

M 723/A

# REPLACEMENT SYSTEM VARIANCE REQUEST

## THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application for the proposed replacement system which does not comply with the Rules. The LPI shall review the Replacement System Variance Request and Application and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

1. The proposed design meets the definition of a Replacement System from the rules.
2. A system cannot be designed and installed in total compliance with the Rules.
3. The design flow is less than 500 GPD.
4. There will be no change in use of the structure.
5. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.

### GENERAL INFORMATION

Town of AUGUSTA

Permit No. 3274 E

Date Permit Issued 3274 7/21/95  
MONTH/DAY/YEAR

Property Owner's Name: RICHARD BOSSIE

Tel. No. 626-0320

System's Location: CHURCH HILL RD.

AUGUSTA STREET

Maine            ZIP           

Property Owner's Address: RR#1 BOX 1088 CHURCH HILL RD.  
(if different from above) AUGUSTA, ME 04330 STREET

TOWN STATE ZIP

### SPECIFIC INSTRUCTIONS TO THE:

#### LPI:

If any of the variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, they you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)

#### SITE EVALUATOR:

If after completing the Application, you find that a variance for the proposed replacement system is needed, then complete the Replacement Variance Request with your signature on reverse side of form.

#### PROPERTY OWNER:

It has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in total compliance with the Rules is not possible.

The OWNER shall sign this statement. Therefore, having read both this Replacement Variance Request and the attached Application, I understand that the proposed system is not in total compliance with the Rules and hereby release all those concerned with this Variance, provided they have performed their duties in a reasonable and proper manner.

Richard W Bossie  
PROPERTY OWNER'S SIGNATURE

7/14/95  
DATE

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
<b>SOILS</b>					
Soil Profile	Ground Water Table	to 6"		inches	
Soil Condition	Restrictive Layer	to 6"		inches	
from HHE-200	Bedrock	to 10"		inches	
<b>SETBACK DISTANCES (IN FEET)</b>	<b>FROM:</b>	<b>TREATMENT TANK</b>	<b>DISPOSAL AREA</b>	<b>TREATMENT TANK</b>	<b>DISPOSAL AREA</b>
Potable Water Supplies	1. Well: > 2000 gal/day	100'	300'		
	2. Well: < 2000 gal/day				
	a. Neighbor's	50'	60'		
	b. Property Owner's	25'	50'		
	3. Water Supply Line	See note 'a'			
Waterbodies	1. Perennial	50'	60'		
	2. Intermittent	15'	20'		
	3. Manmade drainage ditch	10'	15'		
Downhill Slope	Greater than 3:1 (33%)	5'	10'		
Buildings	1. With Basement	5'	10'		
	2. Without Basement	5'	10'		8'
Property Line		4'	5'		1'

**OTHER**

1. Fill extension Grade—to 3:1 AS ONLY NEEDED
2. \_\_\_\_\_
3. \_\_\_\_\_

**Footnotes:**

- This setback distance cannot be reduced by variance. See Table 6-2.
- Written Permission from the owner of a well is required when a replacement system will be located less than 100 feet but closer to that well than the system it is replacing.
- Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope.

\_\_\_\_\_  
SITE EVALUATOR'S SIGNATURE

7-12-95  
DATE

**LPI STATEMENT**

I, Ray R. Liker, LPI for the Town of Augusta have conducted an on-site inspection for the proposed replacement system and have determined to the best of my knowledge, that it cannot be installed in total compliance with the Rules, applicable Municipal Wastewater Disposal Ordinances, or the Local Shoreland Zoning Ordinance. As a result of my review of the Replacement System Variance Request, the Application, and my on-site investigation, I (check and complete either a or b):

a.  approve,  disapprove) the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in Comments Section below and return to the applicant.

—OR—

b. find that one or more of the requested Variances exceeds my approval authority as LPI. I ( recommend  do not recommend) the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, he shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

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

\_\_\_\_\_  
LPI'S SIGNATURE

7/21/95  
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

M7L31A

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering  
(207) 287-5672 FAX (207) 287-4172

**PROPERTY LOCATION**

Town or Plantation: AUGUSTA

Street: CHURCH HILL RD.

