HORIZON SANDY LOAM 10YR 3/2 10"
EL. 125.73	B HORIZON LOAMY SAND 10YR 5/8 20"	EL. 125.50	B HORIZON LOAMY SAND 10YR 5/8 18"
EL. 120.07	C1 HORIZON COARSE SAND 2.5Y 5/3 88"	EL. 120.00	C1 HORIZON COARSE SAND 2.5Y 5/3 84"
EL. 117.40	C2 HORIZON LOAM 2.5Y 6/3 120"	EL. 117.00	C2 HORIZON LOAM 2.5Y 6/3 120"
WEeping OBSERVED: 90" (EL. 119.9) MOTTling OBSERVED: 88" (EL. 120.07) PERC. RATE: <2 MPI @ 24"-42" (C1 HORIZON) ESHGW: 88" (EL. 120.07)		WEeping OBSERVED: 90" (EL. 119.50) MOTTling OBSERVED: 84" (EL. 120.00) PERC. RATE: <2 MPI @ 0"-18" (B HORIZON) ESHGW: 88" (EL. 120.00)	



SCHEDULE OF ELEVATIONS

1. INV. OF PIPE AT FOUNDATION = 124.3± (CONTRACTOR TO VERIFY PRIOR TO CONST.)	7. INV. OF PIPE AT DISTRIBUTION BOX OUTLET = 126.44
2. INV. OF PIPE AT SEPTIC TANK INLET = 123.67	8. INV. OF PIPE AT INFILTRATION CHAMBER = 126.39
3. INV. OF PIPE AT SEPTIC TANK OUTLET = 123.42	9. BOTTOM OF CHAMBER = 126.07
4. INV. OF PIPE AT PUMP CHAMBER INLET = 123.40	10. TOP OF CHAMBER (BREAKOUT) = 126.74
5. INV. OF PIPE AT PUMP CHAMBER OUTLET = 123.40	11. FINISHED GRADE LEACHING CHAMBERS = 127.8(MIN) - 129.8(MAX)
6. INV. OF PIPE AT DISTRIBUTION BOX INLET = 126.61	12. FINISHED GRADE OVER TANKS = 125.4(MIN) - 127.4(MAX)

