

065410

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. 2285 E

Date Permit Issued _____
MONTH/DAY/YEAR

Property Owner's Name: James Carey

Tel. No. 622-7241

System's Location: Hwy 105 + Jct Ward Rd
STREET

Augusta
TOWN

Maine 04330
ZIP

Property Owner's Address: RFD1
(if different from above)

Windsor
TOWN

STREET
Me
STATE

04363
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.

Luella B Carey
PROPERTY OWNER'S SIGNATURE

10/9/91
DATE

VARIANCE CATEGORY	VARIANCE REQUESTED	LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
SOILS					
Soil Profile	Ground Water Table	to 6"		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 ^a	300 ^a		
	2. Well: < 2000 gal/day				
	a. Neighbor's	50 ^b	60 ^b		
	b. Property Owner's	25'	50'	70'	
	3. Water Supply Line	See note 'a'			
Waterbodies	1. Perennial	50'	60'		
	2. Intermittent	15'	20'	20'	25'
	3. Manmade drainage ditch	10'	15'		
Downhill Slope	Greater than 3:1 (33%)	5 ^c	10 ^c		
Buildings	1. With Basement	5'	10'		
	2. Without Basement	5'	10'		
Property Line		4'	5'		

OTHER

1. Fill extension Grade—to 3:1

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.

Roger Miller

SITE EVALUATOR'S SIGNATURE

22 Dec 90

DATE

LPI STATEMENT

I, *Jay R. Latta*, 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:

Jay R. Latta

LPI'S SIGNATURE

10/9/91

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

1765210

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY ADDRESS

Town Or Plantation	Augusta
Street	Hwy 105 So. Belfast Ave
Location Lot #	

PROPERTY OWNERS NAME

Last: Carey First: James

Applicant Name: RFD1

Mailing Address of Owner/Applicant (If Different): Windsor, Me 04363

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.

Signature of Owner/Applicant: James Carey Date: 1/9/91

AUGUSTA	Permit No. 2285	TOWN COPY
Date Permit Issued: <u>1/9/91</u>	\$ <u>10.00</u> FEE	<input type="checkbox"/> Double Fee Charged
Local Plumbing Inspector Signature: <u>James R. Inley</u>		L.P.I. # <u>1850</u>

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: James R. Inley Date Approved: 1/9/91

PERMIT INFORMATION

THIS APPLICATION IS FOR: 1. <input type="checkbox"/> NEW SYSTEM 2. <input checked="" type="checkbox"/> REPLACEMENT SYSTEM 3. <input type="checkbox"/> EXPANDED SYSTEM 4. <input type="checkbox"/> EXPERIMENTAL SYSTEM	THIS APPLICATION REQUIRES: 1. <input type="checkbox"/> NO RULE VARIANCE 2. <input type="checkbox"/> NEW SYSTEM VARIANCE Attach New System Variance Form 3. <input checked="" type="checkbox"/> REPLACEMENT SYSTEM VARIANCE Attach Replacement System Variance Form a. <input checked="" type="checkbox"/> Requiring Local Plumbing Inspector Approval b. <input type="checkbox"/> Requires State and Local Plumbing Inspector Approval 4. <input type="checkbox"/> MINIMUM LOT SIZE VARIANCE	INSTALLATION IS: COMPLETE SYSTEM 1. <input checked="" type="checkbox"/> NON-ENGINEERED SYSTEM 2. <input type="checkbox"/> PRIMITIVE SYSTEM (Includes Alternative Toilet) 3. <input type="checkbox"/> ENGINEERED (+2000 gpd) INDIVIDUALLY INSTALLED COMPONENTS: 4. <input type="checkbox"/> TREATMENT TANK (ONLY) 5. <input type="checkbox"/> HOLDING TANK _____ GAL 6. <input type="checkbox"/> ALTERNATIVE TOILET (ONLY) 7. <input type="checkbox"/> NON-ENGINEERED DISPOSAL AREA (ONLY) 8. <input type="checkbox"/> ENGINEERED DISPOSAL AREA (ONLY) 9. <input type="checkbox"/> SEPARATED LAUNDRY SYSTEM
SEASONAL CONVERSION to be completed by the LPI <u>NA</u> 5. <input type="checkbox"/> SYSTEM COMPLIES WITH RULES 6. <input type="checkbox"/> CONNECTED TO SANITARY SEWER 7. <input type="checkbox"/> SYSTEM INSTALLED - P# _____ 8. <input type="checkbox"/> SYSTEM DESIGN RECORDED AND ATTACHED	DISPOSAL SYSTEM TO SERVE: 1. <input type="checkbox"/> SINGLE FAMILY DWELLING 2. <input checked="" type="checkbox"/> MODULAR OR MOBILE HOME 3. <input type="checkbox"/> MULTIPLE FAMILY DWELLING 4. <input type="checkbox"/> OTHER _____ SPECIFY _____	TYPE OF WATER SUPPLY <u>14' Dug Well</u>
IF REPLACEMENT SYSTEM: YEAR FAILING SYSTEM INSTALLED _____ THE FAILING SYSTEM IS: 1. <input type="checkbox"/> BED 2. <input type="checkbox"/> CHAMBER 3. <input type="checkbox"/> TRENCH 4. <input checked="" type="checkbox"/> OTHER: <u>Outhouse</u>	SIZE OF PROPERTY <u>1 Act</u>	ZONING <u>Residential</u>

