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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 30th, 2024.**

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

Onsite Sewage System Evaluation and Design Project (2022-ER-100S)

Address: 4545 Buckley Halle Rd, 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: | \$ |
| Itemized Included in Line 1: | |
| | Itemized Bid Cost |
| A) Conduct onsite sewage system site evaluations and submit onsite sewage system designs pursuant to all applicable laws and regulations: | \$ |
| B) Costs of Septic Pump-out by a licensed sewage hauler to appropriately evaluate the system (prior to all site and soil evaluations): | \$ |
| C) Provide or subcontract with a licensed Surveyor and mark the boundaries for all subject properties(this is only required if you find the attached survey inadequate): | \$ |
| D) Obtain an onsite sewage system repair permit for each of the subject properties from the applicable local health department (no LHD fee for the repair permit): | \$ |
| Additional Itemized Costs <u>NOT</u> Included In Line 1: | |
| 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; |
| I) Bidders shall comply with all requirements of DPOR for contracting and executing the contract with the MPPDC. | _____ |
| Must submit invoice to tovide@mppdc.com once Local Health Department has issued the Repair Permit.: | _____ |

Project #: 2022-ER-100S

Project Title: SWAP

Scope of Work – Onsite Sewage System Evaluation and Designs

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

A) Conduct onsite sewage system site evaluations and submit onsite sewage system designs pursuant to the Sewage Handling and Disposal Regulations (12VAC5-610-10 et. seq., the Regulations) and the Regulations for Alternative Onsite Sewage Systems (12VAC5-613-10 et. seq., the AOSS Regulations), and all other applicable state and local laws, regulations and ordinances for repair of existing onsite sewage systems. Site evaluations and design shall be submitted to the applicable local health department for the following properties:

- 4545 Buckley Hall Rd, Cobbs Creek, VA 23035 (2022-ER-100S)

Site evaluations and designs shall include property marking of all utilities, and review of all relevant records for neighboring parcels. Designs shall fully comply with the Regulations and AOSS Regulations; designs cannot rely upon the issuance of treatment or pressure dosing waivers for permitting.

B) Prior to all site and soil evaluations, the contractor shall have the contents of the existing septic tank serving the subject properties pumped by a properly licensed sewer hauler to allow for a complete malfunction assessment.

C) Provide or subcontract with a licensed surveyor to survey and mark the boundaries for all subject properties. Partial property boundary surveys of only the boundary closest to the proposed repair site are allowable for properties greater than 3 acres in size.

D) Obtain an onsite sewage system repair permit for each of the subject properties from the applicable local health department. Please note that all homeowners have already been determined to be fiscally eligible for a permit fee waiver so there will not be a cost associated with acquiring the repair permit.

E) 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 a Master Alternative Onsite Soil Evaluator license from DPOR.

Optional site visit: Available upon request.

Additional questions:

Contact Taylor Ovide via email: tovide@mppdc.com or phone at 804-758-2311



THREE RIVERS HEALTH DISTRICT
P.O. BOX 415
SALUDA, VIRGINIA 23149

June 22, 2023

Clay A. Walker, Jr.
4545 Buckley Hall Rd.
Cobbs Creek, VA 23035

Certified Mail 7021 0350 0002 0034 3888

RE: Tax Map: 5-8-A; Mathews County
HDID: 157-22-0065; EHD ID: 115-STS-98880
Physical Address: 4545 Buckley Hall Rd, Cobbs Creek, VA

Dear Mr. Walker:

This letter is to inform you that the Mathews County Health Department has evaluated your application for a sewage disposal system permit filed on May 16, 2022.

Unfortunately, we are not able to issue a Construction Permit at this time.

The reason for denial is:

Insufficient depth of suitable soil to the seasonal water table for the design of a conventional onsite sewage system. Soils indicate the need for an Alternative Onsite Sewage System (AOSS) requiring design by an Onsite Soils Evaluator or Professional Engineer (OSE or PE).

This decision is based on the information filed with your application. Site and soil evaluations were made in accordance with the *Sewage Handling and Disposal Regulations*, the *Private Well Regulations*, the *Alternative Onsite Sewage System Regulations*, as well as current agency policy.

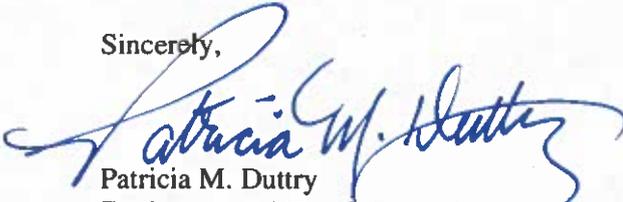
In accordance with 12 VAC 5-610-230 of the *Sewage Handling and Disposal Regulations* you have the right to appeal this decision. Your written request for appeal must be received within **thirty (30) days** from the date you receive this letter. Please include any facts or other data that would support your appeal.

It is also acceptable to re-apply within 90 days of receipt of this letter without paying a second state fee. After 90 days, a new application fee will be required. When denied for any reason, re-application without a state fee within 90 days may include any change up to and including a new site. Please be certain that the re-application documents are complete and follow all applicable regulations and policies to avoid another denial.

This denial, along with the soil evaluations that were conducted are being provided to the SWAP program so that it can be determined if funds are available for design, permitting, and construction of a repair sewage disposal system through that program. Your application was submitted during Phase I of the program, when design work was not yet possible. Hopefully this program will be able to assist you.

If you have any questions or if this office may be of further service, please let us know.

