

3680

*To Be*

m42136



ANGUS S. KING, JR.  
GOVERNOR

STATE OF MAINE  
DEPARTMENT OF HUMAN SERVICES  
DIVISION OF HEALTH ENGINEERING  
10 STATE HOUSE STATION  
AUGUSTA, MAINE  
04333-0010

KEVIN W. CONCANNON  
COMMISSIONER

May 5, 1997

Mr. William White  
RR 1 Box 746J  
Augusta ME 04330

SUBJECT: Approval Replacement System Variance Request, White property, Holmes Road,  
Augusta

Dear Mr. White:

The Division has reviewed a replacement system variance request for the subject property. The variances requested are to allow the installation of a subsurface wastewater disposal system 1) at 47 feet from the septic tank to a major water course; 2) a fill extension grade to 3:1 instead of 4:1 at one upslope corner and end of the system; and 3) a reduced separation distance from 24 to 12 inches. The system design prepared by Paul Beers, SE, dated 4/29/97, is found to be in compliance with the Maine Subsurface Wastewater Disposal Rules.

We approve the requested variances with the following requirements:

1. A permit for system installation is to be obtained prior to the system's construction.
2. The system is to be installed in accordance with the submitted and approved system design.
3. The property is to be seasonal use only.

Should you or others have any questions regarding this review and/or approval, please feel free to contact me at 287-5687.

Sincerely,

Linda S. Robinson  
Wastewater & Plumbing Control Program  
Division of Health Engineering

/lsr  
cc: George Soucy, LPI  
Paul Beers, SE



**Paul A. Beers LSE, CSS**

26 Fairview Street  
Gardiner, Maine 04345  
Home Phone 207-582-7400

April 29, 1997

Mr. William White  
RR 1 Box 746J  
Augusta, ME. 04330

Dear Mr. White,

This to acknowledge a Site Evaluation conducted on property you have under contract to purchase on Three Corner Pond in Augusta. The existing use consists of a two bedroom seasonal cottage with a concrete tank and unknown disposal system. The water supply consists of water pumped from the lake. The existing disposal system has been pumped and shows evidence of ponding by flow back into the tank. It is obvious that the disposal field needs to be replaced.

I have prepared the necessary paperwork for you to apply for a permit to replace the system. As I indicated at the time of my visit, the soil conditions and setback requirements can not be met, therefore variances from the City of Augusta and the State are required and must be obtained before installing the system. Because of the slope of the land, soil conditions, proximity to the lake and your desire to save at least a few of the several large pines on the lot I have requested variances to the setback distances to property lines and to the lake. The major variance request is a reduction in the separation distance between the bottom of the bed and seasonal watertable from 24" to 12". This was done to reduce the distance of the fill extension towards the lake and property lines thereby keeping the system on better soils and allows saving a few trees from being cut down. I believe this would have minimal effect on the performance of the system due to the seasonal nature of its use and the minimum flows generated. As I indicated to you at the time of my visit, this design is the best I could do in light of the soil and site conditions.

These forms should be signed and presented to the Local Plumbing Inspector for review and forwarded to Health Engineering for approval. If you have any questions or need further information please feel free to contact me.

Sincerely,



Paul A. Beers CSS, LSE

# REPLACEMENT SYSTEM VARIANCE REQUEST

## 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. 1903)
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 BOD<sub>5</sub> plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

<b>GENERAL INFORMATION</b>		Town of <u>AUGUSTA</u>
Permit No. <u>*3680</u>		Date Permit Issued <u>5/15/97</u>
<u>PROPOSED</u> Property Owner's Name: <u>William WHITE</u>		Tel. No.: <u>877-0315</u>
System's Location: <u>HOLMES ROAD</u>		
Property Owner's Address: <u>RR 1 Box 746 J</u>		
(if different from above) <u>AUGUSTA, ME. 04330</u>		

### 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. (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 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.

William K. White

SIGNATURE OF OWNER

5-2-97

DATE

### LOCAL PLUMBING INSPECTOR

I, George A. Soudy Jr., 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, she shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.

Comments: Applicant requested variance on other side of R/W at other  
requested property.

George A. Soudy Jr.

