

REPLACEMENT SYSTEM VARIANCE REQUEST

Town 120.00

FORMS

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 an 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 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.

1-06-28

GENERAL INFORMATION
Town of Augusta
Permit No. 5767
Date Permit Issued 4/28/06
Property Owner's Name: Sean Witham
Tel. No.: 242-3407
System's Location: 50 Orchard St. Augusta, Me 04330
Property Owner's Address: Same
(if different from above)

SPECIFIC INSTRUCTIONS TO THE:
LOCAL PLUMBING INSPECTOR (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, 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.
SITE EVALUATOR:
If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.
PROPERTY OWNER:
If 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.
Signature: Shannon Witham
Date: 4/27/06

LOCAL PLUMBING INSPECTOR
I, [Signature], 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, the reasons shall be stated in Comments Section below as to why the proposed replacement system is not being recommended.
Comments:
LPI Signature: [Signature]
Date: 4/28/06
HHE-204 Rev 10/02

FORMS  
Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	SOILS							
Soil Profile	Ground Water Table			to 7"				inches
Soil Condition	Restrictive Layer			to 7"				inches
from HHE-200	Bedrock			to 12"				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 [a]	300 ft [a]	300 ft [a]	100 ft [a]	100 ft [a]	100 ft [a]		
Owner's wells	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 down to 60 ft [b]	200 down to 120 ft [b]	300 down to 180 ft [b]	100 down to 50 ft [b]	100 down to 75 ft [b]	100 down to 75 ft [b]		
Water supply line	10 ft [a]	20 ft [a]	25 ft [a]	10 ft [a]	10 ft [a]	10 ft [a]		
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft	200 down to 120 ft	300 down to 180 ft	100 down to 50 ft	100 down to 50 ft	100 down to 50 ft		
Water course, minor	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 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	18 ft	25 ft	N/A	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft	///	
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Property lines	10 down to 5 ft [c]	18 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]		
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		

**OTHER**

1. Fill extension Grade - to 3:1

2.

3.

Footnotes: [a.] Single-family well setbacks may be reduced as prescribed in Section 701.2.

[b.] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction.

[c.] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[d.] Additional setbacks may be required by local Shoreland zoning.

[e.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.

[f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.

[g.] 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.

  
SITE EVALUATOR'S SIGNATURE

4/27/06  
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

**SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION** Maine Dept. Health & Human Services  
Division of Health Engineering, 10 SHS  
(207) 287-5672 Fax: (207) 287-3165

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

<b>PROPERTY LOCATION</b>	
City, Town, or Plantation <u>Augusta</u>	AUGUSTA PERMIT # <u>5747</u> <u>00</u> <input type="checkbox"/> Double Fee Date Permit Issued: <u>4/25/06</u> \$ <u>120.00</u> FEE Charged Signature: <u>[Signature]</u> L.P.I. # <u>1850</u> Local Plumbing Inspector Signature
Street or Road <u>50 Orchard St.</u>	
Subdivision, Lot # <u>1-06-28</u>	

<b>OWNER/APPLICANT INFORMATION</b>	
Name (last, first, MI) <u>Witnam, Sean</u> <input type="checkbox"/> Owner <input type="checkbox"/> Applicant	
Mailing Address of Owner/Applicant <u>50 Orchard St. Augusta Me. 04330</u>	
Daytime Tel. # <u>242-3407</u>	Municipal Tax Map # <u>21</u> Lot # <u>36</u> <span style="float: right;">RBI</span>

<b>OWNER OR APPLICANT STATEMENT</b> I state and acknowledge that the information submitted is correct to the best of my knowledge and understanding that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit. <u>[Signature]</u> <u>7-27-06</u> Signature of Owner or Applicant Date	<b>CAUTION: INSPECTION REQUIRED</b> I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. <u>[Signature]</u> <u>5/2/06</u> Local Plumbing Inspector Signature (1st) date approved <u>[Signature]</u> <u>5/3/06</u> Local Plumbing Inspector Signature (2nd) date approved
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**PERMIT INFORMATION**

<b>TYPE OF APPLICATION</b> <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	<b>THIS APPLICATION REQUIRES</b> <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	<b>DISPOSAL SYSTEM COMPONENTS</b> <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components
<b>SIZE OF PROPERTY</b> <u>10,000</u> <input checked="" type="checkbox"/> SQ. FT. <input type="checkbox"/> ACRES	<b>DISPOSAL SYSTEM TO SERVE</b> <input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) _____ Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	<b>TYPE OF WATER SUPPLY</b> <input type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input checked="" type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other <u>AWDist.</u>
<b>SHORELAND ZONING</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

