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## VDH-D2PI SWAP

### Low Income Qualified Residential Septic Repair/Replacement, Well Replacement, Abandonments, Sewer Connections, and Public Water Connections

#### Contractors:

The Middle Peninsula Planning District Commission Septic and Well Assistance Program is soliciting bids for the attached project. Projects are supported by a grant program funded by the Virginia Department Health (VDH) and administered by the Middle Peninsula Planning District Commission (MPPDC) Septic and Well Assistance Program.

Grant funds will be utilized to fund 100% of the approved amount. The attached project has already been qualified for grant funding and the next phase is to solicit bids from contractors.

Attached you will find an itemized bid sheet breaking out certain costs and acknowledgments that need to be captured, a scope of work, and existing permits. Awarded projects are to be completed in a timely manner. **All work must be completed before the expiration of permits.** Work is done for the MPPDC SWAP Program, who disperses payment. You will receive a Notice to Proceed if you are awarded the project.

The grant has a hard deadline, to be reimbursed by this program all work, associated paperwork, invoices, and receipts must be dated prior to and received by the MPPDC SWAP Program Manager **no later than June 30<sup>th</sup>, 2025.**

For additional information or assistance, please contact Taylor Ovide, Coastal Resilience Planner at (804) 758-2311 or [tovide@mppdc.com](mailto:tovide@mppdc.com).

## Alternative Onsite Sewage System Installation Project (2022-ER-02S)

**Address: 8598 Little England Road, Hayes, VA 23072**

**Cost for Line Item #1 (include total cost for items A-L) These are known factors. Vendors must invoice for actual cost incurred as described in the attached scope of work and permits.**

Total	
	Line 1 Total Bid Cost
<b>Line Item # 1;</b> The contractor shall furnish all labor, supervision, equipment, tools, parts, supplies and materials, as necessary, to perform the services as described in the scope of work:	\$
Itemized Included in Line 1:	
	Itemized Bid Cost
<b>A&amp;B)</b> Costs to construct and install an alternative onsite sewage system to specification in compliance with the attached Local Health Department Permit:	\$
<b>C)</b> Costs of Septic Pump-out, 1 initial pumpout if deemed necessary to prevent sewage backup:	\$
<b>E1)</b> Costs of Tree Removal per permit:	\$
<b>E2)</b> Costs of Site Clearing per permit:	\$
<b>G)</b> Costs to provide or subcontract O&M for 2 Years, unless it is included in the purchase price of the unit:	\$
<b>H)</b> Costs of abandoning any unused component of the former onsite sewage system may include removing pipes, abandoning tank including pumping out of tank, demolishing of tank, abandoning distribution boxes, as specified by permit:	\$
<b>I)</b> Costs of stabilizing, seeding and grading the site after construction to return to the original state in compliance with code:	\$
Additional Itemized Costs <u>NOT</u> Included In Line 1:	
<b>C-2)</b> Additional pumpout costs per pumpout if needed, for example to dry drainfield, overflows before completion etc. (not included in line 1 total):	\$
Additional costs not included in line item 1:	\$

Signature: \_\_\_\_\_ Date \_\_\_\_\_

Bid is good for \_\_\_\_\_ days

**The following are required. Please initial in agreement to perform the following and that any costs to perform these tasks are included in Line Item 1:**

	Initial on the lines below;
<b>D)</b> Check for and comply with any Special Requirements in the permit. For example have surveyor locate property line, install french drain, have service provider drop electrical wire.	_____
<b>E)</b> Provide, or subcontract with a licensed plumber and electrician to complete project per permits, scope of work, and code:	_____
<b>I)</b> Bidders shall comply with all requirements of DPOR for contracting and executing the contract with the MPPDC. Documentation of appropriate Licenseses provided to the MPPDC.	_____
<b>J)</b> Obtain a final installation inspection from the Local Health Department and assure that the onsite sewage system complies with the Regulations.	_____
<b>K)</b> Provide all required documentation to the Local County Health Department following completion of construction and obtain an Operation Permit for the onsite sewage system:	_____
<b>L)</b> Submit invoice to <a href="mailto:tovide@mppdc.com">tovide@mppdc.com</a> once Local Health Department has issued the Operations Permit. Include a copy of the completion statement and operations permit:	_____

**Alternative Onsite Sewage System Installation Project (2022-ER-02S)**

**Address: 8598 Little England Road, Hayes, VA 23072**

**Scope of work:**

The contractor shall furnish all labor, supervision, equipment, tools, parts, supplies and materials, as necessary, to perform the services as described herein:

**Cost for Line Item #1 (include total cost for items A-K) These are known factors. Vendors must invoice for actual cost incurred as described herein**

A) Construct an Alternative onsite sewage system that meets the location and construction specifications of the Virginia Sewage Handling and Disposal Regulations (12VAC5-610-10 et seq., the Regulations).

B) Construct the above Alternative onsite sewage disposal system in compliance with the Gloucester County Health Department Construction Permit 136-23-0033 at 8598 Little England Road, Hayes, VA 23072 in the location shown on the permit. The permit may contain additional conditions, notes, and information needed to construct the onsite sewage system.

C) Septic Pump-out Requirements: All bids shall include the cost to pumpout the contents of the existing septic tank by a properly licensed sewage hauler. To prevent sewage from backing into the home or erupting on property surface prior to the completion of the septic work, additional pumpouts of the contents of the existing septic tank by a properly licensed sewage hauler may be required on an as-needed basis. Bids should provide a cost-breakdown per additional pumpout. If multiple pumpouts are needed preauthorization will need to occur to allow for a change order for additional, justifiable pumpouts. If the permit requires work within or under the existing drainfield (as indicated in the Permit) additional monitoring and pumping of the existing septic tank may be required in order to allow for the drying out of the drainfield. In these cases, for one week prior to the installation or repair of the onsite sewage system the effluent level of the septic tank must be monitored so that it does not discharge into the pump chamber or dispersal field. The contents of the existing septic tank shall be pumped by a properly licensed sewage hauler to prevent sewage from entering the drainfield for one week prior to installation

E) Tree Removal and Site Clearing: A pre-bid site visit is recommended to determine what if any tree removal or site clearing that may need to occur. Per the above referenced Permit, remove any trees and wood debris as described in the permit and haul away wood and debris unless notified otherwise. Costs of tree removal and site clearing should be included in initial bids. Any additional site clearing or tree removal required during installation must be

submitted in writing to and approved by VDH in writing including an additional cost estimate. Some AOSS designs may call for special procedures when doing tree removal or site clearing as will be referenced in the above referenced permit. Please pay attention to the following permit requirements.

F) Provide, or subcontract with a licensed plumber and electrician to provide plumbing and electrical required to convey the wastewater from the house to the onsite sewage system as required by the Regulations and the Virginia Uniform Statewide Building Code. This includes obtaining or assuring that the owner obtains all permits and inspections necessary by the local building authority in compliance with the Virginia Uniform Statewide Building Code.

G) Operation and Maintenance (O&M) Requirements: As the SWAP will fund two years of regulatory O&M for the Alternative Onsite Sewage System (AOSS) installed on this property, please provide or subcontract for two years of O&M unless the cost is included in the purchase price of the treatment unit. The O&M requirements can be found in the Regulations for Alternative Onsite Sewage Systems 12 VAC 5-613 and 12VAC5-640. The O&M agreement shall include the maintenance visits and any samples as required by the AOSS regulations. This funding is provided to assist the homeowner at meeting their first two years of O&M requirements per the Owner's Operation and Maintenance Manual and the Regulations for Alternative Onsite Sewage Systems (12VAC5-613-100 et seq.). The first two years of O&M listed in the agreement should be at no cost to the homeowner. Contractor should provide a copy of the O&M agreement to the homeowner and provide a copy to [Middle Peninsula Planning District Commission SWAP Staff].

H) Abandon any unused component of the former onsite sewage system as specified by the Gloucester County Health Department Construction Permit 136-23-0033. Upon completion of the onsite sewage system repair, the existing septic tank shall be pumped by a properly licensed sewage hauler, the tank crushed in place, lime placed over the crushed tank, and the tank hole filled with clean backfill material and restoring the area to its original condition. Abandonment may also include removing unused sewer line and conveyance lines and crushing and filling the distribution box.

I) Follow all regulations and permitting pertaining to erosion and sediment control including stabilizing, seeding, and grading the site after construction to return to the original state. Control construction runoff with proper practices so as not to become a nuisance to the owner or to neighboring properties or cause sediment to be discharged into state waters and drainage ditches. Any construction debris must also be removed from the site and disposed of properly.

J) Bidders shall comply with all requirements of the Department of Professional and Occupational Regulations (DPOR) for contracting and executing the contract with the Virginia

Department of Health. Must provide a copy of Class A or B contractor's licenses from DPOR, with an Alternative Sewage Disposal System Contracting (ADS) specialty from DPOR, a Master Alternative Onsite Sewage System Installer license from DPOR, and proof of insurance. Bidders contacted by [Middle Peninsula Planning District Commission SWAP Staff] to provide any missing required documents, must provide the document within 24 business hours or their bid will be considered non-responsive.

K) Obtain a final installation inspection from the private OSE and assure that the onsite sewage system complies with the Regulations. Receive a completion/inspection report, as-built design from private OSE.

L) Provide all required documentation to the Buckingham County Health Department following completion of construction and obtain an Operation Permit for the onsite sewage system.

M) Submit invoice and required paperwork once the Local Health Department has issued the Operations Permit. Include a copy of the completion statement and operations permit. Final invoice a paperwork should be submitted to: [Taylor Ovide at [tovide@mppdc.com](mailto:tovide@mppdc.com)]

**Additional Services (If needed):** Bidder must contact [name and contact information for local partner] listed on the awarded contract for written approval prior to any additional services performed. [Middle Peninsula Planning District Commission SWAP Staff will issue a change order for actual additional services rendered.

