

REPLACEMENT SYSTEM VARIANCE REQUEST

Town Copy
95.00

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of the LPI's authority.

1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 2006)
2. There will be no change in use of the structure except as authorized for one-time exempted expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD₅ plus S. S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION

Permit No. 6440 Town of AUGUSTA
 Date Permit Issued 5/6/10
 Property Owner's Name: VFW POST 887 MARVIN WOODBURY Tel. No.: 841-9096
 System's Location: LEIGHTON ROAD AUGUSTA
 Property Owner's Address: P O BOX 815
 (if different from above) AUGUSTA, ME 04332

SPECIFIC INSTRUCTIONS TO THE LOCAL PLUMBING INSPECTOR (LPI):
 If any of the variances exceed your approval authority and/or do not meet all the requirements listed under the Limitations Section above, then 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, complete the Replacement System 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.

PROPERTY OWNER:
 I understand that the proposed system requires a variance to 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.

Marvin W. Woodbury 5-5-2010
 SIGNATURE OF OWNER DATE

LOCAL PLUMBING INSPECTOR:
Harry R. Fuller the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement 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/she shall state his/her reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments _____
Harry R. Fuller 5/5/10
 LPI SIGNATURE DATE

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	Ground Water Table			Restrictive Layer			Inches	
SOILS	Bedrock						Inches	
Soil Profile	Disposal Fields						Inches	
Soil Condition from HHE-200	Septic Tanks						Inches	
SETBACK DISTANCES (In feet)	Disposal Fields			Septic Tanks			Disposal Fields	Septic Tanks
From	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	150 ft	150 ft	150 ft	100'	
Private Potable Water Supply	100 ft [a]	200 ft	300 ft	50 ft	100 ft	100 ft		
Water supply line	10 ft	20 ft	25 ft	10 ft	10 ft	10 ft		
Water course, major	100 ft [c]	200 ft [c]	300 ft [c]	100 ft	100 ft	100 ft		
Water course, minor	50 ft [d]	100 ft [d]	150 ft [d]	50 ft [d]	50 ft [d]	50 ft [d]		
Drainage ditches	25 ft	50 ft	75 ft	25 ft	25 ft	25 ft		
Edge of fill extension -- Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]	25 ft [d]		
Slopes greater than 3:1	10 ft [f]	18 ft [f]	25 ft [f]	N/A	N/A	N/A		
No full basement (e.g. slab, frost wall, columns)	15 ft	30 ft	40 ft	8 ft	14 ft	20 ft		
Full basement (below grade foundation)	20 ft	30 ft	40 ft	8 ft	14 ft	20 ft		
Property lines	10 ft [b]	18 ft [b]	20 ft [b]	10 ft [b]	15 ft [b]	20 ft [b]		
Burial sites or graveyards, measured from the downhill toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		
OTHER								
1. PROPOSED REPLACEMENT SYSTEM IS FURTHER FROM WELL THAN EXISTING SYSTEM								
2.								
3.								

Footnotes: [a] Private Potable water Supply setbacks may be reduced as prescribed in Chapter 7
 [b] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.
 [c] Additional setbacks may be required by local Shoreland zoning.
 [d] Natural Resources Protection Act requires a 25 foot setback on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.
 [e] May not be any closer to a private potable water supply than the existing disposal field or septic tank. This setback may be reduced for single family houses with Department approval. See Section 702.3
 [f] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.
 [h] See Section 1402.10 for special procedures when these minimum setbacks cannot be achieved.

WILLIAM P BROWN *William P Brown*
 SITE EVALUATOR'S SIGNATURE

5/4/2010
 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

SURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept of Health & Human Services
Division of Health Engineering, 105HS
(207)287-5872 FAX (207)287-3165

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

PROPERTY LOCATION

Town, Plantation: **AUGUSTA**

Street or Road: **LEIGHTON ROAD**

Subdivision, Lot #

OWNER/APPLICANT INFORMATION

Name (last, first, MI): **WOODBURY, MARVIN** Owner Applicant

Mailing Address of Owner/Applicant: **VFW POST 887
P O BOX 815
AUGUSTA, ME 04332**

Daytime Tel. #: **841-9096**

AUGUSTA

Date Permit Issued: **5/6/10**

Local Plumbing Inspector Signature: *Maury R. Hill*

PERMIT # **6440 TOWN COPY**

FEE Charged: **\$ 175.00**

L.P.I. #: **1850**

Municipal Tax Map # _____ Lot # _____

OWNER OR APPLICANT 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: *Maury R. Hill* Date: **5-5-10**

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: *Maury R. Hill* Date Approved: **5/5/10**

