# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept.Health & Human Services Division of Health Engineering, 10 SHS (207) 287-5672 Fax: (207) 287-3165

## PROPERTY LOCATION

>>CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW<<

| | |
|---|---|
| City, Town, or Plantation | AUGUSTA PIF 3/31/15 |
| Street or Road | 674 SOUTH BELFAST AVENUE |
| Subdivision, Lot # | MH L66 |

## OWNER/APPLICANT INFORMATION

| | |
|---|---|
| Name (last, first, MI | Shea, Steve — ☐ Owner ☑ Applicant |
| Mailing Address of Applicant | 670 150th Ave North, Lot #707<br>Clearwater, FL 33764 |
| Daytime Tel.# | 727-386-5310 |

AUGUSTA PERMIT #7040 TOWN COPY
Date Permit Issued: 3/31/15 $ 150.00 fee
15.00
LPI # 850

### Owner or Applicant Statement

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit

Signature of Owner or Applicant — Date 3/31/15

### CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposa rules Application. _____ (1st) date approved

Local Plumbing Inspector Signature — (2nd) date approved

## PERMIT INFORMATION

**TYPE OF APPLICATION**
- ☐ 1. First Time System
- ☑ 2. Replacement System

Type replaced: **Trench**

Year installed:
- ☐ 3. Expanded System
  - ☐ a. <25% expansion
  - ☐ b. >25% expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion

**THIS APPLICATION REQUIRES**
- ☐ 1. No Rule Variance
- ☐ 2. First Time System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☑ 3. Replacement System Variance
  - ☑ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 4. Minimum Lot Size Variance
- ☐ 5. Seasonal Conversion Prmit

**DISPOSAL SYSTEM COMPONENTS**
- ☐ 1. Complete Non-engineered System
- ☐ 2. Primitive System 9graywater & alt. toilet)
- ☐ 3. Alternative Toilet, specify:
- ☐ 4. Non-engineered Treatment Tank (only)
- ☐ 5. Holding Tank, _____ gallons
- ☑ 6. Non-engineered Disposal Field (only)
- ☐ 7. Separated laundry System
- ☐ 8. Complete Engineered System (2000 gpd or more)
- ☐ 9. Engineered Treatment Tank (only)
- ☐ 10. Engineered disposal field (only)
- ☐ 11. Pre-treatment, specify:
- ☐ 12. Miscellaneous components

**SIZE OF PROPERTY**
30,000 ☑ SQ.FT. ☐ ACRES

**SHORELAND ZONING**
☐ Yes ☑ No

**DISPOSAL SYSTEM TO SERVE**
- ☑ 1. Single Family Dwelling Unit, No.of Bedrooms: 3
- ☐ 2. Multiple Family Dwelling, No. of Units:
- ☐ 3. Other: Specify

Current Use ☐ Seasonal ☑ Year Round ☐ Undeveloped

**TYPE OF WATER SUPPLY**
- ☑ 1. Drilled Well ☐ 2. Dug Well ☐ 3. Pri
- ☐ 4. Public ☐ 5. Other

## DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

**TREATMENT TANK**
- ☑ 1. Concrete **Existing**
  - ☑ a. Regular
  - ☐ b. Low Profile
- ☐ 2. Plastic
- ☐ 3. Other:

CAPACITY: 1,000

**DISPOSAL FIELD TYPE & SIZE**
- ☑ 1. Stone Bed ☐ 2. Stone Trench
- ☐ 3. Proprietary Device
  - ☐ a. cluster array ☐ c. Linear
  - ☐ b. regular load ☐ d. H-20 load
- ☐ 4. Other:

Size: 1,000 ☑ sq. ft. ☐ lin. ft.