The contractor shall furnish all labor, supervision, equipment, tools, parts, supplies and materials, as necessary, to perform the services as described herein:

- A. Additional materials
- B. Additional labor and equipment.

### **Breakdown of Total Cost**

When responding to solicitation Bidders must attach a document listing breakdown of total cost for line item 1. Bidders must attach a separate breakdown of cost for additional services.

Additional cost should not be included in line item 1 bid submission.

**Optional site visit:** To arrange a site visit prior to bidding, please contact: Taylor Ovide at [tovide@mppdc.com](mailto:tovide@mppdc.com) or 804-758-2311

### **Additional questions:**

Contact Taylor Ovide via email: [tovide@mppdc.com](mailto:tovide@mppdc.com)

**Notice to Proceed**

If Bidder is selected for award, the Bidder shall be required to provide a signed Notice to proceed form within 3 business days of notification. [Middle Peninsula Planning District Commission SWAP staff] will provide a form for signature.

**Professional Engineer design, Alternative Onsite Sewage Disposal System  
Repair Construction Permit (COV 32.1-163.6)**

**Sewage Contractors:** Notify Health Department and OSE/PE 48 hours prior to  
installation to arrange for inspection

March 2, 2023

Mamie Smith  
8598 Little England Road  
Hayes, VA 23072

RE: Health Department Identification Number: 136-23-0033; EHD#: 073-ST5-102055  
Tax Map #: 51-296; RPC#: 33169  
Address: 8598 Little England Road, Gloucester, VA  
System Capacity: Residential – 2-bedroom dwelling

Dear Ms. Smith:

This letter and the attached drawings, specifications, and calculations (15 pages) dated February 14, 2023, constitute your permit to install a repair sewage disposal system on the property referenced above. Your application for a permit was submitted pursuant to §32.1-163.5 of the *Code of Virginia*, which requires the Health Department to accept private soil evaluations and designs from an Onsite Soil Evaluator (OSE) or a Professional Engineer working in consultation with an OSE for residential development. VDH is not required to perform a field check to verify the private evaluations of OSEs or PEs and such a field check may not have been conducted for the issuance of this permit.

The soil absorption area ("site") and sewage system design were certified by Carl Duncan, Professional Engineer, License # 21865, as substantially complying with the Board of Health's regulations (and local ordinances if the locality has authorized the local health department to accept private evaluations for compliance with local ordinances). This permit is issued in reliance upon that certification. VDH hereby recognizes that the soil and site conditions acknowledged by this permit are suitable for the installation of an onsite sewage system. The attached plans show the approved area for the sewage disposal system; there are additional records on file with the Gloucester County Health Department pertaining to this permit, including the Site and Soil Evaluation Report. This construction permit is null and void if any substantial physical change in the soil or site conditions occurs where a sewage disposal system is to be located.

Should revisions be necessary during construction, your contractor should consult with the PE that submitted the site evaluation or site evaluation and design. The PE is authorized to make minor adjustments in the location or design of the system at the time of construction provided adequate documentation is provided to the Gloucester County Health Department.

The PE that submitted the certified design for this permit is required to conduct a final inspection of this sewage system when it is installed and to submit an inspection report and completion statement. As the owner, you are responsible for giving reasonable notice to the PE of the need for a final inspection. If the designer is unable to perform the required inspection, you may provide an inspection report and completion statement executed by another PE. The Gloucester County Health Department is not required to inspect the installation but may perform an inspection at its sole discretion. No part of this installation shall be covered until it has been inspected by the PE as noted herein.



This Construction Permit is null and void if conditions are changed from those shown on your application or if conditions are changed from those shown on the Site and Soil Evaluation Report and the attached construction drawings, specifications, and calculations. VDH may revoke or modify any permit if, at a later date, it finds that the site and soil conditions and/or design do not substantially comply with the Sewage Handling and Disposal Regulations, 12 VAC 5-610-20 et seq., or if the system would threaten public health or the environment.

This permit approval has been issued in accordance with applicable regulations based on the information and materials provided at the time of application. There may be other local, state, or federal laws or regulations that apply to the proposed construction of this onsite sewage system. The owner is responsible at all times for complying with all applicable local, state, and federal laws and regulations. This construction permit is transferrable until expired or deemed null and void. A permit transfer form may be found on the VDH website at <http://www.vdh.virginia.gov/environmental-health/gmp-2015-01-forms/>. If you have any questions, please contact me.

The sewage system construction authorization expires: September 2, 2024

Sincerely,



Tammy Faulkner, AOSE/M  
Environmental Health Specialist, Senior

CC: Carl Duncan, Professional Engineer

**Installation Documentation Required to be submitted to the health department for issuance of the OPERATION PERMIT (formal closure of the repair construction permit)**

- Designer sewage disposal system inspection documentation and as-built;
- Contractor Completion Statement; and
- Notarized and Recorded copy of the Notice of Recordation – record the form that acknowledges you know the system requires maintenance, on the property records with the Gloucester Clerk of the Court. 804-693-2502, press 1, press 5 to get a party in the Clerk's office.



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Gloucester County Health Department  
PO BOX 663  
Gloucester, Virginia 23061  
(804) 693-6130 Voice  
(804) 693-1398 Fax

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March 2, 2023

Mamie Smith  
8598 Little England Road  
Hayes, VA 23072

Subject: **Recordation of Future Operation Permit**  
Health Department Identification Number: 136-23-0033  
EHD#: 073-STS-102055  
Tax Map #: 51-296; RPC/PIN #: 33169  
Address: 8598 Little England Road, Gloucester, VA  
System Capacity: Residential – 2-bedroom dwelling

Dear Ms. Smith:

Your application to construct an alternative sewage disposal system to serve a residence at the above location filed with the Gloucester County Health Department, has been evaluated in accordance with the requirements contained in Section 32.1-164.1 of the *Code of Virginia*, 12 VAC 5-610-250 of the *Sewage Handling and Disposal Regulations*, and current agency policies and procedures.

Your application is approved and your construction permit is attached to this letter. After your alternative sewage disposal system is constructed and approved for use, the local health department will issue an Operation Permit. The Operation Permit will be valid as long the sewage disposal system is properly operated and maintained. In accordance with Section 15.2-2157 of the *Code of Virginia*, operation permits for alternative systems serving residential facilities must be conditioned. Before you receive an operation permit for your alternative onsite sewage disposal system, you must record a notice in the land records of the Clerk of the Circuit Court in the locality where the system is located. You must furnish to the local health department a certification from the Clerk of the Circuit showing the deed book number and page number (or instrument number) upon which the notice was recorded. The notice must be indexed in the grantor index under your name.

This notice will state the following

*This permit is issued in accordance with the provisions of Title 32.1, Chapter 6 of the Code of Virginia as Amended, and § 12VAC5-610-340 of the Sewage Handling and Disposal Regulations of the Virginia Department of Health. The continued validity of this permit is contingent upon compliance with the operation and maintenance requirements contained in the Owner's Operation and Maintenance Manual and Regulations for Alternative Onsite Sewage Systems of the Virginia Department of Health (12VAC5-613-100 et seq.). Owners are advised to be aware of the operation and maintenance instructions for their alternative onsite sewage system and to follow them. Copies of the operation and maintenance instructions can be found by contacting the local health department for the locality where the onsite sewage disposal system is located*

If you have any questions or if this office can be of further service to you, call us at (804) 693-6130.

Sincerely,

Tammy Faulkner, OSE/A Master  
Environmental Health specialist, Senior



Gloucester County Health Department  
PO BOX 663  
Gloucester, Virginia 23061  
(804) 693-6130 Voice  
(804) 693-1398 Fax

**Notice for Recordation: AOSS Operation and Maintenance Required**

TO: Property Owner \_\_\_\_\_

Date: March 2, 2023

From: Tammy Faulkner, Environmental Health Specialist, Sr

RE: Health Department Identification Number: 136-23-0033; EHD#: 073-STS-102055  
Tax Map #: 51-296; RPC/PIN #: 33169  
Address: 8598 Little England Road, Gloucester, VA

TO WHOM IT MAY CONCERN:

The Gloucester County Health Department has approved an alternative onsite sewage system (AOSS) for use for the property identified above as long as the system is properly operated and maintained and performs in accordance with the *Sewage Handling and Disposal Regulations*(12 VAC 5-610-10 *et seq.*) and the *Regulations for Alternative On-Site Sewage Systems* (12 VAC 5-613-10 *et seq.*)

This permit is issued in accordance with the provisions of Title 32.1, Chapter 6 of the *Code of Virginia* as Amended, and §12VAC5-610-340 of the *Sewage Handling and Disposal Regulations* of the Virginia Department of Health. The continued validity of this permit is contingent upon compliance with the operation and maintenance requirements contained in the Owner's Operation and Maintenance Manual and the *Regulations for Alternative Onsite Sewage Systems* of the Virginia Department of Health (12VAC5-613-100 *et seq.*). Owners are advised to be aware of the operation and maintenance instructions for their alternative onsite sewage system and to follow them. Copies of the operation and maintenance instructions should have been given to the original owner by the system designer and should be passed on from owner to owner; they can also be found by contacting the local health department for the locality where the onsite sewage disposal system is located.

**This Notice must be recorded** in the owner's name in the grantor's index of the land records of the Clerk of the Circuit Court of the county having jurisdiction over the property. You must furnish the Gloucester County Health Department with certification from the Clerk of the Circuit Court showing the deed book and page number or the instrument number upon which the notice was recorded before you can receive your permit to operate the on-site sewage treatment and disposal system.

**As owner of the property, I acknowledge that the sewage disposal system designed to serve the dwelling requires adherence to the Owner's Operation and Maintenance Manual and to Part III, Operation and Maintenance, found in the *Regulations for Alternative Onsite Sewage Systems* of the Virginia Department of Health (12VAC5-613-100 *et seq.*).**

\_\_\_\_\_  
Property Owner

\_\_\_\_\_  
Date

COMMONWEALTH OF VIRGINIA, COUNTY/CITY OF \_\_\_\_\_, to wit:

Subscribed and acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 2023 by \_\_\_\_\_.

