



STATE OF MAINE  
DEPARTMENT OF HUMAN SERVICES  
AUGUSTA, MAINE 04333

MICHAEL R. PETIT  
COMMISSIONER

September 1, 1981

Mr. Gary Hilliard  
57 Middle Street  
Hallowell, Maine 04347

Re: Gary Hilliard Property, Townsend Road, Augusta

Dear Mr. Hilliard:

I met with you, Richard Baker, LPI, and William Rideout, S.E. on August 31, 1981 to discuss the problems with the disposal system installation as referenced in my letter to Mr. Baker on August 27, 1981. Richard Baker and I also met with Avid Dostie on site, previous to our meeting and heard his explanation of the situation.

Following is an outline of my understanding of the situation:

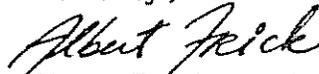
1. William Rideout, Site Evaluator, organized a meeting on your property with David Breau, from this office and yourself, to determine if this office would agree to a New System Variance Request to place a disposal system on your property. It was concluded from this meeting that there was a small knoll on the lot that met the minimum criteria of the Rules without the need for a variance and that the proposed disposal area should be located there.
2. William Rideout submitted an Application (HHE-200) for a disposal system on March 14, 1981 which proposed a system on that knoll which was delineated during the initial meeting with David Breau.
3. An external plumbing permit #42516E was issued by Richard Baker, LPI on March 20, 1981 based on William Rideout's Application (HHE-200). A building permit followed.
4. Development of the lot proceeded through the Spring of 1981. Apparently, extensive earth work took place whereby the area that David Breau and William Rideout originally looked at for consideration of a variance was filled and at least a section of the knoll, that was delineated on the original permit application for the disposal area, was removed. The extent of the earth movement and the underlying reason for the site development proceeding the way it did is not known by this office.

5. Avid Dostie, Contractor, apparently contacted Gary Hilliard and suggested that William Rideout be called back to review the lot as it existed after the site preparation to determine if a disposal system could be redesigned to avoid pumping to the knoll.
6. William Rideout returned on May 21, 1981 at Avid Dostie's request and re-examined the site. William Rideout completed a revised application on July 11, 1981 for the area that was originally concluded during the initial visit to be unacceptable. This area required a Variance to the Rules to install a disposal system due to severe limitations on account of slope and/or soil conditions. William Rideout's revised application specified that no variance was needed.
7. The revised application was submitted to Richard Baker, Local Plumbing Inspector, for review. Based on the information supplied on the form, and Richard Baker's ignorance as to what had evolved, he found the application to be in order and revised the permit.
8. The disposal area was installed in the location designated on the revised plan by William Rideout.
9. David Breau and I visited the site on August 24, 1981 and David Breau observed that the system was not installed in accordance with the original plans.
10. I sent a letter to Richard Baker, LPI, on August 27, 1981 to issue a Stop Work Order and revoke the permit until the problem could be resolved.

Several meetings subsequently took place with Dostie, Baker, Rideout, and Hilliard. Based on these discussions and a meeting with the staff of this office, an on-site visit has been scheduled for September 4, 1981 at 8:00 A.M.

The purpose of this meeting is to uncover the existing system and determine if it is in accordance with the Subsurface Wastewater Disposal Rules. If it is not in accordance with the Rules, then an observation pit will be excavated in the original proposed location to determine the suitability of that area. It is proposed that by meeting with all interested parties on-site, an objective decision can be reached regarding the status of the disposal system.

Sincerely,



Albert Frick, Soil Scientist  
Wastewater & Plumbing Control  
Division of Health Engineering

AF/mo

cc: Richard Baker  
William Rideout

This Application is For:  New System  Replacement Of Entire System  Expanded System  Replacement Of Disposal Area Only  Conversion Permit

Variance:  None Required  New System Variance  Replacement System Variance With:  LPI Approval  Dept. Review

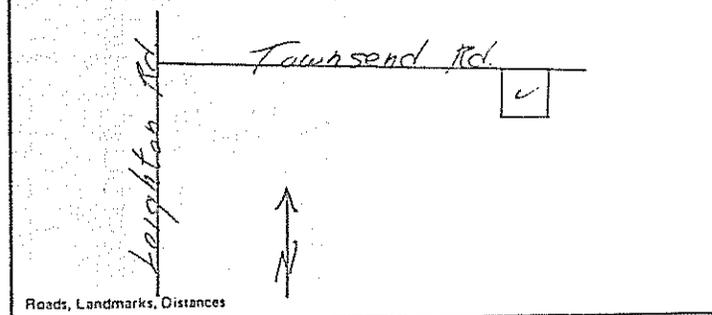
PROPERTY LOCATION

Augusta Town, Plantation Street, Road Subdivision Name Lot No.

PROPERTY OWNER or APPLICANT  
Gary Hilliard

Mailing Address: 57 Middle Street  
Tel. No. 623-9158

Hallowell Maine State Zip Code



TYPE OF STRUCTURE, DESIGN FLOW

Single Family Dwelling Number of Bedrooms 3 Design Flow 300 GPD

Design Flow based on  Minimum  Moderate  Conservative

Reduction in Design Flow due to Water Conservation

If so, specify type (s) \_\_\_\_\_

Other Establishment. Specify \_\_\_\_\_ Type of Facility \_\_\_\_\_

(Number of Employees, Seating Capacity, Building Size, etc.)

Design Flow \_\_\_\_\_ GPD If greater than 2000 GPD, Specify Professional Engineer

PROPERTY INFORMATION

Area of Property 25000  Sq. Ft.  Acres  Zoned  Not Zoned

If zoned, type of zoning \_\_\_\_\_

Property on Water Body, If so, Name of Water Body \_\_\_\_\_

Water Supply is:  Public Utility,  Drilled Well \_\_\_\_\_ depth

Dug Well \_\_\_\_\_ depth  Well Point  Spring  Surface Water

SOIL PROFILE DESCRIPTION Location of Observation Holes shown on page 2

TEXTURAL DESCRIPTION OF EACH SOIL STRATA ENCOUNTERED	Observation Hole No. 1	Observation Hole No. _____	Observation Hole No. _____
	<input checked="" type="radio"/> Test Pit <input type="radio"/> Boring	<input type="radio"/> Test Pit <input type="radio"/> Boring	<input type="radio"/> Test Pit <input type="radio"/> Boring
Organic Strata or (Existing Fill) Thickness 12"	Organic Strata or (Existing Fill) Thickness _____	Organic Strata or (Existing Fill) Thickness _____	Organic Strata or (Existing Fill) Thickness _____
1st Original Mineral Soil Strata Depth from 0 " to 54" Thickness _____ Yellow Brown Sand	1st Original Mineral Soil Strata Depth from 0 " to _____ Thickness _____	1st Original Mineral Soil Strata Depth from 0 " to _____ Thickness _____	1st Original Mineral Soil Strata Depth from 0 " to _____ Thickness _____
2nd Depth from 54" to 80" Thickness _____ Clay/Silt	2nd Depth from _____ " to _____ " Thickness _____	2nd Depth from _____ " to _____ " Thickness _____	2nd Depth from _____ " to _____ " Thickness _____
3rd Depth from _____ " to _____ " Thickness _____	3rd Depth from _____ " to _____ " Thickness _____	3rd Depth from _____ " to _____ " Thickness _____	3rd Depth from _____ " to _____ " Thickness _____
4th Depth from _____ " to _____ " Thickness _____	4th Depth from _____ " to _____ " Thickness _____	4th Depth from _____ " to _____ " Thickness _____	4th Depth from _____ " to _____ " Thickness _____
Total Depth of Observation Hole 80"	Total Depth of Observation Hole _____	Total Depth of Observation Hole _____	Total Depth of Observation Hole _____
Depth from top of ORIGINAL MINERAL SOIL	Maximum Seasonal High Ground <input type="radio"/> None evident Water Table Depth _____	Maximum Seasonal High Ground <input type="radio"/> None Evident Water Table Depth _____	Maximum Seasonal High Ground <input type="radio"/> None evident Water Table Depth _____
	Depth to Restrictive Layer <input type="radio"/> None evident	Depth to Restrictive Layer <input type="radio"/> None evident	Depth to Restrictive Layer <input type="radio"/> None evident
	Depth to Bedrock <input type="radio"/> None evident	Depth to Bedrock <input type="radio"/> None evident	Depth to Bedrock <input type="radio"/> None evident

PROFILE	CONDITION	SLOPE	PROFILE	CONDITION	SLOPE	PROFILE	CONDITION	SLOPE
9	B	18% UNDER RED			%			%

DISPOSAL SYSTEM PROPOSED Location of system and Details on Proposed Plan on page 2

<p>TYPE OF SYSTEM</p> <p><input type="radio"/> Combined System</p> <p><input type="radio"/> Separated System</p> <p>If separated system, type of black waste disposal system to be used:</p> <p><input type="radio"/> Compost</p> <p><input type="radio"/> Pit Privy</p> <p><input type="radio"/> Sealed Vault Privy</p> <p><input type="radio"/> Other: _____</p> <p>Specify: _____</p> <p><input type="radio"/> Separated Laundry System</p> <p><input type="radio"/> Primitive System</p> <p><input type="radio"/> Holding Tank</p>	<p>TREATMENT TANK</p> <p><input checked="" type="radio"/> Septic Tank</p> <p><input type="radio"/> Aerobic Tank</p> <p>Size 1000 Gals.</p> <p>DOSAGE</p> <p><input type="radio"/> Pumping is not required</p> <p><input checked="" type="radio"/> Pumping is required</p> <p>The dose should be: 50 Gals.</p> <p>Dosage chamber capacity shall be 3x3 gals. TILE</p> <p><input checked="" type="radio"/> System should be vented</p>	<p>SUBSURFACE DISPOSAL AREA/TYPE</p> <p><input type="radio"/> Trench Disposal Area</p> <p>Total linear feet of trench _____ ft.</p> <p>Number of Trench lines _____ ft.</p> <p>Length of each trench line _____ ft.</p> <p>Depth of Stone _____ inches.</p> <p>Reduction on trench length due to stone depth _____ %</p> <p><input type="radio"/> Bed Disposal Area</p> <p>Total bed area _____ sq. ft.</p> <p>Number of beds _____</p> <p>Width _____ ft. Length _____ ft.</p> <p><input checked="" type="radio"/> Chamber Disposal Area</p> <p>Total chamber area _____ sq. ft.</p> <p>Number of clusters 12 Chambers 5</p> <p>Width 5 ft. Length 48 ft.</p> <p><input type="radio"/> H-20 required</p>	<p>SYSTEM SIZE RATING</p> <p><input type="radio"/> Small <input checked="" type="radio"/> Medium <input type="radio"/> Medium Large <input type="radio"/> Large <input type="radio"/> Extra Large</p> <p>DISPOSAL AREA ELEVATION</p> <p>Depth of Upslope Fill required CUT 23" TO F.G. inches.</p> <p>Depth of Downslope Fill required _____ inches.</p> <p>Reference Elevation Point established at 0 Elevation.</p> <p>Disposal Area Bottom to be established at -43" Elevation.</p> <p>Top of Distribution Lines or Top of Chambers -30" Elevation.</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No: The proposed subsurface disposal area will be located at least 100 feet from any and all wells, springs, surface water bodies and courses (lake, pond, ocean, brook stream, river, swamps, marshes, and bogs).</p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No: The proposed subsurface disposal area will be located at least 300 feet from any and all wells and springs producing 2000 gallons or more of water per day and any public water supplies.</p>
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FOR USE BY SITE EVALUATOR VALID COPY WITH EMBOSSED SEAL

On 3/10/81 (date), a site investigation for this project was completed. I conducted this soil evaluation and certify that the results indicated above best represent the soil conditions found. I recommend the above type and size of subsurface wastewater disposal system. I also recommend the proposed disposal system layout and location shown on page 2.

