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VDH-LP 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 30th, 2025.**

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

Conventional Onsite Septic with Pump Installation Project (2023-MPPDC-01S)

Address: 24 Cove View Lane, Cobbs Creek, VA 23035

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
Line Item # 1; 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 and permit:	\$
Itemized	
	Itemized Bid Cost
A&B) Costs to construct and install a conventional onsite sewage system to specification in compliance with the attached Local Health Department Permit:	\$
C) Costs of Septic Pump-out, 1 initial pumpout if deemed necessary to prevent sewage backup:	\$
D1) Costs of Tree Removal per permit:	\$
D2) Costs of Site Clearing per permit:	\$
G) Costs of abandoning any unused component of the former onsite sewage system may include removing pipes, abandoning tanks, pumpout of abandoned tank, abandoning distribution boxes, as specified by permit:	\$
H) Costs of stabilizing, seeding and grading the site after construction to return to the original state in compliance with code:	\$
Additional Itemized Costs Not Included In Line 1:	
C-2) 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;
E) Provide, or subcontract with a licensed plumber and electrician to complete project per permits, scope of work, and code:	_____
I) 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.	_____
J) Obtain a final installation inspection from the Local Health Department and assure that the onsite sewage system complies with the Regulations.	_____
K) Provide all required documentation to the Local County Health Department following completion of construction and obtain an Operation Permit for the onsite sewage system:	_____
L) Submit invoice to tovide@mppdc.com once Local Health Department has issued the Operations Permit. Include a copy of the completion statement and operations permit:	_____

Conventional Onsite Septic with Pump Installation Project (2023-MPPDC-01S)

Address: 24 Cove View Lane, Cobbs Creek, VA 23035

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-L) These are known factors. Vendors must invoice for actual cost incurred as described herein.

A) Construct an 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 onsite sewage disposal system in compliance with the Mathews County Health Department Construction Permit 157-23-038 at 24 Cove View Lane, Cobbs Creek, VA 23035 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 within 14 days of signing the Notice to Proceed. 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

D) 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 MPPDC in writing including an additional cost estimate

E) 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) Abandon any unused component of the former onsite sewage system as specified by the Mathews County Health Department Construction Permit 157-23-0038. Abandonment may also include removing unused sewer line and conveyance lines and crushing and filling the distribution box.

H) 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.

I) 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, Conventional Sewage Disposal System Contracting (CDS) or Alternative Sewage Disposal System (ADS) contracting specialty from DPOR and either Master Conventional Onsite Sewage System Installer license or Master Alternative Onsite Sewage System Installer License from DPOR, and proof of insurance. Bidders contacted by the Middle Peninsula Planning District Commission to provide any missing required documents, must provide the document within 24 business hours or their bid will be considered non-responsive.

J) Obtain a final installation inspection from the Mathews County Health Department and assure that the onsite sewage system complies with the Regulations.

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

L) submit invoice to tovide@mppdc.com once Local Health Department has issued the Operations Permit. Include a copy of the completion statement and operations permit.

Additional Services (If Needed) Bidder must contact Middle Peninsula Planning District Commission Project Manager listed on the Notice to Proceed for approval prior to any additional services performed. Middle Peninsula Planning District Commission 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: available upon request

Additional questions:

Contact Taylor Ovide via email: tovide@mppdc.com

Checklist

- Does your bid satisfy the provided permit?
- Did you include the if applicable the cost to pumpout the existing septic tank by a properly licensed sewage hauler within 14 days of signing the Notice to Proceed?
 - Are additional pumpouts needed and are costs included in bid? If multiple pumpouts are needed, preauthorization is needed.
 - If the drainfield is in the proposed work area, are additional pumpouts needed to dry drainfield prior to work?
- Is tree removal listed in the permit, appropriate in scope to complete the project, and placed in your bid? Additional treework outside of the permit needs to be addressed now and needs to be conveyed clearly.
- Do you provide, or subcontract with a licensed plumber and electrician, to provide plumbing and electrical required for the project?
- Are 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 included in your bid?
- Do you hold the appropriate DPOR licenses for contracting and executing the contract taking into consideration the specifics of this project? Did you include your DPOR licenses and submit them with your bid?
- Did you Itemize appropriately and bid everything listed on this scope of work and permits? For example, bids should provide a cost-breakdown per additional pumpout, and this amongst other things needs to be itemized.

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. MPPDC will provide a form for signature.