**GARBAGE DISPOSAL UNIT**
☑ 1. No ☐ 2. Yes ☐ 3. Maybe

If Yes or Maybe, specify one below:
- ☐ a. Multi-compartment tank
- ☐ b. _____ tanks in series
- ☐ c. Increase in tank capacity
- ☐ d. Filter on Tank Outlet

**DESIGN FLOW**

270 gallons per day

BASED ON:
- ☑ 1. Table 501.1 (dwelling unit(s))
- ☐ 2. Table 501.2 (other facilities)

SHOW CALCULATIONS for other facilities

☐ 3. Section 503.0 (meter readings)
ATTACH WATER METER DATA

**SOIL DATA & DESIGN CLASS**

| PROFILE | CONDITION | DESIGN |
|---|---|---|
| 3 | c | |

at Observation Hole #
Depth 24"
of Most Limiting Soil Factor

**DISPOSAL FIELD SIZING**
- ☐ 1. Medium---2.6 sq. st. / gpd
- ☑ 2 Medium---Large 3.3 sq. f.t/gpd
- ☐ 3 Large---4.1 sq. ft. / gpd
- ☐ 4 Extra Large---5.0 sq. ft / gpd

**EFFLUENT/EJECTOR PUMP**
- ☐ 1. Not Required
- ☑ 2. May Be Required
- ☐ 3. Required

Specify only for engineered systems: DOSE: _____ gallons

**LATITUDE AND LONGITUDE**
at center of disposal area

| | | | |
|---|---|---|---|
| Lat. | 44 d | 18 m | 762 s |
| Lon. | 69 d | 42 m | 051 s |

If g.p.s., state margin or error:

## SITE EVALUATOR STATEMENT

I certify that on 30-Mar-15 (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal rules (10-144A CMR 241).

Site Evaluator Signature — S.E. # 301 — 3/30/2015

Stephen P. Robbins — 377-6707 — narrowspd@aol.com

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator



HHE-200 Rev. 8/11

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Division of Health Engineering, 10 SHS
(207) 287-5672 Fax: (207) 287-3165