Signature of Site Evaluator: [Signature] Site Evaluator License Number: 51

Date signed: 3/14/81

FOR USE BY OWNER/APPLICANT

I certify that all the information submitted to be true and correct to the best of my knowledge. I understand that any falsification of this application is reason to deny a permit to install a disposal system and that the permit is valid for a six (6) month period from the date of permit issuance. I also understand that no guarantee is intended or implied by reason of any advice or approval given.

Signature of Owner/Applicant: [Signature] Date Signed: 3/19/81

FOR USE BY LPI:  This Application is approved. If conditions, specify: \_\_\_\_\_

This Application is Denied due to:  System is not in accordance with Rules.

Application is incomplete.  Application is unclear.  Development is in violation of other Regulations. Specify \_\_\_\_\_

Signature of LPI: Richard B. Baker Date: 3-19-81

PERMIT NO. 42516 E Date Issued 3/21/81

Pary Hilliard

Site Plan

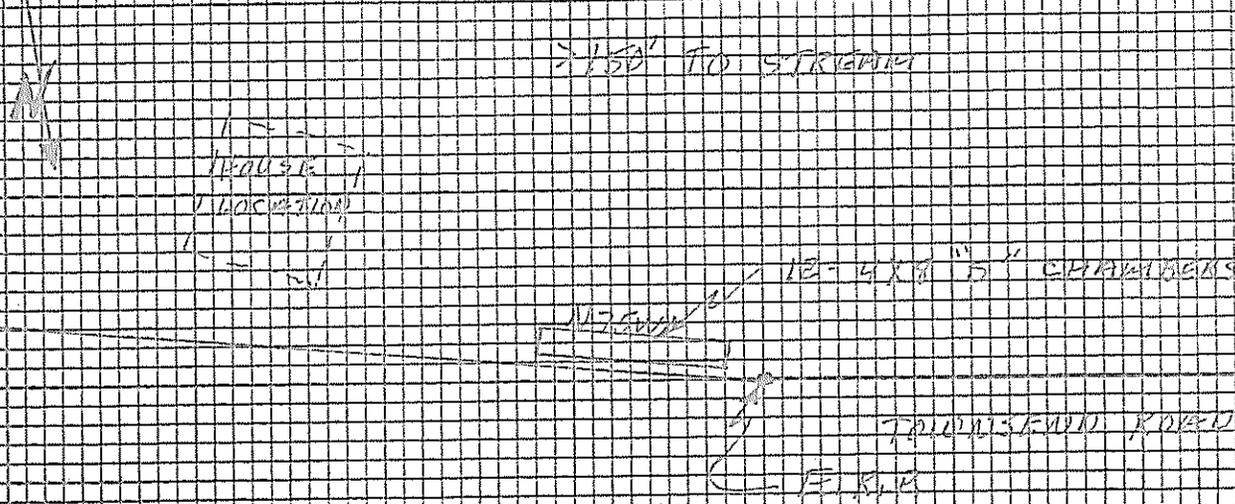
Depth of Upslope Fill required CUT 23" TO 6" inches.

Disposal Area Bottom to be established at -43" Elevation.  
Top of Distribution Lines or Top of Chambers -30" Elevation.

Scale 1" = 50' ft.

E.R.P. TOP OF SURVEY MARK

> 150' TO STREAM



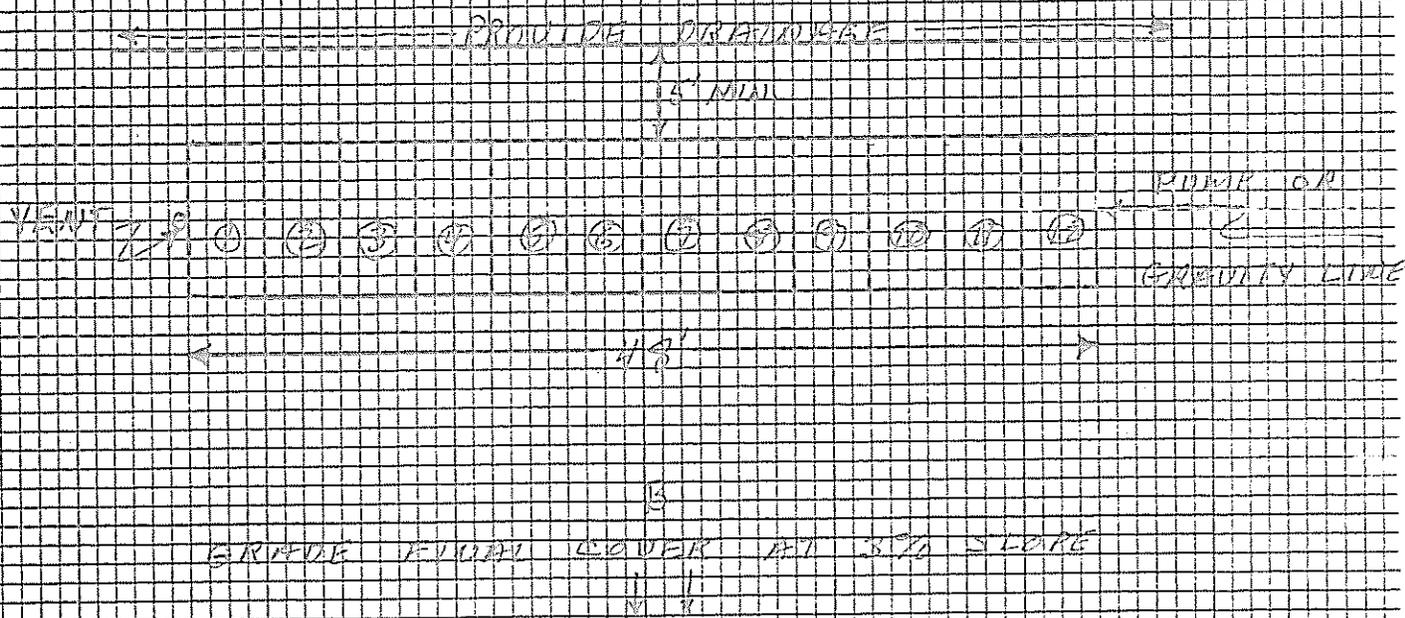
- Designates Elevation Reference Point (ERP)
- Designates Observation Hole (TP or B)

Subsurface Wastewater Disposal Plan

A

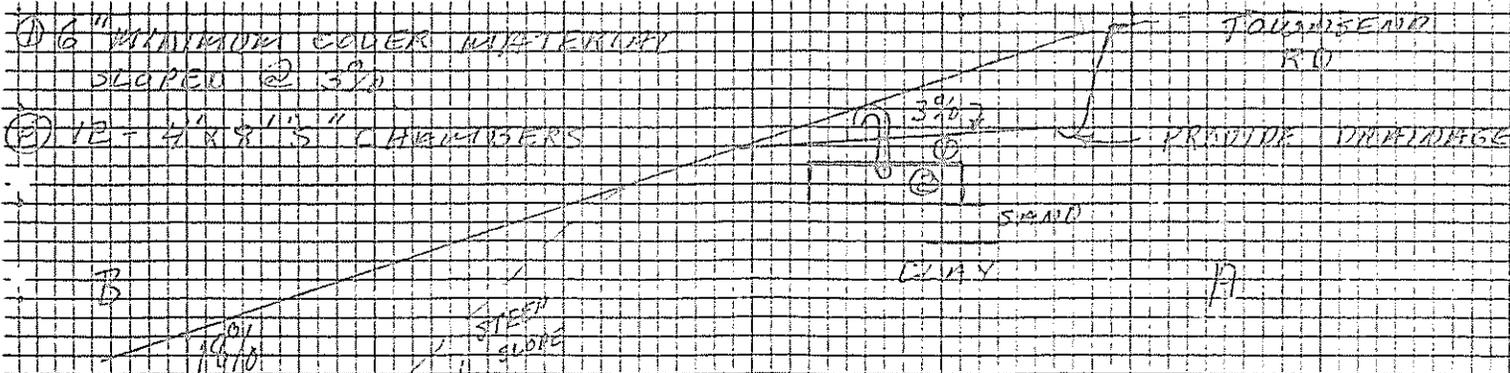
Scale 1" = 10' or 10'

① - ⑫ = 4" x 8" x 5" CHAMBERS



Subsurface Wastewater Disposal Area Cross-section

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



Site Evaluators Signature

*[Signature]*

Date

3/14/81

License Number

51



STATE OF MAINE  
DEPARTMENT OF HUMAN SERVICES  
AUGUSTA, MAINE 04333

MICHAEL R. PETIT  
COMMISSIONER

August 27, 1981

Mr. Richard P. Baker  
P.O. Box 2504  
Augusta, Maine 04330

Re: Hilliard Property, Townsend Road, Augusta

Dear Mr. Baker:

Mr. David Breau and Albert Frick, from this Department, visited the Hilliard property on August 24, 1981 to review the status of the project. Mr. Breau had previously visited the site in the Fall of 1980 to review a proposed variance request with William Rideout, Site Evaluator, and Gary Hilliard. The visit was at the request of Mr. Rideout, Hilliard's consultant.

The purpose of the first visit was for William Rideout to determine if this Department would consider a request for a New System Variance. Rideout and Breau found an area of soils on that lot that would comply with the Rules, so this office concluded that no variance would be considered because it was not necessary if the proposed system was located in that area.

Review of our records show that Mr. Rideout completed an Application for a Permit (HHE-200 Form) on March 14, 1981 and designed a system in accordance with the Rules in the area delineated by Breau and Rideout during their visit. A permit #42516E was issued by you on March 20, 1981 to construct the proposed system.