Subdivision Lot #

**PROPERTY OWNERS NAME**

Last: BQSSIE First: RICHARD

Mailing Address of Owner: RR#1 BOX 1088 CHURCH HILL RD.  
AUGUSTA, ME 04330

Daytime Tel. #: 626-0320

**AUGUSTA**

Date Permit Issued: 7/2/95

Local Plumbing Inspector Signature: May R. Fuller

L.P.I. #: 85P

3274 TOWN COPY

FEE: \$ 45.00 Double Fee Charged

**Owner Statement**

I state 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/Applicant: Richard Bqssie Date: 7/14/95

**Caution: Inspection Required**

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

Local Plumbing Inspector Signature: May R. Fuller Date Approved: 8/11/95

## PERMIT INFORMATION

**THIS APPLICATION IS FOR:**

- First Time System
- Multi-User System
- Replacement System
- Expanded System
  - One-time exempted
  - Non-exempted
- Experimental System
  - Seasonal Conversion

**THIS APPLICATION REQUIRES:**

- No Rule Variance
- First Time System Variance (Municipal)
- First Time System Variance (State)
- Replacement System Variance
  - Local Plumbing Inspector approval
  - State & Local Plumbing Inspector approval
- Minimum Lot Size Variance
- Seasonal Conversion Variance

**DISPOSAL SYSTEM COMPONENT(S)**

- Non-Engineered System
- Primitive System
- Alternative Toilet  
Specify \_\_\_\_\_
- Non-Engineered Treatment Tank
- Holding Tank \_\_\_\_\_ Gallons
- Non-Engineered Disposal Area (only)
- Separated Laundry System
- Engineered System (+2000 gpd)
- Engineered Treatment Tank (only)
- Engineered Disposal Area (only)

**SIZE OF PROPERTY**

.75 +/- ACRE

**DISPOSAL SYSTEM TO SERVE:**

- Single Family Dwelling Unit
- Multiple Family Dwelling Unit  
Number of Units \_\_\_\_\_
- Other \_\_\_\_\_  
SPECIFY \_\_\_\_\_

**SHORELAND ZONING**

Yes  No

**TYPE OF WATER SUPPLY**

DRILLED WELL

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

**TREATMENT TANK**

- Concrete
  - Regular
  - Low Profile
- Plastic

SIZE: EXISTING 1000 Gallons

**DISPOSAL AREA TYPE/SIZE**

- Stone Bed \_\_\_\_\_ Sq.Ft.
- Proprietary Device 1260 Sq.Ft.
  - Clustered  Linear
  - Regular  H-20
- Trench \_\_\_\_\_ Lin. Ft.
- Other \_\_\_\_\_

**GARBAGE DISPOSAL UNIT**

- No
- Yes
  - Multi-compartment tank
  - Tank in series
  - Increase in tank capacity
  - Filter on tank outlet

**CRITERIA USED FOR DESIGN FLOW**  
(Show Calculations)

3 BEDROOM

**PROFILE & DESIGN CLASS**

PROFILE: 8 DESIGN: D/III

DEPTH TO MOST LIMITING FACTOR: 12/24

**DISPOSAL AREA SIZING**

- Small 2.0
- Medium 2.60
- Medium-Large 3.30
- Large 4.10
- Extra-Large 5.00

**PUMPING**

- Not Required
- May Be Required
- Required

DOSE: 75 Gallons

DESIGN FLOW: 270  
(Gallons/Day)

## SITE EVALUATOR'S STATEMENT

On 7 / 10 / 95 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules.

Signature: John Archard  
Site Evaluator Signature  
JOHN ARCHARD  
Print Name

181  
SE #  
(207) 293-2674  
Telephone

7/12/95  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation

AUGUSTA

Street, Road, Subdivision  
CHURCH HILL RD.

