

# 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.

*John C. [Signature]*

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. 2501 E

Date Permit Issued \_\_\_\_\_  
MONTH/DAY/YEAR

Property Owner's Name: SCHIARI PROPERTIES Tel. No. 623-3726

System's Location: AUGUSTA MOBILE HOME PARK - RIVERSIDE DR & BLAIR RD.  
STREET

AUGUSTA TOWN Maine 04330 ZIP

Property Owner's Address: Box 83 AUGUSTA MOBILE HOME PARK  
(if different from above) STREET

AUGUSTA TOWN ME STATE 04330 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.

*[Signature]*  
PROPERTY OWNER'S SIGNATURE  
June 17, 1992  
DATE

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS Soil Profile Soil Condition from HHE-200	Ground Water Table	to 6"		3 to 10" inches	
	Restrictive Layer	to 6"		inches	
	Bedrock	to 10"		inches	
SETBACK DISTANCES (IN FEET)	FROM:	TREATMENT TANK	DISPOSAL AREA	TREATMENT TANK	DISPOSAL AREA
Potable Water Supplies	1. Well: > 2000 gal/day	100 <sup>a</sup>	300 <sup>a</sup>	}	}
	2. Well: < 2000 gal/day				
	a. Neighbor's	50 <sup>ab</sup>	60 <sup>ab</sup>		
	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 <sup>c</sup>	10 <sup>c</sup>		
Buildings	1. With Basement	5'	10'		
	2. Without Basement	5'	10'		
Property Line		4'	5'		

**OTHER**

- Fill extension Grade—to 3:1 ONLY AS NEEDED TO AVOID UNIT #8
- 
- 

**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.

Jim Michael SITE EVALUATOR'S SIGNATURE 6-5-92 DATE

**LPI STATEMENT**

I, Gary R. Tuttle, LPI for the Town of Angwata 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 8/13/92 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

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS					
Soil Profile	Ground Water Table	to 6"		3 to 10" inches	
Soil Condition	Restrictive Layer	to 6"		inches	
from HHE-200	Bedrock	to 10"		inches	
SETBACK DISTANCES (IN FEET)	FROM:	TREATMENT TANK	DISPOSAL AREA	TREATMENT TANK	DISPOSAL AREA
Potable Water Supplies	1. Well: > 2000 gal/day	100'	300'	}	}
	2. Well: < 2000 gal/day				
	a. Neighbor's	50' <sup>b</sup>	60' <sup>b</sup>		
	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' <sup>c</sup>	10' <sup>c</sup>		
Buildings	1. With Basement	5'	10'	}	}
	2. Without Basement	5'	10'		
Property Line		4'	5'		

**OTHER**

1. Fill extension Grade—to 3:1 ONLY AS NEEDED TO AVOID UNIT 18.
- 2.
- 3.

**Footnotes:**

- a. This setback distance cannot be reduced by variance. See Table 6-2.
- b. 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.
- c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope.

Jim Richard SITE EVALUATOR'S SIGNATURE      6-5-92 DATE

**LPI STATEMENT**

I, Nay R. Lalli, LPI for the Town of Angwa 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: \_\_\_\_\_

\_\_\_\_\_ Nay R. Lalli LPI'S SIGNATURE      8/13/92 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.

9/ \_\_\_\_\_ SEE LETTER SIGNATURE OF THE DEPARTMENT      17 AUG 92 DATE



en R. McKernan, Jr.  
Governor

Rollin Ives  
Commissioner

STATE OF MAINE  
DEPARTMENT OF HUMAN SERVICES  
AUGUSTA, MAINE 04333

August 18, 1992

Ms. Judith Wingate, Manager  
Schiavi Properties  
Box 83  
Augusta Mobile Home Park  
Augusta, Maine 04330

Subject: Replacement System Approval - Augusta Mobile Home  
Park - AUGUSTA

Ms. Wingate,

Enclosed herewith is an approved copy of the requested variance. The system will serve units 45, 46, 47 & 48 and consists of six rows of 15 plastic chambers each in trenchlike configuration with serial distribution.

Vertical separation varies from 15 to 31 inches and the length of the system is maximized, the Table 7-1 value of 225 GPD/MH is used; all of which result in a conservative design which is demanded by the site conditions.