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

<b>TREATMENT TANK</b> <input checked="" type="checkbox"/> 1. Concrete <u>check</u> <input type="checkbox"/> a. Regular <u>basins</u> <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: <u>2000</u> GAL.	<b>DISPOSAL FIELD TYPE &amp; SIZE</b> <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input checked="" type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: <u>48</u> sq. ft. <input checked="" type="checkbox"/> lin. ft.	<b>GARBAGE DISPOSAL UNIT</b> <input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet	<b>DESIGN FLOW</b> <u>270</u> gallons per day BASED ON: <input type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) SHOW CALCULATIONS for other facilities <u>3 bedrooms @ 90 gpd/ea</u>
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE CONDITION DESIGN <u>3, C, 1, 1</u> at Observation Hole # <u>TP</u> Depth <u>30"</u> See attached of Most Limiting Soil Factor <u>scr. log.</u>	<b>DISPOSAL FIELD SIZING</b> <input type="checkbox"/> 1. Small—2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium—2.6 sq. ft. / gpd <input checked="" type="checkbox"/> 3. Medium—Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large—4.1 sq. ft. / gpd <input type="checkbox"/> 5. Extra Large—5.0 sq. ft. / gpd	<b>EFFLUENT/EJECTOR PUMP</b> <input checked="" type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<b>ATTACH WATER METER DATA</b> <b>LATITUDE AND LONGITUDE</b> at center of disposal area Lat. <u>44</u> d <u>18</u> m <u>20</u> s Lon. <u>69</u> d <u>48</u> m <u>20</u> s if g.p.s. state margin of error: _____

**SITE EVALUATOR STATEMENT**

I certify that on 4/25/06 (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).

Albert E. Hodsdon 046 4/27/06  
Site Evaluator Signature SE # Date

Albert E. Hodsdon 873-5164 \_\_\_\_\_  
Site Evaluator Name Printed Telephone Number E-mail Address

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
 Division of Health Engineering, Station 10  
 (207) 287-5672 FAX (207) 287-4172

Town, City, Plantation

*Augusta*

Street, Road, Subdivision

*50 Orchard St.*

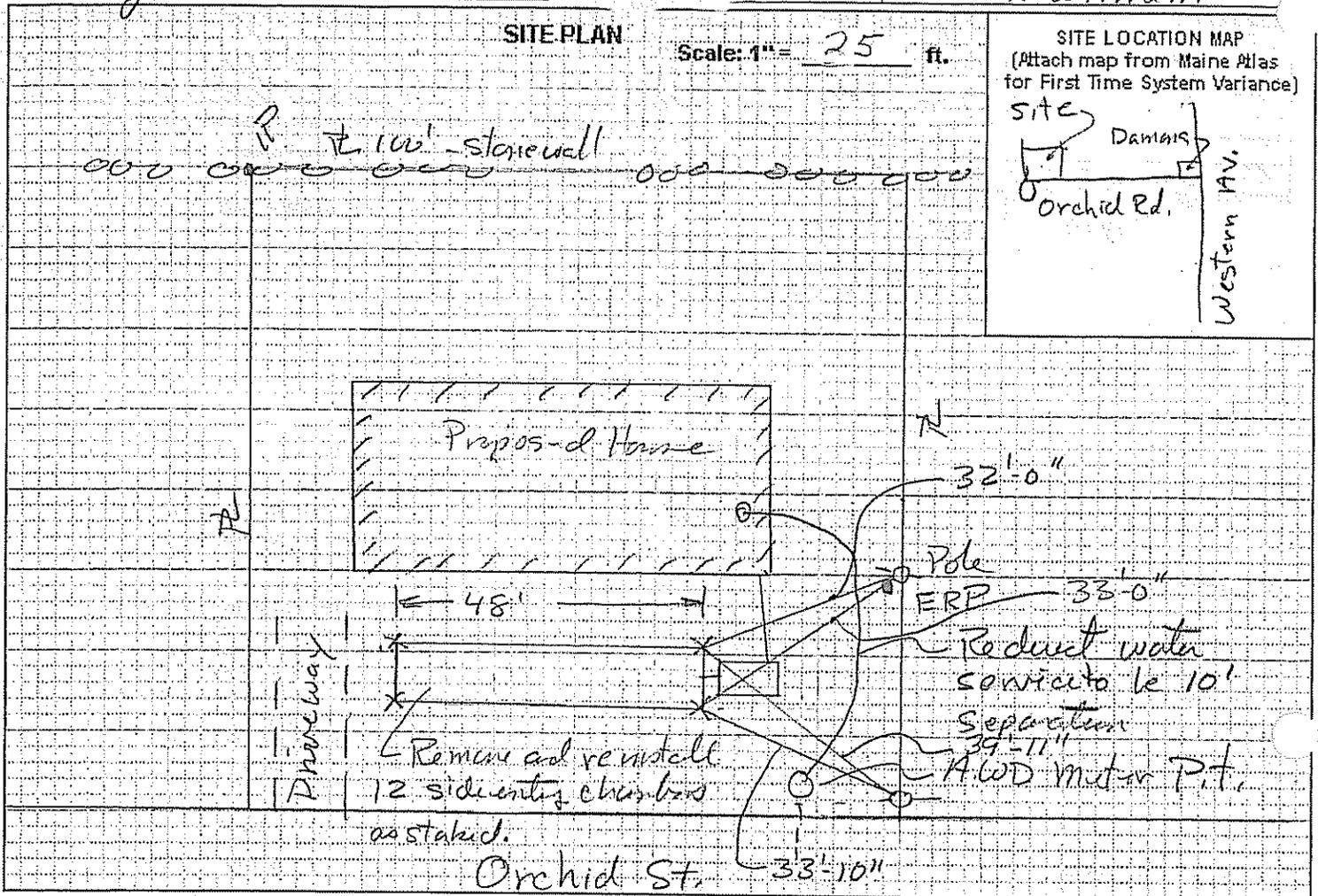
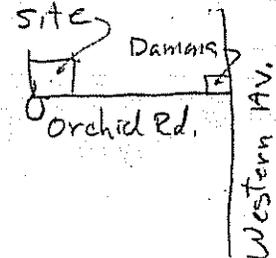
Owner or Applicant Name