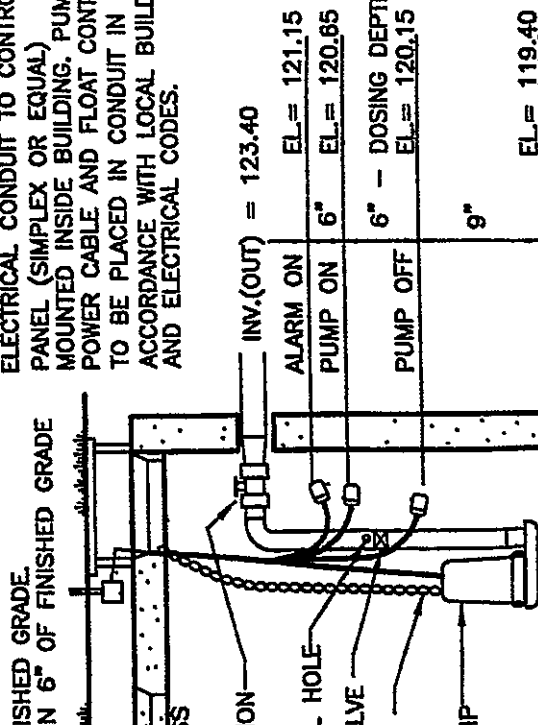
GENERAL NOTES

- SEPTIC SYSTEM INSTALLATION CONTRACTORS SHALL BE LICENSED BY THE BOARD OF HEALTH AND MUST COMPLY WITH ALL REQUIREMENTS OF THE BOARD OF HEALTH DISPOSAL WORKS CONSTRUCTION PERMIT AND ANY CONDITIONS, IF ISSUED BY THE CONSERVATION COMMISSION.
- ALL CONSTRUCTION MUST COMPLY WITH TITLE 5 OF THE STATE ENVIRONMENTAL CODE
- 310 CMR 15 & THE ANY LOCAL BOARD OF HEALTH SUPPLEMENTAL REGULATIONS.
- THERE SHALL BE NO CHANGES MADE IN THIS PLAN WITHOUT THE WRITTEN PERMISSION OF THE BOARD OF HEALTH AND DESIGN ENGINEER.
- ANY CHANGE IN SITE CONDITIONS, DISCREPANCIES, ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF MORSE ENGINEERING PRIOR TO THE COMMENCEMENT OF WORK.
- THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH TITLE 5 (310 CMR 15) AND THE LOCAL BOARD OF HEALTH REQUIREMENTS TO THE FULLEST EXTENT PRACTICABLE. NO GUARANTEE TO THE SYSTEMS PERFORMANCE IS EXPRESSED OR IMPLIED.
- SOIL TEST DATA SHOWN IS LIMITED TO THE CONDITIONS EXISTING AT THE SUBJECT TEST PIT LOCATION ONLY. IF DIFFERENT SOIL CONDITIONS ARE FOUND IN THE AREA OF THE PROPOSED SOIL ABSORPTION SYSTEM THEY SHALL BE BROUGHT TO THE ATTENTION OF MORSE ENGINEERING IMMEDIATELY.
- THE CONTRACTOR SHALL NOTIFY DISAFA PRIOR TO ANY EXCAVATION AT THE SUBJECT PROPERTY. IT IS SPECIFICALLY CAUTIONED THAT THE SUBSURFACE UTILITIES SHOWN ARE APPROXIMATE ONLY AND HAVE BEEN COMPILED FROM AVAILABLE RECORDS AND OBSERVABLE SITE FEATURES. UTILITIES OTHER THAN THOSE SHOWN MAY BE PRESENT AT THIS LOCATION. THIS PLAN HAS BEEN PREPARED SPECIFICALLY AS A SEPTIC SYSTEM DESIGN AND IS NOT TO BE USED TO ESTABLISH PROPERTY LINES OR BUILDING SETBACKS. PROPERTY LINES AND BUILDING LOCATIONS ARE GRAPHIC ONLY. PROPERTY LINES NOT HAVING BEEN VERIFIED. NO REPRESENTATION OR CERTIFICATION AS TO THE ACCURACY OF THOSE SHOWN IS IMPLIED. PROPOSED FOUNDATIONS AND RETAINING WALLS (EXCEEDING 4-FT. HEIGHT) SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER.
- ALL CONSTRUCTION DEBRIS SHALL BE PROPERLY CONTAINED IN AN ON-SITE DUMPSTER AND SHALL BE COVERED DURING PERIODS OF HIGH WIND. ALL DEBRIS SHALL BE REMOVED FROM THE SITE ON A REGULAR BASIS AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

CONSTRUCTION NOTES

CHAMBER DETAIL

ELECTRICAL CONDUIT TO CONTROL PANEL (SIMPLEX OR EQUAL) MOUNTED INSIDE BUILDING. PUMP POWER CABLE AND FLOAT CONTROL TO BE PLACED IN CONDUIT IN ACCORDANCE WITH LOCAL BUILDING AND ELECTRICAL CODES.



TITLE 5 SAND FILL SHALL COMPLY WITH THE FOLLOWING:

SIEVE SIZE	PARTICLE SIZE	% PASSING SIEVE
#4	4.75 mm	100%
#50	0.30 mm	10 - 100%
#100	0.15 mm	0 - 20%
#200	0.075 mm	0 - 5%

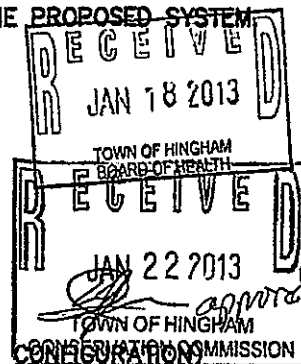
- THE CONTRACTOR SHALL PREVENT ANY HEAVY CONSTRUCTION MACHINERY AND/OR TRUCKS FROM DRIVING OVER THE PROPOSED SOIL ABSORPTION SYSTEM LOCATION.
- THE CONTRACTOR SHALL INSTALL MAGNETIC TAPE OVER SYSTEM PIPING & COMPONENTS FOR FUTURE SUBSURFACE LOCATION.
- THE DESIGN ENGINEER SHALL CERTIFY AND PREPARE AN "AS-BUILT" PLAN FOR SUBMITTAL TO THE BOARD OF HEALTH UPON SEPTIC SYSTEM COMPLETION.
- ALL DISTURBED AREAS SHALL BE RESTORED WITH 4" LOAM & SEED POST CONSTRUCTION.
- CONTRACTOR TO ABANDON EXISTING SEPTIC COMPONENTS IN ACCORDANCE WITH TITLE V AND LOCAL REQUIREMENTS.