Due to the severe limitations (3/E with 3" to SHWT) of the site, the approval is subject to the following conditions:

1. The site evaluator responsible for the design must be retained to oversee the construction of the system. Special attention must be given to site preparation, fill selection, placement and compaction.
2. The occupants of the MH's must be reminded regularly of the need for water conservation.
3. The designer shall provide the owner with recommendations for the operation and maintenance of the system including proposed schedules for inspection and pumping.
4. The site evaluator shall co-operate with the LPI when determining when the project should be constructed and when scheduling inspections.

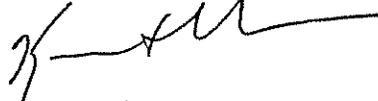
Ms. Judith Wingate, Manager  
August 18, 1992  
Page 2

It is also recommended that the designer consider installing some means of distributing the wastewater within the first row to avoid the possibility of hydraulic overloading near the inlet when there is insufficient bio-mat to restrict vertical flow.

The LPI may issue the required permit.

Construction shall not begin until the owner has obtained the permit and/or until the designer states that the site is suitable for construction.

Sincerely,



Kenneth L. Meyer  
Wastewater & Plumbing Control  
Division of Health Engineering

cc: Gary Fuller, LPI ✓  
John Archard, S.E.  
Manufactured Housing Board

MLC 645

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

**PROPERTY ADDRESS**

Town Or Plantation: AUGUSTA

Street Subdivision Lot #: RIVERSIDE DR.

**PROPERTY OWNERS NAME**

SCHIANI PROPERTIES: AUGUSTA MOBILE HOME PARK

Last: \_\_\_\_\_ First: HOME PARK

Applicant Name: JUDITH WINGATE M.R.

Mailing Address of Owner/Applicant (if Different): Box 83 AUGUSTA MOBILE HOME PARK AUGUSTA, ME 04330

**Caution: Permit Required**

AUGUSTA 2501 TOWN COPY

Date Permit Issued: 18-1992 FEE: 6.80  Double Fee Charged

Local Plumbing Inspector Signature: [Signature] L.P.I. # \_\_\_\_\_

**Owner/Applicant Statement**

I certify that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Local Plumbing Inspector to deny a Permit.