LPI SIGNATURE

5/15/97

DATE

Replacement System Variance Request

VARIANCE CATEGORY	VARIANCE REQUESTED		LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
<b>SOILS</b>						
Soil Profile <i>9</i>	Ground Water Table		to 7'		<i>7</i> Inches	
Soil Condition <i>3</i>	Restrictive Layer		to 7'		<i>10</i> Inches	
from HHE-200	Bedrock		to 12'		Inches	
<b>SETBACK DISTANCES (In feet)</b>						
	Disposal Fields		Septic Tanks		Disposal Fields	Septic Tanks
From	Less than 1000 gpd	1000 to 2000 gpd	Less Than 1000 gpd	1000 to 2000 gpd	To	EXISTING To
Wells with water usage of 2000 or more gpd	300 <sup>a</sup> ft	300 <sup>a</sup> ft	100 <sup>a</sup> ft	100 <sup>a</sup> ft		
Owner's wells	100 down to 50 ft	200 down to 100 ft	100 <sup>b</sup> down to 50 ft	100 down to 50 ft		
Neighbor's wells	100 <sup>b</sup> down to 60 ft	200 <sup>b</sup> down to 120 ft	100 <sup>b</sup> down to 50 ft	100 <sup>b</sup> down to 75 ft		
Water supply line	10 ft <sup>d</sup>	20 ft <sup>d</sup>	10 ft <sup>d</sup>	10 ft <sup>d</sup>		
Water course, major - for replacements only, see Table 400.4 for exempted expansions	100 down to 60 ft	200 down to 120 ft	100 down to 50 ft	100 down to 50 ft	<i>74-78'</i>	<i>47'±</i>
Water course, minor	50 down to 25 ft	100 down to 50 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	25 down to 12 ft	25 down to 12 ft		
Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams (edge of fill extension)	25 ft <sup>d</sup>	25 ft <sup>c</sup>	25 ft <sup>d</sup>	25 ft <sup>d</sup>		
Slopes greater than 3:1	10 ft	18 ft	N/A	N/A		
No full basement [e.g. slab, frost wall, columns]	15 down to 7 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Full basement [below grade foundation]	20 down to 10 ft	30 down to 15 ft	8 down to 5 ft	14 down to 7 ft		
Property lines	10 down to 5 <sup>e</sup> ft	18 ft down to 9 <sup>c</sup> ft	10 ft down to 4 <sup>c</sup> ft	15 ft down to 7 <sup>c</sup> ft	<i>7 FT</i> <i>(CLOSEST CORNER)</i>	
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft		

**OTHER**

1. Fill extension Grade - to 3:1 @ ONE upslope CORNER AND END OF SYSTEM
  2. REDUCE SEPARATION DISTANCE FROM 24" TO 12" ON SEASONAL
- \* USE TO SAVE SOME LARGE TREES AND FILL EXTENSION ADJACENT TO LAKE.

Footnotes:

- a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance.
- b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 (or 200 ft. for 1000-2000 gpd) feet and closer to that well than the system it is replacing.
- c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
- d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

*Paul C. Beers*  
 \_\_\_\_\_  
 SITE EVALUATOR'S SIGNATURE

*4/29/97*  
 \_\_\_\_\_  
 DATE

**FOR USE BY THE DEPARTMENT ONLY**

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

*Linda S. Robinson*  
 \_\_\_\_\_  
 SIGNATURE OF THE DEPARTMENT

*5/5/97*  
 \_\_\_\_\_  
 DATE

m4 L136

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering  
(207) 287-5872 FAX (207) 287-4172

<b>PROPERTY LOCATION</b>		AUGUSTA 3680 TOWN COPY	
Town or P <sup>l</sup> ation	AUGUSTA	Date Permit Issued:	5-15-97
Street Subdivision Lot #	HOLMES ROAD	\$	100.00 FEE <input type="checkbox"/> Double Fee Charged
<b>(PROPOSED) PROPERTY OWNERS NAME</b>		L.P.I. # 1009	
Last: WHITE	First: William	Local Plumbing Inspector Signature	
Mailing Address of Owner	RR1 Box 746 J AUGUSTA, ME. 04330	Municipal Tax Map # 4 Page # 136	
Daytime Tel. #	877-0315		