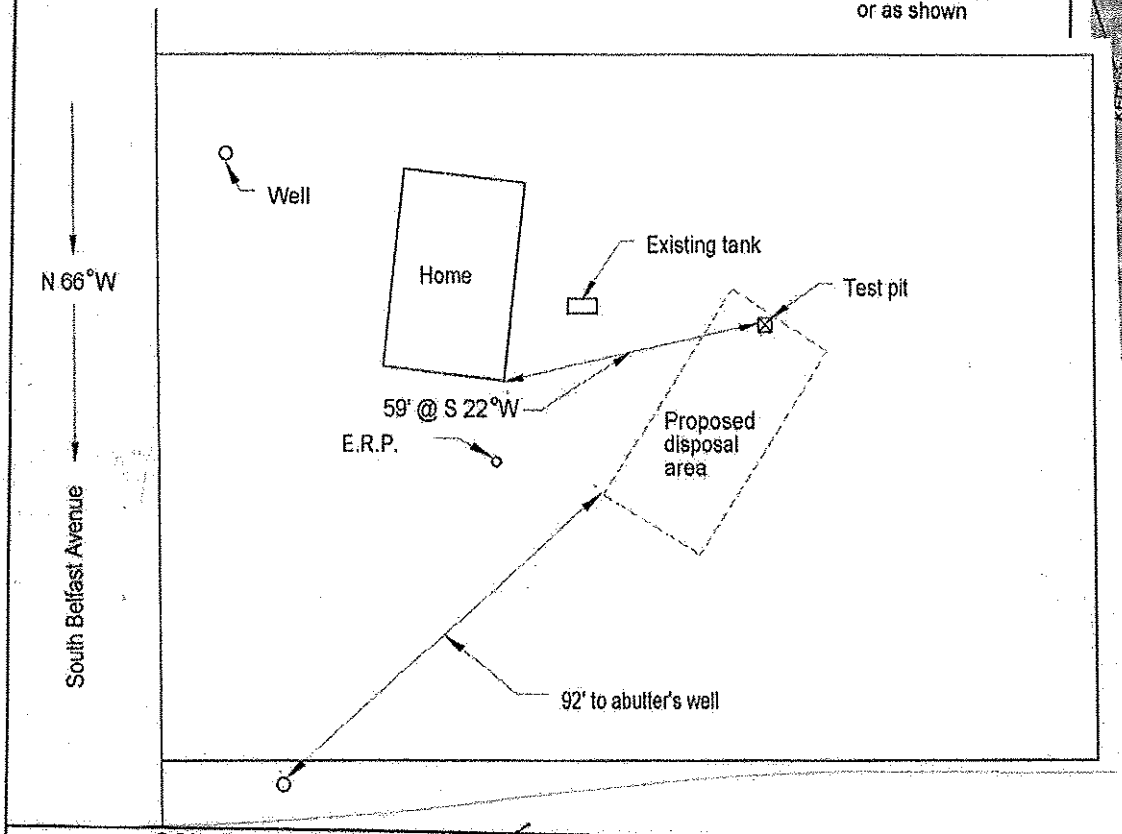
Town, City, Plantation: **AUGUSTA**

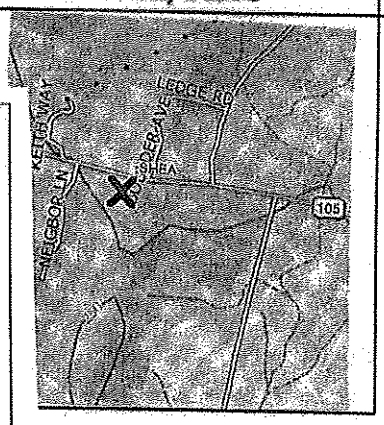
Street, Road Subdivision: **674 SOUTH BELFAST AVENUE,**

Owner's Name: **Shea, Steve**

## SITE PLAN

Scale 1" = **60** Ft. or as shown




## SOIL DESCRIPTION AND CLASSIFICATION (LOCATION OF OBSERVATION HOLES SHOWN ABOVE)

Observation Hole #1 ☑ Test Pit ☐ Boring

1 " Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

| Depth | Texture | Consistency | Color | Mottling |
|---|---|---|---|---|
| 0 | Fine sandy loam | Friable | Brown | |
| 10 | | | Red brown | |
| 20 | | | Olive yellow | |
| 30 | | Somewhat firm | | Few |
| 40 | | | | |
| 50 | | | | |

| Soil Classification | | Slope | Limiting Factor | |
|---|---|---|---|---|
| 3 | C | | | ☑ Ground Water |
| Profile | Condition | 0-3% | 24" | ☐ Restrictive Layer |
| | | | | ☐ Bedrock |
| | | | | ☐ Pit Depth |

Observation Hole ____ ☐ Test Pit ☐ Boring

" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)

| Depth | Texture | Consistency | Color | Mottling |
|---|---|---|---|---|
| 0 | | | | |
| 10 | | | | |
| 20 | | | | |
| 30 | | | | |
| 40 | | | | |
| 50 | | | | |

| Soil Classification | | Slope | Limiting | |
|---|---|---|---|---|
| | | | | ☐ Ground Water |
| Profile | Condition | | | ☐ Restrictive Layer |
| | | | | ☐ Bedrock |
| | | | | ☐ Pit Depth |