It is our understanding that you have not been requested to do a final inspection and you have not issued a Certificate of Approval. Based on our observations of August 24, 1981, the system is incorrectly located. This office requests that you issue a stop work order until the matter is resolved. Also the permit should be revoked since it appears that a new well has been located within 100 feet of the area that the proposed disposal chambers were to be located.

If you or Mr. Hilliard have any questions, please do not hesitate to contact this office.

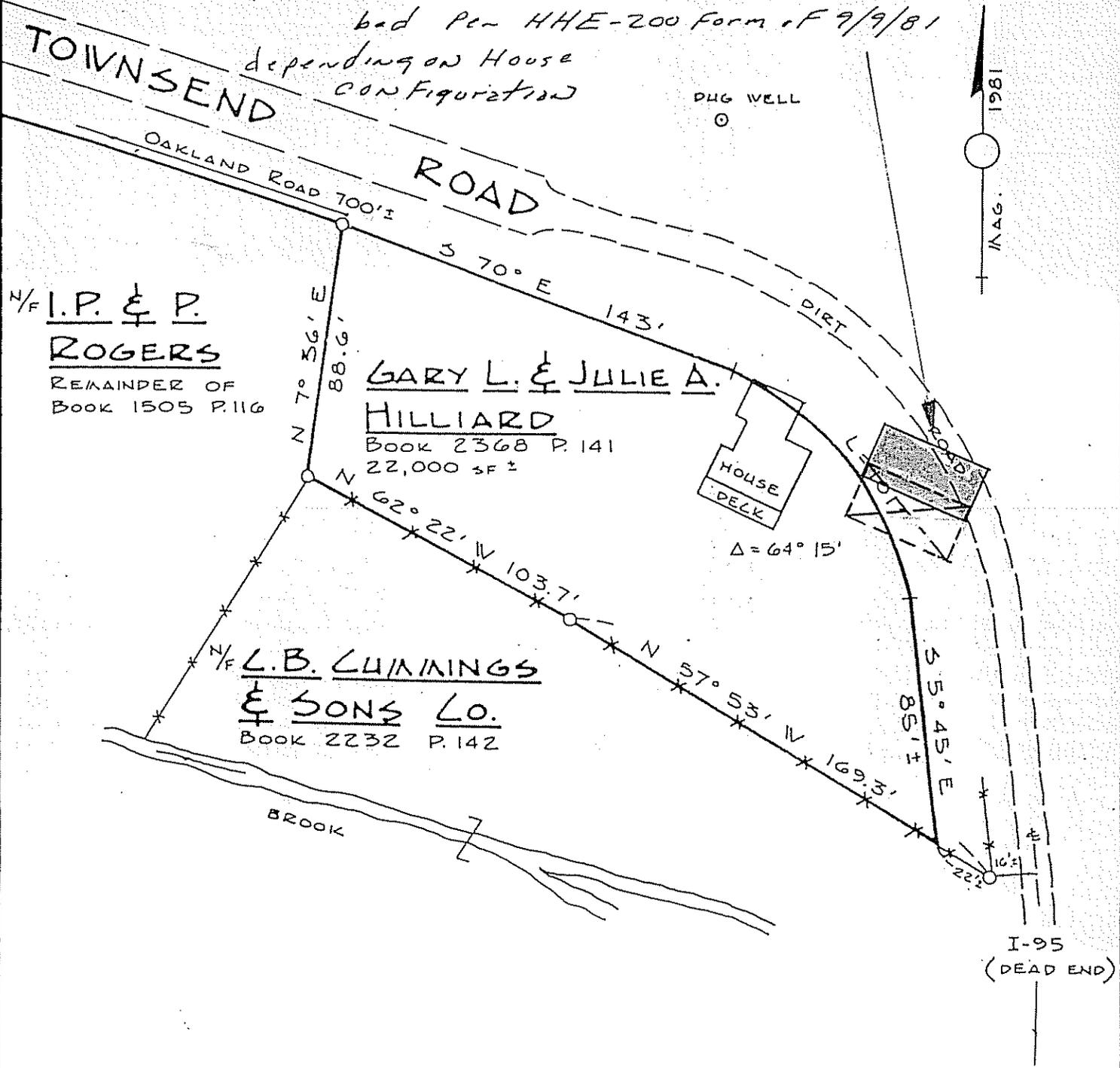
Sincerely,

Albert Frick, Soil Scientist  
Wastewater & Plumbing Control  
Division of Health Engineering

AF/mo  
cc: Gary Hilliard  
William Rideout

5  
 Approx. location of subsurface waste disposal  
 bed per HHE-200 Form of 9/9/81  
 depending on House  
 configuration

DUG WELL  
 ○

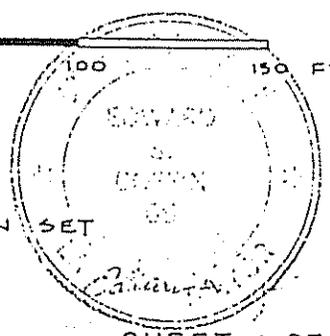


SCALE:



LEGEND

- IRON PIN SET
- \*—\*— FENCE



SHEET 1 OF 1

BOUNDARY SURVEY OF LAND OF  
**G. & J. HILLIARD**  
 IN THE CITY OF  
**AUGUSTA**  
**KENNEBEC COUNTY, MAINE**

---

COFFIN ENGINEERING AUGUSTA, MAINE  
 DRAWN BY: C. GAITHER DEC. 16, 1981

Hilliard, Gary  
DEPT. FILE COPY

CITY OF AUGUSTA, MAINE  
BUILDING PERMIT APPLICATION

No 4061

~~No 4062~~

Date 4/16 19 81 Estimated Cost \$32,000. Fee \$32.00

Owner Gary Hilliard Address 57 Middle St. Hallowell, ME

Contractor self Address

Permit to erect a house and garage

Property Location Townsend Road Subdivision Garage 14' x 20' Map 5A Lot 40

Size of Building 24' x 30' Height Lot Size

Foundation Type concrete Frame Type Water P Sewer P

Estimated Cost of Construction \$32,000

Agreed to all City Ordinances

Remarks Top elevation of foundation will be a minimum of 18" above the finish grade of the road.

On reverse of this form applicant shall sketch outline of lot and proposed building and show any other buildings now located on the lot. Sketch must show dimensions of lot and of proposed and existing buildings and shall show distance from proposed building to all property lines.

The owner of this property and the undersigned agree to conform to all applicable laws of the City of Augusta and further agrees that all damages made to sidewalks, curbs and roadways in connection with construction or demolition approved by this Building Permit shall be immediately repaired to the satisfaction of the City Engineer at the expense of the applicant.

Signature of Applicant or Agents [Signature]

Approval: Building Inspector [Signature] Date 4-16 19 81

Augusta Sanitary Dist. Date 19

Augusta Water District Date 19

City Engineer Date 19

DEPARTMENTAL APPROVAL FOR CERTIFICATE  
of OCCUPANCY and COMPLIANCE  
To be filled in by each division indicated hereon  
upon completion of its final inspection.

BUILDINGS Permit No. ....

Approved by ..... Date .....

Remarks .....

PLUMBING Permit No. ....

Approved by ..... Date .....

Remarks .....

.....

# CERTIFICATE OF APPROVAL

FOR WASTEWATER DISPOSAL FOR THE TOWN/CITY OF AUGUSTA

Town/City Code	LPI Number	Date Issued	42516	EC	
11020	00360	1320811	Certificate of App. Number		
Installer's Name		Date Issued		Installer Code	
DOSTIE AVI O		Month Day Year		7	
Last Name		F.I. M.I.		1. Owner	
Owner		Address		2. Builder	
Gary Hilliard		TOWNSEND RD, Maine		3. Installer	
Location where system was installed and inspected.		4. Developer		5. Realtor	
				6. Other	

THE SUBSURFACE WASTEWATER DISPOSAL SYSTEM OR COMPONENT(S) INSTALLED PURSUANT TO THE ABOVE CERTIFICATE OF APPROVAL NUMBER HAS BEEN PERSONALLY EXAMINED AND HAS BEEN PROPERLY INSTALLED IN COMPLIANCE WITH THE MUNICIPAL AND STATE SUBSURFACE WASTEWATER DISPOSAL RULES AND THE HHE-200 FORM PERFORMED BY

51 ON 3-11-81  
(Site Evaluator Number) Month, Day, Year

## TOWN'S COPY

Signature of LPI Richard P. Baker  
Date Inspected 3/11/81

## SUBSURFACE WASTEWATER DISPOSAL PERMIT FOR THE TOWN/CITY OF AUGUSTA

Town/City Code	LPI Number	Date Issued	Evaluators Number	42516	
11020	00360	1320811	0051	PERMIT NUMBER	
Address of System's Location		Name of Owner		Issue Code	
TOWNSEND RD		HILLIARD GARY		7	
St/Lot Number Street, Road Name/Subdivision		57 MIDDLE RD		HALLOWELL, ME	
Last Name		F.I. M.I.		Mailing Address	
				Zip Code	

Permit Issuance	1. No Variance Required 2. Replacement Variance 3. New System Variance 4. Local Site Evaluation Waiver Option	<input type="checkbox"/>
Type of System	1. New 2. Replacement 3. Expansion 4. Experimental 5. Engineered	<input checked="" type="checkbox"/>
Replacement or Malfunction	If system is being replaced or is a malfunction, enter year of original system installation	[ ][ ]
System to Serve	1. Single (Res) 2. Multi-Fam(Res.) 3. Mobile Home 4. Modular Home 5. Commercial 6. School 7. Other (Specify)	Code: 133100
Complete System	1. Bed 2. Chamber 3. Special System (includes one waterless toilet) 4. Other (Specify) 5. Trench	Code: 2 Fee: 40.00
Treatment Tank ONLY	1. Septic 2. Aerobic 3. Holding	[ ][ ] [ ][ ] [ ][ ]
Disposal Area ONLY	1. Bed 2. Chamber 3. Laundry Waste 4. Other (Specify) 5. Trench	[ ][ ] [ ][ ] [ ][ ] [ ][ ]
Waterless Toilets	1. Pit Privy 2. Vault Privy 3. Compost Toilet 4. Other (Specify) (\$10. each)	[ ][ ] [ ][ ] [ ][ ] [ ][ ]

## TOWN'S COPY

LPI to Insert Profile (#)  Soil Condition (L)  Total Fee 40.00

**IMPORTANT: Note the following conditions**  
 1. This Permit is non-transferable to another person or party.  
 2. If construction has not started within 6 months from the Date of Issue, this Permit becomes invalid.

If Double Fee Check (  ) Box.