Sincerely,



Patricia M. Duttry
Environmental Health Supervisor



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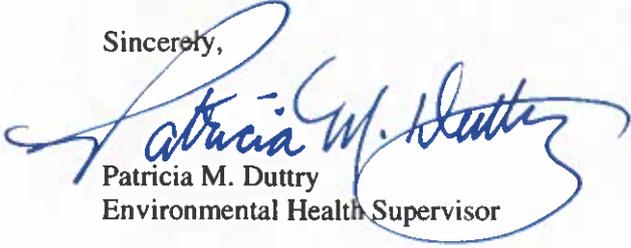
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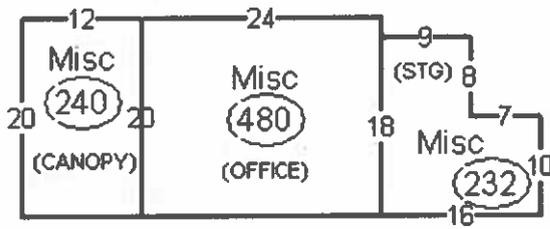
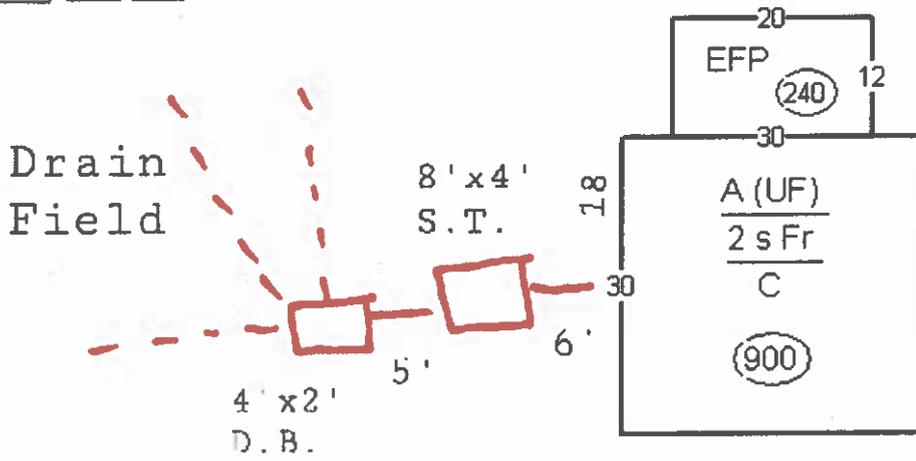
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04 05 06



Soil Evaluation Form

PAGE _____ OF _____

Commonwealth of Virginia
Department of Health

Health Department
Identification Number 157-22-0065
Tax Map Number 5-8-A

General Information

Date 07/01/2022 MATHEWS Health Department
Applicant CLAY A. WALKER JR. Telephone No. _____
Address 4545 BUCKLEY HALL ROAD, COBBS CREEK VA 23035
Owner _____ Address _____
Location _____
Subdivision _____ Block/Section _____ Lot _____

Soil Information Summary

1. Position in landscape satisfactory Yes No Describe BROAD FLAT
2. Slope 0-.5 %
3. Depth to rock/impervious strata Max _____ Min _____ None
4. Depth to seasonal water table (gray mottling or gray color) No Yes 24 inches II 12 III 18
5. Free water present No Yes _____ range in inches
6. Soil percolation rate estimated Yes Texture group II III IV
No Estimated rate 40 min/inch
7. Percolation test performed Yes Number of percolation test holes _____
No Depth of percolation test holes _____
Average percolation rate _____

Name and title of evaluator Eric Thomas, Carter Visoman, Patricia Duttry, MAOSE

Signature: Patricia Duttry

Repair

Department Use

Site Approved: Drainfield to be placed at 6" MAX depth at site designated on permit.

Site Disapproved:

TL-3, Disinfection, Reduction
or TL-2 @ 0" or Above grade, Reduction

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 07/01/2022

Profile Description
SOIL EVALUATION REPORT

Health Department
Identification No. 157-22-0065

Page _____ of _____

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 |
|--------|---------|-----------------------------------|---|---------------|
| I | | 4-6 | 2.5Y 4/2 | SL II |
| | | 6-12 | 2.5Y 4/2 FC CONCRETION (10YR 3/4) | SCL II |
| | | 12-18 | 2.5Y 4/1 | SCL II |
| | | 18-24 | 2.5Y 5/4 5/3 | SL II |
| | | 24-30 | 2.5Y 5/4 10YR 7/8 DIFFUSE RED OX | SL II |
| | | 30-36 | 2.5Y 4/4 2.5Y 7/6 10YR 6/8 | SL II |
| | | 36-42 | 2.5Y 6/8 2.5Y 4/2 10YR 6/8 | SL II |
| | | 42-48 | 10YR 5/8 MATRIX 7YR 6/8 FC MOTTLES | SL II |
| II | | 4-6 | 2.5Y 4/2 | SL II |
| | | 6-12 | 2.5Y 4/2 2.5Y 4/3 (FC CONCRETION) 7.5YR 3/4 | SL II |
| | | 12-18 | 2.5Y 3/1 | SL II |
| | | 18-22 | 2.5Y 3/1 | CL II |
| | | 22-26 | 2.5Y 6/1 5/1 | CL II |
| | | 26-30 | 2.5Y 6/6 | |
| III | | 0-6 | 2.5Y 5/4 | SL II |
| | | 6-12 | 2.5Y 4/3 7.5YR 4/6 Fe | SL II |
| | | 12-18 | 2.5Y 4/3 2.5Y 5/3 | SCL II |
| | | 18-24 | 2.5Y 5/2 2.5Y 6/4 | SCL II |
| | | 24-30 | mg 2.5Y 3/2 2.5Y 5/6 Fe 10YR 6/8 | SCL II |
| | 30-36 | 10YR 5/8 10YR 6/8 (HEAVY CLAY) | | |