<p><b>Owner Statement</b></p> <p>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.</p> <p>Signature of Owner/Applicant: <u>William K. White</u> Date: <u>5-2-97</u></p>	<p><b>Caution: Inspection Required</b></p> <p>I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.</p> <p>Local Plumbing Inspector Signature: <u>[Signature]</u> Date Approved: <u>[Signature]</u></p>
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<b>PERMIT INFORMATION</b>		
<p><b>THIS APPLICATION IS FOR:</b></p> <p>1. <input type="checkbox"/> First Time System          2. <input type="checkbox"/> Multi-User System          3. <input checked="" type="checkbox"/> Replacement System          4. <input type="checkbox"/> Expanded System             a. <input type="checkbox"/> One-time exempted             b. <input type="checkbox"/> Non-exempted             <input type="checkbox"/> Experimental System             b. <input type="checkbox"/> Seasonal Conversion</p>	<p><b>THIS APPLICATION REQUIRES:</b></p> <p>1. <input type="checkbox"/> No Rule Variance          2. <input type="checkbox"/> First Time System Variance (Municipal)          3. <input type="checkbox"/> First Time System Variance (State)          4. <input checked="" type="checkbox"/> Replacement System Variance             a. <input type="checkbox"/> Local Plumbing Inspector approval             b. <input checked="" type="checkbox"/> State &amp; Local Plumbing Inspector approval          5. <input type="checkbox"/> Minimum Lot Size Variance          6. <input type="checkbox"/> Seasonal Conversion Variance</p>	<p><b>DISPOSAL SYSTEM COMPONENT(S)</b></p> <p>1. <input checked="" type="checkbox"/> Non-Engineered System          2. <input type="checkbox"/> Primitive System          3. <input type="checkbox"/> Alternative Toilet             Specify _____          4. <input type="checkbox"/> Non-Engineered Treatment Tank          5. <input type="checkbox"/> Holding Tank _____ Gallons          6. <input type="checkbox"/> Non-Engineered Disposal Area (only)          7. <input type="checkbox"/> Separated Laundry System          8. <input type="checkbox"/> Engineered System (+2000 gpd)          9. <input type="checkbox"/> Engineered Treatment Tank (only)          10. <input type="checkbox"/> Engineered Disposal Area (only)</p>
<p><b>SIZE OF PROPERTY</b></p> <p>1/3 ± Acre</p>	<p><b>DISPOSAL SYSTEM TO SERVE:</b></p> <p>1. <input checked="" type="checkbox"/> Single Family Dwelling Unit          2. <input type="checkbox"/> Multiple Family Dwelling Unit             Number of Units _____          3. <input type="checkbox"/> Other _____             SPECIFY _____</p>	<p><b>TYPE OF WATER SUPPLY</b></p> <p>LAKE WATER</p>
<p><b>SHORELAND ZONING</b></p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>		

<b>DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)</b>			
<p><b>TREATMENT TANK</b></p> <p>1. <input checked="" type="checkbox"/> Concrete             <input type="checkbox"/> Regular             <input type="checkbox"/> Low Profile          2. <input type="checkbox"/> Plastic          SIZE <u>1000</u> Gallons</p>	<p><b>DISPOSAL AREA TYPE/SIZE</b></p> <p>1. <input type="checkbox"/> Stone Bed _____ Sq. Ft.          2. <input checked="" type="checkbox"/> Proprietary Device <u>450</u> Sq. Ft.             <input type="checkbox"/> Clustered <input checked="" type="checkbox"/> Linear             <input type="checkbox"/> Regular <input type="checkbox"/> H-20          3. <input type="checkbox"/> Trench _____ Lin. Ft.          4. <input type="checkbox"/> Other _____</p>	<p><b>GARBAGE DISPOSAL UNIT</b></p> <p>1. <input checked="" type="checkbox"/> No          2. <input type="checkbox"/> Yes             <input type="checkbox"/> Multi-compartment tank             <input type="checkbox"/> Tank in series             <input type="checkbox"/> Increase in tank capacity             <input type="checkbox"/> Filter on tank outlet</p>	<p><b>CRITERIA USED FOR DESIGN FLOW</b> (Show Calculations)</p> <p>2 BEDROOM SEASONAL COTTAGE @ 180 GPD</p>
<p><b>PROFILE &amp; DESIGN CLASS</b></p> <p>PROFILE <u>9</u> DESIGN <u>D</u></p> <p>DEPTH TO MOST LIMITING FACTOR <u>7</u></p>	<p><b>DISPOSAL AREA SIZING</b></p> <p>1. <input type="checkbox"/> Small 2.0          2. <input type="checkbox"/> Medium 2.60          3. <input type="checkbox"/> Medium-Large 3.30          4. <input type="checkbox"/> Large 4.10          5. <input checked="" type="checkbox"/> Extra-Large 5.00</p>	<p><b>PUMPING</b></p> <p>1. <input type="checkbox"/> Not required          2. <input type="checkbox"/> May be required          3. <input checked="" type="checkbox"/> Required          DOSE <u>30</u> Gallons</p>	