\_\_\_\_\_  
NOTARY PUBLIC for the COMMONWEALTH OF VIRGINIA AT LARGE

My Commission expires \_\_\_\_\_

Registration #: \_\_\_\_\_



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Gloucester County Health Department  
PO BOX 663  
Gloucester, Virginia 23061  
(804) 693-6130 Voice  
(804) 693-1398 Fax

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March 2, 2023

Mamie Smith  
8598 Little England Road  
Hayes, VA 23072

Subject: **Alternative Onsite Sewage Disposal System, Owner Responsibilities**  
Health Department Identification Number: 136-23-0033; EHD#: 073-ST5-102055  
Tax Map #: 51-296; RPC/PIN #: 33169  
Address: 8598 Little England Road, Gloucester, VA

Records on file at the Gloucester County Health Department indicate that you are/will be the owner of an Alternative Onsite Sewage System (AOSS). This letter is to provide you with important information regarding owner responsibilities for the operation and maintenance of your AOSS.

The *Regulations for Alternative Onsite Sewage Systems* (the "AOSS Regulations," 12 VAC 5-613) became effective on December 7, 2011. These regulations can be found online at <http://www.vdh.virginia.gov/EnvironmentalHealth/Onsite/regulations/index.htm>.

The Commonwealth of Virginia State Board of Health *Alternative Onsite Sewage Regulation* outline the owner's responsibilities for alternative onsite sewage systems. Owners are now required to:

1. Have the **AOSS operated and maintained by a licensed operator**. A list of licensed operators can be obtained by visiting the Department of Professional and Occupational Regulation at [www.dpor.virginia.gov](http://www.dpor.virginia.gov). Select "License Lookup" from the menu, type an asterisk (\*) in the name field, check the "Operators" box under "Onsite Sewage Systems Professionals" and click "search."
2. Have a **licensed operator visit** the AOSS at the frequency required by the regulations.
3. Have a licensed operator collect any **samples** required by the regulations (specific laboratory sampling requirements depend on the date your application was filed, the size of the treatment system, the approval status of the treatment unit, whether or not disinfection was required, and whether or not there is direct dispersal to groundwater. Laboratory sampling is not required for any small AOSS with an installed soil treatment area that is sized for septic tank effluent and complies with the requirements of 12VAC5-610 for septic tank effluent. Please consult your Operation and Maintenance Manual, the system designer, an Operator, or the Health Department if you have questions.)
4. Keep a copy of the **maintenance log** provided by the operator on the property where the AOSS is located, make the log available to the health department upon request, and transfer the log to any future owner of the property.
5. Keep a copy of the **Operation and Maintenance (O&M) Manual** for the AOSS on the property where the system is located, make the manual available to the health department upon request, and transfer the O&M Manual to any future owner.
6. Comply with the onsite sewage disposal requirements contained in any local ordinance adopted pursuant to the Chesapeake Bay Preservation Act (§10.1-2100 of the *Code of Virginia*) and the Chesapeake Bay Preservation Area Designation and Management Regulations (9 VAC 10-20) if the AOSS is located within a designated Chesapeake Bay preservation area.

Proper operation and maintenance of an AOSS is required by law and is necessary to ensure continued functioning of the system and may prevent premature failure of the system. Operation and maintenance information for your system may be found by contacting the system designer, the local health department, or by visiting the VDH website at <http://www.vdh.virginia.gov/EnvironmentalHealth/Onsite/newsinterest/index.htm>.

If you have any questions regarding this letter or believe that you received this letter in error, please contact me at (804) 693-6130. Your cooperation and timely response will be appreciated.

Sincerely,  
Virginia Department of Health

# Commonwealth of Virginia

Application for:  Sewage System  Water Supply

VDH Use only  
Health Department ID# 136-23-0033  
Due Date 03.08.23

Owner Mamie Smith

Phone Cameron 3-2-23

Mailing Address 8598 Little England Road

Phone W Faulkner, ETS

Hayes, VA 23072

Fax \_\_\_\_\_

Agent Larry W. Madison, Jr./Madison Environmental

Phone 804-930-1007

Mailing Address P.O. Box 353

Phone \_\_\_\_\_

Chesterfield, VA 23832

Fax 804-930-1008

Site Address 8598 Little England Road

Email \_\_\_\_\_

Hayes, VA 23072

Directions to Property: \_\_\_\_\_

Subdivision \_\_\_\_\_ Section \_\_\_\_\_ Block \_\_\_\_\_ Lot \_\_\_\_\_

Tax Map 51-296 Other Property Identification \_\_\_\_\_ Dimension/Acreage of Property \_\_\_\_\_

### Sewage System

**Type of Approval:** Applicants for new construction are advised to apply for a certification letter to determine if land is suitable for a sewage system and to apply for a construction permit (valid for 18 months) **only when ready to build.**

Certification Letter  Construction Permit  Voluntary Upgrade  Repair Permit  Minor Modification

#### Proposed Use:

Single Family Home (Number of Bedrooms 2) Multi-Family Dwelling (Total Number of Bedrooms \_\_\_\_\_)

Other (describe) \_\_\_\_\_

Basement?  Yes  No Walk-out Basement?  Yes  No Fixtures in Basement?  Yes  No

Conditional permit desired?  Yes  No If yes, which conditions do you want?

Reduced water flow  Limited Occupancy  Intermittent or seasonal use  Temporary use not to exceed 1 year

Do you wish to apply for a betterment loan eligibility letter?  Yes  No \*There is a \$50 fee for determination of eligibility.

### Water Supply

Will the water supply be  Public or  Private? Is the water supply  Existing or  Proposed?

If proposed, is this a replacement well?  Yes  No If yes, will the old well be abandoned?  Yes  No

Will any buildings within 50' of the proposed well be termite treated?  Yes  No

Well Type (e.g. domestic use, agricultural, irrigation, etc.) \_\_\_\_\_

### All Applicants

Is this property intended to serve as your (owners) principal place of residence?  Yes  No

All applications must be accompanied by private sector evaluations and designs, unless a petition for VDH services is approved. Is a Petition for Service form attached?  Yes  No

In order for VDH to process your application for a sewage system you must attached a plat of the property and a site sketch. For water supplies, a plat of the property is recommended and a site sketch is required. The site sketch should show your property lines, actual and/or proposed buildings and the desired location of your well and/or sewage system. When the site evaluation is conducted the property lines, building location and the proposed well and sewage sites must be clearly marked and the property sufficiently visible to see the topography. I give permission to the Virginia Department of Health to enter onto the property described during normal business hours for the purpose of processing this application and to perform quality assurance checks of evaluations and designs certified by a private sector Onsite Soil Evaluator or Professional Engineer as necessary until the sewage disposal system and/or private water supply has been constructed and approved.

Larry W. Madison, Jr.  
Signature of Owner/ Agent

02/14/2023  
Date

**AOSE/PE Report for  
Repair Permit**


<b>Property location:</b>  8598 Little England Road	<b>Lot:</b>	<b>Section:</b>	<b>Subdivision:</b>
	<b>County:</b> Gloucester		
	<b>GPIN or Tax Map #:</b> 51-296		

<b>Applicant/Client Address:</b> Mamie Smith 8598 Little England Road Hayes, VA 23072	<b>Prepared by AOSE/PE:</b> Larry W. Madison Jr. Madison Environmental P.O. Box 353 Chesterfield, VA 23832
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<b>Date:</b> 02/14/2023	<b>AOSE/PE Job Number:</b> 5415
<b>Revision Date:</b>	<b>Health Dept. ID Number:</b>

<b>Contents of this Report:</b>		<b>Pg</b>	<b>Pg</b>	<b>Pg</b>
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Construction Specifications	8		Soil Summary Report	5
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Pump Chamber Specifications	12		Site Sketch	7
Survey/Plat	15		Well Documentation	
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			Other:	2-4

**Certification Statement(s)**

<p>I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the applicable provisions of the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-630), the Regulations for Alternative Onsite Sewage Systems (12VAC5-613) and all other applicable laws, regulations and policies implemented by the Virginia Department of Health. I further certify that I currently possess any professional license required by the laws and regulations of the Commonwealth that have been duly issued by the applicable agency charged with licensure to perform the work contained herein. The potential for both conventional and alternative onsite sewage systems has been discussed with the owner/applicant.</p> <p><input type="checkbox"/> The work attached to this cover page has been conducted under an exemption to the practice of engineering, specifically the exemption in Code of Virginia Section 54.1-402.A.11</p> <p>I recommend approval of:      <b>Repair Permit</b></p>	 <p><i>AL Duncan</i></p>
---	--

OH APPROVED COPY  
 ID# 136-23-0033  
 his permit is transferable until  
 expired or deemed null and void  
 3-2-23 *Haulman, E.H.S.*



Form 14

# Condition Assessment

<b>VDH Use Only</b>
HDIN: <u>136-23-0033</u>
VPDES GP: _____

<b>Owner and Application Information</b> <input checked="" type="checkbox"/> Repair <input type="checkbox"/> Voluntary Upgrade	
<b>Name:</b> Mamie Smith	<b>Phone Number:</b>
<b>Address:</b> 8598 Little England Road	
<b>Email:</b>	

<b>System Location</b> 8598 Little England Road			
<b>Address:</b>			
<b>Tax Map/GPIN #:</b> 51-296			
<b>Subdivision:</b>	<b>Section:</b>	<b>Block:</b>	<b>Lot:</b>
<b>Directions:</b>			