Judith Wingate 06-17-92

Signature of Owner/Applicant \_\_\_\_\_ Date \_\_\_\_\_

**Caution: Inspection Required**

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

Local Plumbing Inspector Signature \_\_\_\_\_ Date Approved \_\_\_\_\_

## PERMIT INFORMATION

**THIS APPLICATION IS FOR:**

1.  NEW SYSTEM

2.  REPLACEMENT SYSTEM

3.  EXPANDED SYSTEM

4.  EXPERIMENTAL SYSTEM

**THIS APPLICATION REQUIRES:**

1.  NO RULE VARIANCE

2.  NEW SYSTEM VARIANCE  
Attach New System Variance Form

3.  REPLACEMENT SYSTEM VARIANCE  
Attach Replacement System Variance Form

a.  Requiring Local Plumbing Inspector Approval

b.  Requires State and Local Plumbing Inspector Approval

4.  MINIMUM LOT SIZE VARIANCE

**INSTALLATION IS:**

COMPLETE SYSTEM

1.  NON-ENGINEERED SYSTEM

2.  PRIMITIVE SYSTEM  
(Includes Alternative Toilet)

3.  ENGINEERED (+ 2000 gpd)

**SEASONAL CONVERSION**

to be completed by the LPI

5.  SYSTEM COMPLIES WITH RULES

6.  CONNECTED TO SANITARY SEWER

7.  SYSTEM INSTALLED - P# \_\_\_\_\_

8.  SYSTEM DESIGN RECORDED AND ATTACHED

**DISPOSAL SYSTEM TO SERVE:**

1.  SINGLE FAMILY DWELLING

2.  MODULAR OR MOBILE HOME

3.  MULTIPLE FAMILY DWELLING

4.  OTHER MOBILE HOME PARK  
SPECIFY SITE 45-46-47-48

**INDIVIDUALLY INSTALLED COMPONENTS:**

4.  TREATMENT TANK (ONLY)

5.  HOLDING TANK \_\_\_\_\_ GAL

6.  ALTERNATIVE TOILET (ONLY)

7.  NON-ENGINEERED DISPOSAL AREA (ONLY)

8.  ENGINEERED DISPOSAL AREA (ONLY)

9.  SEPARATED LAUNDRY SYSTEM

**IF REPLACEMENT SYSTEM:**

YEAR FAILING SYSTEM INSTALLED 1950's

**THE FAILING SYSTEM IS:**

1.  BED 3.  TRENCH

2.  CHAMBER 4.  OTHER: \_\_\_\_\_

**SIZE OF PROPERTY**

25.9± ACRES

**ZONING**

RESIDENTIAL

**TYPE OF WATER SUPPLY**

AUGUSTA WATER DIST

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

**TREATMENT TANK**

1.  SEPTIC:  Regular  Low Profile

2.  AEROBIC

SIZE: 4x1000 GALS.

**WATER CONSERVATION**

1.  NONE

2.  LOW VOLUME TOILET

3.  SEPARATED LAUNDRY SYSTEM

4.  ALTERNATIVE TOILET

SPECIFY: \_\_\_\_\_

**PUMPING**

1.  NOT REQUIRED 75-46-47

2.  MAY BE REQUIRED  
(DEPENDING ON TREATMENT TANK LOCATION AND ELEVATION)

3.  REQUIRED UNIT 48

DOSE: \_\_\_\_\_ GALS.

**CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.)**

1 MOBILE HOME

5785 @ 225 GPD/SITE

**SOIL CONDITIONS USED FOR DESIGN PURPOSES**

PROFILE: 9 CONDITION: D/E

DEPTH TO LIMITING FACTOR: 3-10.

**SIZE RATINGS USED FOR DESIGN PURPOSES**

1.  SMALL

2.  MEDIUM

3.  MEDIUM-LARGE

4.  LARGE

5.  EXTRA LARGE

**DISPOSAL AREA TYPE/SIZE**

1.  BED \_\_\_\_\_ Sq. Ft.

2.  CHAMBER 2250 Sq. Ft.  
 REGULAR  H-20

3.  TRENCH \_\_\_\_\_ Linear Ft.

4.  OTHER: \_\_\_\_\_

**DESIGN FLOW:** 900

(GALLONS/DAY)

## SITE EVALUATOR STATEMENT

On 5-26-92 (date) I conducted a site evaluation for this project and certify that the data reported is accurate. The system I propose is in accordance with the Subsurface Wastewater Disposal Rules.

[Signature]  
Site Evaluator Signature  
(Local Plumbing Inspector's Signature if permit is for Seasonal Conversion.)