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK 1. <input checked="" type="checkbox"/> SEPTIC: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> AEROBIC SIZE: <u>750</u> GALS.	WATER CONSERVATION 1. <input checked="" type="checkbox"/> NONE 2. <input type="checkbox"/> LOW VOLUME TOILET 3. <input type="checkbox"/> SEPARATED LAUNDRY SYSTEM 4. <input type="checkbox"/> ALTERNATIVE TOILET SPECIFY: _____	PUMPING 1. <input type="checkbox"/> NOT REQUIRED 2. <input checked="" type="checkbox"/> MAY BE REQUIRED (DEPENDING ON TREATMENT TANK LOCATION AND ELEVATION) 3. <input type="checkbox"/> REQUIRED DOSE: _____ GALS.	CRITERIA USED FOR DESIGN FLOW (BEDROOMS, SEATING, EMPLOYEES, WATER RECORDS, ETC.) <u>2-Bedroom</u> <u>Table 7-1</u> <u>Minimum</u> DESIGN FLOW: <u>180</u> (GALLONS/DAY)
SOIL CONDITIONS USED FOR DESIGN PURPOSES PROFILE: <u>9</u> CONDITION: <u>D</u> DEPTH TO LIMITING FACTOR: <u>10</u>	SIZE RATINGS USED FOR DESIGN PURPOSES 1. <input type="checkbox"/> SMALL 2. <input type="checkbox"/> MEDIUM 3. <input type="checkbox"/> MEDIUM-LARGE 4. <input type="checkbox"/> LARGE 5. <input checked="" type="checkbox"/> EXTRA LARGE	DISPOSAL AREA TYPE/SIZE 1. <input checked="" type="checkbox"/> BED <u>1000</u> Sq. Ft. 2. <input type="checkbox"/> CHAMBER _____ Sq. Ft. <input type="checkbox"/> REGULAR <input type="checkbox"/> H-20 3. <input type="checkbox"/> TRENCH _____ Linear Ft. 4. <input type="checkbox"/> OTHER: _____	

SITE EVALUATOR STATEMENT

On 22 Dec 90 (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: Boyd Miller SE#: 106 Date: 22 Dec 90

(Local Plumbing Inspector's Signature if permit is for Seasonal Conversion.)