<b>System File Information</b>	
<b>Permit Type:</b> <input type="checkbox"/> Onsite Disposal	<input type="checkbox"/> Stream Discharging System
<b>Property Type:</b> residential	
<b>Permitted Design Flow:</b> 300 gpd	<b>Permitted #Bedrooms:</b> 2
<b>System Type:</b> <input checked="" type="checkbox"/> Conventional <input type="checkbox"/> Alternative If Alternative, Treatment Mfg. & Model:	
<b>Dispersal Method:</b> <input checked="" type="checkbox"/> Gravity <input type="checkbox"/> Pump to Gravity <input type="checkbox"/> LPD <input type="checkbox"/> Drip	
<b>Dispersal Media:</b> <input type="checkbox"/> Gravel <input type="checkbox"/> Gravelless Material <input type="checkbox"/> Tire Chips <input type="checkbox"/> Sand	
<b>Gravelless Type:</b>	<b>Notes:</b>
<input type="checkbox"/> Attach a Copy of As-built drawing or drawing of system layout	

<b>Existing System Evaluation</b>	
Failure Observed or reported by owner: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No: <input type="checkbox"/> Backup into home <input type="checkbox"/> Effluent on the ground surface	
If failure observed or reported by owner, <b>REPAIR</b> permit <b>REQUIRED</b> .	
Number of Occupants: 2	Date System Installed: _____
Current Use: Residential	Current Number of Bedrooms: 2
Has property been occupied during previous 30 day period? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Garbage Disposal: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Water Softener: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Jacuzzi/Hot Tub: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of Last Septic Tank Pump Out: _____	Date of Last Operator Visit _____

<b>Component Status</b> (place check under appropriate box)					
Component	Present	Inspected	Functional	Non-Functional	Observations/Comments
Sewer Line	x	x	x		
Septic Tank	x	x		x	
Septic Tank Tees	x	x		x	
Treatment Unit					
Pump Chamber					
Pump					
Disinfection					





**Recommended Action:**  Repair

Identify Probable Cause of Component Malfunction (check all that apply):

- Unknown  Damaged/Compromised  Deterioration  Hydraulic Overload  Organic Overload  Improper Maintenance  Root Infiltration

Describe temporary corrective recommended action(s) and purpose of action(s): reduced water use

Describe Permanent recommended action(s) and purpose of action(s): \_\_\_\_\_

**Form Completed By:** Larry W Madison Jr.

Name: Mamie Smith

Signature: Larry W. Madison, Jr.

Date: 02/14/2023

Professional License Type and Number: AOSE #1940 001076

# Site and Soil Evaluation Report

VDH Use Only  
HDIN: 136-23-0033

## General Information

*3-2-23* *Pauline*  
*E/ISS*

Date: 02/13/2023 Gloucester County Health Department  
Owner: Mamie Smith Phone: \_\_\_\_\_  
Owner Address: 8598 Little England Road, Hayes, VA 23072  
Property Address: 8598 Little England Road  
Tax Map/GPIN #: 51-296  
Subdivision: \_\_\_\_\_ Section: \_\_\_\_\_ Block: \_\_\_\_\_ Lot: \_\_\_\_\_

## Soil Information Summary

1. Position in landscape satisfactory:  Yes  No Describe landscape position: Broad Flat
  2. Slope: 0-1 %
  3. Depth to rock/impervious strata: Max. \_\_\_\_\_ in. Min. \_\_\_\_\_ in.  Not observed
  4. Free Water Present:  Yes  No Range in inches: \_\_\_\_\_
  5. Depth to seasonal water table (gray mottling or gray color): 30 inches  Not observed
  6. Soil percolation rate estimated:  Yes  No Estimated rate: 30 min/in at 18 inches depth  
Texture Group:  I  II  III  IV
  7. Percolation test performed:  Yes  No If yes, provide additional data on percolation test results.
- Name and title of evaluator: Larry W. Madison, Jr., AOSE #1940 001076

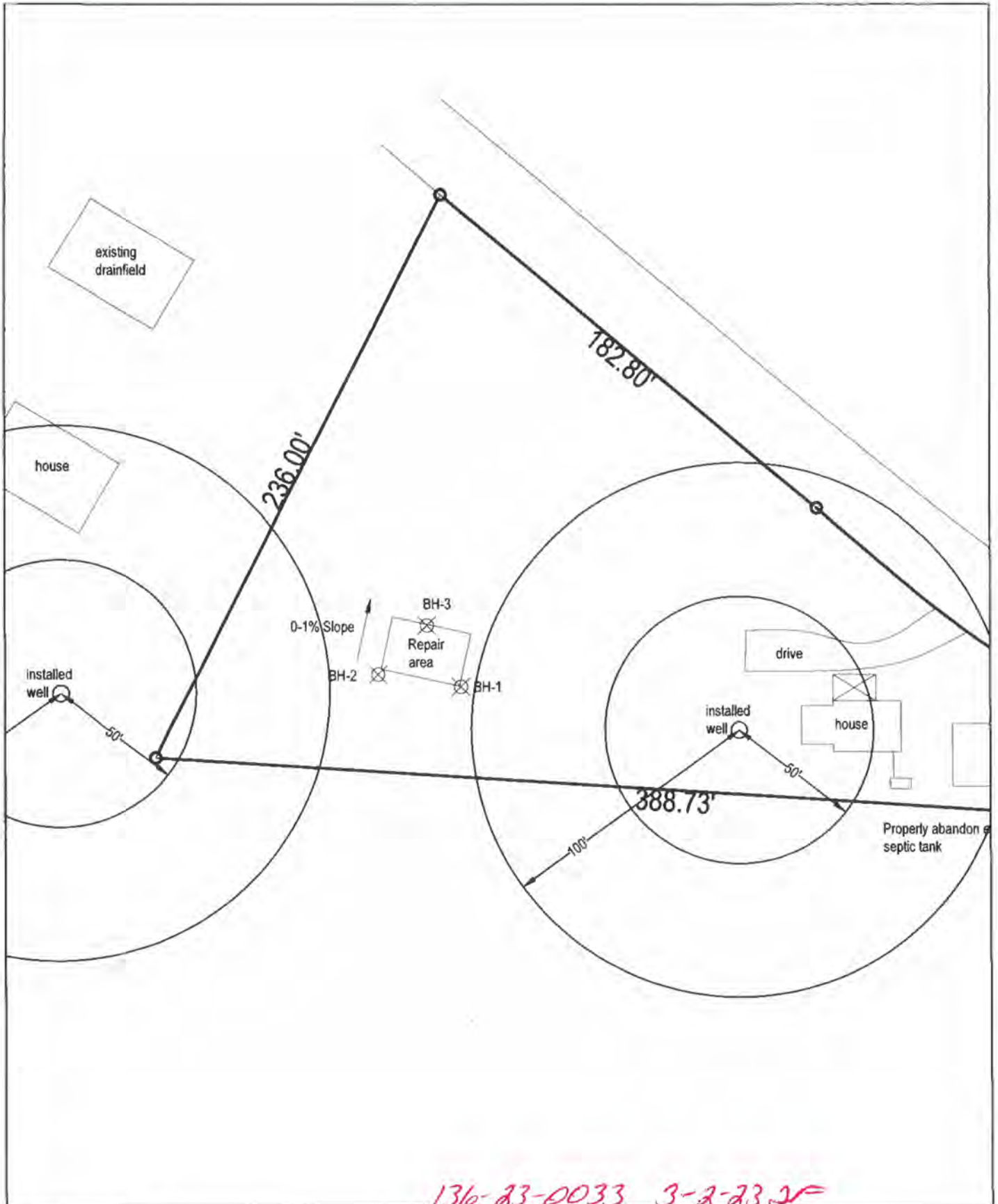
Signature: Larry W. Madison, Jr.

Site approved: absorption trenches (describe dispersal area, e.g. absorption trenches) dispersing TL3 (proposed level of treatment at time of evaluation) to be placed at 18 (inches) depth at site designated on permit. Site provides a total of 1050 square feet of absorption area for primary and reserve (if applicable).

Site disapproved: Reasons for rejection (check all that apply)

1.  Position in landscape subject to flooding or periodic saturation.
2.  Insufficient depth of suitable soil over hard rock.
3.  Insufficient depth of suitable soil to seasonal water table.
4.  Rates of absorption too slow.
5.  Insufficient area of acceptable soil for required absorption area, and/or reserve area.
6.  Proposed system too close to well.
7.  Other (specify)