101  
SE#

6-5-92  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

Town, City, Plantation

*Augusta*

Street, Road, Subdivision

*RIVERSIDE DR. & BLAIR RD.*

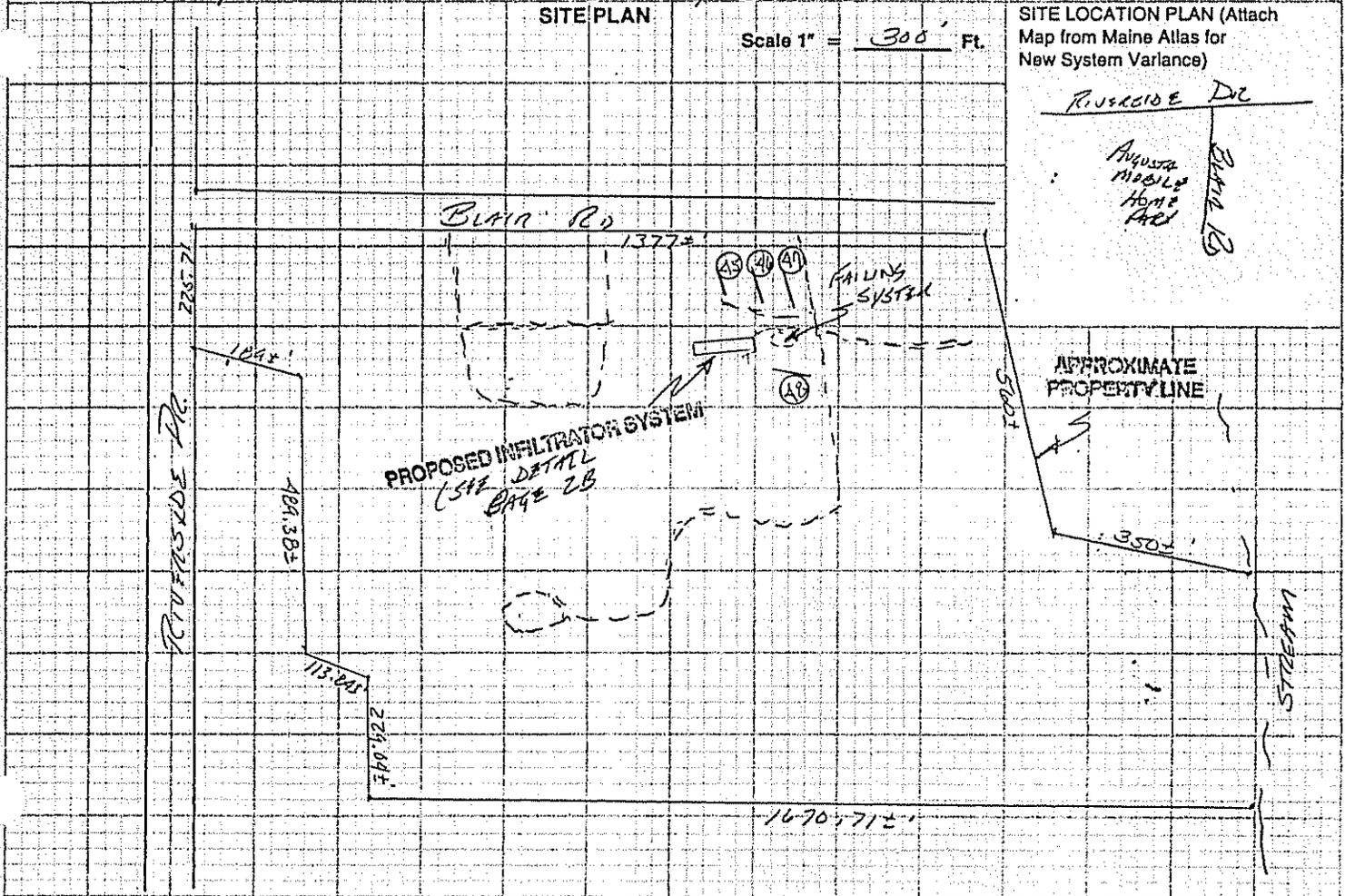
Owners Name

*SCHIANI PROPERTIES*

## SITE PLAN

Scale 1" = *300* 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 TR 1  Test Pit  Boring

*N/A* " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
SILT LOAM	FRIABLE	BROWN	NONE EVIDENT
SILTY CLAY	FIRM	OLIVE BROWN	COMMON
		SALTY	DISTINCT

Soil Profile <u>9</u>	Classification Condition <u>D</u>	Slope <u>8</u> %	Limiting Factor <u>10</u>	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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Observation Hole TR 2  Test Pit  Boring

*N/A* " Depth of Organic Horizon Above Mineral Soil

Texture	Consistency	Color	Mottling
SILT LOAM	FRIABLE	OLIVE BROWN	NONE EVIDENT
SILTY CLAY	FIRM	OLIVE	COMMON
			DISTINCT