**SITE EVALUATOR'S STATEMENT**

4/26/97 (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: Paul A. Beers #56 Date: 4/28/97

Site Evaluator Signature: Paul A. Beers SE # 582-7400 Telephone: 582-7400

Print Name: Paul A. Beers

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Proposed Owners Name

Augusta

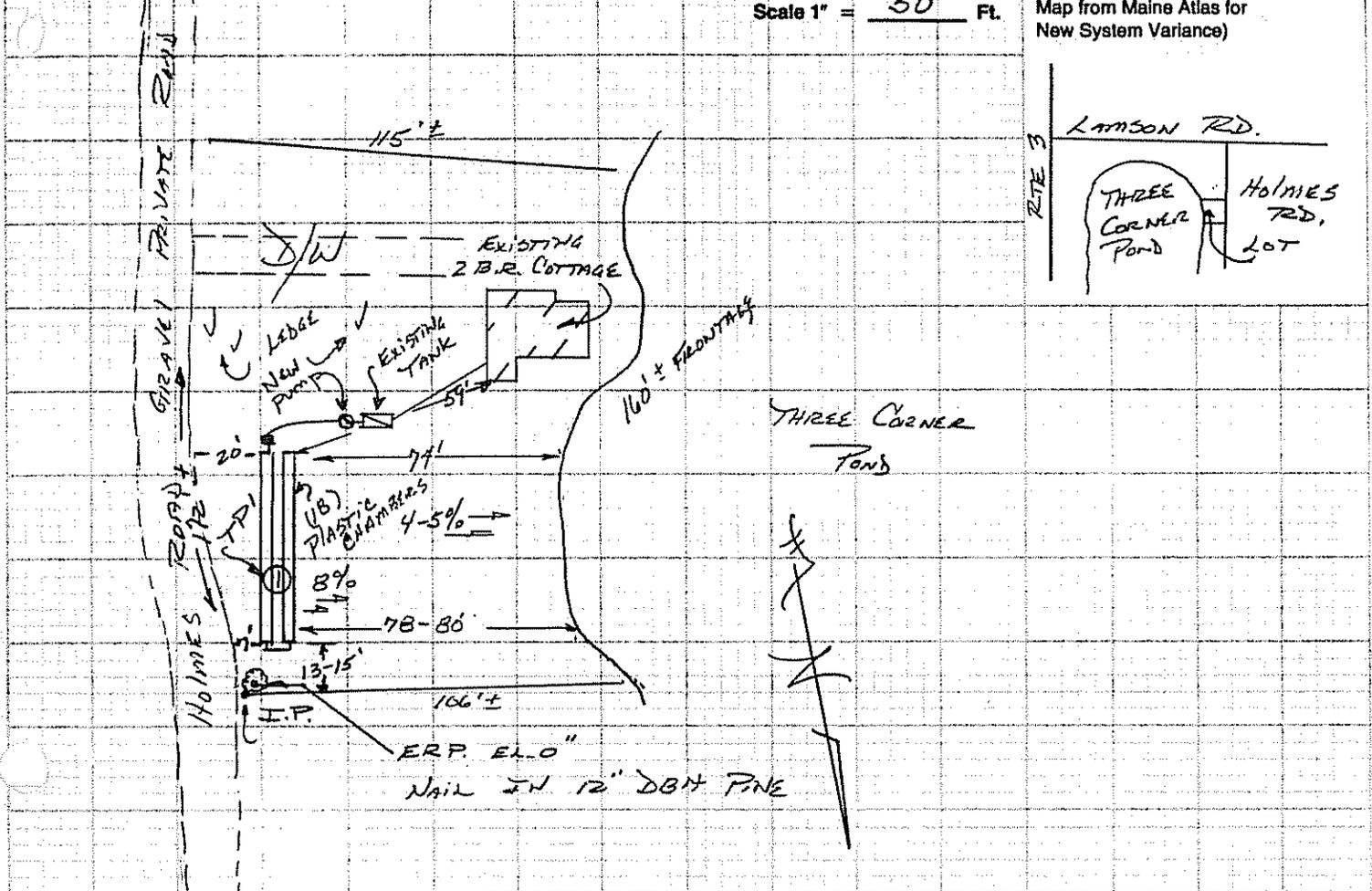
Holmes Road

William White

## SITE PLAN

Scale 1" = 50' Ft.

