



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

OSE Construction Permit

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

April 21, 2017

Sunnyside Development of Grafton, LLC
118 Anchor Ln.
Yorktown, VA 23692

RE: TBA Pine Mill , Gloucester, VA 23061
Tax Map/GPIN: 22E-6-10 (Gloucester County)
HDID: 136-17-0124 **Reserve:** 100% reserve area provided
System Capacity: Residential, 4 Bedrooms, 600 gallons per day

Dear Sunnyside Development of Grafton:

This letter and the attached drawings, specifications, and calculations (16 pages) dated April 15, 2017, constitute your permit to install a sewage disposal system and well 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"), sewage system design, and the well location and construction were certified by Hancock, Brian D. Private OSE 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 plat shows 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.

If modifications or revisions are necessary between now and when you construct your dwelling, please contact the OSE/PE who performed the evaluation and design on which this permit is based. Should revisions be necessary during construction, your contractor should consult with the OSE/PE that submitted the site evaluation or site evaluation and design. The OSE/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 OSE/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 OSE/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 OSE/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 OSE/PE as noted herein. The sewage system may not be placed into operation until you have obtained an Operation Permit from the Gloucester County Health Department.

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. If you have any questions, please contact me.

This sewage system construction permit expires: **October 21, 2018**. The well construction permit expires: October 21, 2021. This permit is not transferable to another owner or location.

Sincerely,



Tammy Faulkner
Environmental Health Specialist, Sr.
Gloucester County Health Department

CC: Hancock, Brian D. Private OSE

WHAT YOU WILL NEED TO GET YOUR SEPTIC SYSTEM OPERATION PERMIT

- Your system must have a **satisfactory inspection** at the time of installation. This will be done by either a representative of the local Health Department, a private OSE, or a PE, depending on the designer of your permitted system. If your system is designed/inspected by an OSE or PE, they must submit a copy of the inspection results, complete with an as-built diagram, to the Health Department.
 - Please ensure that your contractor turns in a **Completion Statement** to the local Health Department after installation.
 - Your well must have **satisfactory inspection** results after installation. Please give the Health Department several days notice to schedule this inspection before your Operation Permit will be requested.
 - The Health Department must receive a copy of your **water sample test result** being negative/satisfactory for coliform bacteria. You are responsible for performing this test and ensuring the results are received at the Health Department
 - Please ensure that your Well Driller submits a Uniform **Water Well Completion Statement or GW-2** to the Health Department, including documentation of a proper well abandonment if required by permit
- Allow 5 business days after the last piece of documentation is received for the Operation Permit to be issued. To avoid delays, clearly label each piece of documentation with the property Tax Map/GPIN number and HDID number shown above and on your construction permit.

If you have any questions about any of the items on this list, please do not hesitate to contact the Gloucester County Health Department at (804) 693-6130.

Level I & II Review Form

Tax Map/GPIN #: 22E-6-10
 Reviewer: Tammy Faulkner

HDID: 136-17-0124
 Print Form Date: April 21, 2017

Level I Review

| Date of Level I Review: | IN ¹ | OUT ² | N. O. ³ | N. A. ⁴ | Comments |
|--|-----------------|------------------|--------------------|--------------------|---|
| Location | | | | | |
| Site features affecting well & septic system location identified | 1 | | | | |
| Landscape position indicated | 1 | | | | side slope |
| Absorption Area | 1 | | | | |
| House site located | | | | | |
| Other: | 1 | | | | |
| Separation distance adequate | 1 | | | | Neighboring well s at front of property. SDS in back of proposed dwelling |
| Adequate triangulation / scale | 1 | | | | |
| Depth | | | | | |
| Limiting factors (or lack of) noted | 1 | | | | SWT 54" |
| Depth adequate for slope | 1 | | | | 4% |
| Depth adequate for limiting factors | 1 | | | | SWT 54" |
| Timed-Dosing specified (if required) | 1 | | | | |
| Capacity | | | | | |
| Absorption area adequately evaluated (number and location of borings / pits) | 1 | | | | 5 profiles cover P & R |
| Design flow adequate for intended use | 1 | | | | 4-bedroom |
| Adequate trench area, based on flow & estimate / measured perc rate | 1 | | | | SHDR LR .74, 780 req'd for gravel-less, 810 provided |
| Adequate footprint area (including reserve area, if required) | 1 | | | | 100% provided |
| Treatment | | | | | |
| Treatment level specified | 1 | | | | conventional , 6 - 45' lines, EZ Flow |
| Treatment level adequate for specified absorption area depth | 1 | | | | TB 36", SWT 54" 18" separation. |
| Treatment capacity adequate for design flow | 1 | | | | Septic Tank |

Level II Review - The site and soil evaluation was consistent with the 2006 subdivision evaluation by Harold Matehws.

| Date of Level II Review: | IN | OUT | N. O. | N. A. | Comments |
|--|----|-----|-------|-------|----------|
| Location | | | | | |
| Site features affecting location adequately identified | | | | | |
| Separation distances adequate | | | | | |
| Landscape position identified & adequate | | | | | |
| Slope adequately identified | | | | | |
| Depth | | | | | |
| Depth to limiting factors adequate (A) | | | | | |
| Capacity | | | | | |
| Estimated per rate adequate (A) | | | | | |
| Treatment | | | | | |
| Correct level of treatment indicated | | | | | |

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.