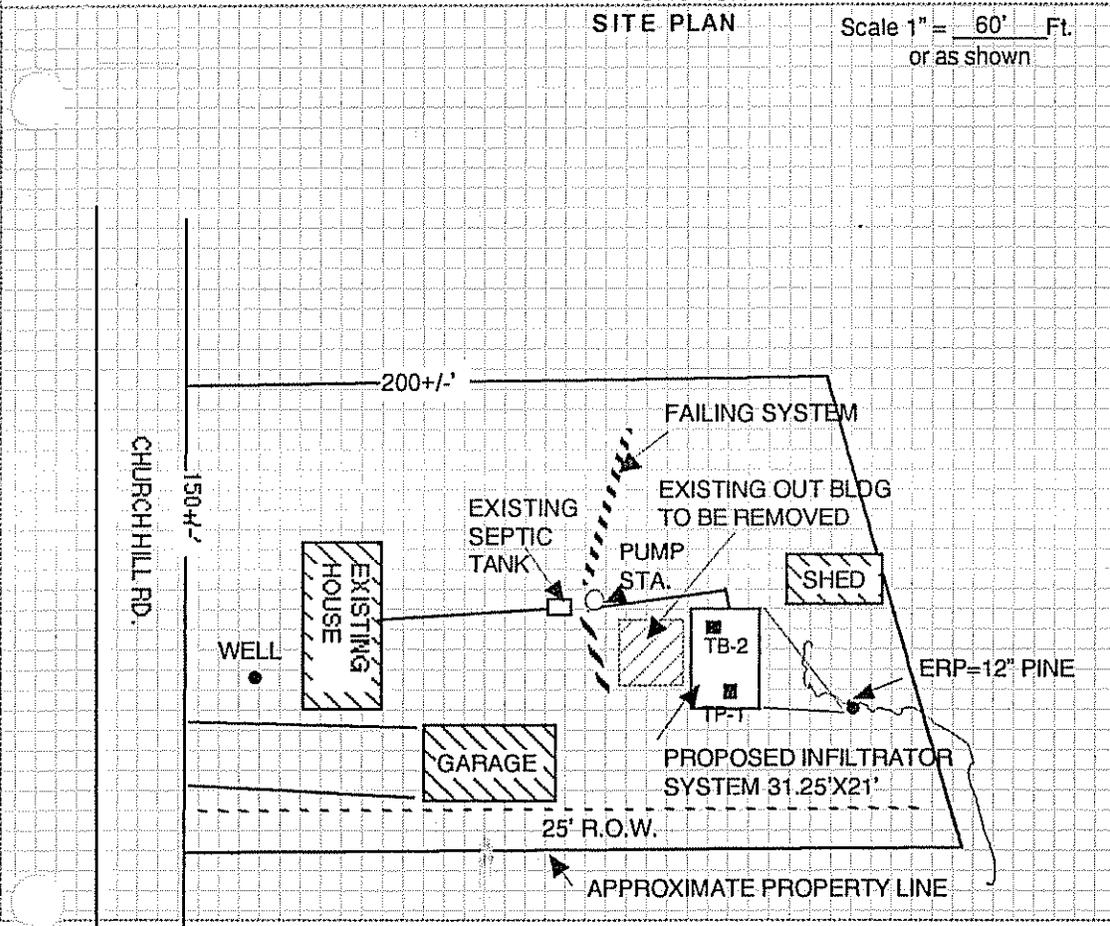
Name of Owner  
BOSSIE

SITE PLAN

Scale 1" = 60' Ft.  
or as shown

SITE LOCATION PLAN  
(Map from *The Maine Atlas*  
recommended)

CHURCH HILL RD.  
X-SITE  
RTE 3



NOTES:

1. Remove any portion of the existing system encountered and replace with suitable fill.
2. Existing tank **MUST** be pumped, baffles inspected and repaired if needed prior to connection to the new disposal area or the tank shall be replaced if not repairable.
3. Install "Zabel" filter on tank outlet.

SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole TP-1       Test Pit     Boring

N/A      " Depth of Organic Horizon above Mineral Soil

DEPTH BELOW MINERAL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	SILT	FRIABLE	BROWN	NONE
6	LOAM		REDDISH BROWN	EVIDENT
15	SILTY CLAY	FIRM	OLIVE BROWN	FEW TO COMMON
20			OLIVE	DISTINCT
80	REFUSAL-ASSUMED BEDROCK			

Soil Profile	CLASS	Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water
8	D/A III	1 %	12 "	<input checked="" type="checkbox"/> Restrictive Layer
				<input checked="" type="checkbox"/> Bedrock 24"

Observation Hole TB-2       Test Pit     Boring

N/A      " Depth of Organic Horizon above Mineral Soil

DEPTH BELOW MINERAL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	SILT	FRIABLE	BROWN	NONE
6	LOAM		REDDISH BROWN	EVIDENT
15	SILTY CLAY	FIRM	OLIVE BROWN	FEW TO COMMON
20			OLIVE	DISTINCT
80	REFUSAL-ASSUMED BEDROCK			