Bare Application Construction Permit Cover

March 22, 2023

Sewage Disposal System Repair Permit

Christopher Mayor
24 Cove View Ln
Cobbs Creek, VA 23035

Subject: Permit ID: 115-ST5-102161
Tax Map Number: MAT 10C-02-021 HDID# 157-23-0038
24 Cove View Ln Cobbs Creek, VA 23035

Dear Christopher Mayor:

The attached drawings, specifications, and calculations constitute your permit to install a sewage disposal system on the property referenced above. The attached schematic shows the approved area for the sewage disposal system. If modifications or revisions are necessary between now and when you construct your dwelling, please contact the Three Rivers Health District. Mathews Health Department 804-725-7131 No part of any installation shall be covered or used until inspected, and the sewage system may not be placed into operation until you have obtained an Operation Permit from the Three Rivers Health District.

The following documents will be required to obtain the Operation Permit:
System Inspection by the local Health Department
Satisfactory Contractor's Completion Statement

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 or well (if applicable). The owner is responsible at all times for complying with all applicable local, state, and federal laws and regulations.

This construction permit is transferable 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. This authorization to construct a sewage disposal system.

This Permit Expires: September 24, 2024

Issued by:


Patricia Dultry

OSE/PE Report For:

- Construction Permit
- Repair Permit
- Voluntary Upgrade Permit
- Certification Letter
- Subdivision Approval

Property Location:
 911 Address: 24 Cove View Lane, Cobbs Creek, VA 23035 City: Mathews
 Lot 21 Section N/A Subdivision N/A
 GPIN or Tax Map # 10C-2-21 Health Dept ID # 157-23-0038
 Latitude 37.48365 Longitude -76.35371

Applicant or Client Mailing Address:
 Name: Christopher Mayor
 Street: 24 Cove View Lane, Cobbs Creek VA 23035
 City: Mathews County State VA Zip Code 23035

Prepared by:
 OSE Name Patricia Duttry License # 1940001354
 Address PO Box 26, 536 Church Street,
 City Mathews State VA Zip Code 23035
 PE Name _____ License # _____
 Address _____
 City _____ State _____ Zip Code _____

Date of Report 03/17/2023 Date of Revision #1 _____
 OSE/PE Job # _____ Date of Revision #2 _____

Contents/Index of this report (e.g., Site Evaluation Summary, Soil Profile Descriptions, Site Sketch, Abbreviated Design, etc.)

Cover Letter pg-1, OSE Report pg-2	Pump Calculations pg-6, Pump Curve pg-7
System Specs pg-3, Const DWG pg-4	Soil Evaluation Form pg-8,
Pump Specs pg-5	Soil Evaluation Report pg-9

Certification Statement
 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 VACS-610), the Private Well Regulations (12 VACS-630), the Regulations for Alternative Onsite Sewage Systems (12VACS-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.