TYPE OF APPLICATION

1. First Time System

2. Replacement System
Type replaced **TRENCH**
Year installed **1960'S**

3. Expanded System

a. Minor Expansion

b. Major Expansion

4. Experimental System

5. Seasonal Conversion

SIZE OF PROPERTY

1.0 sq. ft. acres

SHORELAND ZONING

Yes No

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 Permit

DISPOSAL SYSTEM TO SERVE:

1. Single Family Dwelling Unit, No. of Bedrooms: _____

2. Multiple Family Dwelling Unit, No. of Units: _____

3. Other: **BOTTLE CLUB/ ASSEMBLY HALL**
(specify)

Current Use Seasonal Year Round Undeveloped

DISPOSAL SYSTEM COMPONENTS

1. Complete Non-engineered System

2. Primitive System (graywater & 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. Pretreatment, specify: _____

12. Miscellaneous Components

TYPE OF WATER SUPPLY

1. Drilled Well 2. Dug Well 3. Private

4. Public 5. Other

TREATMENT TANK

1. Concrete

a. Regular

b. Low Profile

2. Plastic

3. Other **EXISTING**

CAPACITY **1000** GAL.

SOIL DATA & DESIGN CLASS

PROFILE CONDITION DESIGN: **3 / C / 1**

at Observation Hole # **TP-1**
Depth **31**"
of Most Limiting Soil Factor

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 **1320** sq. ft. lin. ft.

DISPOSAL FIELD SIZING

1. Small - 2.0 sq. ft./gpd

2. Medium - 2.6 sq. ft./gpd

3. Medium-Large - 3.3 sq. ft./gpd

4. Large - 4.1 sq. ft./gpd

5. Extra-Large - 5.0 sq. ft./gpd

GARBAGE DISPOSAL UNIT

1. No 3. Maybe

2. Yes >> Specify one below:

a. multi-compartment tank

b. _____ tanks in series

c. Increase in tank capacity

d. Filter on Tank Outlet

EFFLUENT/EJECTOR PUMP

1. Not Required

2. May Be Required

3. Required >> Specify only for engineered or experimental systems

DOSE _____ gallons

DESIGN FLOW

400 gallons per day
BASED ON:

1. Table 501.1 (dwelling unit(s))

2. Table 501.2 (other facilities)

SHOW CALCULATIONS
-for other facilities-

**BOTTLE CLUB 30 SEATS @ 10GPD
ASSEMBLY HALL 50 @ 2 GPD**

3. Section 603.0 (meter readings)
ATTACH WATER METER DATA

LATITUDE AND LONGITUDE
at center of disposal area

Lat. **44** d **20** m **46** s

Long. **69** d **48** m **18** s

If gps, state margin of error: **30 ft.**

SITE EVALUATOR'S STATEMENT

I certify that on **5/4/10** (date) 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).

Signature: *William P. Brown* Date: **5/4/2010**

Site Evaluator Name Printed: **WILLIAM P BROWN** Telephone Number: **293-2110**

E-mail Address: _____

SURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

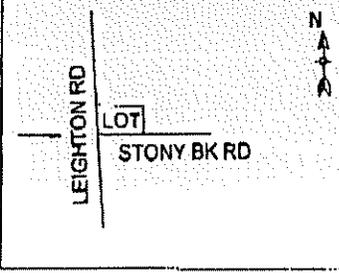
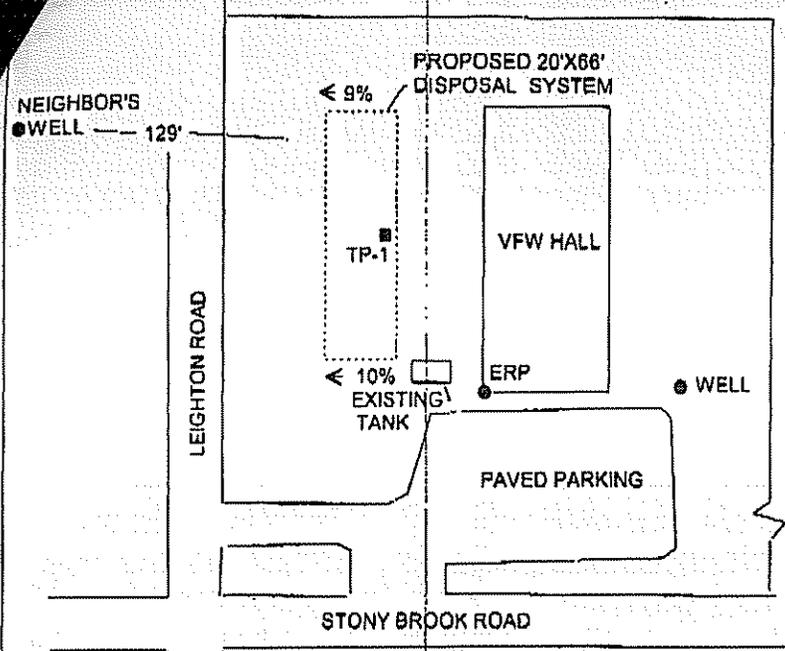
Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5872 FAX 207 287-4165

Plantation AUGUSTA	Street, Road, Subdivision LEIGHTON ROAD	Owner or Applicant Name MARVIN WOODBURY
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SITE PLAN

Scale 1" = 50 Ft.