Remarks

Date of Evaluation _____

Profile Description
SOIL EVALUATION REPORT

Health Department
Identification No. _____

Page _____ of _____

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| Hole # | Horizon | Depth (Inches) | Description of, color, texture, etc. | Texture Group |
|--------|---------|-------------------------------------|---|-----------------------|
| 1 | AP | 4-6 | 2.5Y 4/2 | Sandy loam (2) |
| | B+ | 6-12 | 2.5Y 4/2, iron concretions (10YR 3/4) | 2 (heavy sandy loam) |
| | B+ | 12-18 | 2.5Y 4/1 | II SCL (2) clay loam |
| | B/C | 18-24 | 2.5YR 7/4 5/3 | II SL |
| | | 24-30 | 2.5YR 2/4 5/1, 10YR 7/6 (diffuse) relox | II SL |
| | | 30-36 | 2.5YR 4/4, 2.5Y 7/6, 10YR 6/8 | II SL |
| | | 36-42 | 2.5Y 6/8, 2.5Y 4/2, 10YR 6/8 | II SL |
| | 42-48 | 10YR 5/8 (mottled) / 7YR 6/8 (iron) | II Sandy loam | |
| 2 | Ap | 0-6 | 2.5Y 4/2 | Sandy loam |
| | B+ | 6-12 | 2.5Y 4/2 | HSL |
| | | 12-18 | 2.5Y 4/3, IRON CONCRETION | SCL |
| | | 18-22 | 7.5YR 3/4 | Sandy clay loam |
| | | 22-26 | 2.5Y 3/1 | Clay loam |
| | | 26-30 | 2.5Y 6/1 5/1 | Clay loam |
| | | 30-36 | 2.5Y 6/1 | Clay loam |
| 3 | Ap | 0-6 | Too hard, possibly compacted | |
| 4 | Ap | 0-6 | 2.5Y 5/4 | Sandy loam (2) |
| | B+ | 6-12 | 2.5Y 4/3, 7.5YR 4/6 (iron) | Sandy clay loam heavy |
| | | 12-18 | 2.5Y 4/3 | SCL |
| | | 18-24 | 2.5Y 5/3 | SCL |
| | | 24-30 | 2.5Y 5/2 | SCL |
| | | 30-36 | 2.5Y 6/4 | SCL |
| | | 36-42 | 2.5Y 3/2 | SCL |
| 5 | AP | 0-6 | 2.5Y 4/3 | Sandy clay loam |
| | | 6-12 | 2.5Y 4/3 | Sandy clay loam |
| | | 12-24 | 2.5Y 4/3 | med. Sandy clay loam |
| | | 24-30 | 2.5Y 6/1 (mottled), 2.5Y 6/8 (iron) | Very sandy loam (4-5) |
| | | 30-36 | 10YR 5/8 | SL |
| 6 | AP | | 10YR 6/8 | SL |
| 7 | AP | | HEAVY CLAY | |