Signature of LPI Richard P. Baker

This Application Is For:  New System  Replacement Of Entire System  Expanded System  Replacement Of Disposal Area Only  Conversion Permit

Variance:  None Required  Replacement System Variance With LPI Approval  Dept Review  New System Variance

PROPERTY LOCATION: AUGUSTA Town, Plantation TOWNSEND RD Street, Road

PROPERTY OWNER or APPLICANT: MARY HILLIARD

TYPE OF STRUCTURE, DESIGN FLOW:  Single Family Dwelling Number of Bedrooms 3 Design Flow 300 GPD  
 Design Flow based on  Minimum  Moderate  Conservative  
 Reduction in Design Flow due to Water Conservation

LOCATION PLAN OF PROPERTY: TOWNSEND ROAD, OAKLAND RD, END OF TAKRED RD

PROPERTY INFORMATION: Area of Property        Sq. Ft.  Acres  Zoned  Not Zoned  
 If zoned, type of zoning RESIDENTIAL  
 Property on Water Body, If so, Name of Water Body         
 Water Supply is:  Public Utility,  Drilled Well        depth  
 Dug Well        depth  Well Point  Spring  Surface Water

SOIL PROFILE DESCRIPTION Location of Observation Holes shown on page 2			
TEXTURAL DESCRIPTION OF SOIL STRATA ENCOUNTERED	Observation Hole No. <u>1</u> <input type="radio"/> Test Pit <input type="radio"/> Boring	Observation Hole No. <u>      </u> <input type="radio"/> Test Pit <input type="radio"/> Boring	Observation Hole No. <u>      </u> <input type="radio"/> Test Pit <input type="radio"/> Boring
	Organic Strata or (Existing Fill) Thickness <u>12"</u>	Organic Strata or (Existing Fill) Thickness <u>      </u>	Organic Strata or (Existing Fill) Thickness <u>      </u>
	1st Original Mineral Soil Strata <u>B.S.L.</u> Depth from <u>0</u> " to <u>3</u> " Thickness <u>      </u>	1st Original Mineral Soil Strata Depth from <u>0</u> " to <u>      </u> " Thickness <u>      </u>	1st Original Mineral Soil Strata Depth from <u>0</u> " to <u>      </u> " Thickness <u>      </u>
	2nd <u>V.B.S.L.</u> Depth from <u>3</u> " to <u>18</u> " Thickness <u>      </u>	2nd Depth from <u>      </u> " to <u>      </u> " Thickness <u>      </u>	2nd Depth from <u>      </u> " to <u>      </u> " Thickness <u>      </u>
	3rd <u>O.G.C/S</u> Depth from <u>18</u> " to <u>36</u> " Thickness <u>      </u>	3rd Depth from <u>      </u> " to <u>      </u> " Thickness <u>      </u>	3rd Depth from <u>      </u> " to <u>      </u> " Thickness <u>      </u>
4th Depth from <u>      </u> " to <u>      </u> " Thickness <u>      </u>	4th Depth from <u>      </u> " to <u>      </u> " Thickness <u>      </u>	4th Depth from <u>      </u> " to <u>      </u> " Thickness <u>      </u>	
Total Depth of Observation Hole <u>36</u>	Total Depth of Observation Hole <u>      </u>	Total Depth of Observation Hole <u>      </u>	
Maximum Seasonal High Ground Water Table Depth <u>16</u> <input type="radio"/> None evident	Maximum Seasonal High Ground Water Table Depth <u>      </u> <input type="radio"/> None Evident	Maximum Seasonal High Ground Water Table Depth <u>      </u> <input type="radio"/> None evident	
Depth to Restrictive Layer <u>24</u> <input type="radio"/> None evident	Depth to Restrictive Layer <u>      </u> <input type="radio"/> None evident	Depth to Restrictive Layer <u>      </u> <input type="radio"/> None evident	
Depth to Bedrock <input checked="" type="radio"/> None evident	Depth to Bedrock <u>      </u> <input type="radio"/> None evident	Depth to Bedrock <u>      </u> <input type="radio"/> None evident	

PROFILE	CONDITION	SLOPE	PROFILE	CONDITION	SLOPE	PROFILE	CONDITION	SLOPE
<u>7</u>	<u>C</u>	<u>15%</u>	<u>      </u>	<u>      </u>	<u>      </u> %	<u>      </u>	<u>      </u>	<u>      </u> %

DISPOSAL SYSTEM PROPOSED Location of system and Details on Proposed Plan on page 2

TYPE OF SYSTEM:  Combined System  Separated System

TREATMENT TANK:  Septic Tank  Aerobic Tank  
 Size 1000 Gals.

SUBSURFACE DISPOSAL AREA/TYPE:  Trench Disposal Area  
 Total linear feet of trench        ft.  
 Number of Trench lines        ft.  
 Length of each trench line        ft.  
 Depth of Stone        inches.  
 Bed Disposal Area  
 Total bed area        sq. ft.  
 Number of beds         
 Width        ft. Length        ft.  
 Chamber Disposal Area  
 Total chamber area 512 sq. ft.  
 Number of clusters 16 - 4x8' 5"  
 Width 16 ft. Length 32 ft.  
 H-20 required

SYSTEM SIZE RATING:  Small  Medium  Medium Large  Large  Extra Large

DISPOSAL AREA ELEVATION: Depth of Upslope Fill required 15 inches  
 Depth of Downslope Fill required 53E inches  
 Reference Elevation Point established at 0 Elevation  
 Disposal Area Bottom to be established at -91" Elevation  
 Top of Distribution Lines or Top of Chambers -78" Elevation

Yes  No: The proposed subsurface disposal area will be located at least 100 feet from any and all wells, springs, surface water bodies and courses (lake, pond, ocean, brook stream, river), swamps, marshes, and bogs.

Yes  No: The proposed subsurface disposal area will be located at least 300 feet from any and all wells and springs producing 2000 gallons or more of water per day and any public water supplies.

FOR USE BY SITE EVALUATOR: On 5/21/81 date, a site investigation for this project was completed. I conducted this soil evaluation and certify that the results indicated above best represent the soil conditions found. I recommend the above type and size of subsurface wastewater disposal system. I also recommend the proposed disposal system layout and location shown on page 2.

Signature of Site Evaluator: Richard P. Baber Site Evaluator License Number: 51  
 Date signed: 7/14/81

FOR USE BY OWNER/APPLICANT: I certify that all the information submitted to be true and correct to the best of my knowledge. I understand that any falsification of this application is reason to deny a permit to install a disposal system and that the permit is valid for a six (6) month period from the date of permit issuance. I also understand that no guarantee is intended or implied by reason of any advice or approval given.