*Jean Witham*

## SITE PLAN

Scale: 1" = *25* ft.

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



## SOIL PROFILE DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole # \_\_\_\_\_  Test Pit  Boring

\_\_\_\_\_ " Depth of organic horizon above mineral soil

Texture	Consistency	Color	Mottling
0			
6			
12			
18			
24			
30			
36			
42			
48			

Soil Classification Slope Limiting Factor  Groundwater  
*3 C* \_\_\_\_\_ *30*  Restrictive Layer  
 Profile Condition Percent Depth  Bedrock

Observation Hole # \_\_\_\_\_  Test Pit  Boring

\_\_\_\_\_ " Depth of organic horizon above mineral soil

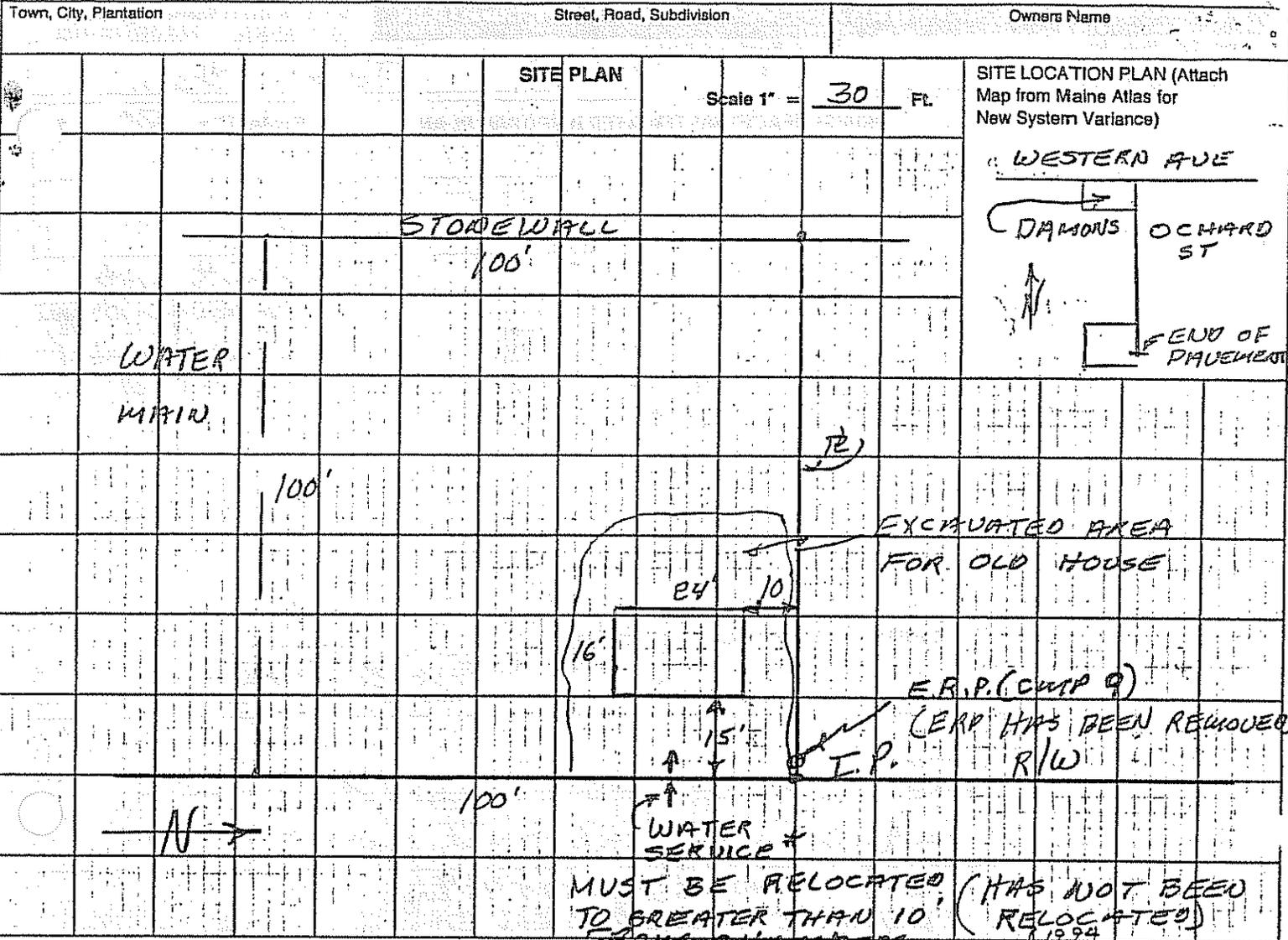
Texture	Consistency	Color	Mottling
0			
6			
12			
18			
24			
30			
36			
42			
48			

Soil Classification Slope Limiting Factor  Groundwater  
 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_  Restrictive Layer  
 Profile Condition Percent Depth  Bedrock

*Albert E. Hedges*  
 Site Evaluator Signature

*046*  
 SE #

*4/27/06*  
 Date



**SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)**

Observation Hole \_\_\_\_\_  Test Pit  Boring