SITE LOCATION PLAN
(Attach map from Maine Atlas for First Time System Variance)



THE VFW HALL HAS ROUTINE ASSEMBLIES OF 40 TO 50 ATTENDEES. AT OTHER TIMES, IT MAINTAINS A CLUB SERVING VETERANS. THE CLUB SEATING IS USUALLY LESS THAN 30 PATRONS

THE PROPOSED SYSTEM IS FURTHER FROM THE OWNER'S WELL THAN THE EXISTING SYSTEM

ERP TO TP-1 = 43'

THE EXISTING SEPTIC TANK IS TO BE LEFT IN SERVICE. AN EFFLUENT FILTER WILL REPLACE THE EFFLUENT BAFFLE. A 3 FOOT DIAMETER PUMP STATION WILL BE LOCATED NEAR THE SEPTIC TANK.

THE PROPOSED SYSTEM IS 100 FEET FROM THE OWNER'S WELL AND 129 FEET FROM A NEIGHBOR'S WELL.

THE AREA OF THE PROPOSED SYSTEM CONTAINS LOAMY SAND FILL OVER ORIGINAL SANDY LOAM SOIL. THE FILL MATERIAL IS FREE OF ORGANICS, FRIABLE, AND APPEARS TO BE PLACED PRIOR TO 1974. THIS SOIL IS CONSIDERED TO BE EQUIVALENT TO ORIGINAL SOIL FOR DESIGN PURPOSES

SOIL PROFILE DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole #	TP-1	<input checked="" type="checkbox"/> Test Pit	<input type="checkbox"/> Boring	
	0"	Depth of organic horizon above mineral soil		
DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0	LOAMY SAND FILL	FRIABLE	MEDIUM BROWN	
10			LIGHT BROWN	
20	SANDY LOAM		MEDIUM BROWN	NONE
30			ORANGE BROWN	COMMON
40		FIRM	OLIVE BROWN	
50				
	Soil Profile	Classification	Slope	Limiting Factor
	3	C	9-10% Percent	31" Depth
				<input type="checkbox"/> Groundwater <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock

Observation Hole #		<input type="checkbox"/> Test Pit	<input type="checkbox"/> Boring	
	"	Depth of organic horizon above mineral soil		
DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0				
10				
20				
30				
40				
50				
	Soil Profile	Classification	Slope	Limiting Factor
			%	"
				<input type="checkbox"/> Groundwater <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock

WILLIAM P BROWN *William P Brown*
Site Evaluator Signature

188
SE #

5/4/2010
Date

SURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10

City, Plantation
AUGUSTA

Street, Road, Subdivision
LEIGHTON ROAD

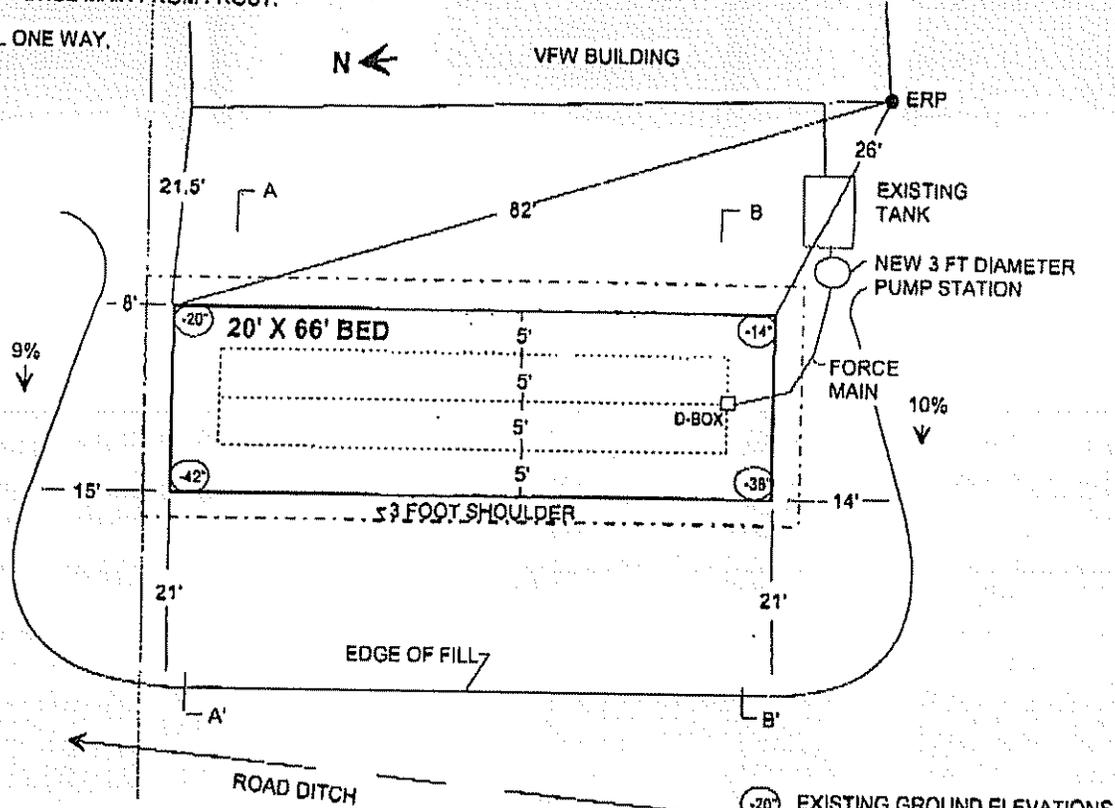
Owner or Applicant Name
MARVIN WOODBURY

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' Ft.

EXISTING 1000 GALLON SEPTIC TANK TO BE KEPT IN SERVICE. REPLACE EFFLUENT BAFFLE WITH EFFLUENT FILTER.
INSTALL 3 FOOT DIAMETER PUMP STATION NEAR SEPTIC TANK. PROVIDE HIGH WATER ALARM INSIDE BUILDING ON SEPARATE CIRCUIT FROM PUMP. INSTALL 2 INCH FORCE MAIN TO D-BOX. ENTER D-BOX THROUGH BOTTOM WITH FORCE MAIN AND EXTEND FORCE MAIN TO WITHIN 2 INCHES OF TOP COVER. PROVIDE WEEP HOLE IN FORCE MAIN INSIDE PUMP STATION TO ALLOW DRAINBACK BETWEEN PUMP CYCLES. PROTECT FORCE MAIN FROM FROST.

SLOPE FINISH GRADE ALL ONE WAY, WHERE POSSIBLE



BACKFILL REQUIREMENTS

Depth of Fill (Upslope) **9-15"**
 Depth of Fill (Downslope) **33-37"**
 DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

Finished Grade Elevation **VARIES**
 Top of Distribution Pipe or Proprietary device **-20"**
 Bottom of Disposal Area **-31"**

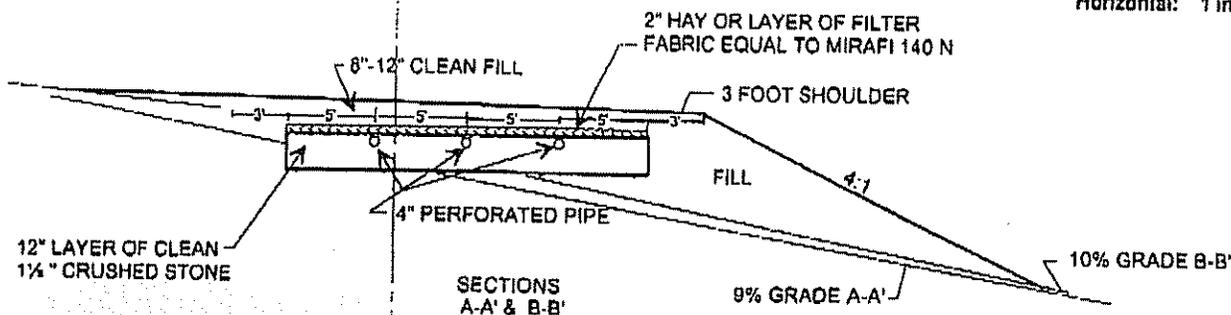
ELEVATION REFERENCE POINT

Location and Description:
BOTTOM OF VINYL SIDING NEAR FRONT CORNER OF BUILDING
 Reference Elevation Is: 00.0"

DISPOSAL AREA CROSS SECTION

Scale:

Vertical: 1 Inch = 5 Ft.
 Horizontal: 1 inch = 10 Ft.



REMOVE VEGETATION IN DISPOSAL AREA
 SCARIFY ENTIRE FILL AREA
 MIX 4 INCHES OF FILL MATERIAL THOROUGHLY WITH EXISTING SOIL TO FORM A TRANSITION ZONE (ACCORDING TO CHAPTER 8, PLUMBING CODE)
 ALL FILL SHALL BE GRAVELLY COARSE SAND
 SLOPE FINISH GRADE ALL ONE WAY, WHERE POSSIBLE
 LOAM, SEED, MULCH DISTURBED AREAS

WILLIAM P BROWN
 Site Evaluator Signature

188
 SE #

5/4/2010
 Date