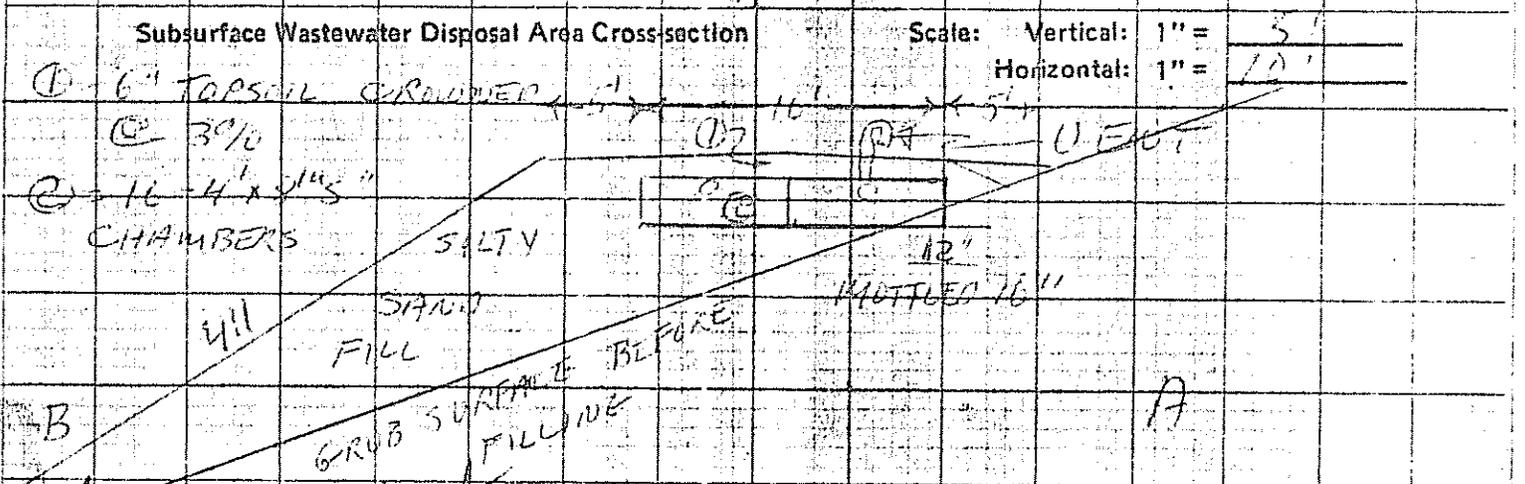
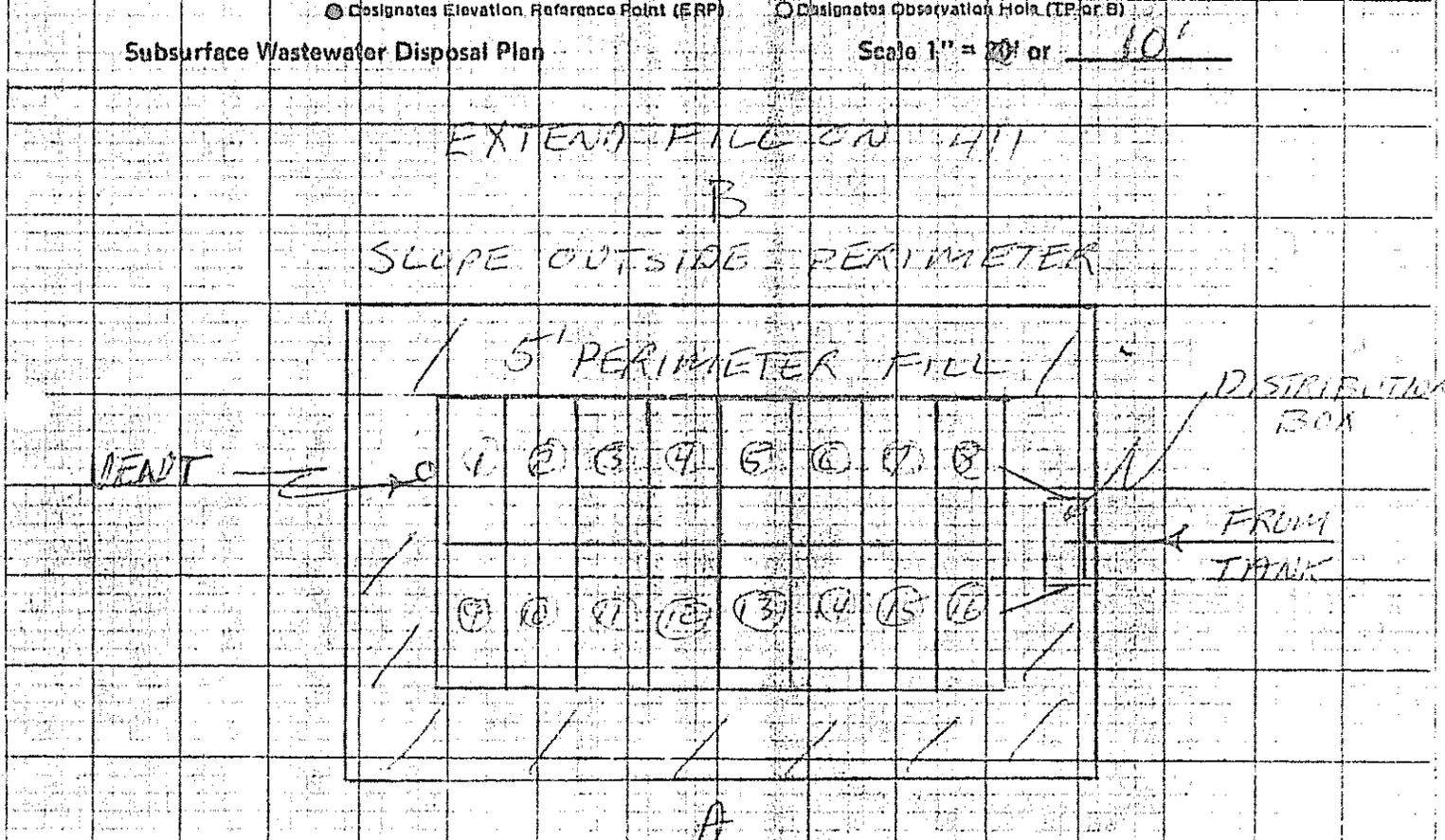
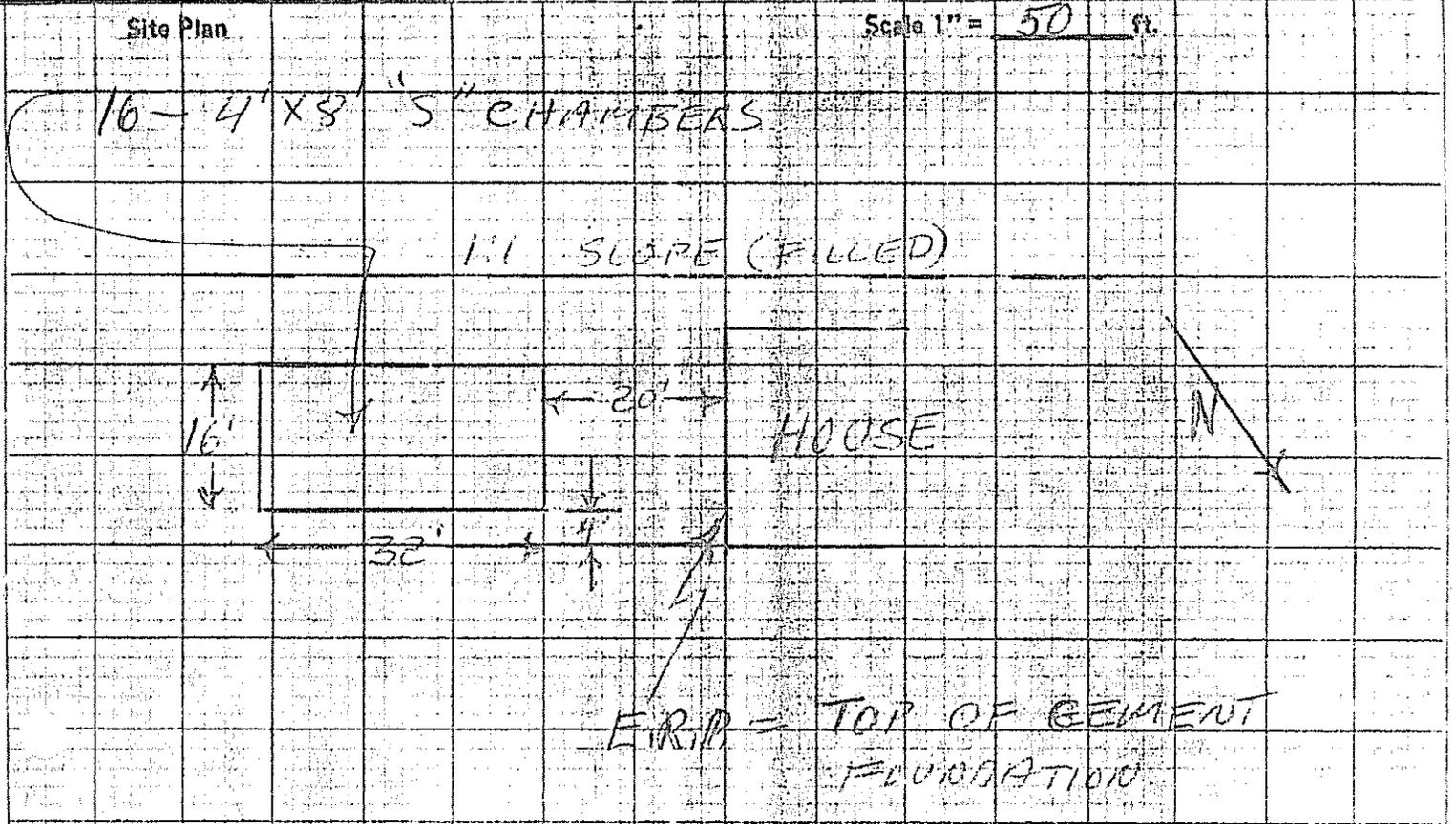
Signature of Owner/Applicant: Mary Hilliard  
 Date Signed: 42516 EP

FOR USE BY LPI:  This Application is approved. If conditions, specify         
 This Application is Denied due to:  System is not in accordance with Rules  Application is incomplete.  Application is unclear  Development is in violation of other Regulations. Specify       

Signature of LPI: Richard P. Baber PERMIT NO. 42516 EP  
 Date: 7-24-81 Date Issued: 3/20/81

APPLICATION FOR SUBSURFACE WASTEWATER DISPOSAL PERMIT

PROPERTY LOCATION	Town, Plantation	Street, Road	Subdivision Name	Lot No.
PROPERTY OWNER or APPLICANT	DISPOSAL AREA ELEVATION		Reference Elevation Point established at <u>0</u> Elevation.	
	Depth of Upslope Fill required <u>15</u> inches.		Disposal Area Bottom to be established at <u>-91"</u> Elevation.	
	Depth of Downslope Fill required <u>5.32</u> inches.		Top of Distribution Lines or Top of Chamber <u>-77"</u> Elevation.	



Site Engineer's Signature: W. R. [Signature]

Date: 7/11/87

License Number: 57

# Department of Human Services

STATE HOUSE, AUGUSTA, MAINE

Date September 4, 1981

To David Breau, Variance Review, Division of Health Engineering

From Albert Frick, Soil Scientist, Division of Health Engineering

*A.F.*

Subject Gary Hilliard Property, Townsend Road, Augusta

Jay Hardcastle and I met with Gary Hilliard, Richard Baker, LPI, and William Rideout, S.E. on September 4, 1981 to review the disposal site. The chambers had been removed from the site and only the septic tank remained.

Based on the existing conditions, the following were concluded on-site:

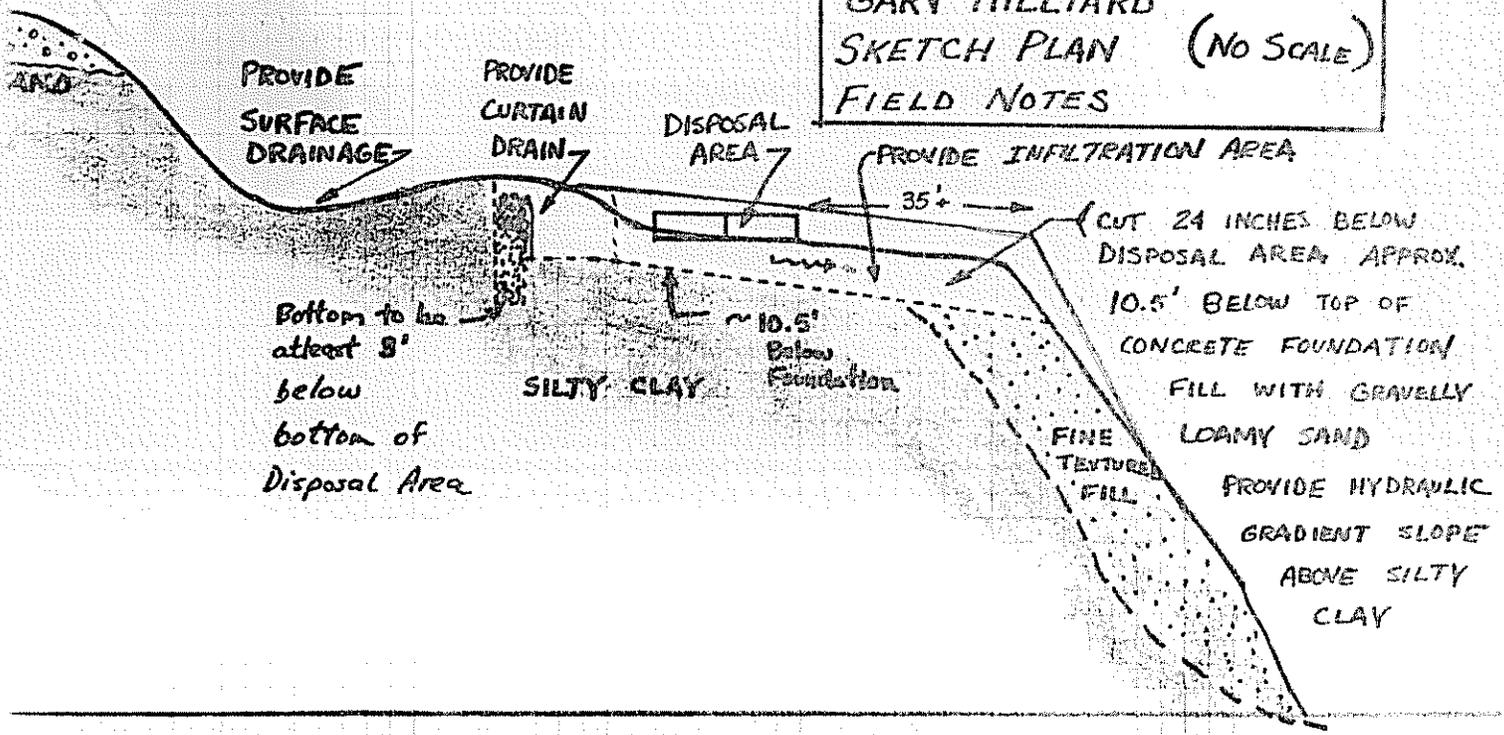
1. The area that the chambers had been installed in is the best location, all things considered.
2. The disposal system installation will require a New System Variance based on at least the present conditions.
3. Extensive site preparation will be necessary to rework the area.
4. William Rideout will be available to guide and inspect the site work.
5. Richard Baker will be on-site to observe the installation.
6. The infiltration area will be sized to accomodate the hydraulic conductivity of the original silty clay subsoil (Profile 9). William Rideout will calculate the disposal area size after he specifies the fill texture.