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

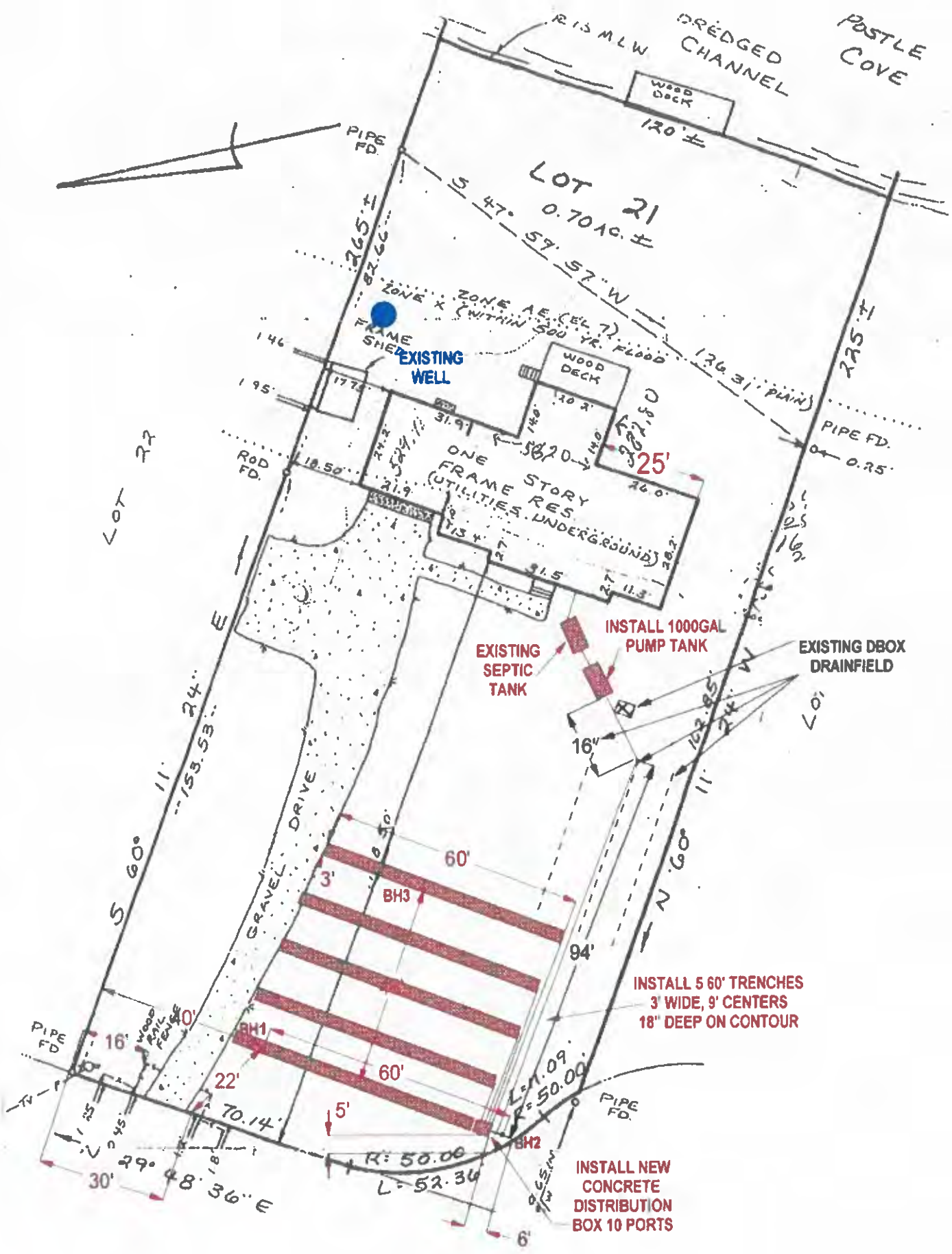
I recommend that a (select one): construction permit certification letter subdivision approval be (select one) Issued
 repair permit voluntary upgrade Denied

OSE/PE Signature Patricia Duttry Date 03/17/2023

System Specifications

VDH Use Only
HDIN: 157-23-0038

Application Information	
Name: <u>CHRISTOPHER MAYOR</u>	Address: <u>24 COVE VIEW LANE</u>
Phone: _____	
Location Information	
Tax Map/GPIN #: <u>10C-2-21</u>	Property Address: <u>24 COVE VIEW LANE</u>
Subdivision: _____	Section: _____ Block: _____ Lot: _____
Directions: <u>VA-198 (BUCHLEY HALL ROAD) TO ST. RTE. 736 TURN RIGHT ON COVE VIEW LANE</u>	
General Information	
Property Type (e.g. residential): <u>RESIDENTIAL</u>	Number of Bedrooms: <u>3</u>
Daily Flow: <u>450</u> gpd	Conditions: <u>NONE</u>
Notes: _____	
Sewer Line	
Diameter: <u>4</u> in. Material: <u>SCH 40 PVC</u> (or equivalent) Notes: <u>EXISTING</u>	
Pretreatment Unit(s)	
Treatment Level: <u>STE</u>	Septic Tank Capacity: <u>1000 EXISTING</u> gallons
Number of Septic Tanks: <u>1</u>	Size of Septic Tank(s): _____ gallons
Per the Sewage Handling and Disposal Regulations, check which option(s) chosen:	
<input type="checkbox"/> Septic tank with inspection port <input checked="" type="checkbox"/> Septic tank with effluent filter <input type="checkbox"/> Reduced maintenance septic tank	
Secondary treatment device(s), if applicable: <u>N/A</u>	
Notes: _____	
Conveyance Line	Distribution Method and Header Lines
Conveyance Method: <u>PUMP</u>	Distribution Method: <u>GRAVITY</u>
If pumping, include pump specifications sheet. <u>"</u>	No. of boxes: <u>1</u> No. of outlets: <u>10</u>
Material: <u>SCH 40 PVC</u> Diameter: <u>2</u>	Surge or splitter box required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Notes: _____	Header Line Material: <u>15001b CRUSH OR EQUIVALENT</u>
Percolation Lines/Absorption Area	
Dispersal Method (e.g. laterals, pad, mound): <u>TRENCHES</u>	
If using pressure dispersal (e.g. drip), include pressure dispersal specifications sheet.	
No. of laterals/pads: <u>5</u>	Length of lateral(s)/pad(s): <u>60</u> ft. Width of lateral(s)/pad(s): <u>36</u> in.
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>0</u> % Notes: _____	
Please Note: _____	