Soil Profile	CLASS	Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water
8	D/A III	1 %	12 "	<input checked="" type="checkbox"/> Restrictive Layer
				<input checked="" type="checkbox"/> Bedrock 24"

*[Signature]*  
Site Evaluator Signature

181  
SE#

7/12/95  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

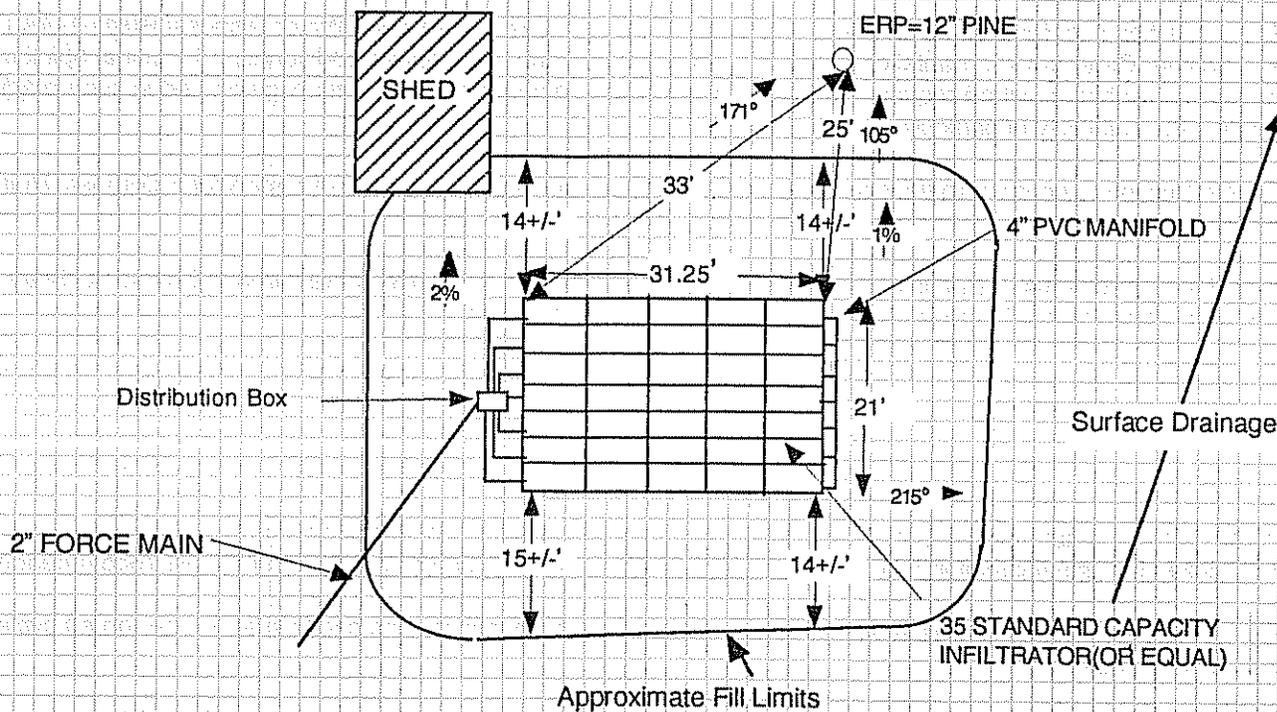
Town, City, Plantation  
AUGUSTA

Street, Road, Subdivision  
CHURCH HILL RD.

Owner's Name  
BOSSIE

## SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20 Ft.



FILL REQUIREMENTS	
Depth of Fill (Upslope)	30" to 34" "
Depth of Fill (Downslope)	32 TO 39" "