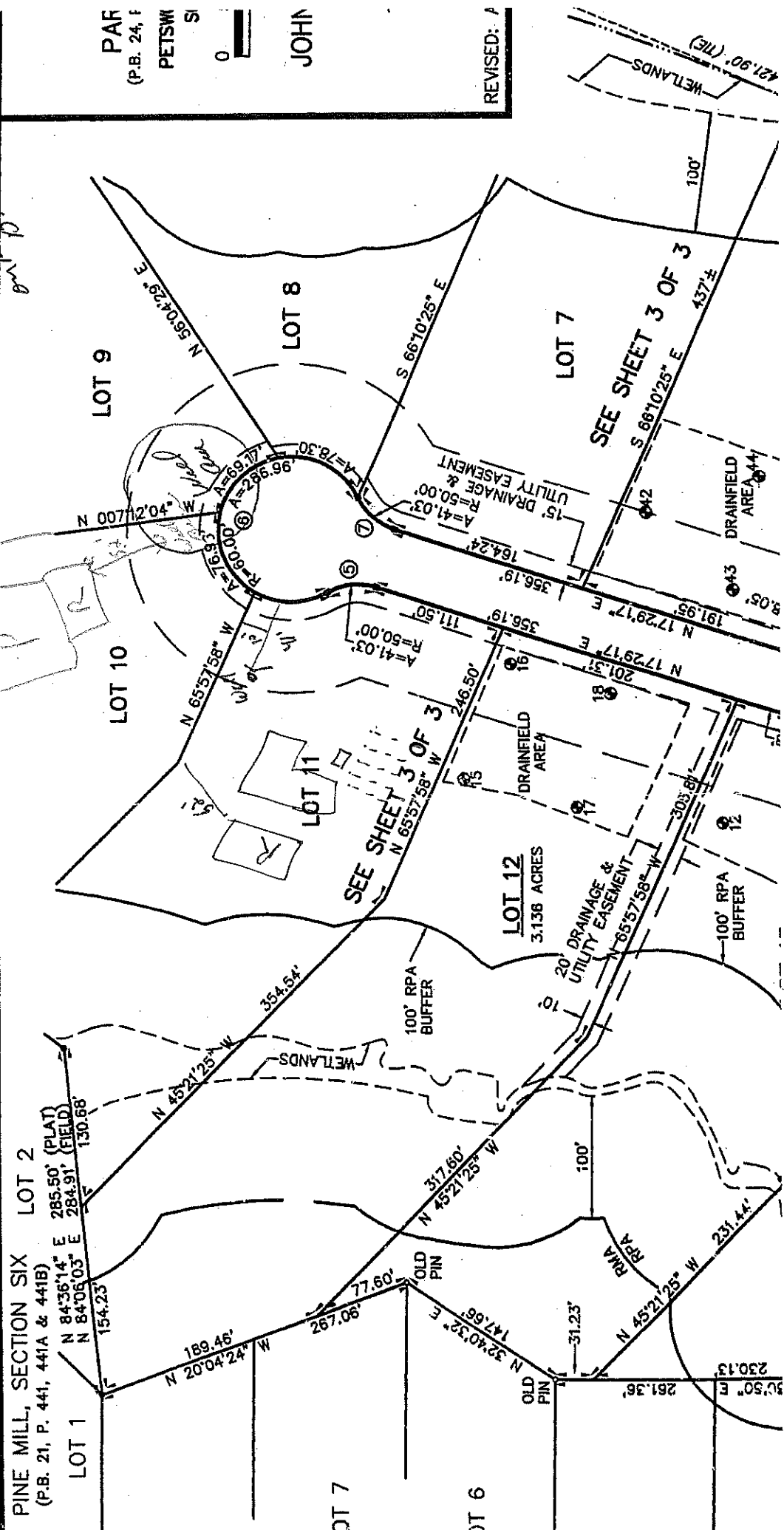
Additional comments, if any: None *well caddis attached is req'd.*

4 BR w/ well 600sq ft 1115 wad
 CL 40 sq design 30 mg 1,200 gal ST
 174 CLR
 Spt 810
 table 5.4 780 sq ft
 people similar to CL Evaluation
 6-95' 36" TB

22E-6-10
 Survey Survey

SOS [unclear]
 [unclear]

PAR (P.B. 24, F)
 PETS W S
 JOHN
 REVISED: 1



WETLANDS
 421.90' (711)

100'

SEE SHEET 3 OF 3
 S 66°10'25" E 437'±

DRAINFIELD AREA
 43

191.95' N 172°91' E

356.19' N 172°91' E

201.31' N 172°91' E

303.81'

100' RPA BUFFER

231.44' N 45°21'25" W

100'

317.60' N 45°21'25" W

100' RPA BUFFER

77.60' OLD PIN

189.46' N 20°04'24" W

261.36' N 32°40'32" E

230.13' N 45°21'25" W

LOT 2
 (P.B. 21, P. 441, 441A & 441B)
 N 84°36'14" E 285.50' (PLAT)
 N 84°08'03" E 284.91' (FIELD)
 130.68'

LOT 1
 154.23'

LOT 7
 267.06'

LOT 9
 N 56°04'29" E

LOT 8
 S 66°10'25" E

LOT 10
 N 65°57'58" W

LOT 11
 N 65°57'58" W

LOT 12
 3.136 ACRES

100' RPA BUFFER

WETLANDS

354.54'

100' RPA BUFFER

20' DRAINAGE & UTILITY EASEMENT

303.81'