**Stephen P. Robbins**
Site Evaluator Signature

**301**
SE #

**3/30/2015**
Date



HHE-200 Rev 7/97

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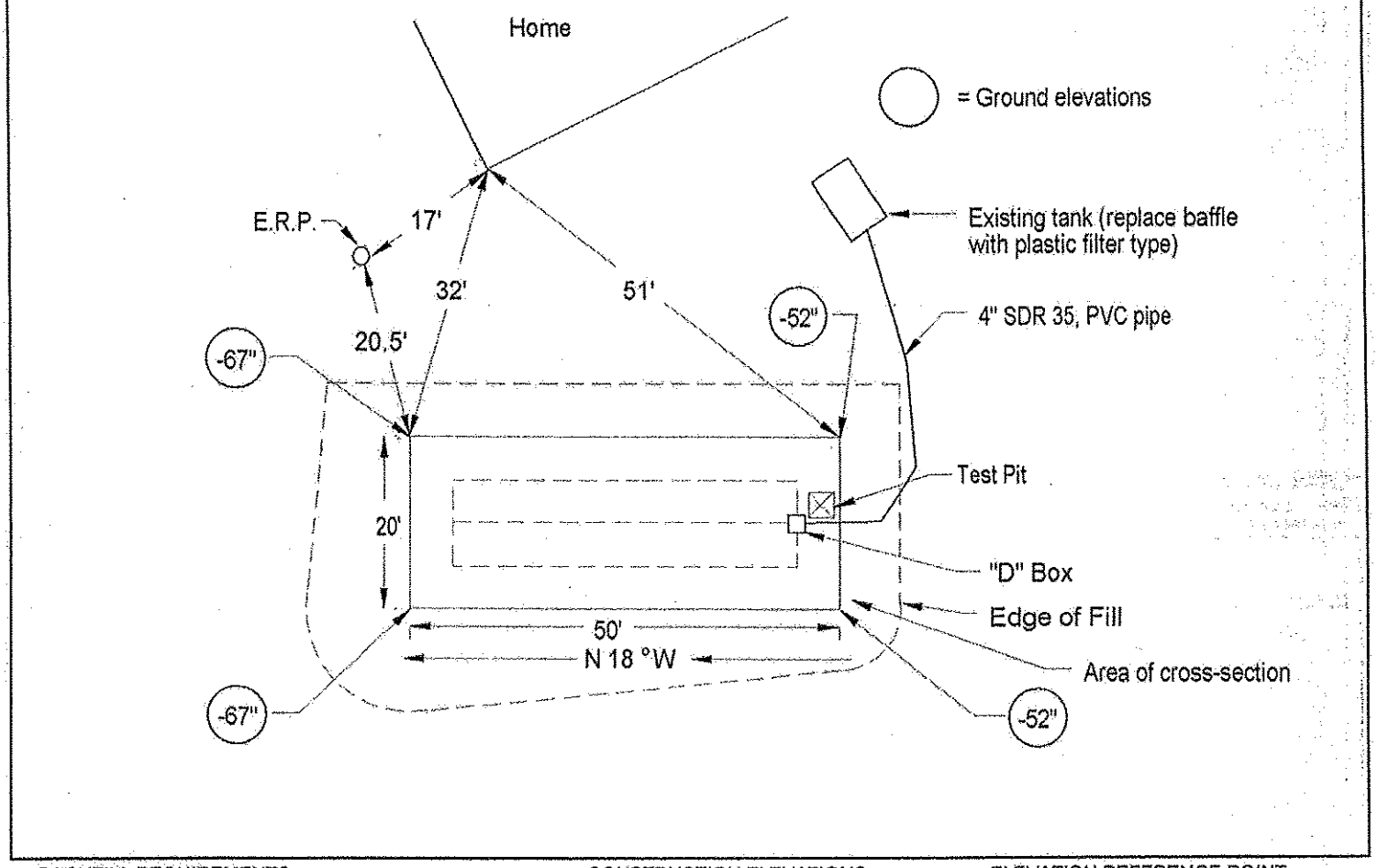
Division of Health Engineering, 10 SHS
(207) 287-5672 Fax: (207) 287-3165

| Town, City, Plantation | Street, Road, Subdivision | Owner or Applicant Name |
|---|---|---|
| **AUGUSTA** | **674 SOUTH BELFAST AVENUE,** | **Shea, Steve** |