SITE NOTES

- LOCUS DOES LIES WITHIN A DEP DESIGNATED ZONE II RESOURCE AREA.
- THERE ARE NO KNOWN WETLAND RESOURCE AREAS WITHIN 100' OF THE PROPOSED WORK. OFF-SITE WETLAND RESOURCE AREAS WERE DELINEATED BY BRAD HOLMES, P.W.S.
- PROPERTY LINE DATA WAS OBTAINED FROM BOOK 11002 PAGE 314 AND PLAN BOOK 10 PAGES 854-857 ON RECORD AT THE PLYMOUTH COUNTY REGISTRY OF DEEDS.
- LOCUS LIES IN FEMA FLOOD ZONE "X" AS SHOWN ON FEMA COMMUNITY PANEL 25023C 0111J DATED JULY 17, 2012.
- THERE ARE NO KNOWN EASEMENTS ARE SHOWN ON THE SUBJECT PROPERTY.
- ALL KNOWN SEPTIC SYSTEMS WITHIN 100' OF THE PROPOSED SYSTEM ARE SHOWN.
- THERE ARE NO ACTIVE/POTABLE WELLS OBSERVED WITHIN 500' OF THE PROPOSED SYSTEM.

DESIGN DATA

- BUILDING TYPE: RESIDENTIAL
- NO. OF BEDROOMS: 4
- DESIGN FLOW: 4 BEDROOMS x 110 G.P.D./BED = 440 G.P.D.
- DESIGN PERCOLATION RATE: <2 MPI (CLASS I SOILS)
- GARBAGE DISPOSAL: NO
- SEPTIC TANK DESIGN REQUIREMENT: 200% DESIGN FLOW
440 X 2 = 880 GAL (USE 1500 GAL SEPTIC TANK)
- LEACH AREA REQUIREMENTS GALLONS/SQ. FT. (CLASS I SOIL)
BOTTOM: 0.74 GAL./S.F. SIDE: 0.74 GAL./S.F.
- TOTAL LEACH AREA REQUIRED:
TITLE 5: 440 GPD / (0.74 GPD/S.F.) = 595 S.F.
PROVIDED: 28 ADS ARC36LP LOW PROFILE LEACHING CHAMBERS (BED CONFIGURATION)
EFFECTIVE AREA = 28 CHAMBERS x 5'L (ea.) x 4.73 S.F./L.F.* = 662 S.F.
CAPACITY = 662 S.F. x 0.74 G.P.D./S.F. = 490 G.P.D.
*EFFECTIVE AREA PER GENERAL USE CERTIFICATION ISSUED BY DEP.



INSTALLATION TIMES	PREPARED BY: MORSE ENGINEERING CO., INC. 19 UNION STREET P.O. BOX 92 SCITUATE, MA 02066 (781) 545-0895
PROJECT: SEPTIC SYSTEM DESIGN PLAN 5 RICHARD ROAD (ASSESSOR'S MAP 191 LOT 7) HINGHAM, MA PREPARED FOR: DMH REALTY TRUST 5 RICHARD ROAD HINGHAM, MA	DESIGN: JMH JOB NO: 12-366 DATE: 1/2/12 REV: 1/18/13 SHEET:
PLAN TITLE: SEPTIC SYSTEM DESIGN PLAN	1 OF 1

HEALTH DEPT.

THE LICENSED DISPOSAL WORKS
TIMES DURING INSTALLATION

**TOWN OF HINGHAM BOARD OF HEALTH
HINGHAM, MASSACHUSETTS
LOCAL UPGRADE APPROVAL**

Facility/system owner: Name: DMH Reality Trust
Address: 5 Richard Road
Facility Address: 5 Richard Road, Hingham, MA 02043

Type of facility: Residential ☒ Institutional ☐ Commercial ☐ School ☐

Application: Design flow per 310 CMR 15.203 440 gpd
Repair/Replace/Upgrade x Install/New Construction ☐

System designer: Name : Jeffrey M. Hassett, P.E., Morse Engineering Co., Inc.
Address: 19 Union Str., P.O. Box 92, Scituate, MA 02066
Telephone: 781-545-0895

Plan Specifications: Title: Sewage System Design Plan
Date: 1/2/12 Revised Date: 1/18/13

Disposal Works Construction Permit Number: DWCP # 95-12
Date of DWCP Approval: January 28, 2013

Conditions:

1. Construction is to conform to the plan described herein.
2. The system is not designed to accommodate a garbage disposal. As such, one shall not be used or installed at this facility.
3. There shall be no increase in design flow to the upgraded Sewage Disposal System. The design flow for the facility is 440 gpd.
4. An As-Built plan is to be submitted to the Hingham Health Department upon completion of the Sewage Disposal System.
5. The Hingham Health Department and the designing engineer are to be notified for inspections of the Sewage Disposal System during construction.
6. A 1500G (monolithic) tank to be used as a septic tank and a 1000G monolithic tank shall be used as a pump station.
7. The installation of an effluent filter on the outlet tee of the septic tank will be routinely cleaned according to manufacturer's instructions by a Town of Hingham licensed septage hauler. A metal manhole cover is to be labeled to indicate the presence of the "Filter" and is to be set a finish grade.