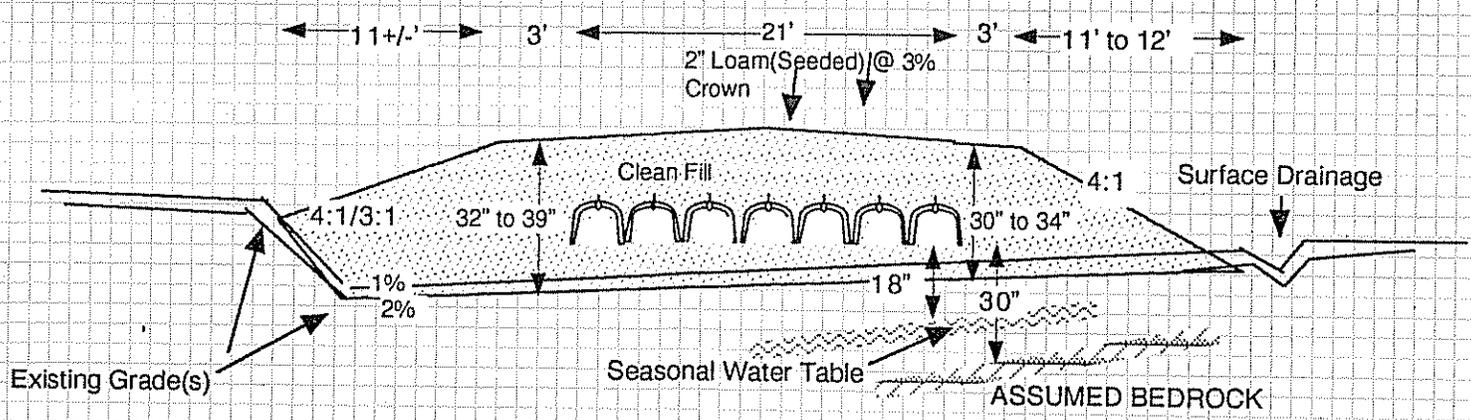
CONSTRUCTION ELEVATIONS	
Finished Grade Elevation	-6"
Top of Distribution Pipe or Proprietary Device	-18"
Bottom of Disposal Area	-30"

ELEVATION REFERENCE POINT	
Location & Description	FLAGGED NAIL IN 12" PINE TREE 24" ABOVE GROUND
Reference Elevation	00"

### DISPOSAL AREA CROSS SECTION

Scale:  
Vertical: 1" = 4 Ft.  
Horizontal: 1" = 10 Ft.

Note: All fill to be coarse, gravelly, sharp, clean, loamy sand. (See section 1205.4 of "Rules")



*John Kula*  
Site Evaluator Signature

181  
SE#

7/12/95  
Date

GENERAL NOTES

1. Site evaluations conform to the criteria of the "State of Maine Subsurface Waste Water Disposal Rules-144A CMR 241 latest revision. Other environmental concerns are not evaluated and may require additional professional opinions. the delineation of wetlands, when required, is to be performed by competent consultants experienced in such practice and may affect the suitability of particular sites.
2. All construction to conform to the specifications in the "State of Maine Subsurface Waste Water Disposal Rules-144A CMR 241" latest revision.
3. Wells & structures must maintain setbacks from the disposal system as allowed or required in Chapter 4 "State of Maine Subsurface Waste Water Disposal Rules-144A CMR 241" latest revision.
4. Property lines as shown are as provided by owner/owner's agent no guarantee of accuracy is implied. Actual property lines must be confirmed by survey.
5. A septic tank filter is required when installing a mechanical garbage disposal or solids handling grinder pump.
6. Pump stations, when required, shall be installed watertight to prevent the infiltration of ground or surface water. Pumps shall be sized for actual installed T.D.H.. For uninterrupted service during repair duplex pumps are recommended.
7. Force mains and pressure lines shall be flushed of foreign material and pumps checked for proper on/off cycle before being put in service.
8. Applicability of the design must be reevaluated when the location of structures are substantially different than shown on the site plan, or when other appurtenances (ie: swimming pools) are added.
9. Systems put into service prior to establishing proper cover shall be provided with adequate erosion controls.
10. Provide low profile tanks when determined as needed in the field. All tanks may be field located and meet the setback requirements of Chapt. 4 "State of Maine Subsurface Waste Water Disposal Rules-144A CMR 241" latest revision.
11. All components subject to freezing must be adequately insulated.
12. The LPI shall inform the owner and designer of any local ordinances exceeding the "State of Maine Subsurface Waste Water Disposal Rules-144A CMR 241" prior to issuing a permit so that necessary amendments can be made to the design.
13. Systems must be maintained as outlined in "Septic Systems-How They Work & How to Keep Them Working"-MDEP
14. All designs are subject to Local, State, or Federal review. Designers liability shall be limited to required revisions. In no case shall liability exceed designers fee.

The owner/applicants signature on page one acknowledges their understanding of the "General Notes"