I will be gone next week September 7 through the 13th. Please check with Jay concerning any questions while I am gone.

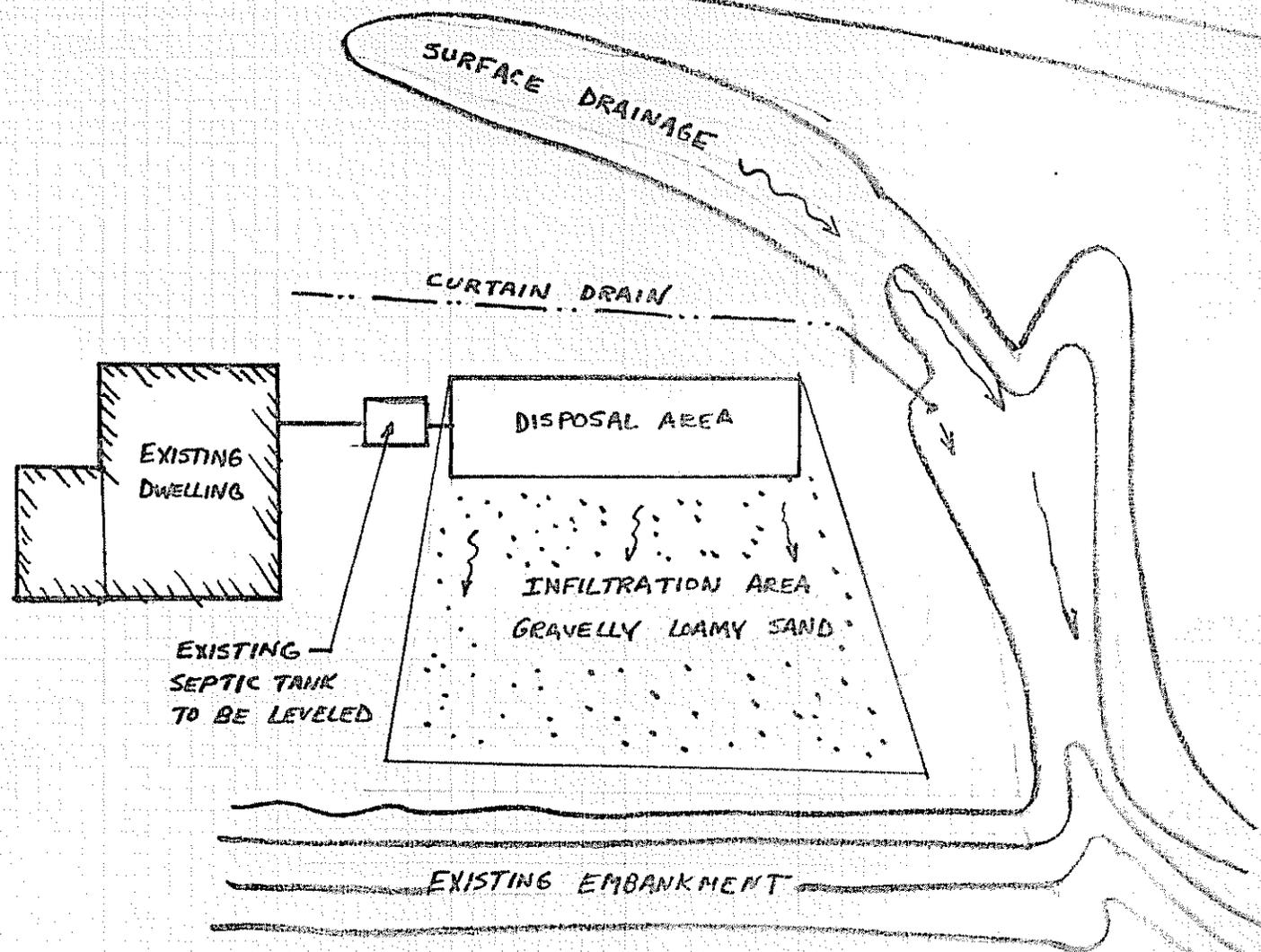
AF/mo

cc: Richard Baker  
William Rideout

GARY HILLIARD  
 SKETCH PLAN (NO SCALE)  
 FIELD NOTES



O WELL



October 1, 1981

Gary Hilliard  
57 Middle Street  
Hallowell, ME 04347

Subject: New System Variance to the Maine Subsurface Wastewater Disposal Rules, Hilliard property, Townsend Road, Augusta

Dear Sir:

This is to acknowledge receipt of the following items:

A completed HHE-200 Form by William Rideout, SE.; a completed HHE-215 Form signed by Gary Hilliard, property owner; William Rideout, SE., and Richard Baker, LPI. The above is accepted as a complete application for variance to the Subsurface Wastewater Disposal Rules. A new subsurface disposal system cannot be installed on the subject property in full compliance with the Rules, because of the installation of a 40'x20' bed system in a medium coarse sand fill over category 9D/E soils, the reasons for the variance request.

The proposed system has been designed based on a design flow of 300 gallons per day. In addition, the disposal area has been sized on the square footage for the medium coarse sand fill material in which it will be placed. The square footage of the sand fill material has been based on the original clay and will provide approximately 2100 square feet. In addition, a curtain drain will be provided upslope diverting any laterally moving waters to an existing diversion ditch to the southeast of the proposed bed.

In consideration of the HHE-200 Form dated September 9, 1981, along with the recommendations and justifications noted on the HHE-215 Form, this office hereby grants the responsible local plumbing inspector the authority to waive certain provisions of the Subsurface Wastewater Disposal Rules, for the following new disposal system under the authority of Section 16.A of the Rules.

The installation of a 1000 gallon septic tank followed by a 40'x20' bed system located in approximately 4 feet of clean medium coarse sand fill with the dimensions of approximately 50 feet in length by 70 feet in length by 60 feet in width.

The amount of fill required on the upper slope and downslope sides shall be as shown on the cross-section on the HHE-200 Form dated September 9, 1981.

This office points out that the rules require that the Site Evaluator, Mr. Rideout, be retained to stake out the system and elevations at the time of construction of the system.

Gary Hilliard  
October 1, 1981  
Page 2

In all other respects the installation is to comply with the Subsurface Wastewater Disposal Rules and follow the plan submitted with this proposal.

Please be advised that this approval is in no way to be construed as a guarantee of the system's performance. You are reminded that the correction of any future nuisance conditions is the responsibility of the property owner.

Final approval of the sewage portion is subject to permit by the Local Plumbing Inspector before the construction of this system. A completed HME-200 Form must be submitted to him for processing. The inspector is to be notified before covering the work, and the work is to be left uncovered until his inspection. He shall be supplied with copies of approved plans for his reference at inspection. Approval is also subject to any local ordinances and state laws.

Very truly yours,

  
David P. Breau  
Plans & Standards Review  
Division of Health Engineering

DPB/jh

cc: William Rideout, SE ✓  
Richard Baker, LPI ✓

# NEW SYSTEM VARIANCE REQUEST

This form shall accompany an Application for a proposed new system which requires a Variance to certain provisions of the Subsurface Wastewater Disposal Rules.

**GENERAL INFORMATION**

Town of AUGUSTA

Town Code 11020 Permit No.  E Date Permit Issued \_\_\_\_\_ month/day/yr.

Property Owner's Name: GARY HILLIARD Tel. No. 623-4158

System's Location: TOWNSEND RD  
street

AUGUSTA MAINE 04330  
zip

Property Owner's Address (if different from above): 57 MIDDLE ST  
street

HALLOWELL ME ME  
town state zip

**VARIANCE CONDITIONS**

1. The Department has the authority to vary the requirements of the Rules in accordance with 10-144A CMR 241.16 of the Rules if all the following criteria are satisfied:
  - a. The variance request has the approval of the LPI.
  - b. The variance request has received written endorsement from the elected municipal officers.
  - c. The variance request demonstrates that there is no practical alternative for wastewater disposal, such as access to public sewer or the potential for an easement.
  - d. The proposed system does not conflict with Seasonal Conversion (Section 5.B.2a) or Shoreland Zoning.
  - e. The site offers potential for a system which will dispose of the wastewater with minimal threat to public health, safety, or welfare.
  - f. The property owner has indicated an awareness of the variance and any limitations or added costs the proposed system may require.
2. The Local Plumbing Inspector shall not issue a Permit for the installation of a subsurface wastewater disposal system until written approval has been received from the Department.
3. A check or money order to cover the review fee shall accompany this request form.

**SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator)**

*Section of Code*

1. INSTALL 20X40 BED AS SHOWN ON HHE-200
2. DATED 9/9/81
3. \_\_\_\_\_

*If Variance requested is for Sec. 6.B.3 Suitable Soil Conditions, fill in table below.*

SOIL, SITE, AND OTHER FACTORS FOR ASSESSING NEW SYSTEM VARIANCE POTENTIAL (SEE TABLE 16-1)	FILL BOX BELOW WITH APPROPRIATE INFORMATION REQUIRED	RELATIVE POTENTIAL (pts)			
		HIGH	MODERATE	LOW	NOT RECOMMENDED
SOIL PROFILE (FROM TABLE 6-1)					
DEPTH TO SEASONAL GROUND WATER TABLE					
SLOPE AT SITE OF DISPOSAL AREA					
SIZE OF PROPERTY					
WASTEWATER TO BE TREATED - GAL./DAY					
SYSTEM DESIGN CRITERIA					
WATER SUPPLY					
ZONING AND LAND USE					

**LOCAL PLUMBING INSPECTOR:**

The Local Plumbing Inspector shall review all New System Variance requests prior to submission to the Division of Health Engineering. The LPI shall indicate the municipality's position in regards to the variance request. The LPI shall also inform the Division of Health Engineering of any facts relative to the variance request not specifically noted by the property owner or the site evaluator.