*136-23-0033 3-2-23 JV*

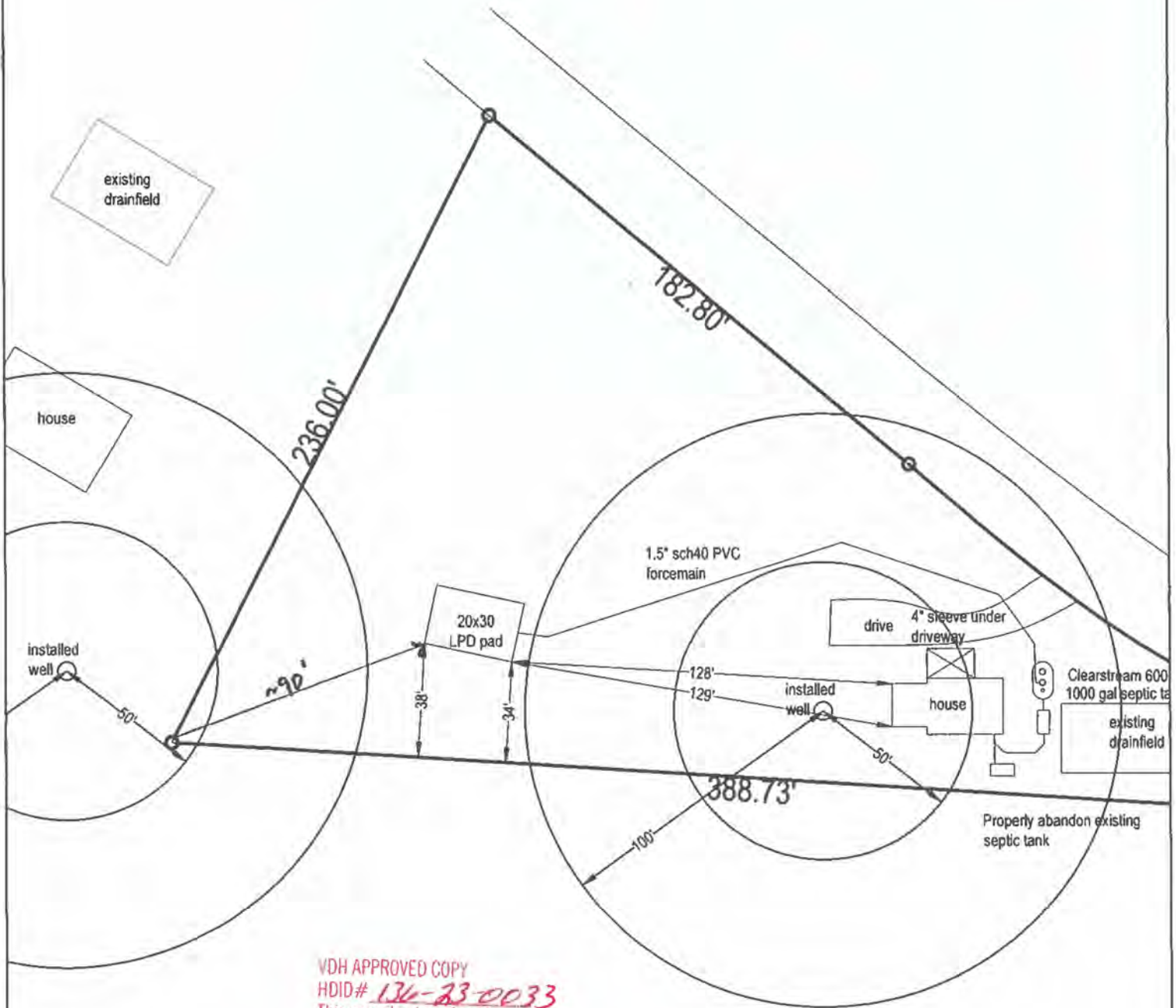
Septic Site Plan  
8598 Little England Road  
Scale: 1"= 50'

**Madison Environmental LLC**  
P.O. Box 353  
Chesterfield, VA 23832 804 930 1007

## System Specifications

<b>VDH Use Only</b> HDIN: <u>136-23-0033</u>
---

<b>Application Information</b>	
Name: <u>Mamie Smith</u>	Address: <u>8598 Little England Road</u>
Phone: _____	Hayes, VA 23072
<b>Location Information</b>	
Tax Map/GPIN #: <u>51-296</u>	Property Address: <u>8598 Little England Road</u>
Subdivision: _____	Section: _____ Block: _____ Lot: _____
Directions: _____	
<b>General Information</b>	
Property Type (e.g. residential): <u>residential</u>	Number of Bedrooms: <u>2</u>
Daily Flow: <u>300</u> gpd	Conditions: <u>none</u>
Notes: _____	
<b>Sewer Line</b>	
Diameter: <u>4</u> in. Material: <u>Sch 40</u>	(or equivalent) Notes: _____
<b>Pretreatment Unit(s)</b>	
Treatment Level: <u>TL3</u>	Septic Tank Capacity: <u>1000</u> gallons
Number of Septic Tanks <u>1</u>	Size of Septic Tank(s) <u>1000</u> gallons
Per the Sewage Handling and Disposal Regulations, check which option(s) chosen:	
<input type="checkbox"/> Septic tank with inspection port <input type="checkbox"/> Septic tank with effluent filter <input type="checkbox"/> Reduced maintenance septic tank	
Secondary treatment device(s), if applicable: <u>Clearstream 600DAC3</u>	
Notes: <u>Properly abandon existing septic tank</u>	
<b>Conveyance Line</b>	<b>Distribution Method and Header Lines</b>
Conveyance Method: <u>Pump</u>	Distribution Method: <u>LPD</u>
If pumping, include pump specifications sheet.	No. of boxes: <u>NA</u> No. of outlets: <u>NA</u>
Material: <u>Sch 40</u> Diameter: <u>1.5"</u>	Surge or splitter box required: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Notes: <u>see pump specs</u>	Header Line Material: <u>1.5 Sch 40 PVC</u>
<b>Percolation Lines/Absorption Area</b>	
Dispersal Method (e.g. laterals, pad, mound): <u>pad</u>	
If using pressure dispersal (e.g. drip), include pressure dispersal specifications sheet.	
No. of laterals/pads: <u>1</u>	Length of lateral(s)/pad(s): <u>30</u> ft. Width of lateral(s)/pad(s): <u>20</u> ft.
Center to center spacing: <u>9</u> ft.	Installation depth: <u>18</u> in.      Aggregate depth: <u>13</u> in.
Size/Type of Aggregate: <u>5-1.5"</u>	Lateral/pad slope: <u>2-4</u> in. per <u>100</u> ft.
Reserve Area Provided: <u>NA</u> %	Notes: _____
<b>Please Note:</b> <u>200' sanitary survey was conducted</u>	

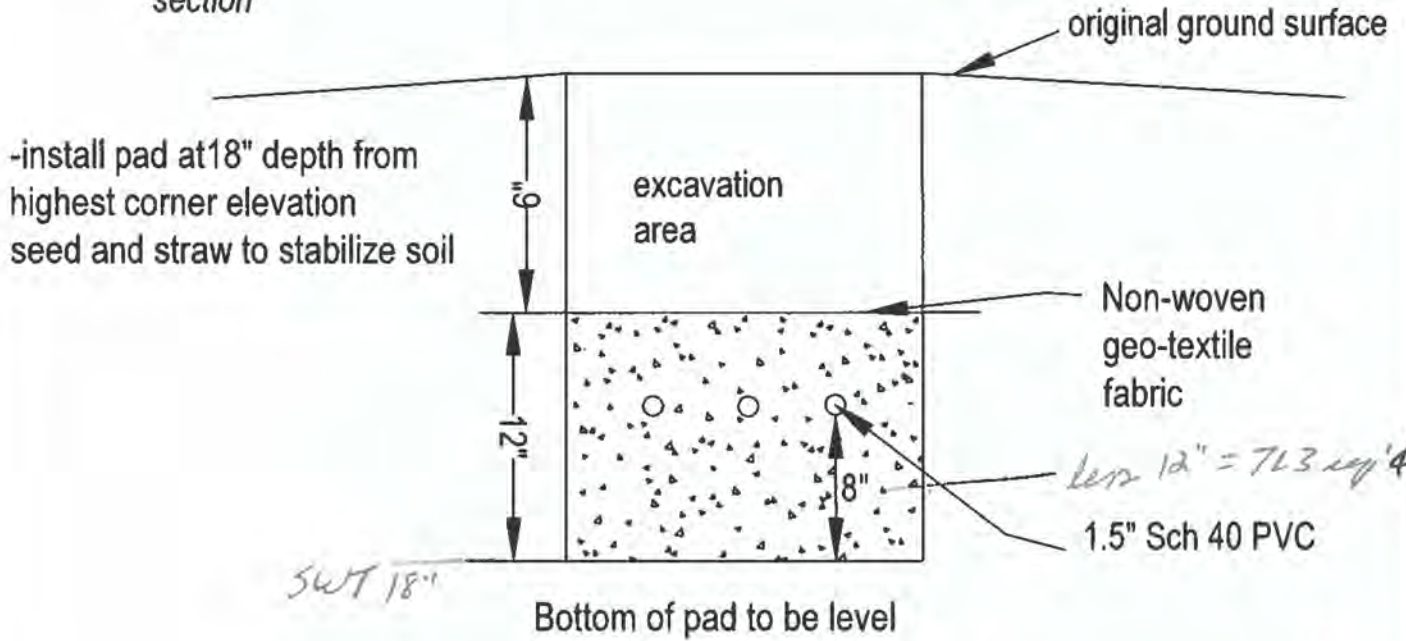


VDH APPROVED COPY  
HDID# *136-23-0033*  
This permit is transferable until  
expired or deemed null and void  
*3-2-23 Faulkner E.H.S.S.*

Septic Construction Plan  
8598 Little England Road  
Scale: 1" = 50'

**Madison Environmental LLC**  
P.O. Box 353  
Chesterfield, VA 23832 804 930 1007

cross section



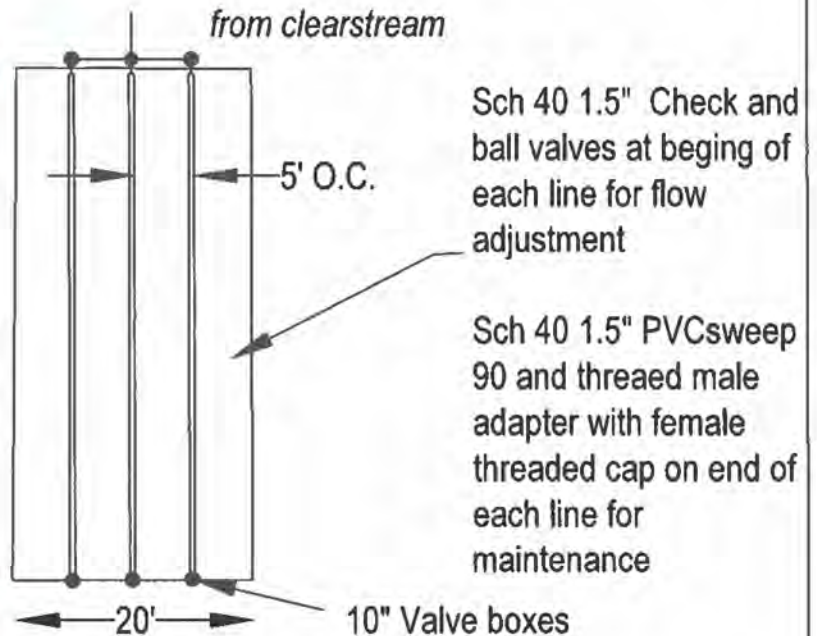
not to scale

view from above

**Lateral Length should be 30'**  
*Larry W. Madison, Jr.*  
 Nominal Pipe Size: 1.5 in  
 Lateral Length: 40.00 ft *30' on pages 8 & 11.*  
 Orifice ID: 3/16 in  
 Distance Between Orifices: 3.00 ft  
 Lateral Length to First Orifice: 1.00 ft  
 Number of Orifices per Lateral: 9