LOT 7
 S 66°10'25" E 437'±

164.24' A=41.03, R=50.00

15' DRAINAGE & UTILITY EASEMENT

356.19' N 172°91' E

201.31' N 172°91' E

303.81'

100' RPA BUFFER

231.44' N 45°21'25" W

100'

317.60' N 45°21'25" W

77.60' OLD PIN

LOT 9
 N 56°04'29" E

LOT 8
 S 66°10'25" E

LOT 10
 N 65°57'58" W

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 N 56°04'29" E

LOT 8
 S 66°10'25" E

LOT 10
 N 65°57'58" W

LOT 11
 N 65°57'58" W

LOT 12
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 N 56°04'29" E

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 N 65°57'58" W

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 S 66°10'25" E 437'±

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15' DRAINAGE & UTILITY EASEMENT

356.19' N 172°91' E

201.31' N 172°91' E

303.81'

100' RPA BUFFER

231.44' N 45°21'25" W

100'

317.60' N 45°21'25" W

77.60' OLD PIN

OSE/PE Report For:

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

Property Location:

911 Address: DEERWOOD COURT City: GLOUCESTER
 Lot 10 Section 22E (6) Subdivision 1
 GPIN or Tax Map # 22E(6) - 10 Health Dept ID # 136-17-0124
 Latitude 37 deg 26' 45.90" N Longitude 76 deg 38' 01.18" W

Applicant or Client Mailing Address:

Name: SUNNY SIDE DEVELOPMENT OF GRAFTON, LLC
 Street: 118 ANCHOR LANE
 City: YORKTOWN State VA Zip Code 23692

Prepared by:

OSE Name BRIAN D. HANCOCK License # 1075
 Address P.O. BOX 2134
 City GLOUCESTER State VIRGINIA Zip Code 23061
 PE Name VDH APPROVED COPY
HDID # 136-17-0124 signed License # _____
 Address THIS PERMIT IS NOT TRANSFERABLE
 City _____ State _____ Zip Code _____

Date of Report _____ Date of Revision #1 APRIL 19, 2017
 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 PAGE AND HEALTH DEPT. APPLICATION.....1-2 | SEPTIC TANK DETAILS.....12 |
| SITE and SOIL EVALUATION REPORTS.....3-5 | WELL SPECS and SANITARY SURVEY STATEMENT.....13-14 |
| DESIGN CALCS; SYSTEM SPECS; GENERAL NOTES.....6-9 | WELL STATEMENT and SYSTEM DO's and DON'Ts.....15-16 |
| DRAINFIELD AREA AND SYSTEM LAYOUT DRAWINGS.....10-11 | SURVEY PLAT.....ATTACHMENTS |

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 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 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 Brian D. Hancock Date APRIL 15, 2017

Rec'd: 4/18/17 2-2933070 # 585 CX: 1468

p. 2 of 16

Commonwealth of Virginia

Application for: Sewage System Water Supply

VDH Use only
Health Department ID# _____
Due Date _____

Owner SUNNYSIDE DEVELOPEMENT OF GRAFTON, LLC
Mailing Address 118 ANCHOR LANE
YORKTOWN, VIRGINIA 23692
Agent BRIAN D. HANCOCK
Mailing Address P.O. BOX 2134
GLOUCESTER, VIRGINIA 23061
Site Address DEERWOOD COURT
GLOUCESTER COUNTY VIRGINIA

Phone 336-207-8294
Phone _____
Fax _____
Phone 804-693-9464
Phone _____
Fax _____
Email _____

Directions to Property: RT. 17 NORTH TO LEFT ON DAVENPORT RD. TO LEFT ON PINETTA RD. TO LEFT AT PINE MILL TO RIGHT ON DEERWOOD CT.
Subdivision PINE MILL Section 22E Block 6 Lot 10
Tax Map 22E(6) - 10 Other Property Identification _____ Dimension/Acreage of Property ~2 acre

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

Proposed Use:

Single Family Home (Number of Bedrooms 4) 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

All Applicants

Is this a private sector OSE/PE application? Yes No If yes, is the OSE/PE package attached? Yes No

Is this property indeed to serve as your (owners) principal place of residence? 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.