## SUBSURFACE WASTEWATER DISPOSAL PLAN

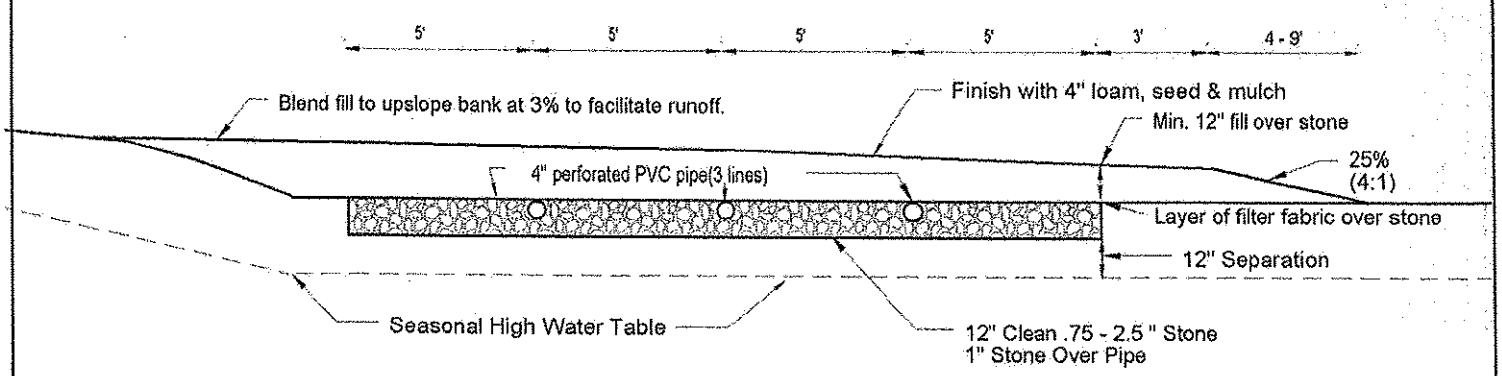
**Scale: 1"= 20 ft.**




| BACKFILL REQUIREMENTS | | CONSTRUCTION ELEVATIONS | | ELEVATION REFERENCE POINT | |
|---|---|---|---|---|---|
| Depth of Backfill (upslope) | 12 " | Finished Grade Elevation | -40 " | Location & Description: | **Nail in** |
| Depth of Backfill (downslope) | 27 " | Top of Distribution Pipe or Proprietary Device | -53 " | **20" oak, 15" above ground** | |
| DEPTHS AT CROSS-SECTION (shown below) | | Bottom of Disposal Field | -64 " | Reference Elevation is : 0.0" or: | |

## DISPOSAL FIELD CROSS-SECTION

**Scales:**
**Vertical: 1"= 5 ft.**
**Horizontal: 1"= 5 ft.**




**Stephen P. Robbins** S.R. **SE # 301** **3/30/2015**

ATTACHMENT TO HHE-200

**Caution: Before starting, contractor must insure fill depth amounts match with elevations given. Contact designer immediately with any discrepancies.**

Notes:

1. Construction to conform to "State of Maine Subsurface Wastewater Disposal Rules".
2. Property lines shown are as provided by owner, agent, or municipality. No guarantee of accuracy is implied. Actual property lines must be confirmed by survey.
3. Remove organic material and **roto-till** area under drain-field and fill extensions.
4. Unless otherwise specified, all fill will be coarse sand to a gravelly coarse sand. See Sec. 804.0 in the State of Maine Subsurface Waste-water Disposal Rules for further clarification of fill requirements. In 8" lifts, compacted as placed. First lift to be thoroughly mixed with original soil, to form a transition horizon.
5. Septic tanks and pump stations shall be installed water-tight to prevent infiltration of ground and surface water.
6. Force mains, pump stations, and or gravity piping subject to freezing shall be adequately insulated.
7. Unless otherwise specified, septic tank to be located by contractor; at minimum; 8' to proposed or existing home and or buildings, 10' to property line & water supply line, 50' to all wells, 100' and shoreline.
8. A septic tank outlet filter is recommended.
9. If replacement system with new tank, existing tank or cesspool to be filled with soil or removed. If existing tank is to be utilized, thoroughly inspect & replace outlet baffle with plastic filter.
10. Unless otherwise specified, this plan does not allow the placement of pumps between the waste-water source and the septic tank.
11. Unless otherwise specified, disposal area to existing or proposed buildings setback is 20'.
12. Water from gutters, driveways, walks, and other surface water to be diverted away from system.
13. Loam, seed and mulch all disturbed areas to prevent erosion and facilitate runnoff.
14. Unless otherwise specified, keep traffic heavier than lawn tractor away from all components of system.
15. Keep sanitary napkins, cigarette butts, coffee grounds, paper towels, grease, and nonbiodegradables out of system.
16. Many times it is impossible to locate water supplies. Property owner assumes responsibility of proper setback to any unknown water supplies.
17. Discharge from water treatment equipment and residential foundation/floor drains is not considered waste-water and must not be plumbed into septic system. This flow should be diverted into a separate drywell (disposal area that does not require design or permit). A floor drain used for anything other than fresh-water disposal does require design and permit.
18. Plumbing fixtures must be strictly maintained to insure excess water does not enter septic system. Excess water can lead to premature clogging and total failure of disposal area.
19. Venting of disposal area is not required, but can facilitate biological action in disposal area.
20. Pumped systems will be equipped with audible high water alarm, wired to separate circuit as pump.
21. If a BK2000 Waste-Water Management system or any other Norweco products are included in this design, or SoilAir or other GeoMatrix products are included in this design; the designer may have a financial interest in the sale of these products. Owner is encouraged to research comparable products and make final choice. If owner chooses a competitors product, design will be revised to note said change at no charge.
22. Take 3 copies of the plan to your local plumbing inspector for required permit.