Remarks

313
09

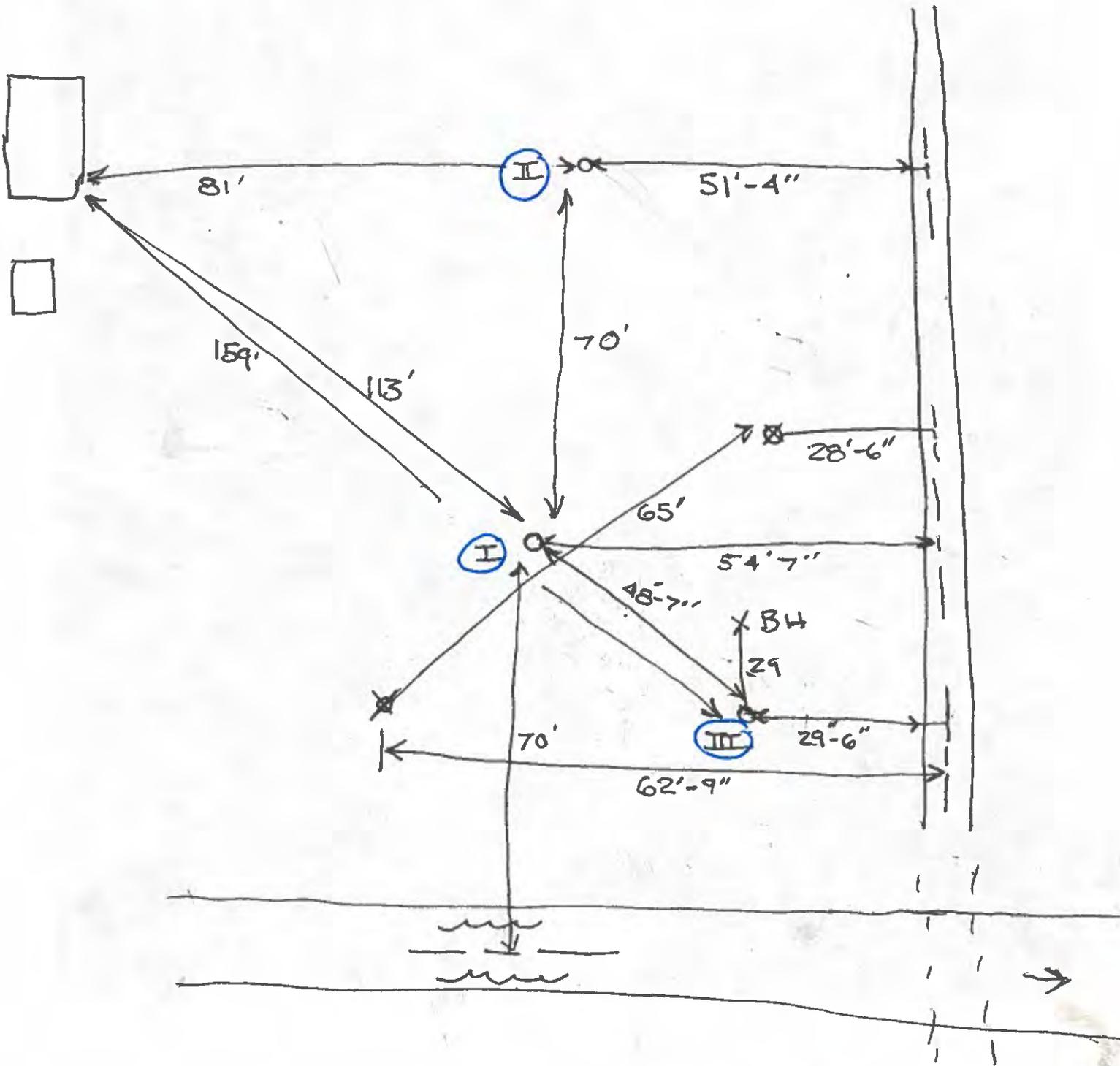
07/01/2022

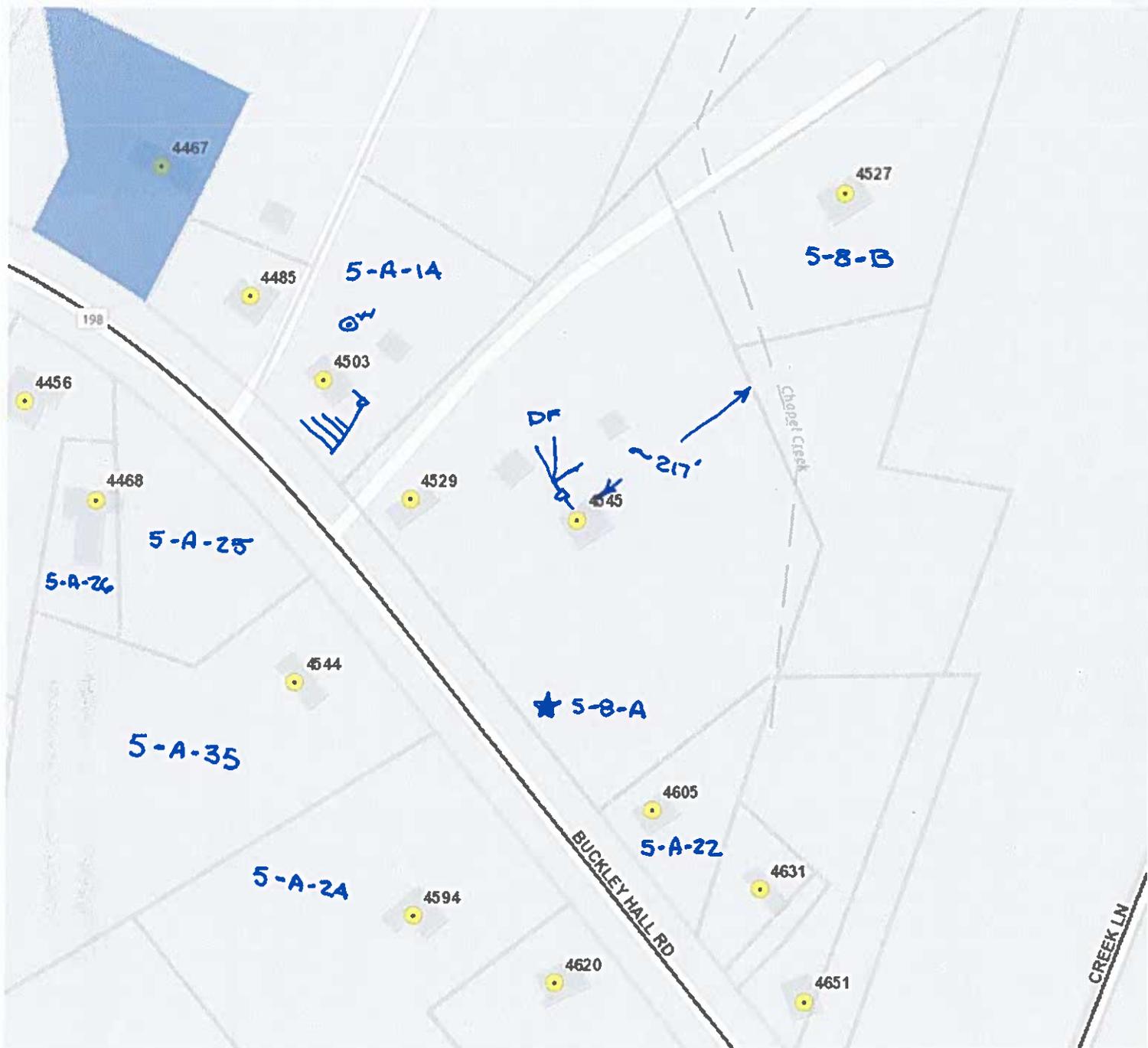
4545 BUCKLEY HALL ROAD

BARE APPLICATION

INITIAL VISIT

elf





★ 5-8-A NOTHING VERY ACCURATE IN FILE.