EXISTING SEPTIC TANK

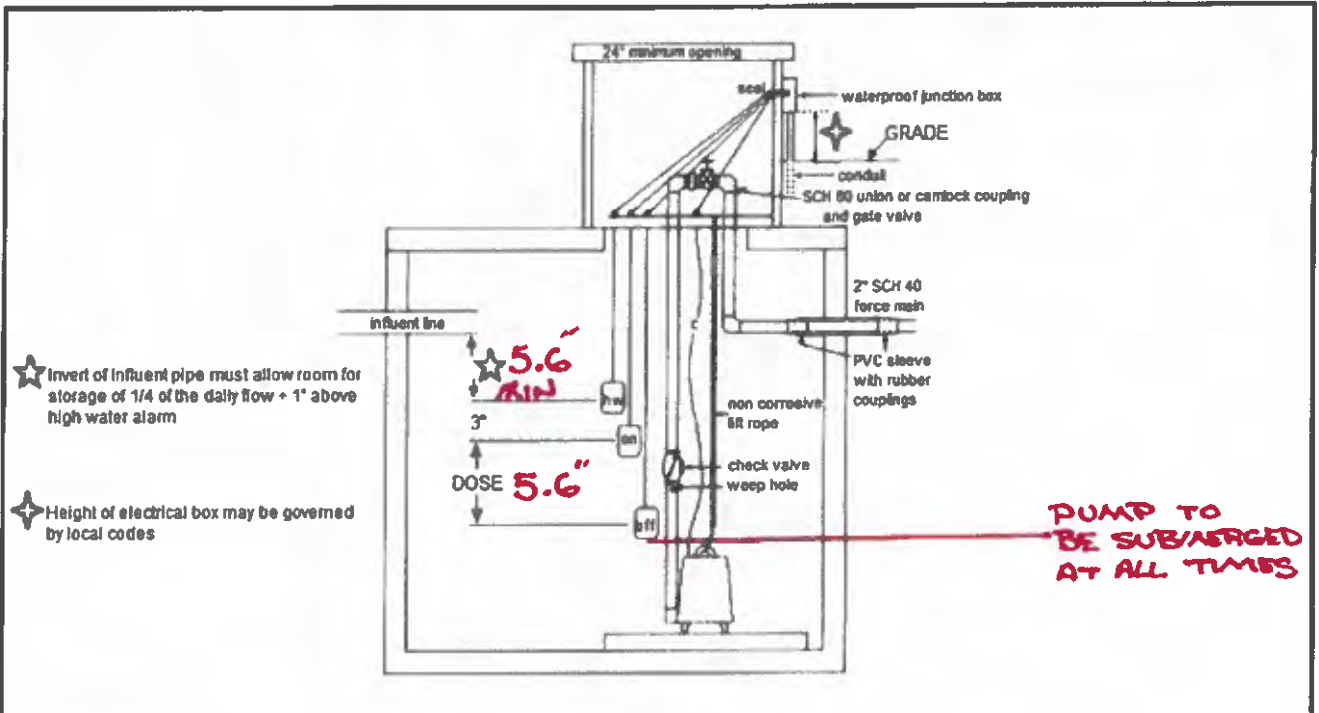
INSTALL 1000GAL PUMP TANK

EXISTING DBOX DRAINFIELD

INSTALL 5 60' TRENCHES
3' WIDE, 9' CENTERS
18" DEEP ON CONTOUR

INSTALL NEW
CONCRETE
DISTRIBUTION
BOX 10 PORTS

Pump Specifications



Pump Chamber Size: 1000 gallons Dose: 112.5 gallons

1/4 Day Storage: 112.5 gallons Drawdown: 5.6 inches

System Curve

Minimum Pump Capacity: 21 GPM Maximum Pump Cycle Time: 5.35 mins.

Maximum Pump Capacity: 84 GPM Minimum Pump Cycle Time: 1.33 mins.