Brian D. Hancock
Signature of Owner/ Agent

APRIL 15, 2017
Date

Site and Soil Evaluation Report

VDH Use Only
HDIN: _____

| General Information | |
|---|--|
| Date: <u>APRIL 13, 2017</u> | <u>GLOUCESTER</u> County Health Department |
| Owner: <u>SUNNYSIDE DEVELOPMENT OF GRAFTON, LLC</u> | Phone: <u>(336) 207-8294</u> |
| Owner Address: <u>118 ANCHOR LANE; YORKTOWN, VIRGINIA 23692</u> | |
| Property Address: <u>DEERWOOD COURT</u> | |
| Tax Map/GPIN #: <u>22E(6) - 10</u> | |
| Subdivision: _____ | Section: <u>22E</u> Block: <u>6</u> Lot: <u>10</u> |
| Soil Information Summary | |
| 1. Position in landscape satisfactory: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Describe landscape position: <u>SIDESLOPE</u> | |
| 2. Slope: <u>4</u> % | |
| 3. Depth to rock/impervious strata: Max. _____ in. Min. _____ in. <input checked="" type="checkbox"/> Not observed | |
| 4. Free Water Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Range in inches: _____ | |
| 5. Depth to seasonal water table (gray mottling or gray color): <u>54</u> inches <input type="checkbox"/> Not observed | |
| 6. Soil percolation rate estimated: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Estimated rate: <u>5-30</u> min/in at <u>20-54</u> inches depth | |
| Texture Group: <input checked="" type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV | |
| 7. Percolation test performed: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, provide additional data on percolation test results. | |
| Name and title of evaluator: <u>BRIAN D. HANCOCK OSE# 1075</u> | |
| Signature: _____ | |
| <input checked="" type="checkbox"/> Site approved: <u>ABSORPTION TRENCHES</u> (describe dispersal area, e.g. absorption trenches) dispersing <u>STE</u> (proposed level of treatment at time of evaluation) to be placed at <u>36</u> (inches) depth at site designated on permit. Site provides a total of <u>810</u> square feet of absorption area for primary and reserve (if applicable). | |
| <input type="checkbox"/> Site disapproved: Reasons for rejection (check all that apply) | |
| 1. <input type="checkbox"/> Position in landscape subject to flooding or periodic saturation. 2. <input type="checkbox"/> Insufficient depth of suitable soil over hard rock. 3. <input type="checkbox"/> Insufficient depth of suitable soil to seasonal water table. 4. <input type="checkbox"/> Rates of absorption too slow. 5. <input type="checkbox"/> Insufficient area of acceptable soil for required absorption area, and/or reserve area. 6. <input type="checkbox"/> Proposed system too close to well. 7. <input type="checkbox"/> Other (specify) _____ | |



Date of Evaluation: APRIL 13, 2017

Profile Description

SOIL EVALUATION REPORT

Property ID: TAX MAP #: 22E(6) - 10

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 Onsite Soil Evaluator or Professional Engineer, 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 the site and reserve site shall be shown on the reverse side of this page or prepared on a separate page and attached to this form.

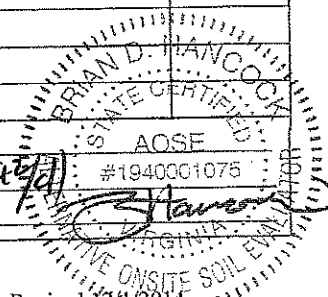
See application sketch See Construction Permit See sketch on reverse side or page attached to this form.

| Hole # | Horizon | Depth (Inches) | Description of color, texture, etc. | Texture Group |
|---------|---------|----------------|---|--------------------------------------|
| PRIMARY | | | | |
| SB 1 | A | 0-8 | 10YR 5/4 Yellowish Brown coarse Sand | I (5-10R) |
| | E | 8-22 | 10YR 6/4 Light Yellowish Brown coarse Sand | I (5-10R) |
| | E1B | 22-34 | 10YR 6/4 Light Yellowish Brown with 7.5YR 5/6 Strong Brown coarse Sand / Loamy Sand | I (10R) |
| | 1B | 34-42 | 7.5YR 5/6 Strong Brown coarse Sandy Loam / Loamy Sand | II / I (15-20R) |
| | 2B | 42-54 | 7.5YR 5/6 Strong Brown with 10YR 6/4 6/6 Light Yellowish Brown to Brownish Yellow Sandy Loam / Loamy Sand | II / I (15-20R) |
| | 3Bt | 54-60 | 7.5YR 5/6 Strong Brown with 10YR 5/6 6/6 Yellowish Brown to Brownish Yellow Sandy Loam / Sandy Clay Loam | II (25-30R) |
| | SB 2 | A | 0-12 | 10YR 5/4 Yellowish Brown coarse Sand |
| | E | 12-22 | 10YR 6/4 Light Yellowish Brown coarse Sand | I (5-10R) |
| | 1Bt | 22-34 | 7.5YR 5/6 4/6 Strong Brown Sandy Loam / Sandy Clay Loam | II (25-30R) |
| | 2B | 34-40 | 7.5YR 5/6 Strong Brown Sand / Loamy Sand | I (10R) |
| | 3B | 40-54 | 10YR 5/6 Yellowish Brown with 7.5YR 5/6 4/6 Strong Brown coarse Sand with small to medium gravel | I (5R) |
| | 4Bt | 54-60 | 10YR 5/6 Yellowish Brown with 7.5YR 5/6 Strong Brown with few 7/1 7/2 Light Gray Sandy Loam / Sandy Clay Loam | II (25-30R) |
| SB 3 | A | 0-9 | 10YR 5/4 Yellowish Brown coarse Sand | I (5-10R) |
| | E | 9-18 | 10YR 6/4 Light Yellowish Brown coarse Sand | I (5-10R) |
| | E1B | 18-26 | 10YR 6/4 Light Yellowish Brown with 7.5YR 5/6 Strong Brown coarse Sand / Loamy Sand | I (10R) |
| | 1B | 26-38 | 7.5YR 5/6 4/6 Strong Brown with 10YR 5/6 Yellowish Brown coarse Sand with small to medium gravel | I (5-10R) |
| | 2B | 38-50 | 10YR 5/6 Yellowish Brown coarse Sand with small to medium gravel | I (5-10R) |
| | 3B | 50-58 | 10YR 5/6 Yellowish Brown coarse Sandy Loam / Loamy Sand | II / I (15-20R) |
| | 4Bt | 58-60 | 10YR 5/6 6/6 Yellowish Brown to Brownish Yellow Sandy Loam / Sandy Clay Loam | II (25-30R) |