5-A-22

5-A-14

5-8-B

SANITARY SURVEY PURPOSE ONLY

Sewage Disposal System Construction Permit

PAGE 1 OF 3

Commonwealth of Virginia
Department of Health



Health Department
Identification Number 57-89-237
Map Reference 5-A-22

MATTHEWS Health Department

George T. Ward General Information

New Repair Expanded Conditional FHA VA Case No. _____

Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:

Owner GEORGE WARD Telephone 725-5168

Address Box 103 Cobbs Creek

For a Type TL Sewage disposal system which is to be constructed on/at Rt 198 W of C.H. → ON R JUST BEFORE CANNON'S OIL CO. → GRAY of CYCLOWE PA

Subdivision N/A Section/Block _____ Lot _____

Actual or estimated water use 300 EPD / 2 BEDROOMS

| DESIGN | NOTE: INSPECTION RESULTS |
|---|--|
| Water supply, existing: (Describe) <u>10' DEEP</u> | Water supply location: Satisfactory yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments _____ |
| To be installed: class _____ cased _____ grouted _____ | G. W. 2 Received: yes <input type="checkbox"/> no <input type="checkbox"/> not applicable <input checked="" type="checkbox"/> |
| Building sewer: <u>4"</u> I.D. PVC 40, or equivalent. Slope 1.25" per 10' (minimum). <input type="checkbox"/> Other _____ | Building sewer: yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments Satisfactory |
| Septic tank: Capacity <u>750</u> gals. (minimum). <input type="checkbox"/> Other _____ | Pretreatment unit: yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments Satisfactory |
| Inlet-outlet structure: PVC 40, 4" tees or equivalent. <input type="checkbox"/> Other _____ | Inlet-outlet structure: yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments Satisfactory |
| Pump and pump station: <u>SEE P. 3143</u> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> describe and show design. if yes: _____ | Pump & pump station: yes <input type="checkbox"/> no <input type="checkbox"/> comments Satisfactory <u>RAISED NOT USED - BDE. S</u> |
| Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent. <input checked="" type="checkbox"/> Other <u>1 1/2" SCH 40 TIC FORCE MAIN</u> | Conveyance method: yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments Satisfactory |
| Distribution box: Precast concrete with <u>6</u> ports. <input type="checkbox"/> Other _____ | Distribution box: yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments Satisfactory |
| Header lines: Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench. Slope 2" minimum. <input type="checkbox"/> Other _____ | Header lines: yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments Satisfactory |
| Percolation lines: Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'. <input type="checkbox"/> Other _____ | Percolation lines: yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments Satisfactory |
| Absorption trenches: Square ft. required <u>405</u> ; depth from ground surface to bottom of trench <u>18"</u> , aggregate size <u>DOT #5 OR 57</u> Trench bottom slope <u>2-4" / 100'</u> ; center to center spacing <u>9'</u> ; trench width <u>3'</u> Depth of aggregate <u>13"</u> ; Trench length <u>25'</u> ; Number of trenches <u>3</u> | Absorption trenches: yes <input checked="" type="checkbox"/> no <input type="checkbox"/> comments Satisfactory |
| Date <u>8-29-89</u> Inspected and approved by: <u>[Signature]</u> Sanitarian | |

Schematic drawing of sewage disposal system and topographic features.

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.

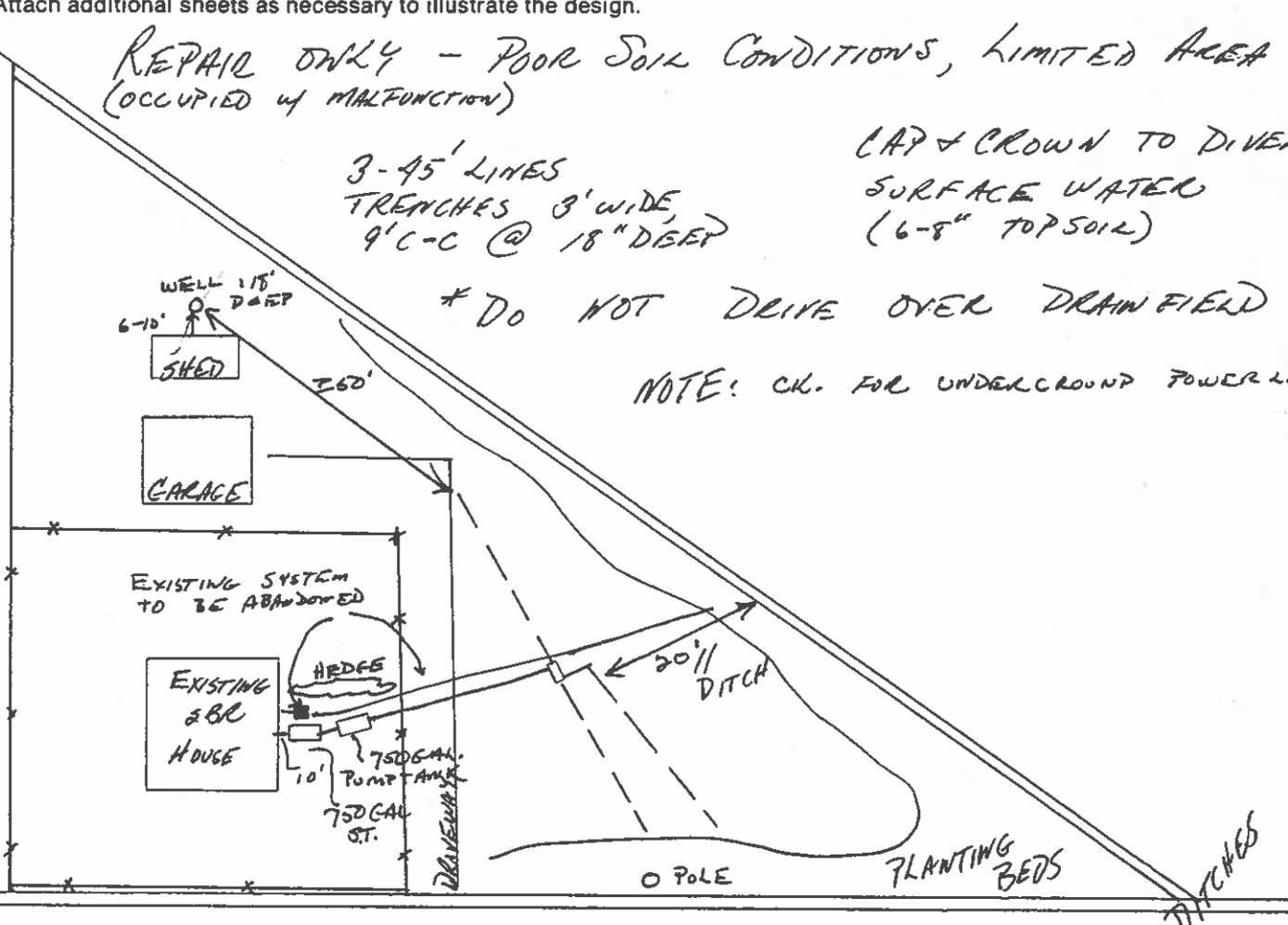
REPAIR ONLY - POOR SOIL CONDITIONS, LIMITED AREA (OCCUPIED BY MALFUNCTION)