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Owners Name

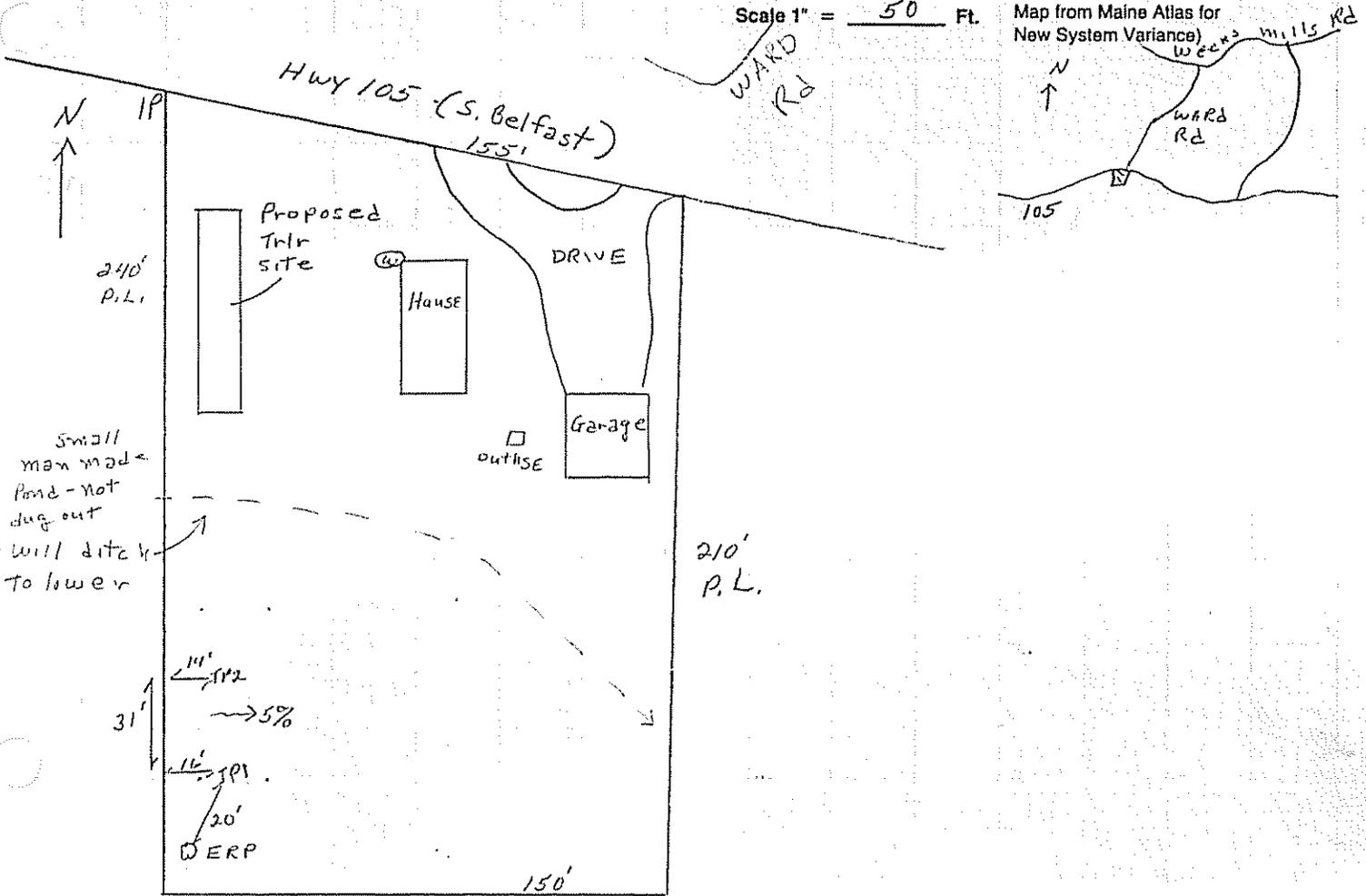
Augusta

Hwy 105
SITE PLAN

James Carey

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

Scale 1" = 50 Ft.