REMARKS: 4 BDRM (600 GPD); SWT: 54 INCHES; ESTIMATED RATE: 5-30 mpi

DESIGN RATE: 30 mpi AREA REQUIRED: 700 sqft (TABLE 5.4) AREA PROVIDED: 810 ft² (0.74 g/ft²/d) #1940001075

ABSORPTION TRENCHES INSTALLATION DEPTH: 36 INCHES TREATMENT LEVEL: STE



Date of Evaluation: APRIL 13, 2017

Profile Description

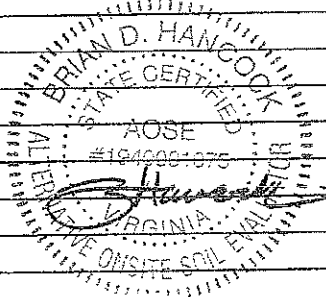
SOIL EVALUATION REPORT

Property ID: TAX MAP #: 22E(6) - 10 (RESERVE)

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 Onsite Soil Evaluator or Professional Engineer, 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 the site 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 | |
|---------|---------|----------------|---|---|-----------------|
| SB 4 | A | 0-8 | 10YR 5/4 Yellowish Brown coarse Sand | I (5-10R) | |
| | E | 8-22 | 10YR 6/4 Light Yellowish Brown coarse Sand | I (5-10R) | |
| | E1B | 22-34 | 10YR 6/4 Light Yellowish Brown with 7.5YR 5/6 Strong Brown coarse Sand / Loamy Sand | I (10R) | |
| | 1B | 34-42 | 7.5YR 5/6 Strong Brown coarse Sandy Loam / Loamy Sand | II / I (15-20R) | |
| | 2B | | 42-54 | 7.5YR 5/6 Strong Brown with 10YR 6/4 6/6 Light Yellowish Brown to Brownish Yellow | |
| | | | | Sandy Loam / Loamy Sand | II / I (15-20R) |
| | 3Bt | 54-60 | 7.5YR 5/6 Strong Brown with 10YR 5/6 6/6 Yellowish Brown to Brownish Yellow | | |
| | | | Sandy Loam / Sandy Clay Loam | II (25-30R) | |
| RESERVE | | | | | |
| SB5R | | | SAME AS SB4 | | |



REMARKS:

Design Calculations

Property ID: Tax Map #: 22E(6) - 10

Gloucester County, Virginia

| | |
|---|---|
| Flow | |
| Type of use (residential, etc) Residential No. of bedrooms: 4 No. of Employees : Square Footage of building space: Daily flow in GPD : 600 | Show Calculations Here! 600 Gal. per Day |
| Treatment | |
| No. of septic tanks: 1 Size of septic tank(s): 1200 gallons Pretreatment required? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no If yes, specify type of treatment device: | Show Calculations Here! |
| Absorption area design | |
| Soil Texture Group: I / II Reserve area required? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 100% <input type="checkbox"/> other (check one) Specify other | If pump system, enhanced flow, or LPD show calculations here or on a separate sheet. (dosing volume, head, pump design, etc.) |
| Design Basis Total length available: 45 feet Total width available: 48 feet Estimated percolation rate: 30 mpi (design rate) Loading rate: 0.74 g/sq.ft./ day (per design) Total square footage required: 780 | Estimated Rate: 5-30 mpi Design Rate : 30 mpi |
| Area Calculations # of trenches (note if pad is used): 6 Length of Trenches: 45 feet Width of Trenches: 36 inches Center to center spacing: 9 feet Total width of absorption area required: 48 ft Total square footage provided: 810 sq. ft. | Area Required: 780 sqft (Table 5.4) Loading Rate required: 0.769 g/d/sqft @ 30 mpi Area Provided in Design: 810 sqft Loading Rate in Design: $600 / 810 = 0.74$ 0.74 gal./sq.ft./day : designed at 30 mpi Installation Depth: 36 inches use EZflow gravelless trench system Install Concrete or Polylok D-box only |
| Water Supply | |
| Class of well: III B Distance between septic tank(s) and well: > 50' Distance between absorption area and well: > 50' | Describe (bored, drilled): drilled Total casing required: 50'+ Total grouting depth required: 50'+ |



System Specifications

| |
|---------------------|
| VDH Use Only |
| HDIN: _____ |

| | |
|------------------------------------|---------------------------------|
| Application Information | |
| Name: <u>SUNNYSIDE DEVELOPMENT</u> | Address: <u>118 ANCHOR LANE</u> |
| Phone: <u>336-207-8294</u> | <u>YORKTOWN, VIRGINIA 23692</u> |

| | |
|--|--|
| Location Information | |
| Tax Map/GPIN #: <u>22E(6) - 10</u> | Property Address: <u>DEERWOOD COURT</u> |
| Subdivision: _____ | Section: <u>22E</u> Block: <u>6</u> Lot: <u>10</u> |
| Directions: <u>DAVENPORT RD TO PINETTA RD TO PINE MILL SUBDIVISION TO RIGHT ON DEERWOOD COURT TO END</u> | |

| | |
|--|------------------------------|
| General Information | |
| Property Type (e.g. residential): <u>RESIDENTIAL</u> | Number of Bedrooms: <u>4</u> |
| Daily Flow: <u>600</u> gpd | Conditions: <u>NONE</u> |
| Notes: _____ | |