*3-45' LINES
 TRENCHES 3' WIDE,
 9' C-C @ 18" DEEP*

*CAP & CROWN TO DIVER
 SURFACE WATER
 (6-8" TOP SOIL)*

** DO NOT DRIVE OVER DRAIN FIELD*

NOTE: CK. FOR UNDERGROUND POWER L.



The sewage disposal system is to be constructed as specified by the permit or attached plans and specifications

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

Date: July 21, 1989 issued by: [Signature]
 Sanitarian

Date: 8-2-89 Reviewed by: [Signature]
 Supervisory Sanitarian

This Construction Permit Valid until 7-21-1994

If FHA or VA financing

Reviewed by Date _____ Date _____

Supervisory Sanitarian

Regional Sanitarian

Sewage Disposal System Construction Permit

Commonwealth of Virginia
Department of Health



Health Department
Identification Number 157-88-104
Map Reference 5-A-14

MATHIAS Health Department

General Information

New Repair Expanded Conditional FHA VA Case No. _____
Based on the application for a sewage disposal system construction permit filed in accordance with Section 3.13.01, a construction permit is hereby issued to:
Owner MELVIN + VA GERMAN Telephone 725-7031
Address BLAKES VA c/o MIKE POWE MATHIAS VA
For a Type I Sewage disposal system which is to be constructed on/at RT 198 on @ house
just past Cannon Oil Service
Subdivision _____ Section/Block _____ Lot _____
Actual or estimated water use 300 GPD - 2 BDRM ONLY

DESIGN

NOTE: INSPECTION RESULTS

Water supply, existing: (describe) CITY
To be installed: class _____
cased _____ grouted _____

Water supply location: Satisfactory yes no
comments _____
G.W.2 Received: yes no not applicable

Building sewer:
4 I.D. PVC 40, or equivalent.
Slope 1.25" per 10' (minimum).
 Other _____

Building sewer: yes no comments
Satisfactory

Septic tank: Capacity 750 gals. (minimum)
 Other RECOMMEND 900 GAL

Pretreatment unit: yes no comments
Satisfactory

Inlet-outlet structure:
PVC 40, 4" tees or equivalent.
 Other _____

Inlet-outlet structure: yes no comments
Satisfactory

Pump and pump station:
No Yes describe and shown design.
if yes: _____

Pump & pump station: yes no comments
Satisfactory N/A

Gravity mains: 3" or larger I.D., minimum 6" fall per 100', 1500 lb. crush strength or equivalent.
 Other _____

Conveyance method: yes no comments
Satisfactory

Distribution box:
Precast concrete with 8-10 ports.
 Other _____

Distribution box: yes no comments
Satisfactory

Header lines:
Material: 4" I.D. 1500 lb. crush strength plastic or equivalent from distribution box to 2' into absorption trench.
Slope 2" minimum.
 Other _____

Header lines: yes no comments
Satisfactory

Percolation lines:
Gravity 4" plastic 1000 lb. per foot bearing load or equivalent, slope 2" 4" (min. max.) per 100'.
 Other _____