Soil Profile <u>9</u>	Classification Condition <u>E</u>	Slope <u>8/10</u> %	Limiting Factor <u>3</u>	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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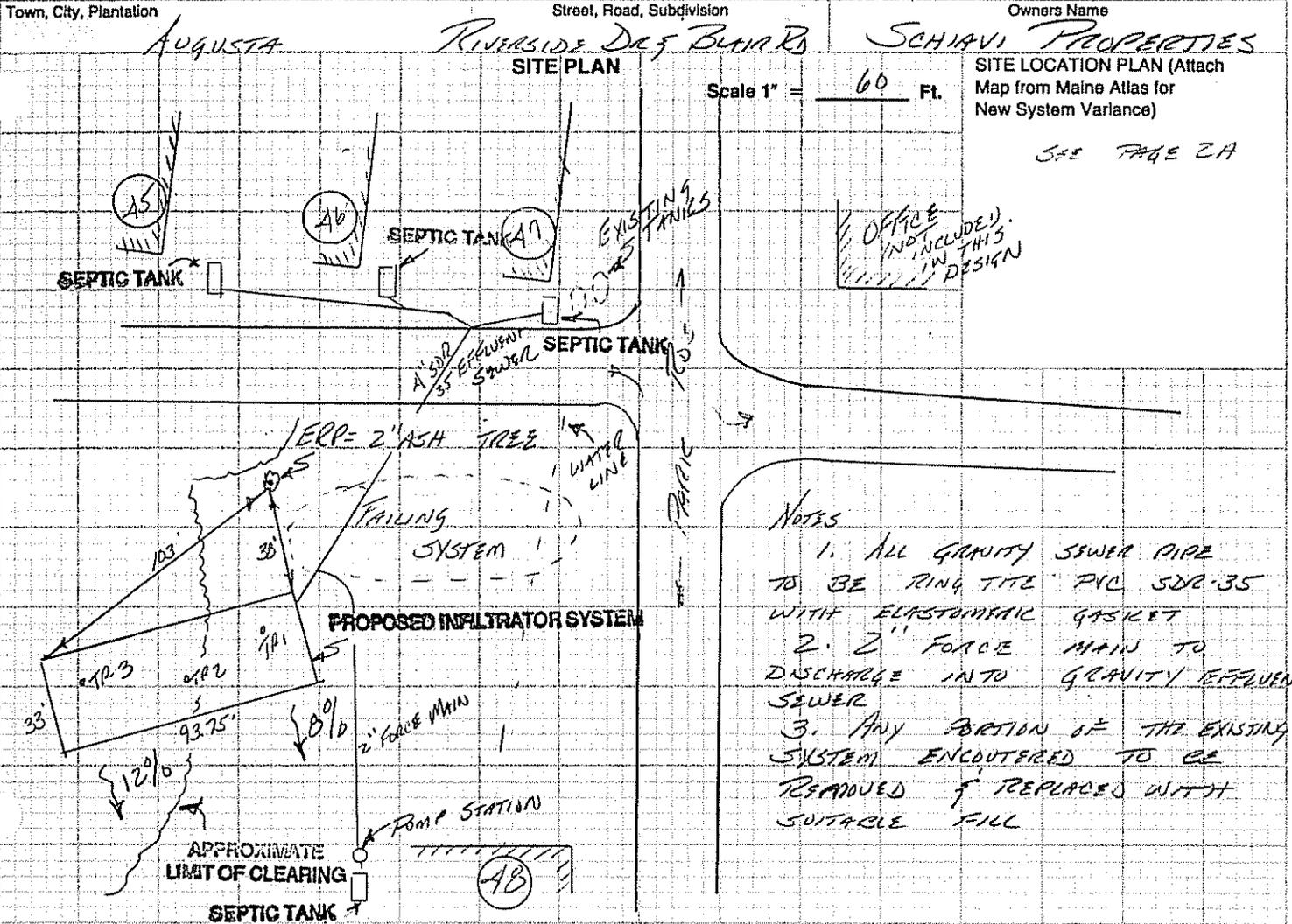
*[Signature]*  
Site Evaluator Signature

181  
SE#

6-5-92  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering



## SOIL DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole TP-3  Test Pit  Boring

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

N/A " Depth of Organic Horizon Above Mineral Soil

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

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	SILT	FRAGILE	OLIVE	EVIDENT
0-6	LOAM		BROWN	COMMON
6-10	CLAY	FIRM		DISTINCT
10			OLIVE	
15				
20				
30				
40				
50				