Friction Head: 1.6 feet at 21GPM

Static Head: 7' feet

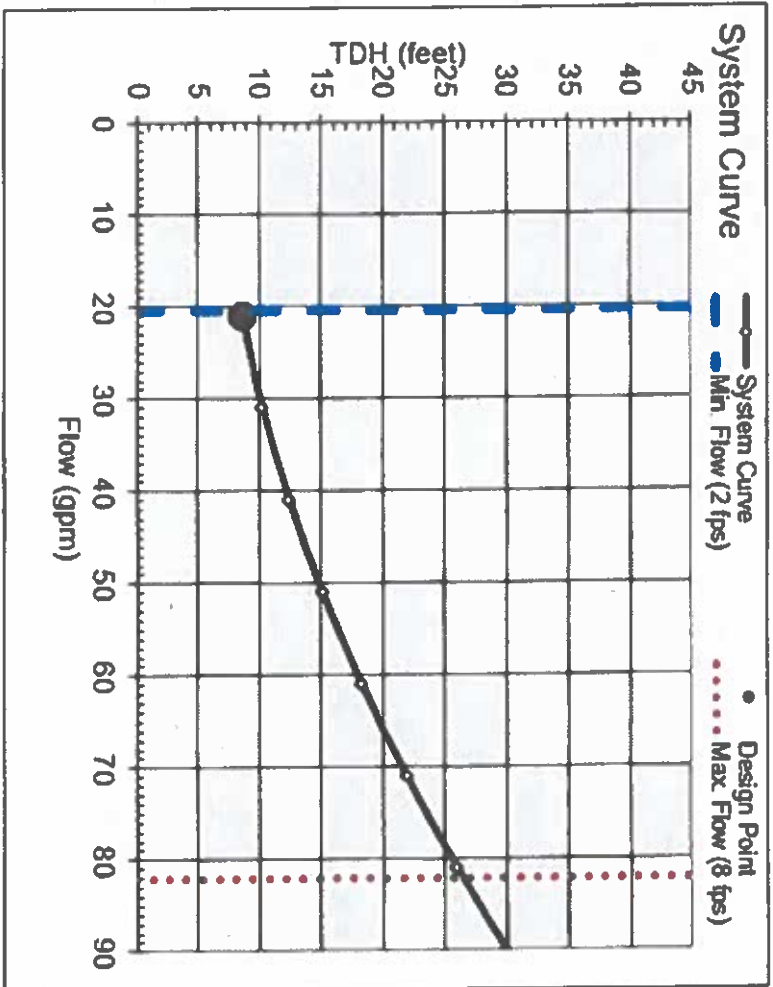
Total Dynamic Head: 8.6 feet at 21GPM

Static Head:	
Elevations:	
Pump Off:	0.00 ft
Discharge:	7.00 ft
Total Static Head:	7.00 ft
Pump Design:	
Design (Desired) Pump Flow:	21 gpm
Total Dynamic Head at Design Flow:	8.6 ft

Pipe Type	Nominal Diameter	Pipe Code
PVC - Sch 40	1 to 3 in.	1
PVC - Sch 80	1 to 3 in.	2
PVC - SDR 26	1 to 3 in.	3
HDPE - DR 11	1 to 2 in.	4

	Segment 1		Segment 2		Segment 3	
Nominal Pipe Diameter (in):	2					
Pipe Code (See table above to right):	1					
H-W Friction Coefficient (130-150):	130					
Actual Pipe Diameter (ft):	0.171		0.000		0.000	
Hydraulic Radius (ft):	0.043		0.000		0.000	
	#	EqL	#	EqL	#	EqL
Pipe Length (ft):	115	1.0	0	1.0	0	1.0
Miscellaneous Fittings:	0	1.0	0	1.0	0	1.0
2-Way Plug Valve - Full Open:	0	0.0	0	0.0	0	0.0
Gate Valve - Full Open:	1	1.3	0	0.0	0	0.0
Ball Valve - Full Open:	0	0.0	0	0.0	0	0.0
Globe Valve - Full Open:	0	0.0	0	0.0	0	0.0
Swing Check Valve - Full Open:	1	13.0	0	0.0	0	0.0
El - 90 deg:	2	5.1	0	0.0	0	0.0
El - 45 deg or 90 deg long radius:	1	2.7	0	0.0	0	0.0
El - 22.5 deg:	0	0.0	0	0.0	0	0.0
El - 11.25 deg:	0	0.0	0	0.0	0	0.0
Tee - Through Flow:	0	0.0	0	0.0	0	0.0
Tee - Branch Flow:	0	0.0	0	0.0	0	0.0
Air Release Valve:	0	0.0	0	0.0	0	0.0
Reduction from 1.25":	0	0.0	0	0.0	0	0.0
Reduction from 1.5":	0	0.0	0	0.0	0	0.0
Reduction from 2":	0	0.0	0	0.0	0	0.0
Reduction from 2.5":	0	0.0	0	0.0	0	0.0
Reduction from 3":	0	0.0	0	0.0	0	0.0
Increase to 1.25":	0	0.0	0	0.0	0	0.0
Increase to 1.5":	0	0.0	0	0.0	0	0.0
Increase to 2":	0	0.0	0	0.0	0	0.0
Increase to 2.5":	0	0.0	0	0.0	0	0.0
Increase to 3":	0	0.0	0	0.0	0	0.0
Total Equivalent Length (ft)	142.3		0.0		0.0	
Velocity at Design Flow (fps):	2.0		0.0		0.0	
Flow Velocity Check:	OKAY		N/A		N/A	