Percolation lines: yes no comments
Satisfactory

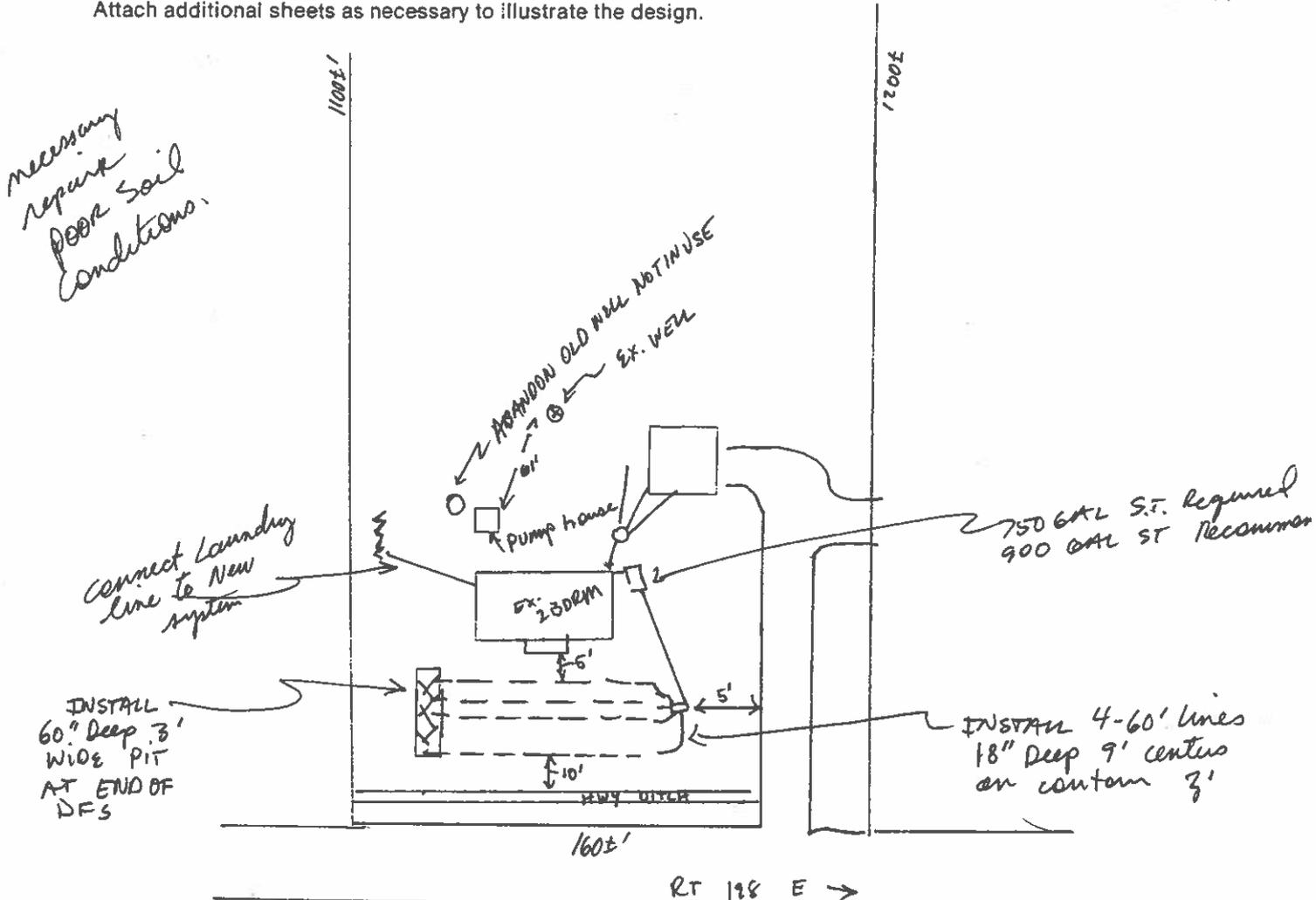
Absorption trenches: 720
Square ft. required 720; depth from ground surface to bottom of trench 18"; aggregate size VDH 50157;
Trench bottom slope 2-4" per 100';
center to center spacing 8'; trench width 24"
Depth of aggregate 13";
Trench length 60; Number of trenches 4
ADD PITS AS PER PG 2

Absorption trenches: yes no comments
Satisfactory
Date 6.7.88 Inspected and approved by:
William J. Meyer
Sanitarian

Schematic drawing of sewage disposal system and topographic features.

Show the lot lines of the building lot and building site, sketch of property showing any topographic features which may impact on the design of the system, all existing and/or proposed structures including sewage disposal systems and wells within 100 feet of sewage disposal system and reserve area. The schematic drawing of the sewage disposal system shall show sewer lines, pretreatment unit, pump station, conveyance system, and subsurface soil absorption system, reserve area, etc. When a nonpublic drinking water supply is to be located on the same lot show all sources of pollution within 100 feet.

The information required above has been drawn on the attached copy of the sketch submitted with the application. Attach additional sheets as necessary to illustrate the design.



The sewage disposal system is to be constructed as specified by the permit or attached plans and specifications .

This sewage disposal system construction permit is null and void if (a) conditions are changed from those shown on the application (b) conditions are changed from those shown on the construction permit.

No part of any installation shall be covered or used until inspected, corrections made if necessary, and approved, by the local health department or unless expressly authorized by the local health dept. Any part of any installation which has been covered prior to approval shall be uncovered, if necessary, upon the direction of the Department.

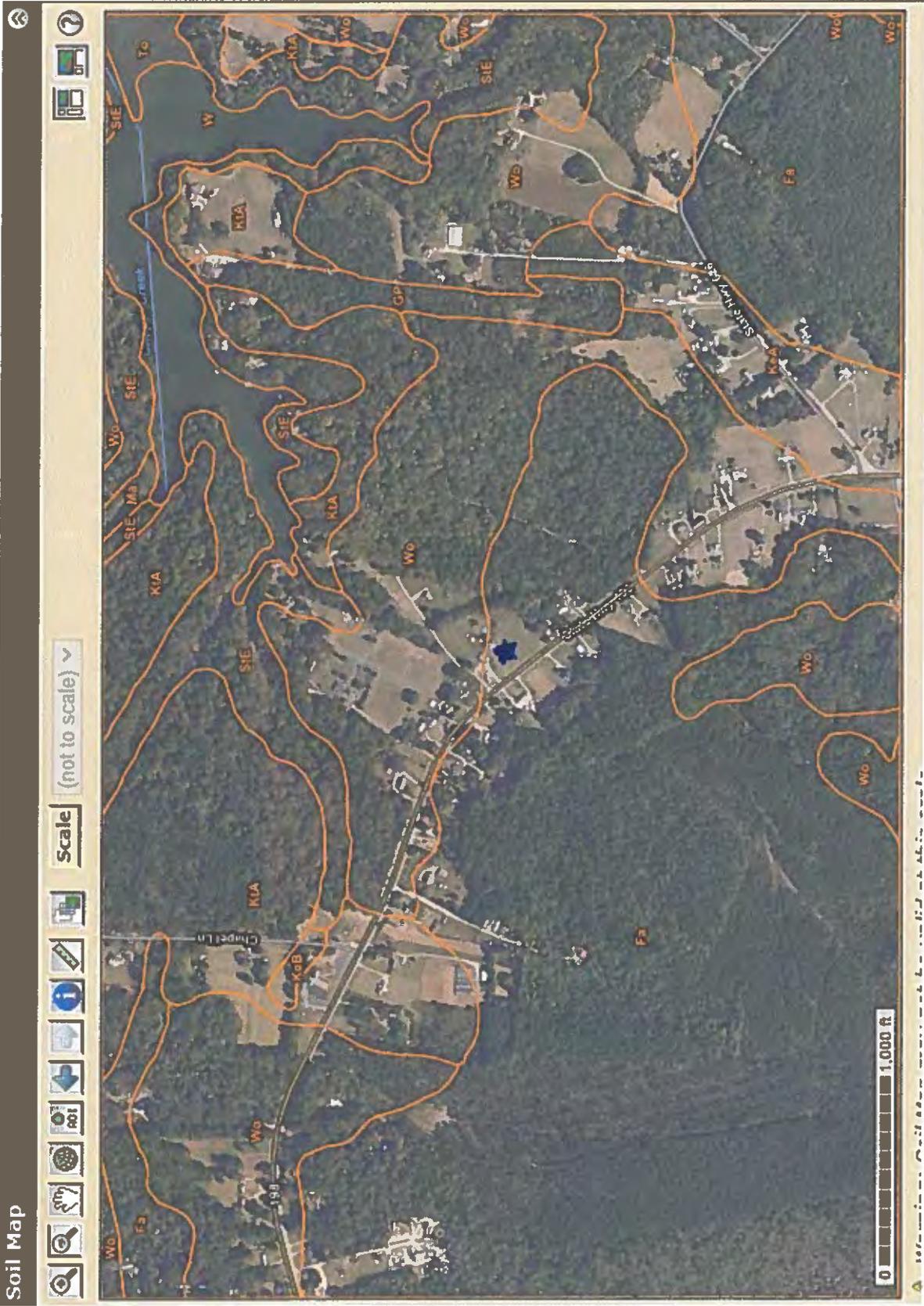
Date: 3-21-88 Issued by: William J. Meagher
 Sanitarian