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

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

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

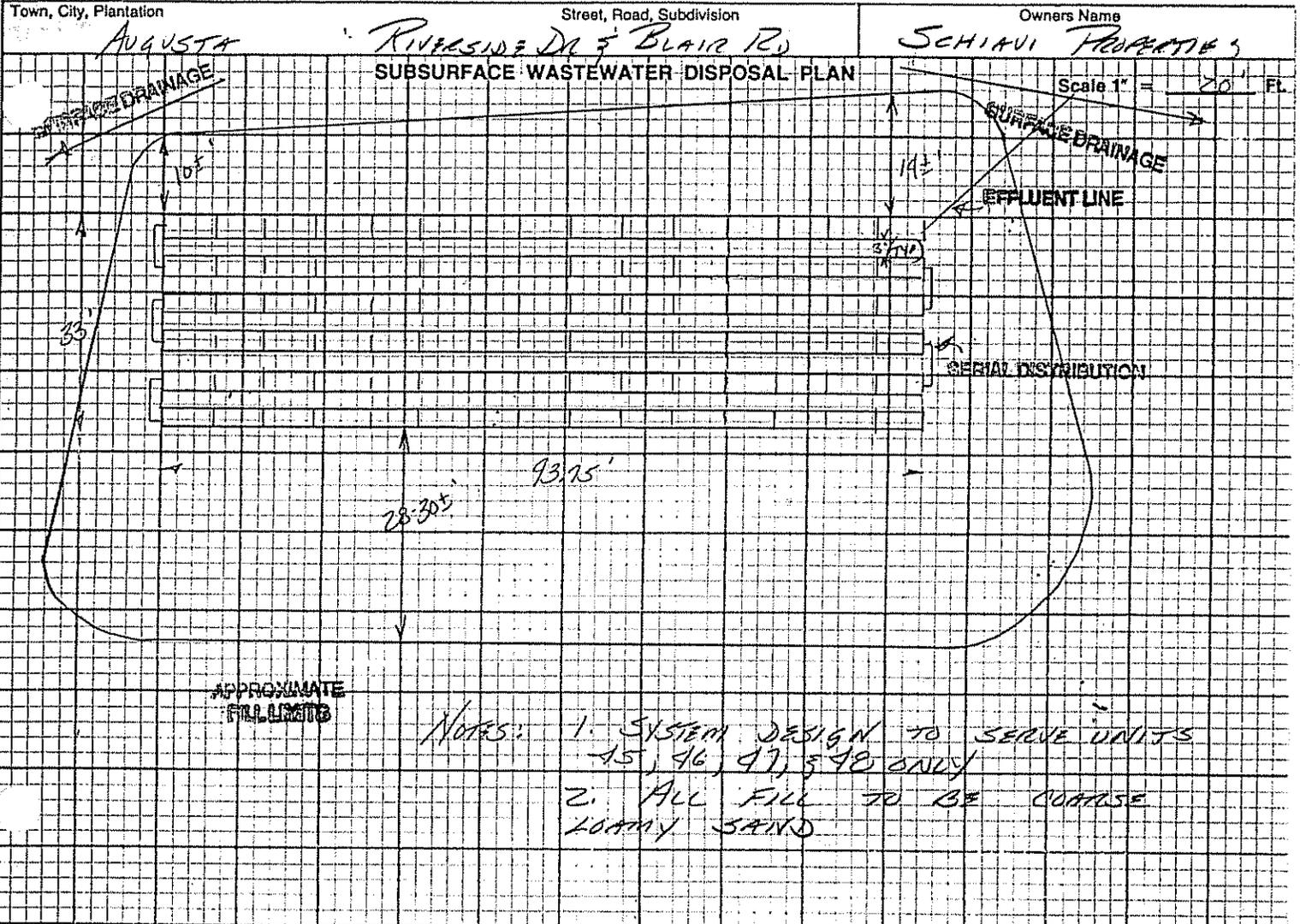
*John Richard*  
Site Evaluator Signature