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

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

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	Sil	friable	Br	
6			Yellow Br	
10				ol + Br
15	Sil	firm	gray Br	gray
20			olive	
30			gray	
40				
50				

Soil Profile 9 Classification D Slope 5 % Limiting Factor 11
 Ground Water
 Restrictive Layer
 Bedrock

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

DEPTH BELOW MINERAL SOIL SURFACE (Inches)	Texture	Consistency	Color	Mottling
0	Sil	friable	Br	
6			Light Br	
10				tan +
15	Sil	firm	ol Br	gray
20			ol	
30			gray	
40				
50				

Soil Profile 9 Classification D Slope 4 % Limiting Factor 10
 Ground Water
 Restrictive Layer
 Bedrock

Roger Miller
Site Evaluator Signature

106
SE#

22 Dec 90
Date

JBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services
Division of Health Engineering

wn, City, Plantation

Street, Road, Subdivision

Owners Name

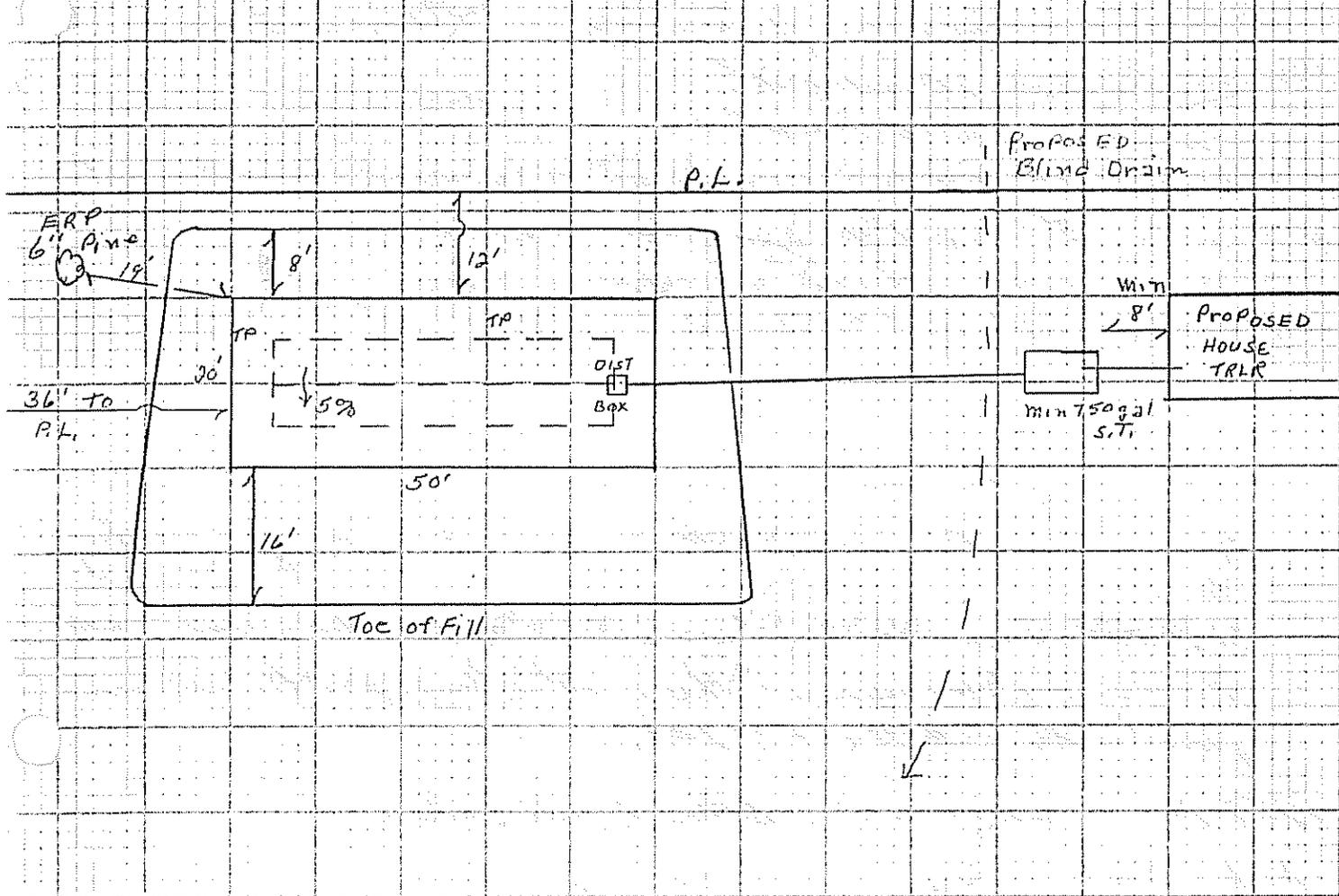
Augusta

Hwy 105

James Carey

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale 1" = 20' Ft.



FILL REQUIREMENTS

Depth of Fill (Upslope) Min 26"

Depth of Fill (Downslope) Min 38"

CONSTRUCTION ELEVATIONS

Reference Elevation is 00

Bottom of Disposal Area -58"

Top of Distribution Lines or Chambers -47"

ELEVATION REFERENCE POINT

LOCATION & DESCRIPTION

Mail + Red flag 1st

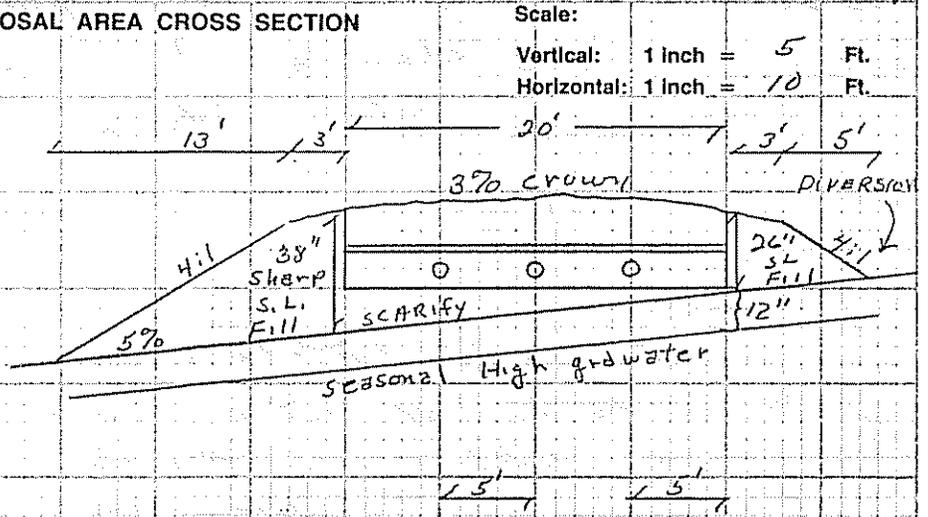
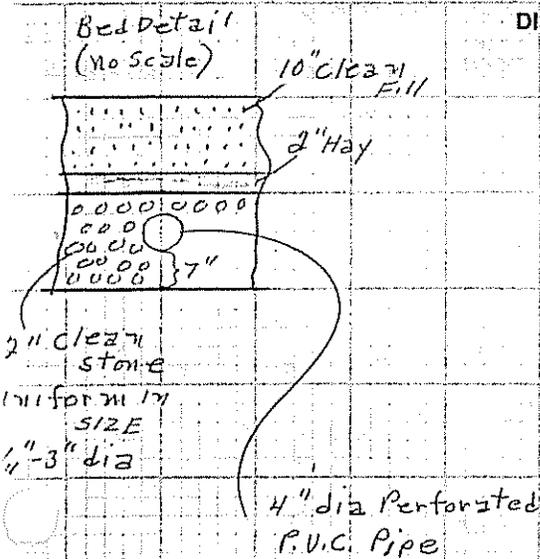
6" Pine - 52 1/4" above grd

DISPOSAL AREA CROSS SECTION

Scale:

Vertical: 1 inch = 5 Ft.