\* Depth of Organic Horizon Above Mineral Soil \_\_\_\_\_

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0 - 5	S.L.	FRIABLE	B.	
24 - 30	G.T.	PLUM	G.B.	24
30 - 35	POSSIBLE LEDGE			

Soil Profile: <u>3</u>	Classification: <u>A/C</u>	Slope: <u>6</u> %	Limiting Factor: <u>30/24</u>	<input checked="" type="checkbox"/> Ground Water
				<input type="checkbox"/> Restrictive Layer
				<input type="checkbox"/> Bedrock

Observation Hole \_\_\_\_\_  Test Pit  Boring

\* Depth of Organic Horizon Above Mineral Soil \_\_\_\_\_

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0 - 5				
6 - 10				
10 - 15				
15 - 20				
20 - 24				
24 - 30				
30 - 35				
35 - 40				
40 - 45				
45 - 50				

Soil Profile: _____	Classification: _____	Slope: _____ %	Limiting Factor: _____	<input type="checkbox"/> Ground Water
				<input type="checkbox"/> Restrictive Layer
				<input type="checkbox"/> Bedrock

*[Signature]*  
Site Evaluator of Professional Engineer's Signature

# 51  
SE# / PE#

3/1/95  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
 Division of Health Engineering, Station 10  
 (207) 287-5672 FAX (207) 287-4172