The proposed system ( does  does not) conflict with any Municipal or Shoreland Zoning ordinances, and has been shown to the Code Enforcement Officer.

**CONCLUSIONS:**

I, Richard P. Baber, the undersigned, have visited the above property and find that it is not possible to conform to certain provisions of the Rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property.

Therefore, I recommend the issuance of a permit for the system's installation as proposed on the HHE-200 Form.

Richard P. Baber 9-9-81  
Signature of L.P.I. Date

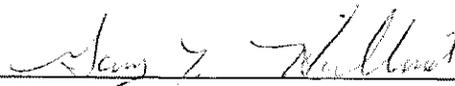
**STATEMENTS, JUSTIFICATIONS and RESPONSIBILITIES**

**PROPERTY OWNER:** The property owner shall provide accurate information to the Site Evaluator, the LPI, and the Department and elaborate below the reasons for requesting the variance(s). In addition, all the variance conditions listed on the front page must be documented.

*I am asking for this variance because I do not want to put a pump in ice about 50 yds of fill. Also this is a better situation as far as my well is concerned.*

*(Attach additional sheets, if needed)*

I, \_\_\_\_\_, am the  owner  prospective owner of the subject property. I understand that the installation illustrated on the HHE-200 Form is not in total compliance with the Rules. I have indicated my reasons for requesting the variance(s). 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 Department of Human Services and make any corrections the Department finds necessary. By signing this 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.

 \_\_\_\_\_ 9/8/81  
 Signature of Owner Date  
 Signature of Prospective Purchaser

**HAS REVIEW FEE BEEN ENCLOSED**

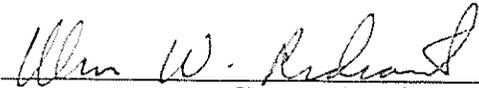
**SITE EVALUATOR:**

When an undeveloped property is found to be unsuitable for subsurface wastewater disposal by a Licensed Site Evaluator, the evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a Variance to the requirements of the Rules, and the evaluator in his professional opinion feels the variance request is justified and that the site limitations can be overcome, he shall document the soil and site conditions on an HHE-200 FORM. The evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department.

*A 20'x40' bed is to be placed on clean sand fill (24" deep). The sand fill will cover an area of approximately 2160 sq which is just under the bed size required on group 9 soils using a conservative design volume.*

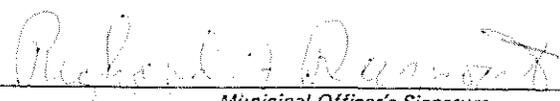
*(Attach additional sheets, if needed)*

I, Allen W. Redmont, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements. In my judgment, I certify that the proposed system design on the HHE-200 form is the best alternative available, enhances the potential of the site for subsurface wastewater disposal, and that the system should function properly as per the justifications outlined on the application.

 \_\_\_\_\_ 9/9/81  
 Signature of Site Evaluator Date

**MUNICIPAL OFFICER(S):**

We the undersigned Officer(s) are aware that the applicant is applying to the Division of Health Engineering for a variance to the Subsurface Wastewater Disposal Rules as indicated in the application and that the proposed system does not meet the requirements of the Rules. The proposed variance request  does  does not comply with all Town Zoning requirements and the Municipality  does  does not endorse the variance request. If endorsed, the Town accepts the responsibility for any required enforcement of the Rules should the system malfunction.

 \_\_\_\_\_ Sept 9-81  
 Municipal Officer's Signature Date  
 \_\_\_\_\_ Sept 9-81  
 Municipal Officer's Signature Date  
 \_\_\_\_\_ Sept 9 '81  
 Municipal Officer's Signature Date

This Is NOT A Permit; This Form When Completed Must Be Presented To The Local Plumbing Inspector To Obtain A Permit

This Application is For:  New System  Replacement Of Entire System  Expanded System  Replacement Of Disposal Area Only  Conversion Permit

Variance:  None Required  New System Variance  Replacement System Variance With:  LPI Approval  Dept. Review

PROPERTY LOCATION: AUGUSTA Town, Plantation TOWNSEND RD Street, Road

PROPERTY OWNER or APPLICANT: GARY HILLIARD

Mailing Address: 57 MIDDLE ST HALLOWELL, ME

TYPE OF STRUCTURE, DESIGN FLOW:  Single Family Dwelling Number of Bedrooms 3 Design Flow 300 GPD

Design Flow based on:  Minimum  Moderate  Conservative

Reduction in Design Flow due to Water Conservation

If so, specify type (s): LOW WATER TOILETS

LOCATION PLAN OF PROPERTY:

PROPERTIES INFORMATION: Area of Property 30,000 + Sq. Ft.  Acres  Zoned  Not Zoned

If zoned, type of zoning: RES.

Property on Water Body, If so, Name of Water Body: BOND BR. & TRIP.

Water Supply is:  Public Utility,  Drilled Well \_\_\_\_\_ depth,  Dug Well \_\_\_\_\_ depth,  Well Point,  Spring,  Surface Water

SOIL PROFILE DESCRIPTION Location of Observation Holes shown on page 2

TEXTURAL DESCRIPTION OF EACH SOIL STRATA ENCOUNTERED	Observation Hole No. _____ <input type="checkbox"/> Test Pit <input type="checkbox"/> Boring	Observation Hole No. _____ <input type="checkbox"/> Test Pit <input type="checkbox"/> Boring	Observation Hole No. _____ <input type="checkbox"/> Test Pit <input type="checkbox"/> Boring
	1st Original Mineral Soil Strata Depth from 0" to _____" Thickness _____" <u>VARIOUS FILL</u>	1st Original Mineral Soil Strata Depth from 0" to _____" Thickness _____"	1st Original Mineral Soil Strata Depth from 0" to _____" Thickness _____"
2nd Depth from _____" to _____" Thickness _____" <u>MATERIAL OVER</u>	2nd Depth from _____" to _____" Thickness _____"	2nd Depth from _____" to _____" Thickness _____"	2nd Depth from _____" to _____" Thickness _____"
3rd Depth from _____" to _____" Thickness _____" <u>GROUP 9 SOIL</u>	3rd Depth from _____" to _____" Thickness _____"	3rd Depth from _____" to _____" Thickness _____"	3rd Depth from _____" to _____" Thickness _____"
4th Depth from _____" to _____" Thickness _____"	4th Depth from _____" to _____" Thickness _____"	4th Depth from _____" to _____" Thickness _____"	4th Depth from _____" to _____" Thickness _____"
Total Depth of Observation Hole _____"	Total Depth of Observation Hole _____"	Total Depth of Observation Hole _____"	Total Depth of Observation Hole _____"
Maximum Seasonal High Ground <input type="checkbox"/> None evident Water Table Depth _____"	Maximum Seasonal High Ground <input type="checkbox"/> None Evident Water Table Depth _____"	Maximum Seasonal High Ground <input type="checkbox"/> None evident Water Table Depth _____"	Maximum Seasonal High Ground <input type="checkbox"/> None evident Water Table Depth _____"
Depth to Restrictive Layer <input type="checkbox"/> None evident	Depth to Restrictive Layer <input type="checkbox"/> None evident	Depth to Restrictive Layer <input type="checkbox"/> None evident	Depth to Restrictive Layer <input type="checkbox"/> None evident
Depth to Bedrock <input type="checkbox"/> None evident	Depth to Bedrock <input type="checkbox"/> None evident	Depth to Bedrock <input type="checkbox"/> None evident	Depth to Bedrock <input type="checkbox"/> None evident

PROFILE CONDITION SLOPE %

DISPOSAL SYSTEM PROPOSED Location of system and Details on Proposed Plan on page 2

TYPE OF SYSTEM <input checked="" type="checkbox"/> Combined System <input type="checkbox"/> Separated System	TREATMENT TANK <input checked="" type="checkbox"/> Septic Tank <input type="checkbox"/> Aerobic Tank Size <u>1000</u> Gals. DOSAGE <input checked="" type="checkbox"/> Pumping is not required <input type="checkbox"/> Pumping is required The dose should be: _____ Gals. Dosage chamber capacity shall be _____ gals. <input type="checkbox"/> System should be vented	SUBSURFACE DISPOSAL AREA/TYPE <input type="checkbox"/> Trench Disposal Area Total linear feet of trench _____ ft. Number of Trench lines _____ ft. Length of each trench line _____ ft. Depth of Stone _____ inches. Reduction on trench length due to stone depth _____ % <input checked="" type="checkbox"/> Bed Disposal Area Total bed area <u>800</u> sq. ft. Number of beds <u>1</u> Width <u>20</u> ft. Length <u>40</u> ft. <input type="checkbox"/> Chamber Disposal Area Total chamber area _____ sq. ft. Number of clusters _____ Width _____ ft. Length _____ ft. <input type="checkbox"/> H-20 required	SYSTEM SIZE RATING <input type="checkbox"/> Small <input type="checkbox"/> Medium <input type="checkbox"/> Medium Large <input type="checkbox"/> Large <input type="checkbox"/> Extra Large
DISPOSAL AREA ELEVATION Depth of Upslope Fill required <u>SEE</u> inches. Depth of Downslope Fill required <u>X-SECTION</u> inches. Reference Elevation Point established at <u>0</u> Elevation. Disposal Area Bottom to be established at <u>-9'</u> Elevation. Top of Distribution Lines or Top of Chambers <u>-8'</u> Elevation			<input type="checkbox"/> Yes <input type="checkbox"/> No: The proposed subsurface disposal area will be located at least 100 feet from any and all wells, springs, surface water bodies and courses (lake, pond, ocean, brook stream, river), swamps, marshes, and bogs. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No: The proposed subsurface disposal area will be located at least 300 feet from any and all wells and springs producing 2000 gallons or more of water per day and any public water supplies.

FOR USE BY SITE EVALUATOR VALID COPY ONLY WITH EMBOSSED SEAL

On 9/14/81 (date), a site investigation for this project was completed. I conducted this soil evaluation and certify that the results indicated above best represent the soil conditions found. I recommend the above type and size of subsurface wastewater disposal system. I also recommend the proposed disposal system layout and location shown on page 2.

Signature of Site Evaluator: Richard P. Baber Site Evaluator License Number: 51

Date signed: 9/19/81

FOR USE BY OWNER/APPLICANT

I certify that all the information submitted to be true and correct to the best of my knowledge. I understand that any falsification of this application is reason to deny a permit to install a disposal system and that the permit is valid for a six (6) month period from the date of permit issuance. I also understand that no guarantee is intended or implied by reason of any advice or approval given.