121  
SE#

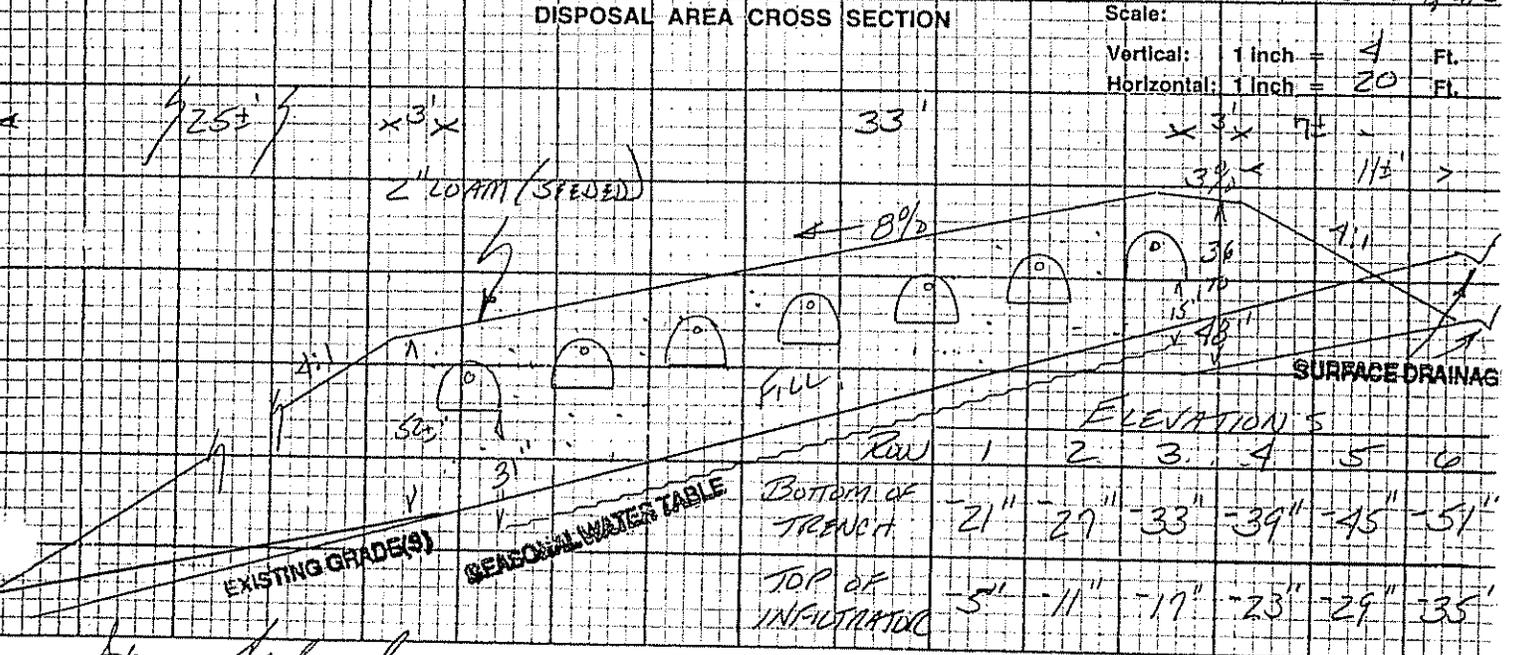
6-5-92  
Date

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering



FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT LOCATION & DESCRIPTION	
Depth of Fill (Upslope)	<u>36-48"</u>	Reference Elevation is	<u>00"</u>	<u>FLAGGED NAIL IN 2" ASH TREE 14" ABOVE GROUND</u>	
Depth of Fill (Downslope)	<u>52"</u>	Bottom of Disposal Area	<u>SEE BELOW</u>		
		Top of Distribution Lines or Chambers	<u>"</u>		



Jim Hubbard  
Site Evaluator Signature

181  
SE#

6-5-92  
Date

NOTES

1. Site evaluations conform to criteria of the "State of Maine-Subsurface Wastewater Disposal Rules-Capt 241" latest revision. Other environmental concerns are not evaluated and may require additional professional opinions. The delineation of wetlands when needed is to be performed by competent consultants engaged in such practice and may affect the suitability of particular sites.

2. All construction to conform to specifications in the "State of Maine-Subsurface Wastewater Disposal Rules-Chapt 241" latest revision.

3. Wells to be located a minimum 100' from disposal system. Systems to be a minimum 20' from structures with foundations 15' from other structures.

4. Property lines 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 outlet filter is recommended when installing a mechanical garbage disposal.

6. Pump stations, when required, shall be watertight to prevent infiltration. Pumps shall be installed to manufacturers specifications and sized for actual installed T.D.H.. For uninterupted service during repair duplex pumps are required.

7. Force mains and pressure lines shall be flushed of foriegn material and pumps checked for proper on/off cycle before being put in service.

8. Applicability of design must be reevaluated when location of structures are substantially different than shown on the site plan, or when other appurtenances(I.E. swimming pools) are considered.

9. Systems put into service prior to establishing proper cover shall be provided with adequate erosion controls.

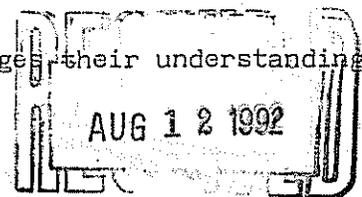
10. Provide low profile tanks when determined needed in the field. All tanks may be field located at least 8' from structures.

11. All components subject to freezing must be adequately insulated.

12. The LPI shall inform the owner and designer of local ordinances exceeding the "Rules" prior to issuing a permit, so that necessary amendments can be made.

13. 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 "Notes".



39/2 ASB