SITE LOCATION PLAN (Attach Map from Maine Atlas for New System Variance)



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

Observation Hole 1  Test Pit  Boring  
2" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0-6	Silt loam	friable	dk. brown	Common
6-10	loam		oli. gray	distinct @ 7"
10-15	silt	v. firm		
15-20	clay loam		gray	
20-30				
30-40				
40-50				

Soil Profile 9 Classification D Slope 8± % Limiting Factor 7  
 Ground Water  
 Restrictive Layer  
 Bedrock

Observation Hole \_\_\_\_\_  Test Pit  Boring  
 \_\_\_\_\_" Depth of Organic Horizon Above Mineral Soil

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

Soil Profile \_\_\_\_\_ Classification \_\_\_\_\_ Slope \_\_\_\_\_ % Limiting Factor \_\_\_\_\_  
 Ground Water  
 Restrictive Layer  
 Bedrock

*Paul C. Reed*  
Site Evaluator Signature

# 56  
SE#

4/28/97  
Date

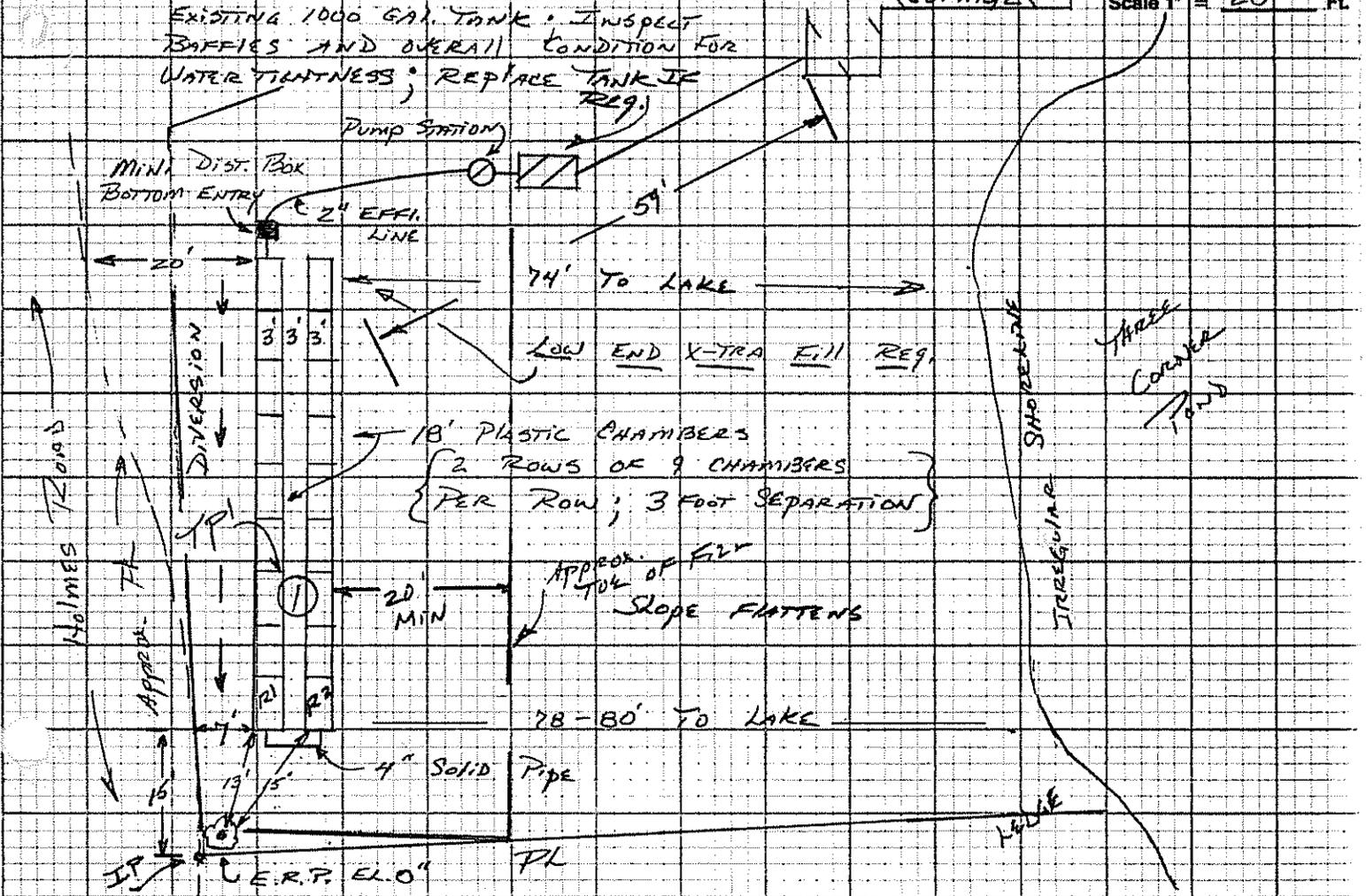
# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