Signature of Owner/Applicant: Gary Hilliard

Date Signed: 9/15/81

FOR USE BY LPI:  This Application is approved. If conditions, specify \_\_\_\_\_  
 This Application is Denied due to:  System is not in accordance with Rules.  
 Application is incomplete.  Application is unclear.  Development is in violation of other Regulations. Specify \_\_\_\_\_

Signature of LPI: Richard P. Baber PERMIT NO. \_\_\_\_\_

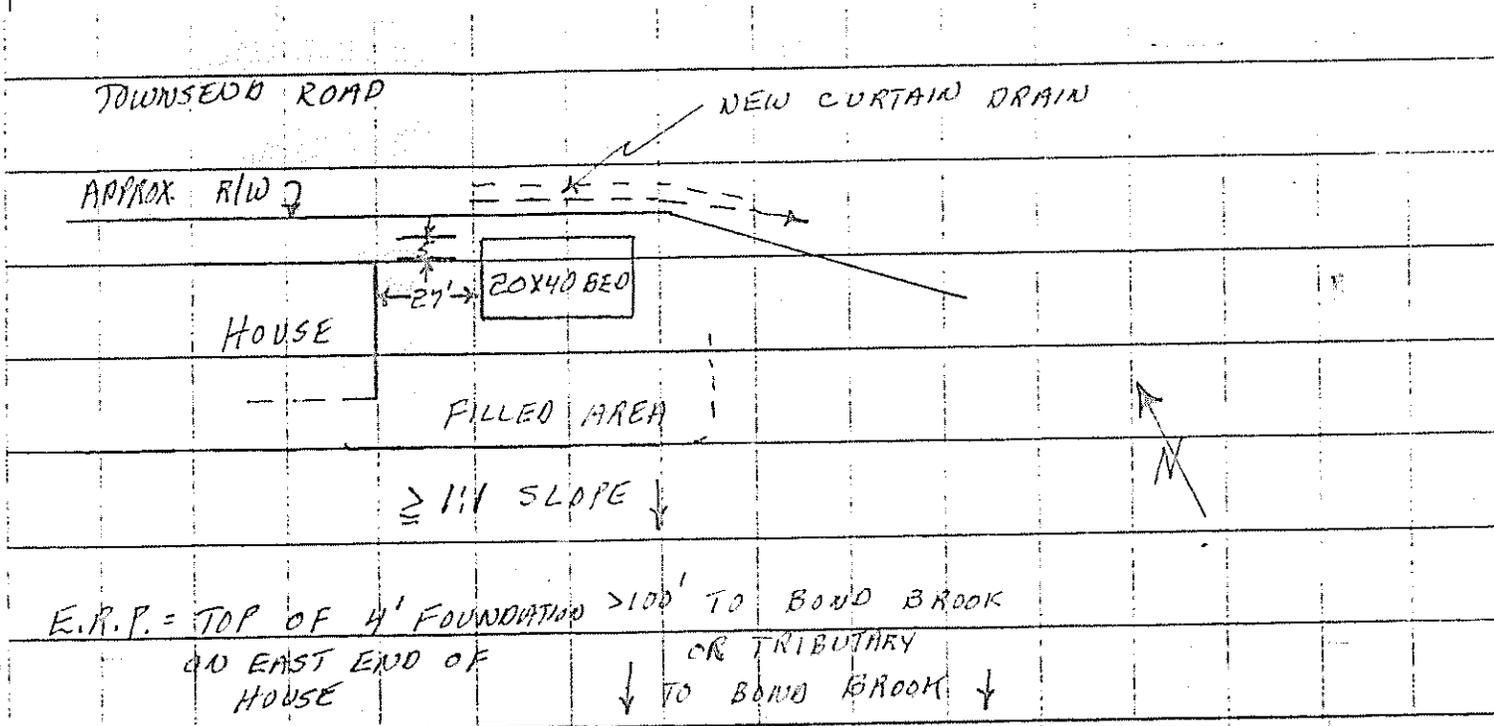
Date: 9-9-81 Date Issued: \_\_\_\_\_

APPLICATION FOR SUBSURFACE WASTEWATER DISPOSAL PERMIT

PROPERTY LOCATION	Town, Plantation	Street, Road	Subdivision Name	Lot No.
PROPERTY OWNER or APPLICANT	DISPOSAL AREA ELEVATION		Reference Elevation Point established at <u>0</u> Elevation.	
	Depth of Upslope Fill required <u>SEE</u> inches.		Disposal Area Bottom to be established at <u>-9</u> Elevation.	
	Depth of Downslope Fill required <u>X-SECT</u> inches.		Top of Distribution Lines or Top of Chambers <u>-8</u> Elevation.	

Site Plan

Scale 1" = 50 ft.

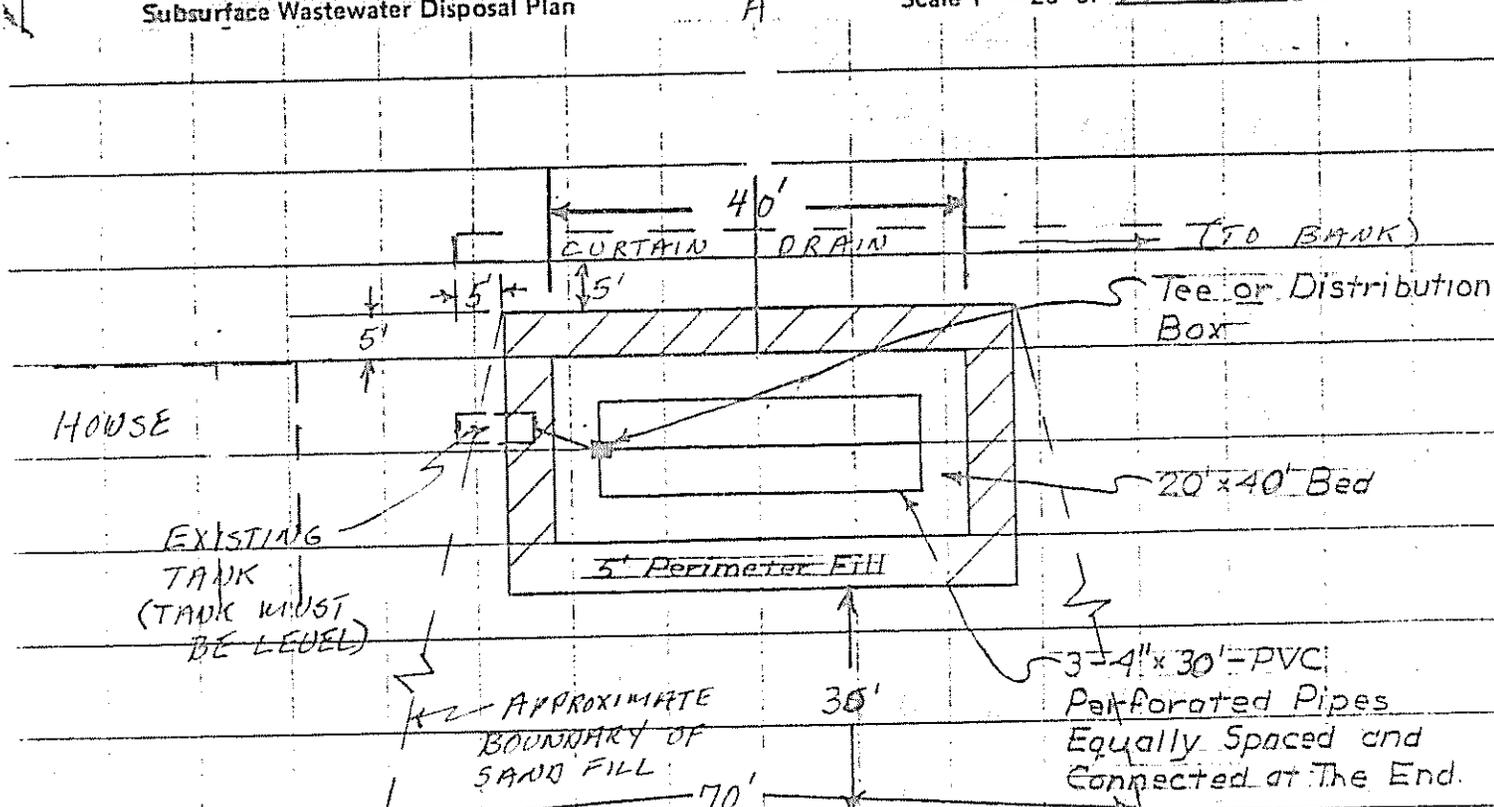


Subsurface Wastewater Disposal Plan

"A"

Scale 1" = 20' or AS SHOWN

- ⊙ Designates Elevation Reference Point (ERP)
- Designates Observation Hole (TP or B)

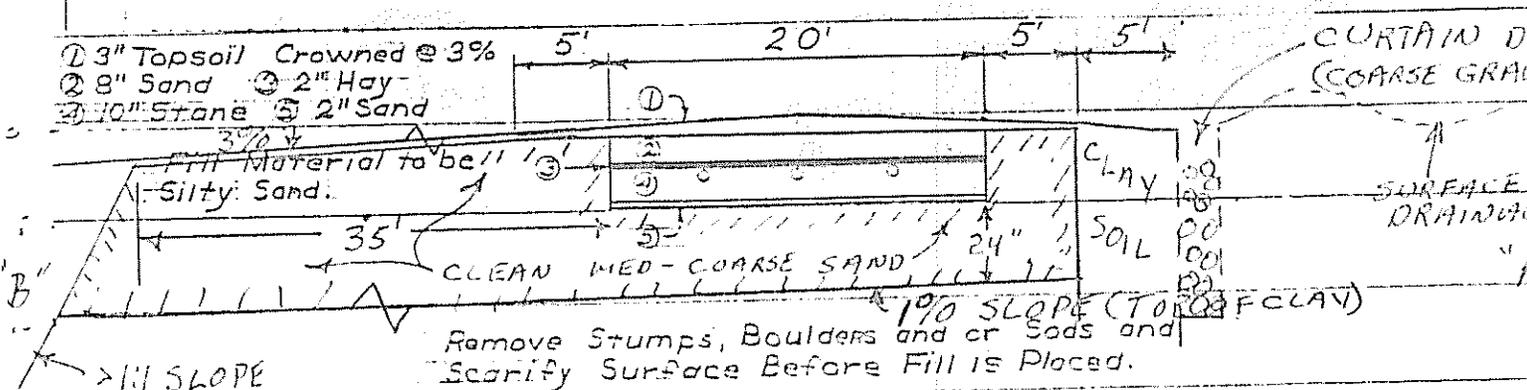


Subsurface Wastewater Disposal Area Cross-section

> 1:1 SLOPE

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

- ① 3" Topsoil Crowned @ 3%
- ② 8" Sand
- ③ 10" Stone
- ④ 2" Hay
- ⑤ 2" Sand



Evaluator's Signature

Date 9/9/91

License Number

51