Horizontal: 1 inch = 10 Ft.



Roger Miller
Site Evaluator Signature

106
SE#

22 Dec 90
Date

June 2, 1892

8:50 AM. Met w/ Roger Webster, Frank Miller & ONE
Mrs. Carey, Cary Fuller 112 and myself.

Larry Whitlock
June

We noted an excavated hole at the
outlet end of the soft tank and ~~could~~^{see} a semi-crushed or flattened
4" drain pipe. This to exclude Roger Webster determined
that the top fill was not what he specified in the design
work, that there was too much clay deposits in the fill and
in question what may be under the stone based on cuttings and top.

Recommendations:

- 1) Remove & replace crushed drain pipe on the outlet side of the soft tank.
- 2) Excavate and remove top fill and provide fill as per enclosed design plan.
- 3) ~~Excavate~~ Excavate two trenches next to the drain lines in the field and determine whether or not the proper fill has been placed under the drain bed.

Mr. Webster will provide a letter to the effect.

Note: system is not in use, Mrs. Carey states Mr. Carey was going to
place a vent pipe in the field when he noted the crushed pipe.
Then he contacted Marshall Swan a well contractor for his
opinion of the system. And Mr. Swan stated he had concerns
to contact myself and others mentioned, Mr. Swan felt the system
was filled wrong.

Larry Whitlock

6-16-92

On June 15, 1892 Mr. Whitlock excavated the top fill and had
excavations of it from the system and spread it out beyond the field.
The fill he used to replace the old fill was a sharp sand,
and he capped over the system with a beam. I had met with
Roger Webster at which he had stated that the fill excavations of
the original system had to be removed do to the clay content.

Larry Whitlock

*Received
June 4, 1992*

2 June 1992

Roger J. Weber
R.R.1 Box 2740
Weeks Mills, Me. 04361

George Soucy
City Center
16 Cony Street
Augusta, Me. 04330

Dear Mr. Soucy;

On this date a site visit was made to and on the property of Mr. and Mrs. James Carey Jr.. The property is located in the town of Augusta at the junction of Hwy 105 and Ward Road. Present with me were yourself, Gary Fuller of your office, Ken Meyer of Health Engineering, Mrs. Carey, and near the end Marshall Swann-a local contractor.

The purpose of the visit was to inspect a completed subsurface wastewater disposal system. The system, which was installed in the fall of 1991, is not hooked to an existing dwelling and therefore has never been used. During his effort to install a vent in the field the owner found that the pipe running from the septic tank to the disposal field was flattened. He then had several other observation holes dug.

Our observations of these holes at the site (subsurface wastewater disposal system) indicate that: 1) the pipe from the septic tank to the field is flattened and may have a bend in it and 2) there appears to be an excess of heavy soil i.e. silt loam to silty clay loam, in the field above the stone and alongside of the bed. A check of the drainage pipe elevation shows this to be okay. We were without the benefit of a backhoe, consequently no other test sites were dug.

RECOMMENDATIONS: At a minimum, 1) the connecting pipe from the septic tank to the field should be replaced, 2) the fill over and around the bed should be removed and replaced with a clean sharp sandy loam to loamy sand material.

I also feel, considering what was observed in the exposed fill, that a minimum of 2 other test holes be dug with a backhoe for the purpose of examining the extent of the heavy soil in the others areas of the field. I would suggest one hole at the center downside of the field to observe what type of fill might be under the stone and in the field extension. The other test site should be in the center of the field between the pipes. If these sites indicate an excess of heavy soil in these additional areas than one should seriously consider replacing the entire field.

Roger J. Weber
Licensed Site Evaluator
Lic No. 106

Geo

If you feel you need me

There when the sites are dug I

would appreciate a time mid to late

afternoon. It's easier for me to get

time off that way.

Regu.

WEEKS MILLS, ME. 04361-9715



George Soucy
City Center
16 Cong St.
Augusta, Me 04330