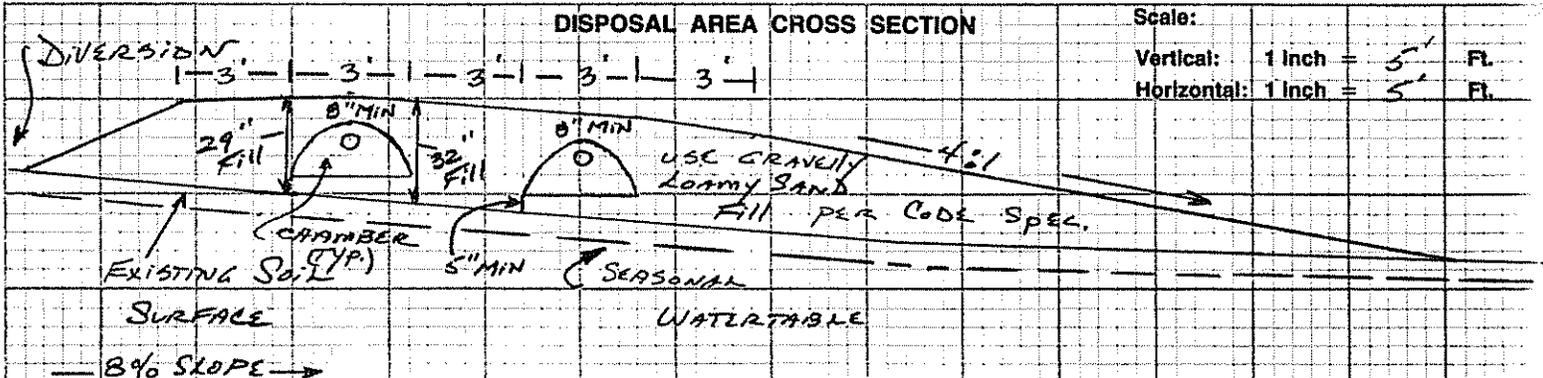
Town, City, Plantation: AUGUSTA Street, Road, Subdivision: HOLMES ROAD Proposed Owners Name: William White

## SUBSURFACE WASTEWATER DISPOSAL PLAN (COTTAGE)

Scale 1" = 20' FL



FILL REQUIREMENTS	EA. ROW	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT LOCATION & DESCRIPTION
Depth of Fill (Upslope)	29"	Reference Elevation Is	0"
Depth of Fill (Downslope)	32"	Bottom of Disposal Area	(R1)-40" (R2)-47"
		Top of Distribution Lines or Chambers	(R1)-29" (R2)-31"
			NAIL IN 12" DBH WHITE PINE



- INSTALLATION NOTES**
- DIVERT SURFACE WATER AWAY FROM SYSTEM
  - STABILIZE SYSTEM BY SEED + MULCH.
  - SCARIFY SOIL BENEATH SYSTEM + FILL EXT. PULL 4" FILL AND MIX W/ EXISTING SOIL TO CREATE TRANSITION
  - INSURE WATER TIGHTNESS OF TANK AND PUMP STATION FROM GROUNDWATER AND SURFACE WATER