*appears to be bond on 30' line length.*

VDH APPROVED COPY  
 HDID# 136-23-0033  
 This permit is transferable until expired or deemed null and void.  
 03-2-23 JF



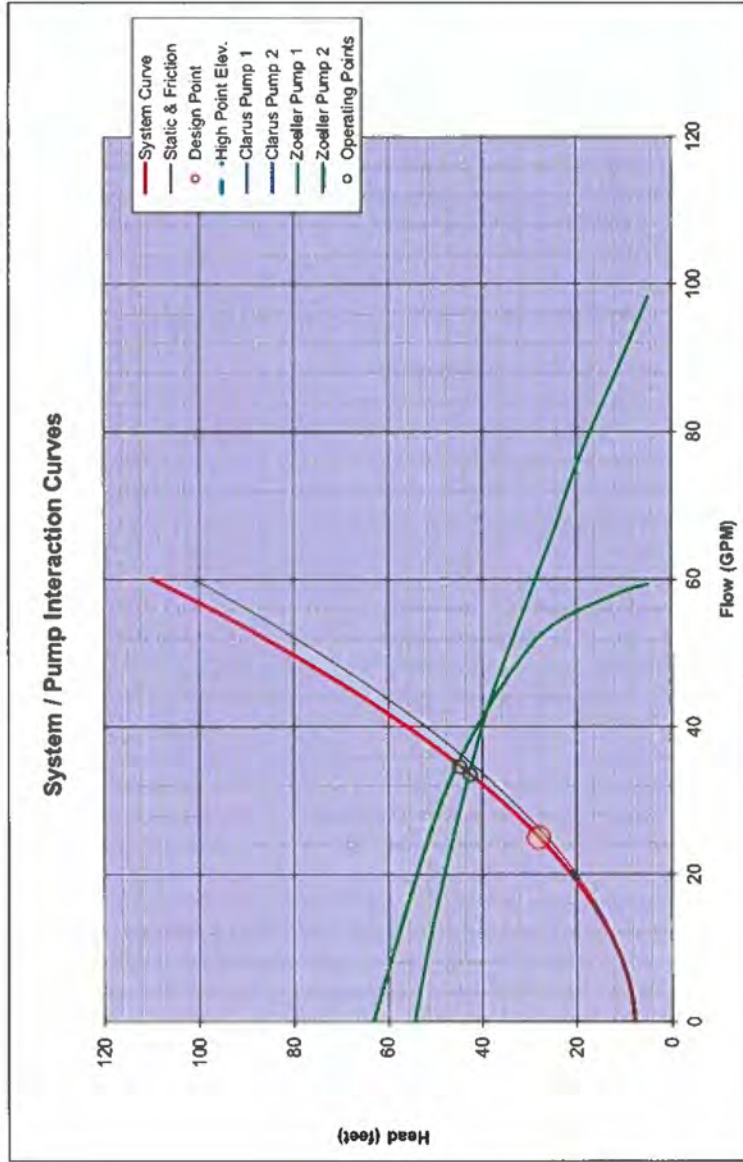
not to scale

Pad Detail  
 8598 Little England Road  
 Not to Scale

**Madison Environmental LLC**  
 PO Box 353  
 Chesterfield, VA 23832 804 930 1007

# Zoeller Company System Head Curve and Pump Selection Tool

<b>Static Head Information</b>		
Static Head - elevation difference from low water to outfall	8.0 feet	
System high point above outfall?	No	
<b>Friction Head Information</b>		
How many different pipes in the system (not counting laterals)?	1	
Pipe 1 Length	880 feet	
Pipe 1 Size	1 1/2 inches	
Pipe 1 Class	SCH 40	
Pipe 2 Length		
Pipe 2 Size		
Pipe 2 Class		
Pipe 3 Length		
Pipe 3 Size		
Pipe 3 Class		
Pressurized Laterals?	Yes	
How many are dosed at once?	3	
Length of one lateral	30 feet	
Size of lateral	1 1/2 inches	
Class of lateral	SCH 40	
Flow Deviation Along Lateral	2.1% ✓	
<b>Fittings &amp; Discharge Assemblies</b>		
Type	Quantity	Flow
90 Elbow	12	100 %
Check Valve	7	100 %
Gate Valve (full open)	6	100 %
<b>Special Friction Considerations</b>		
Weep Hole	Yes	1/4"
Add-In Friction	No	
Automatic Multizone Valve?	No	
Pressure Filter?	No	
<b>Operating Head Information</b>		
System Type	Low Pressure Pipe	
Required Pressure	1.5 feet	
Number of Orifices	27	
Size of Orifices	1/4"	
<b>Factors and Coefficients</b>		
Hazen-Williams C Factor	130	
Discharge Coefficient (Cd)	0.61	
Lateral Design Mode	On	



NOTE: THE DISPLAYED PUMP CURVES HAVE BEEN ADJUSTED TO ACCOUNT FOR THE EFFECT OF THE WEEP HOLE

Design Point	25.0 GPM @ 28.0 TDH
Curve Zoom Range	50 GPM

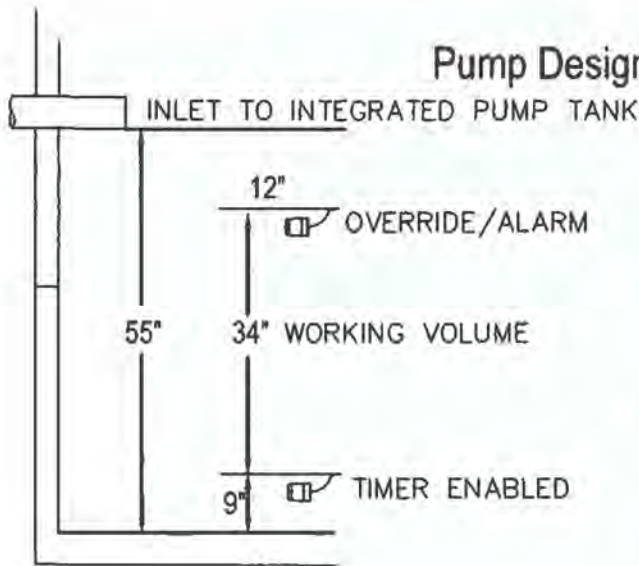
Pump Selection	60 Hz	Frequency	Operating Points
Clarus Environmental Pumps			
Clarus Pump 1			
Clarus Pump 2			
Zoeller Pump Company Pumps			
Zoeller Pump 1	1634163	0.5hp, 60Hz	33.9 GPM @ 42.8'
Zoeller Pump 2	1634163	0.5hp, 60Hz	34.7 GPM @ 44.8'

Project Name	8598 Leth England Road
Project Address	
Contact Info	
Notes	



# Pump Design and Specifications

136-23-0033



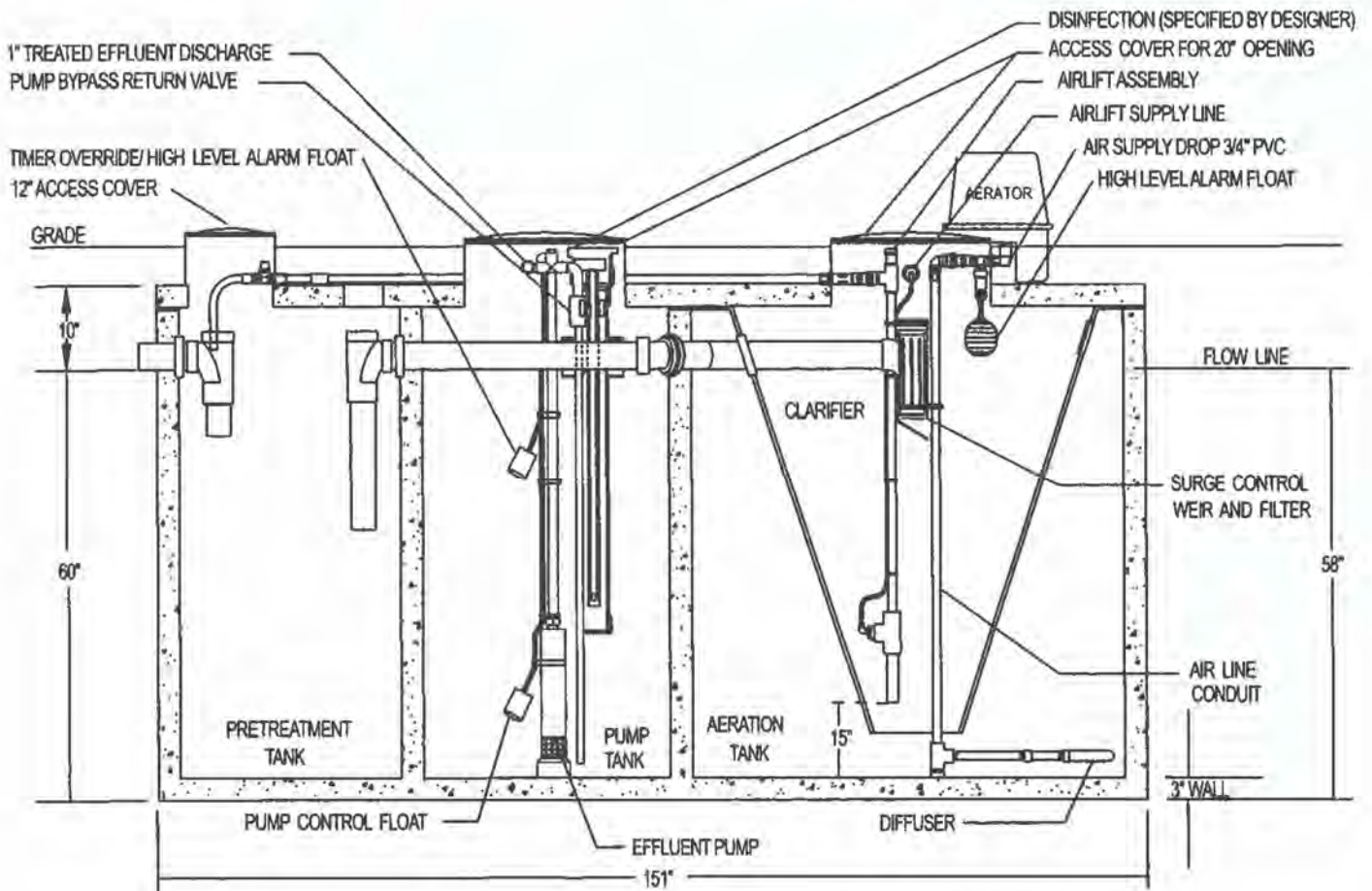
1. Control Panel: Clearstream Model series CS-118
2. Control Circuit: 10 amp breaker -120 Volt
3. Pump Circuit: 20 amp breaker -single pole 120 Volt
4. Alarms: Red alarm light and buzzer for HWA.
5. Floats: 2-float system