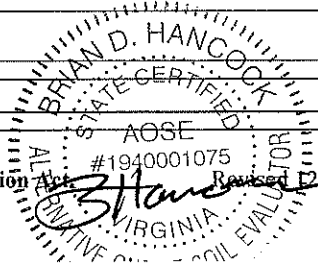
| | |
|---|--|
| Sewer Line | |
| Diameter: <u>4</u> in. Material: <u>PVC</u> | (or equivalent) Notes: <u>ENSURE CLEANOUT IS INSTALLED</u> |

| | |
|---|--|
| Pretreatment Unit(s) | |
| Treatment Level: <u>STE</u> | Septic Tank Capacity: <u>1200</u> gallons |
| Number of Septic Tanks <u>1</u> | Size of Septic Tank(s) <u>1200</u> gallons |
| Per the Sewage Handling and Disposal Regulations, check which option(s) chosen: | |
| <input checked="" 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: _____ | |
| Notes: _____ | |

| | |
|--|---|
| Conveyance Line | Distribution Method and Header Lines |
| Conveyance Method: <u>GRAVITY</u> | Distribution Method: <u>DISTRIBUTION BOX</u> |
| If pumping, include pump specifications sheet. | No. of boxes: <u>1</u> No. of outlets: <u>8</u> |
| Material: <u>PVC SCH40</u> Diameter: <u>2 INCH</u> | Surge or splitter box required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Notes: _____ | Header Line Material: <u>4 INCH PVC</u> |

| | |
|---|--|
| Percolation Lines/Absorption Area | |
| Dispersal Method (e.g. laterals, pad, mound): <u>ABSORPTION TRENCHES (LATERALS)</u> | |
| If using pressure dispersal (e.g. drip), include pressure dispersal specifications sheet. | |
| No. of laterals/pads: <u>6</u> | Length of lateral(s)/pad(s): <u>45</u> ft. Width of lateral(s)/pad(s): <u>36</u> in. |
| Center to center spacing: <u>9</u> ft. | Installation depth: <u>36</u> in. Aggregate depth: <u>12</u> in. |
| Size/Type of Aggregate: <u>EZFLOW GRAVELLESS TRENCH SYSTEM</u> | Lateral/pad slope: <u>2-4</u> in. per <u>100</u> ft. |
| Reserve Area Provided: <u>100</u> % | Notes: <u>RESERVE PAD : TL-2 : 20' X 40'</u> |

Please Note: _____ DISTRIBUTION BOX : CONCRETE OR POLYLOK ONLY



GENERAL NOTES

1. Installation shall be in accordance with the requirements of the Virginia State Board of Health "Sewage Handling and Disposal Regulations". Only drawings approved by the Health Department shall be used for construction.

2. SPECIFICATIONS

Design Flow : 600 gallons per day
Estimated Rate : 5-30 mpi
Design Rate : 30 mpi
Drainfield Area required (no reduction) : 1040 sq. ft.
Drainfield Area required with reduction: 780 sq. ft.
Drainfield Area provided : 810 sq.ft.
Number of trenches: 6
Trench length: 45 ft.
Trench width: 3 ft.
Center spacing: 9 ft.
Trench bottom installation depth: 36 inches
Trench bottom slope: 2-4 inches per 100 feet
Septic Tank Capacity : 1200 gallons

Table 5.4: Drainfield area reduction
for use of gravelless system (EZflow system)
At 30 mpi : 195 sqft per Bedroom
195 X 4 = 780 Area Provided: 810 sqft

NOTE: Ensure that all PVC fittings are chemically fused
Install Cleanouts in Sewerlines

3. The contractor must contact Atlantic Onsite (804-693-9464) 48 hours prior to installation in order to schedule the required inspection.

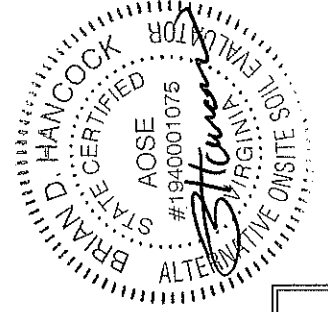
4. Install a 4" PVC sewerlines with cleanouts
Sewerline fall : 1.25" / 10'
Conveyance line fall : 6" / 100' (min.)
Header line fall : 2" / 100' (min.)
Drainfield line fall : 2-4" / 100'

5. Grade the finished drainfield to promote surface water runoff

6. Seed and Straw

Divert roof and foundation drains away from the septic tanks
and Drainfield Area

Remove all trees from within 10+ feet of the drainfield area



PROPOSED SEWAGE DISPOSAL SYSTEM

for
SUNNYSIDE DEVELOPMENT

TAX MAP #: 22E(6) - 10
GLOUCESTER COUNTY, VIRGINIA

DATE: APRIL 19, 2017

PREPARED BY: BRIAN D. HANCOCK AOSE # 1075

Abbreviated Design Form

This form is for use with gravity, pump to gravity, enhanced flow, and low pressure distribution (LPD) sewage system designs and when applying for a certification letter or subdivision approval.

This abbreviated design covers the primary and reserve area, only the primary area, only the reserve area for: TM #: 22E(6) - 10 : Gloucester County

Design Basis

Total length of available area: 40 feet

Total width of available area: 20 feet

Estimated Perc. Rate: 5-30 at 0-54 in. (depth)

Gallons per Day: 600

Conveyance Method¹: Pump

Distribution method² (specify): Gravity

Dispersal system basis³ Absorption Pad

LGMI required? No

Effluent quality required: Secondary

Square feet per 100 gal.: 133.33 sq. ft.