**Stephen P. Robbins** **SE # 301** Date: **3/30/2015**

S.R.

Maine Center for Disease Control and Prevention
An Office of the Department of Health and Human Services

Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street
# 11 State House Station
Augusta, Maine 04333-0011
Tel: (207) 287-5672
Fax: (207) 287-4172; TTY: 1-800-606-0215

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The Local Plumbing Inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health and Human Services until approval has been received from the Department.

**GENERAL INFORMATION** Town of AUGUSTA

Property Owner's Name: SHEA, STEVE Tel. No.: 727-386-5310

System's Location: 674 SOUTH BELFAST AVENUE

Property Owner's Address: 6700 150TH AVENUE NORTH, LOT #707 Zip Code

e-mail address: CLEARWATER, FL 33764

The subsurface wastewater disposal system design for the subject property requires a ☒ replacement system variance ☐ first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires ☒ local approval ☐ local and state approval.

**SPECIFIC VARIANCE REQUESTED** (To be filled in by Site Evaluator. Use additional sheets if needed.) **SECTION OF RULE**

1. 92' TO ABUTTERS WELL — TABLE 8A
2.
3.

**SITE EVALUATOR**

When a property is found to be unsuitable for subsurface wastewater disposal by a licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a variance to the Rules, and the Evaluator in his professional opinion feels the variance request is justified and the site limitations can be overcome, he shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate sheet if necessary.

ATTACHMENT ☐ YES ☒ NO

I, STEPHEN P. ROBBINS, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.

Stephen P. Robbins — SIGNATURE OF SITE EVALUATOR — 30 MAR 15 — DATE

**PROPERTY OWNER**

I, _____, am the ☐ owner ☐ agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.

☐ SIGNATURE OF OWNER
☑ AGENT FOR THE OWNER

3/31/15 — DATE

**LOCAL PLUMBING INSPECTOR - Approval at local level**

The local plumbing inspector shall review all variance requests prior to rendering a decision.
I, Gary R. Fuller, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (☐ does ☐ does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (☐ do ☐ do not) approve the requested variance. I (☐ will ☐ will not) issue a permit for the system's installation as proposed by the application.

Gary R. Fuller — LPI Signature

3/31/15 — Date

**LOCAL PLUMBING INSPECTOR - Referral to the Department**

The local plumbing inspector shall review all variance requests prior to forwarding to the Division of Environmental Health.
I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (☐ does ☐ does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (☐ do ☐ do not) recommend the issuance of a permit for the system's installation as proposed by the application.

LPI Signature — Date

**FOR USE BY THE DEPARTMENT ONLY**

The Department has reviewed the variance(s) and (☐ does ☐ does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

SIGNATURE OF THE DEPARTMENT — DATE

Notes: 1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 7.B.4 of the Subsurface Wastewater Disposal Rules for Municipal Review.)

2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

## SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).

| | CHARACTERISTIC | POINT ASSESSMENT |
|---|---|---|
| Soil Profile | | |
| Depth to Groundwater/Restrictive Layer | | |
| Terrain | | |
| Size of Property | | |
| Waterbody Setback | | |
| Water Supply | | |
| Type of Development | | |
| Disposal Area Adjustment | | |
| Vertical Separation Distance | | |
| Additional Treatment | | |
| | TOTAL POINT ASSESSMENT: | |

Minimum Points (Check One): ☐ Outside Shoreland Zone-50 ☐ Inside Shoreland Zone-65 ☐ Subdivision-65