**Notes:**

1. Pump chamber shall be level and water tight.
2. The pump station must have a water tight control panel for automatically starting and stopping the pump based on water level.
3. The electrical motor control center and master disconnect switch shall be placed in a secure location above grade and remote from pump station.
4. Motor control panel shall provide a manual override switch.
5. A high water alarm with remote sensing and electrical circuitry separate from the motor control must be provided.
6. The alarm shall be audiovisual and shall alarm in an area where it may be easily monitored.
7. All electrical connections shall be **hardwired with color coded, stranded** wire. Do not use compression fittings.
8. **All electrical wiring must be in conduit.** Conduit must be primed and glued for water tightness.
11. Clearstream splice box (internal or external) must be used if splicing float wires.
12. All holes into risers for any electrical wiring must be sealed using **Polylok rubber grommets.**
13. All electrical splice boxes and check valves must be readily accessible for maintenance and no deeper than 12" below riser

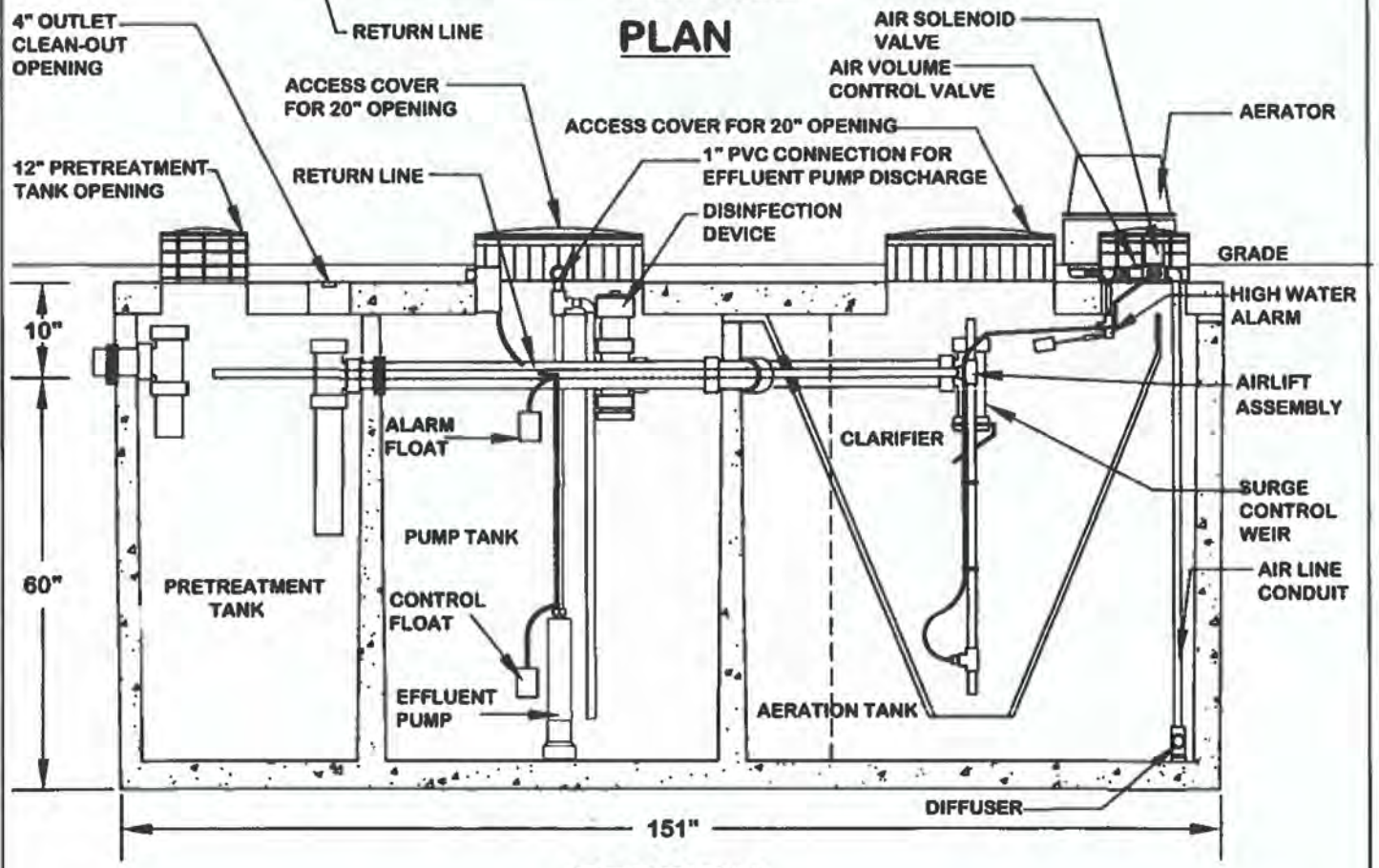
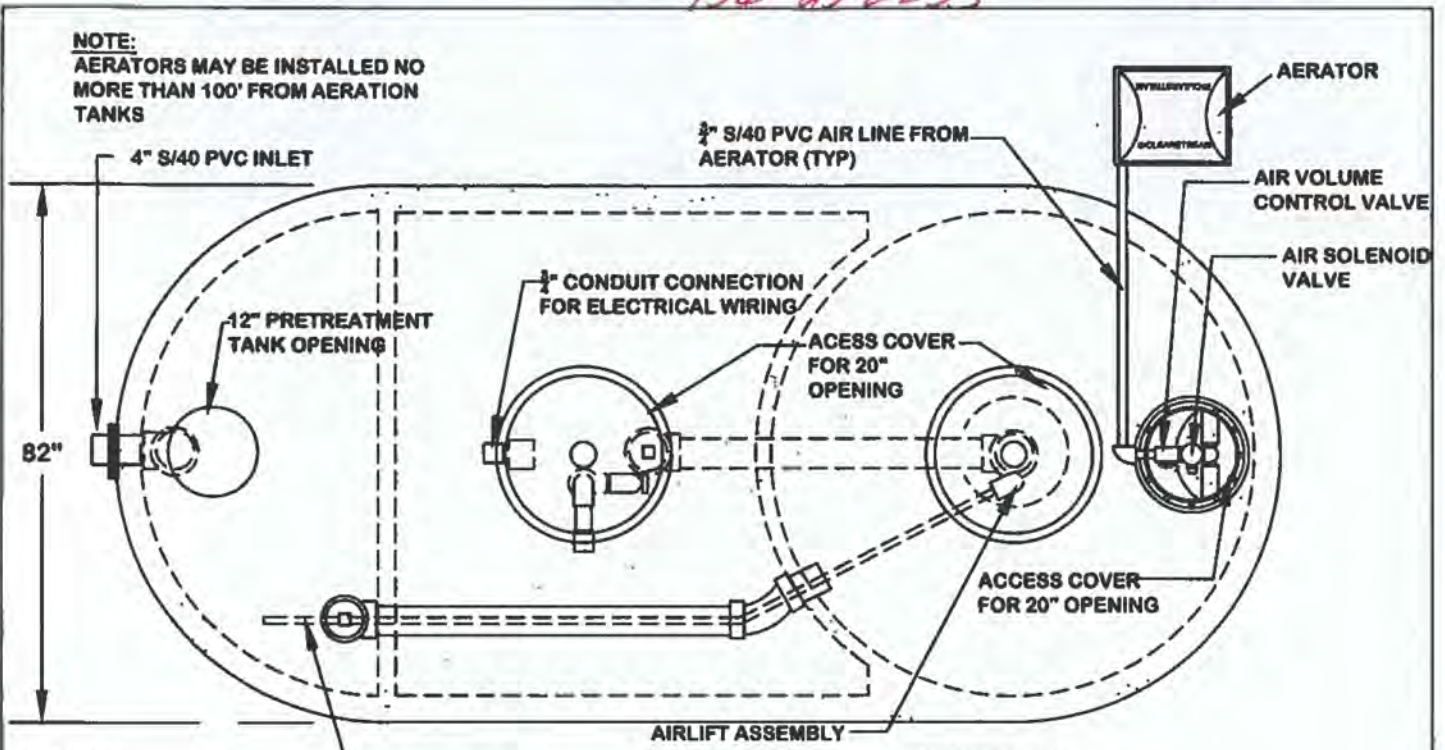
Tank manufacturer: Alcat Precast  
 Pump tank Volume: 725 Gal. Tank  
 Gal. Per inch: 13.1

**DOSE TIME**  
 GPM: 25  
 Gallons/dose: 50 gal.  
 Doses/day: 6 doses  
 Dose Run time: 2min  
 Dose run time per day: 24 min  
 Off time between doses 3hr 58 min



136-23-0033

**NOTE:**  
AERATORS MAY BE INSTALLED NO MORE THAN 100' FROM AERATION TANKS



PROPRIETARY AND CONFIDENTIAL  
THIS INFORMATION CONTAINED IN THE DRAWING IS THE SOLE PROPERTY OF CLEARSTREAM. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CLEARSTREAM IS PROHIBITED.