NOTICE: Please be advised that the processing of a Certificate of Compliance will take 48 hours from the completion and inspection of the installation of the Sewage Disposal System and receipt by the Board of Health of all required paperwork, including a completed as-built plan.

Environmentally, the existing failed subsurface Sewerage Disposal System is not as protective as the proposed design. Furthermore, it would be manifestly unjust not to allow the upgrade of the failed subsurface Sewerage Disposal System.

Board of Health Approving Authority: Bruce T. Capman R.S., Executive Health Officer
(Name & Title)


Signature

Hingham, MA
(City/Town)

January 28, 2013
(Date)

cc: Owner
Installer
Designing PE
Building Dept
DPW
BOH File

No. 95-12

THE COMMONWEALTH OF MASSACHUSETTS

BOARD OF HEALTH

Town Hingham OF Hingham

RECEIVED	FEE <u>200</u>
JAN 3 2013	6729
TOWN OF HINGHAM BOARD OF HEALTH	

APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Application for a Permit to Construct ☒ Repair () Upgrade () Abandon () - ☒ Complete System ☐ Individual Components

<u>5 RICHARD ROAD</u> Location	<u>DMH REALTY TRUST</u> Owner's Name
<u>MAP 191</u> Map/Parcel #	<u>5 RICHARD RD, HINGHAM</u> Address
<u>LOT 7</u> Lot #	<u>781 749 1359</u> Telephone #
<u>Jeff Morse</u> Installer's Name	<u>JEFFREY M. HASSETT, P.E. - MORSE ENGINEERING</u> Designer's Name
<u>(3-14-13)</u> Address	<u>PO BOX 92 SCITUATE MA 02066</u> Address
<u>cell 781 706 1556</u> Telephone #	<u>781 545 0895</u> Telephone #

Type of Building: RESIDENTIAL Lot Size 24,327 Sq. feet
 Dwelling — No. of Bedrooms 4 Garbage Grinder () NO
 Other — Type of Building _____ No. of persons _____ Showers (), Cafeteria ()
 Other fixtures _____

Design Flow (min. required) 440 gpd Calculated design flow 490 gpd Design flow provided 490 gpd
 Plan Date 1/2/12 Number of sheets 1 Revision Date _____
 Title SEPTIC SYSTEM DESIGN PLAN

Description of Soil(s) COURSE SAND - CLASS I - < 2 MPI
 Soil Evaluator Form No. 11812 Name of Soil Evaluator J. HASSETT, P.E. Date of Evaluation 12/14/12

DESCRIPTION OF REPAIRS OR ALTERATIONS INSTALL NEW 1500 GAL SEPTIC TANK, 1000 GAL. PUMP CHAMBER & DISTRIBUTION BOX & 4 ROWS OF 7 ABC 36 LOW PROFILE REACHING CLIMBERS IN BED CONFIGURATION.

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

Signed [Signature] Date 1/2/12

Inspections 3/18/12 Tank Hoist 3/18/13 Pump Inspected

Alt tank pump will be water tested 3/26/13 FUEL NSP
 FORM 1 - APPLICATION FOR DSCP DEP APPROVED FORM 5/96 WMP/mer OK - SR

No. 95-12

THE COMMONWEALTH OF MASSACHUSETTS

FEE 200Hingham BOARD OF HEALTH

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: Jeff Morse
 at 5 Richard Road