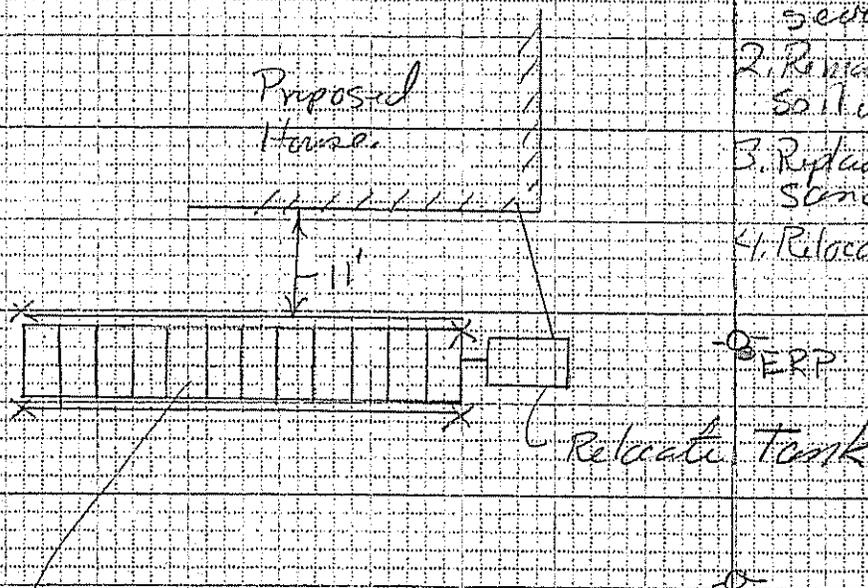
Town, City, Plantation  
Augusta

Street, Road, Subdivision  
50 Orchard St.

Owner or Applicant Name  
Jean Witham

## SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20'



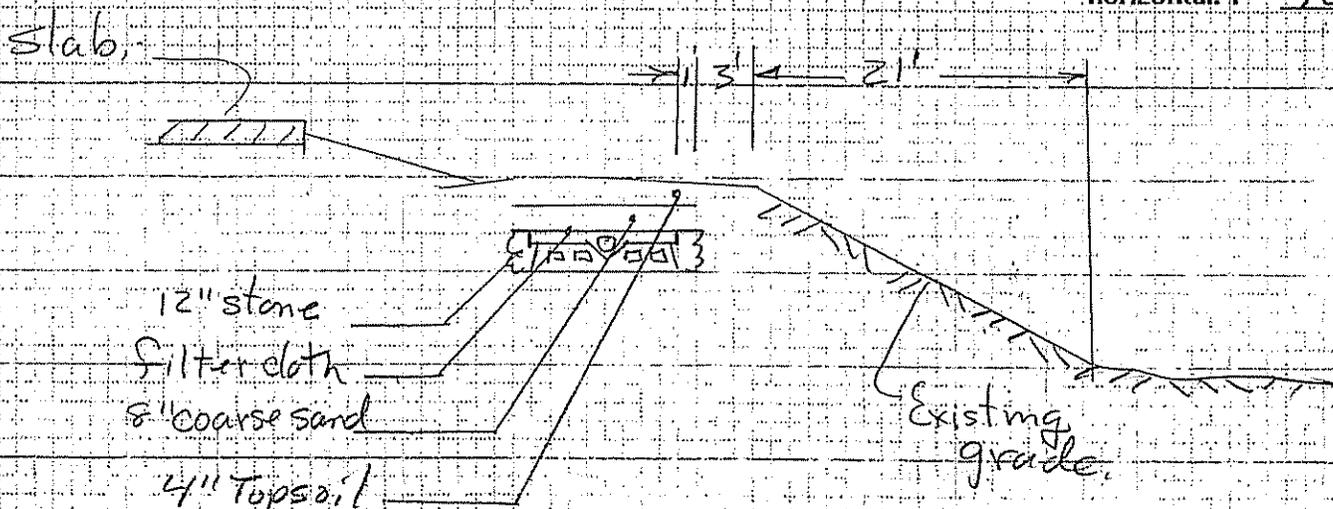
- Notes:
1. Relocate water service for 10' sep.
  2. Remove all clogged soil under old s.p.
  3. Replace with coarse sand.
  4. Relocate septic tank.

Remove and Reinstall 12 side (48x10') entry chambers in a row 48' long, provide 12" stone both sides. Set at or above entry chambers.

BACKFILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT	
Depth of Backfill (upslope)	<u>0"</u>	Finished Grade Elevation	<u>35"</u>	Location & Description:	<u>Nail in</u>
Depth of Backfill (downslope)	<u>16"</u>	Top of Distribution Pipe or Proprietary Device	<u>46"</u>		<u>Power Pole 16" High</u>
DEPTHS AT CROSS-SECTION (shown below)		Bottom of Disposal Field	<u>-59"</u>	Reference Elevation is: <u>(0.0")</u> or: _____	

## DISPOSAL FIELD CROSS-SECTION

Scales:  
 Vertical: 1" = 5'  
 Horizontal: 1" = 10'



Robert E. Hodson  
 Site Evaluator Signature

046  
 SE #

4/27/06  
 Date