Total Trench bottom area provided: 800 sq. ft.

¹Gravity, pump, siphon

²Enhanced flow, LPD, or Drip Dispersal

³Table 5.4 of SHDR or identify the GMP used Installation depth: 36 inches SWT: 54-60+ in.

Area Calculations

Number of trenches Pad

Length of Pad: 40 feet

Width of Pad: 20 Feet

Center to center spacing: N / A

Reserve required? Yes

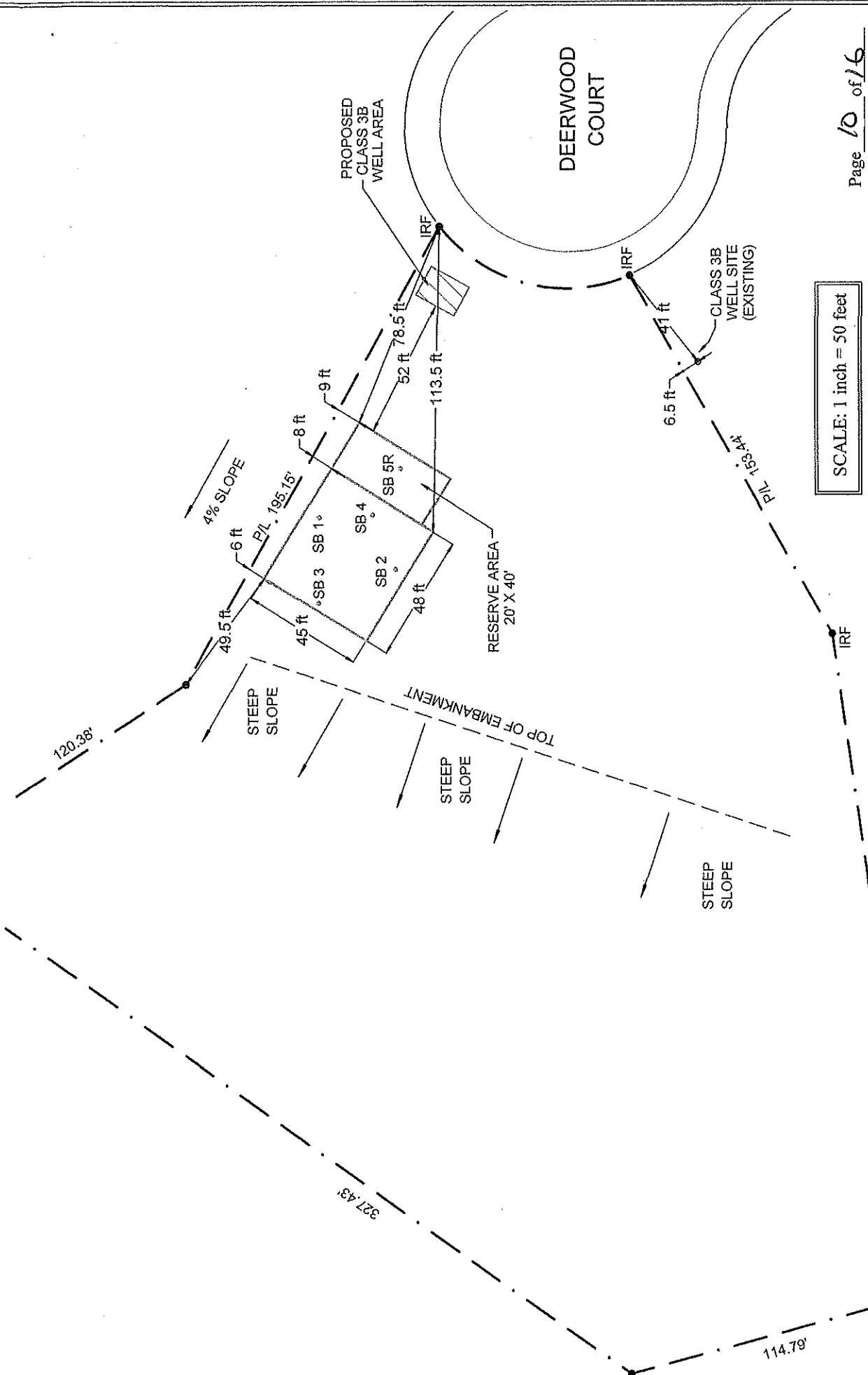
Percent reserve area required: 100

Total width of absorption area required 20 ft

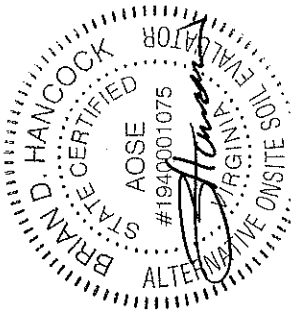
Total Pad bottom area provided: 800 sqft

The required width is calculated by multiplying the center-to-center spacing by one less than the number of trenches and adding 1 trench width plus any required reserve area. If the topography is not uniform across the length of the site the trenches will need to flare apart on one end to maintain contour. When this occurs it is necessary to use a center-to-center spacing that accounts for the flair or the installer will not be able to fit the system within the approved area. It is perfectly acceptable to have more area available, especially up and down the slope, than is required.