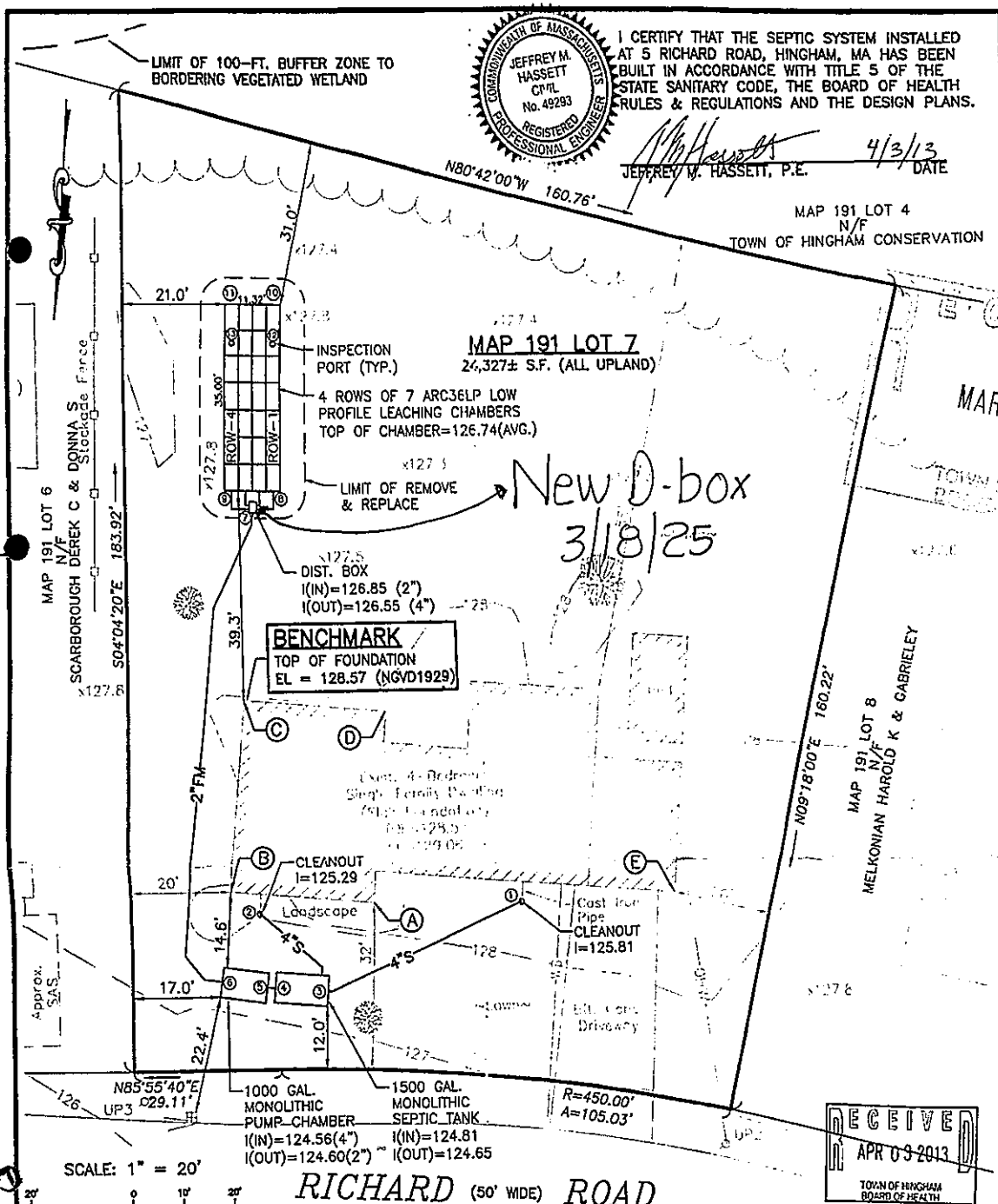
has been installed in accordance with the provisions of 310 CMR 15.00 (Title 5) and the approved design plans/as-built plans relating to application No. 95-12 dated 1/2/12 Approved Design Flow 440 (gpd)

Installer Jeff H. MorseDesigner: [Signature] Inspector Bruce Caplan Date April 3, 2013

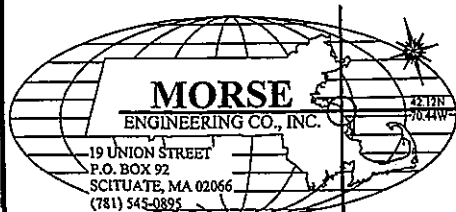
The issuance of this certificate shall not be construed as a guarantee that the system will function as designed.

FORM 3 - CERTIFICATE OF COMPLIANCE

DEP APPROVED FORM 5/96



PREPARED BY:



PROJECT:

SEPTIC SYSTEM AS-BUILT PLAN
 5 RICHARD ROAD
 (ASSESSOR'S MAP 191 LOT 7)
 HINGHAM, MA

PREPARED FOR:

DMH REALTY TRUST
 5 RICHARD ROAD
 HINGHAM, MA

PLAN TITLE:

SEPTIC SYSTEM AS-BUILT PLAN

FIELD:
JMH/GJM

JOB NO:
12-366

DATE:
3/29/13

REV:
4/3/13

SHEET:

1 OF 1