Date: 4-6-88 Reviewed by: [Signature]
 Supervisory Sanitarian

This Construction Permit Valid until 9-21-1992

If FHA or VA financing

Reviewed by Date _____ Date _____



FALSLINGTON FINE SANDY LOAM
 WOODSTOWN FINE SANDY LOAM

MAP LEGEND

| | | | |
|--|------------------------|--|-----------------------|
| | Area of Interest (AOI) | | Soil Area |
| | Soils | | Stony Spot |
| | Soil Map Unit Polygons | | Very Stony Spot |
| | Soil Map Unit Lines | | Wet Spot |
| | Soil Map Unit Points | | Other |
| | Special Point Features | | Special Line Features |
| | Blowout | | |
| | Borrow Pit | | |
| | Clay Spot | | |
| | Closed Depression | | |
| | Gravel Pit | | |
| | Gravelly Spot | | |
| | Landfill | | |
| | Lava Flow | | |
| | Marsh or swamp | | |
| | Mine or Quarry | | |
| | Miscellaneous Water | | |
| | Perennial Water | | |
| | Rock Outcrop | | |
| | Saline Spot | | |
| | Sandy Spot | | |
| | Severely Eroded Spot | | |
| | Sinkhole | | |
| | Slide or Slip | | |
| | Sodic Spot | | |
| | Water Features | | |
| | Streams and Canals | | |
| | Transportation | | |
| | Rails | | |
| | Interstate Highways | | |
| | US Routes | | |
| | Major Roads | | |
| | Local Roads | | |
| | Background | | |
| | Aerial Photography | | |

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mathews County, Virginia
Survey Area Data: Version 13, Sep 14, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 11, 2019—Oct 15, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|-----------------------------|--------------|----------------|
| Fa | Fallsington fine sandy loam | 15.4 | 53.0% |
| Wo | Woodstown fine sandy loam | 13.7 | 47.0% |
| Totals for Area of Interest | | 29.1 | 100.0% |



Mathews County, Virginia

Wo—Woodstown fine sandy loam

Map Unit Setting

National map unit symbol: 40bv
Elevation: 10 to 120 feet
Mean annual precipitation: 40 to 48 inches
Mean annual air temperature: 50 to 57 degrees F
Frost-free period: 180 to 215 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Woodstown and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Woodstown

Setting

Landform: Marine terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy marine deposits

Typical profile

H1 - 0 to 9 inches: fine sandy loam
H2 - 9 to 35 inches: sandy clay loam
H3 - 35 to 60 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat):
Moderately high to high (0.20 to 1.98 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2v
Hydrologic Soil Group: C
Hydric soil rating: No

**Mathews County, Virginia****Fa—Fallsington fine sandy loam****Map Unit Setting**

National map unit symbol: 40bb
Elevation: 0 to 200 feet
Mean annual precipitation: 40 to 48 inches
Mean annual air temperature: 50 to 57 degrees F
Frost-free period: 180 to 215 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Fallsington and similar soils: 85 percent
Minor components: 8 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fallsington**Setting**

Landform: Marine terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy marine deposits

Typical profile

H1 - 0 to 8 inches: fine sandy loam
H2 - 8 to 37 inches: sandy clay loam
H3 - 37 to 93 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat):
Moderately high to high (0.20 to 1.98 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: High (about 9.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Minor Components**Elkton**

Percent of map unit: 8 percent
Landform: Marine terraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: Yes

Area of Interest (AOI) | Soil Data Explorer | Download Soils Data | Shopping Cart (Free) | Add to Shopping Cart | Printable Version

Soil Map

Scale: [not to scale]

Warning: Soil Map may not be valid at this scale.

Search

Basic Search: Enter keywords [] Search

Advanced Search: [] Clear Search

Map Unit Legend

Mathews County, Virginia (VA115)

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|-----------------------------|--------------|----------------|
| Fa | Fallsington fine sandy loam | 10.8 | 69.2% |
| Wo | Woodstown fine sandy loam | 4.8 | 30.8% |
| Totals for Area of Interest | | 15.6 | 100.0% |