For System Curve Graph		
Initial Pump Flow (gpm):	21	
Pump Flow Interval (gpm):	10	
Pump Flow Range (gpm):	21.0	to 111.0



Soil Evaluation Form

Commonwealth of Virginia
Department of Health

Health Department
Identification Number _____
Tax Map Number _____

General Information

Date 03/17/2023 Health Department THREE RIVERS
Applicant CHRISTOPHER MAYOR Telephone No. 561-510-5102
Address 24 COVE VIEW LANE, COBBS CREEK VA 23035
Owner SAME Address SAME
Location SAME
Subdivision N/A Block/Section N/A Lot 21

Soil Information Summary

1. Position in landscape satisfactory Yes No Describe WOODED FLAT

2. Slope 0-1%

3. Depth to rock/impervious strata Max _____ Min _____ None

4. Depth to seasonal water table (gray mottling or gray color) No Yes 36 inches

5. Free water present No Yes 42" range in inches

6. Soil percolation rate estimated Yes No Texture group I II III IV
Estimated rate 35 min/inch

7. Percolation test performed Yes No Number of percolation test holes _____
Depth of percolation test holes _____
Average percolation rate _____

Name and title of evaluator ERIC THOMAS ENS Patricia M. Duster MAOSE
Signature [Signature] *1940001857

Department Use

Site Approved. Drainfield to be placed at 18" depth at site designated on permit.

Site Disapproved:

Reasons for rejection:

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 drainfield, and/or Reserve Area

6. Proposed system too close to well.

7. Other Specify _____

Date of Evaluation 03/17/2023

Profile Description
SOIL EVALUATION REPORT

Health Department
Identification No. 157-23-0038

Page 9 of 9

Where the local health department conducts the soil evaluation the location of profile holes may be shown on the schematic drawing on the construction permit or the sketch submitted with the application. If soil evaluations are conducted by a private soil scientist, location of profile holes and sketch of the area investigated including all structural features i.e., sewage disposal systems, wells, etc., within 100 feet of site (See section 4) and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

- See application sketch See construction permit See sketch on reverse side or page attached to this form.

Hole #	Horizon	Depth (Inches)	Description of, color, texture, etc.	Texture Group
BH1	AP	0-6"	10YR 3/2 LS	II
	Bt	6"-24"	10YR 5/3 SCL	II
	BC1	24"-42"	10YR 7/4 ^{10YR} WITH 7.5YR REDDY @ 36"	II
	BC2	42"-60"	10YR 6/6 SCL	II
BH2	AP	0-6"	10YR 3/2 LS } DROUGHT PAN	II
	AE	6"-16"	10YR 5/3 SCL 3"-16"	M
	Bt1	16"-24"	7.5YR 7/4 SCL	II
	Bt2	24"-36"	10YR 6/6 WITH 7.5YR 7/6 SCL	II
	BC	36"-60"	10YR 6/6 WITH 10YR 7/2 SCL REDDY	II
BH3	A	0-6"	10YR 4/3 SL	II
	BA	6-12"	10YR 5/4 SL	II
	Bt1	12"-18"	7.5YR 5/6 SCL	II
	Bt2	18"-36"	10YR 5/6 SCL	II
	BC	36-42"	10YR 5/6 SCL	II
		42"-60"	10YR 5/6 WITH 10YR 6/2 SCL - 7.5YR 5/6 DIFFUSE AND LARGE	II

Remarks

TO FACILITATE THE INSTALLATION OF REPAIR DRAINFIELD THE TREES IN THE DESCRIBED DRAINFIELD LOCATION MUST BE REMOVED

07/12/2023

ENVIRONMENTAL HEALTH SPECIALIST

E. A. THOMAS