DRAWN BY CWP	DATE 02/02/2018
CHECKED BY JLM	DATE 02/08/2018
SCALE: NTS	SHEET 1 OF 1

**600DAC3**  
**600DAC3**

**CLEARSTREAM**  
WASTEWATER SYSTEMS, INC.  
RESIDENTIAL - COMMERCIAL - MARINE  
P.O. Box 7568 Beaumont, Texas 77726

## **MADISON ENVIRONMENTAL SEPTIC SYSTEM CONSTRUCTION NOTES**

- Installation must be in accordance with the Virginia Board of Health current *Sewage Handling Regulations* and OSHA codes.
- This sewage disposal system and/or water supply is to be constructed as specified by the permit and the attached drawings and specifications.
- Madison Environmental must be notified prior to any suggested changes to the design.
- Failure to install the system in accordance with the permit and state regulations may result in the system not being approved.

### **PRE-CONSTRUCTION**

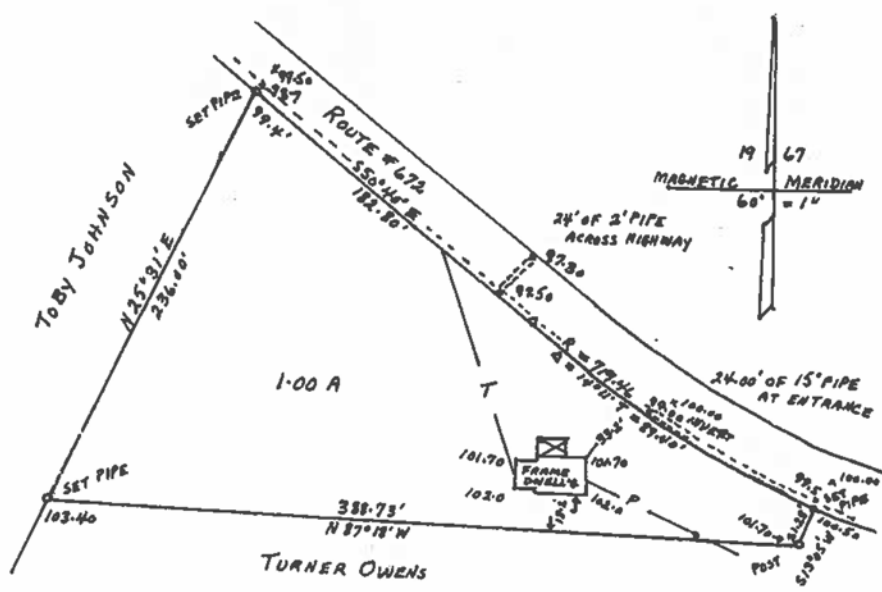
- Read and review construction notes and pump specs prior to installation of system. Any deviation without prior approval may cause additional inspection fees.
- No buried utility service shall be closer than 10 ft. to any part of this system.
- Do not install drainfield system during periods of wet weather or wet soil. This could cause the site to become unsuitable for the drainfield.
- Do not stock pile soil on drainfield area.
- Shallow-placed drainfields (12" or less) must be hand cleared. Shallow-placed drainfield must be protected from heavy excavating equipment. The drainfield permit can be revoked if the site has been damaged by heavy equipment. Stumps may be carefully removed on the day of installation.
- Water loving trees and plants such as weeping willow, maple, gums and others shall be removed if within 25 feet of the drainfield. The roots of these trees may enter distribution lines or drainfield trenches and cause clogging and failure of the drainfield.

### **INSTALLATION AND CONSTRUCTION**

- Concrete septic tanks and d-boxes shall be sealed with hydraulic cement. This includes inlet and outlet ports, seams and any unused ports.
- All risers must extend 6" above final grade.
- Drainfield is to be installed in original, undisturbed soil at location specified on permit.
- The drainfield trenches shall be installed on contour and per VDH Regulations 12VAC 5-610-930, Section E.
- If installing anything other than gravel trenches, it must be preapproved.
- If system calls for a pump or alternative system please read additional notes for electrical wiring.
- Tank must be filled with water prior to start-up.
- Madison Environmental must be notified at least **48 hours prior** to the final inspection.

### **DRAINFIELD SITE CARE**

- Keep structures and driveways off the drainfield and reserve areas.
- Do not drive heavy equipment on drainfield area (before and after installation of system).
- Roof drains, basement sump discharges (non-sewage), floor drains, footing drains, etc. being connected to this system is prohibited.
- Madison Environmental does not recommend the use of garbage disposals with septic systems unless an additional dedicated grease trap is installed.
- Lawn irrigation over drainfield area may cause drainfield failure and is not recommended.



SURVEY FOR CONVEYANCE TO JAMES C. JENKINS JR  
 OF 1.00 ACRE ON THE SOUTH SIDE OF ROUTE #672  
 NEAR BENA IN ABINGDON DISTRICT OF GLOUCESTER  
 COUNTY, VIRGINIA, BEING LAND NOW OF CHARLES S.  
 BARCLAY AND THE SAME LAND CONVEYED BY DEED  
 RECORDED ON PAGE 495 OF DEED BOOK #139.  
 LINES INDICATED BY JAMES C. JENKINS SR.  
 MARCH 6, 1967 FRANK E. MINER  
 ELEVATIONS FROM ASSUMED DATUM



67-19 GLO

THIS PLAT, WAS DELIVERED TO THE CLERK OF THE CIRCUIT COURT OF GLOUCESTER COUNTY, VIRGINIA, ON THE 10TH DAY OF APRIL, 1967, ADMITTED TO RECORD AT

JAN 5 1967

## Level I & II Review Form

**Tax Map#:** 51-296  
**Reviewer:** Tammy Faulkner

**RPC #:** 33169  
**STS EHD #:** 073-ST5-102-55  
**Well EHD#:** 073-WW -N/A

**HDID:** 136-23-0033  
**Date:** February 23, 2023

### Level I Review

Repair proposal for a 1975, 2-bedroom dwelling where the plan was to remove and replace components that had root intrusion to restore wastewater flow to 3 existing lines that did not appear to be damaged, where the 4<sup>th</sup> line was probably damaged from woods root intrusion. Occupant is a single 80ish year old lady with a caretaker looking after her. Funding for the ~\$4,500 repair could not be secured and under the SWAP program, it was either all or nothing because if the \$4,500 repair was approved and completed, and then it was found out that plan would not work, the SWAP funding would not apply for a complete system repair. Currently pump and haul is managing the situation, that has been ongoing since October 2021.

This application is for a TL3 design.

PE stamped. Scale measurement from Clearstream to disposal field is ~180', but pump page indicates 80' – to ask for clarification. Rec'd corrected page Feb 28, 2023. Picked up finishing review March 2, 2023.

Condition Assessment evaluation attached.

Item	IN <sup>1</sup>	OUT <sup>2</sup>	N. O. <sup>3</sup>	N. A. <sup>4</sup>	Comments
<b>Location</b>					
Site features affecting well & septic system location identified	x				Existing shallow well noted. The force main to be 50' distant. The disposal pad 100' distant.
Landscape position indicated	x				PC – Broad Flat EHS notes: Topo – 3' above road elevation at DF location, bank at road; this side does not slope to road elevation like right side of dwelling where the existing STS disposal field is located. Right side of dwelling slopes to road ~3% slope. This may actually be a terrace.
Absorption Area	x				
House site located	x				Existing 2-bedroom
Other:					
Separation distance adequate	x				
Adequate triangulation / scale	x				The area evaluated is the same identified by the LHD; however, an additional measurement from corner pin would have tied down location better.
Depth	x				
Limiting factors (or lack of) noted	x				30" SWT, 18" TB = 8" separation from pipe bottom to trench excavation = TL3
Depth adequate for slope				x	
Depth adequate for limiting factors	x				
Timed-Dosing specified (if required)	x				
Capacity	x				2-bedroom sts – 300 gpd
Absorption area adequately evaluated (number and location of borings / pits)	x				3 profiles cover area in standard pattern
Design flow adequate for intended use	x				residential
Adequate trench area, based on flow & estimate / measured perc rate	x				LPD Pad 30 mpi = .80 LR = 375 sq. ft req'd, but need X min. per reg. (420?) 30' x 20' area = 600 sq. ft provided, greater than min. req'd.
Adequate footprint area (including reserve area, if required)	x				
Treatment	x				Sewer line to a new septic tank installed where tree located to Clearstream 600DAC3 to a force main around driveway and well to pad area ~200' distant to an LPD pad 30' x 20'. (180' FM run per pump page)
Treatment level specified	x				
Treatment level adequate for specified absorption area depth	x				
Treatment capacity adequate for design flow	x				

*1 In substantial agreement; 2 Not in substantial agreement; 3 Not observed; 4 Not applicable (A) If one boring indicates disagreement, reviewer should complete a second boring before concluding that there is overall disagreement.*

**Sanitary Survey - file research?** No change from EHS work when plan was to replace D-box and header lines, and soil work was conducted to see if there were conventional soils for an EHS complete system replacement/repair design.

**Level II Review** – appears disposal site is same as that evaluated by EHS – 100' from neighbor's well, and 100' from property owner's shallow well.

**Additional comments, if any:** None

Sanitary Survey