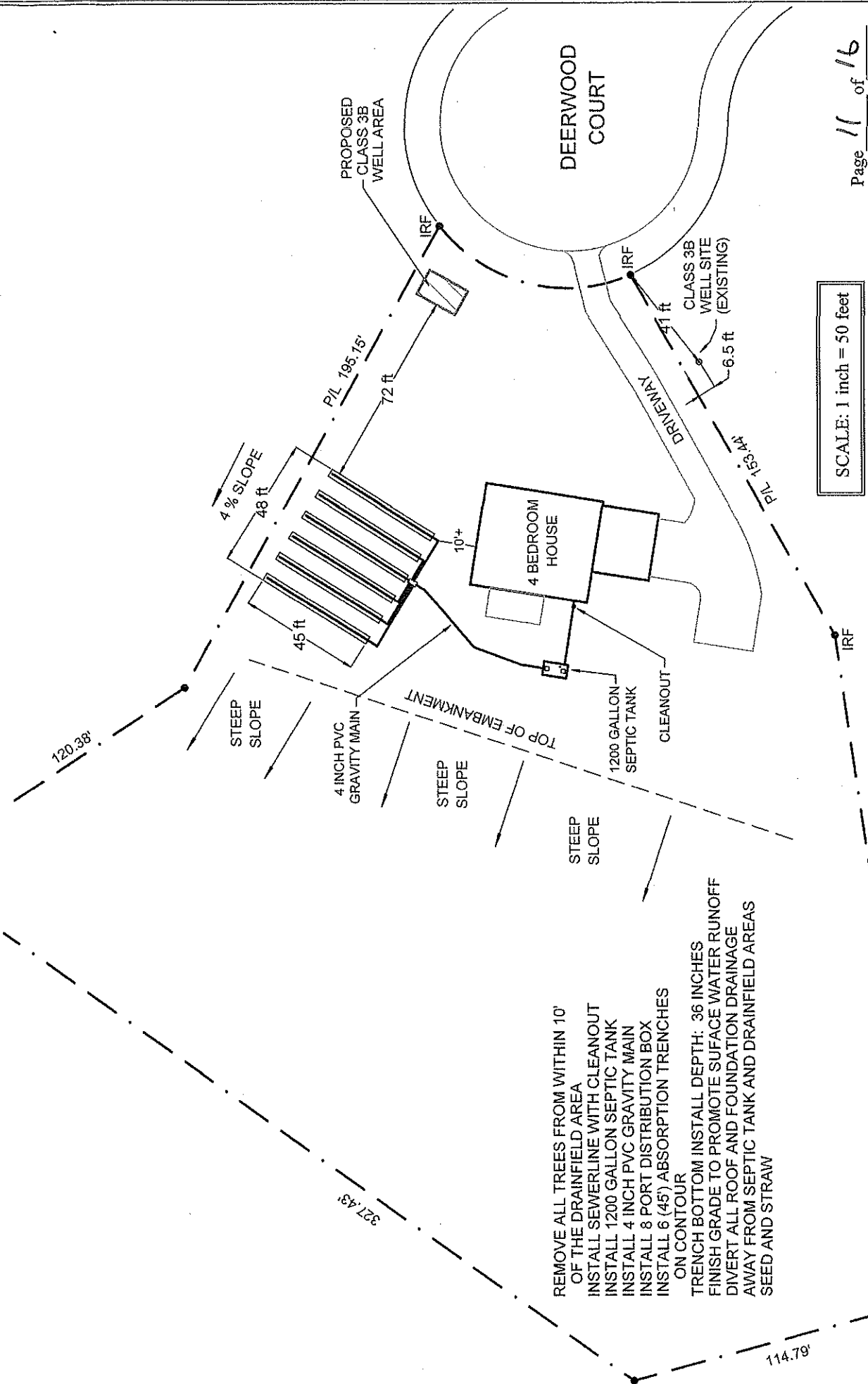


SCALE: 1 inch = 50 feet



PROPOSED SEWAGE DISPOSAL SYSTEM
 for
SUNNYSIDE DEVELOPMENT
 TAX MAP #: 22E(6) - 10
 GLOUCESTER COUNTY, VIRGINIA
 DATE: APRIL 19, 2017
 PREPARED BY: BRIAN D. HANCOCK OSE#: 1075

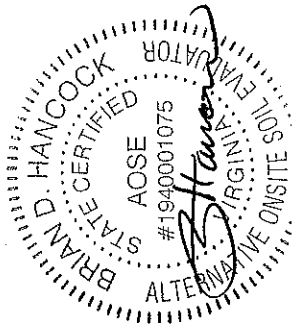
Onsite, LLC
 P.O. Box 2134 Gloucester VA 23061 Call: (804) 832-2017
 Off: (804) 693-9464



REMOVE ALL TREES FROM WITHIN 10' OF THE DRAINFIELD AREA
 INSTALL SEWERLINE WITH CLEANOUT
 INSTALL 1200 GALLON SEPTIC TANK
 INSTALL 4 INCH PVC GRAVITY MAIN
 INSTALL 8 PORT DISTRIBUTION BOX
 INSTALL 6 (45') ABSORPTION TRENCHES ON CONTOUR
 TRENCH BOTTOM INSTALL DEPTH: 36 INCHES
 FINISH GRADE TO PROMOTE SURFACE WATER RUNOFF
 DIVERT ALL ROOF AND FOUNDATION DRAINAGE AWAY FROM SEPTIC TANK AND DRAINFIELD AREAS
 SEED AND STRAW

SCALE: 1 inch = 50 feet

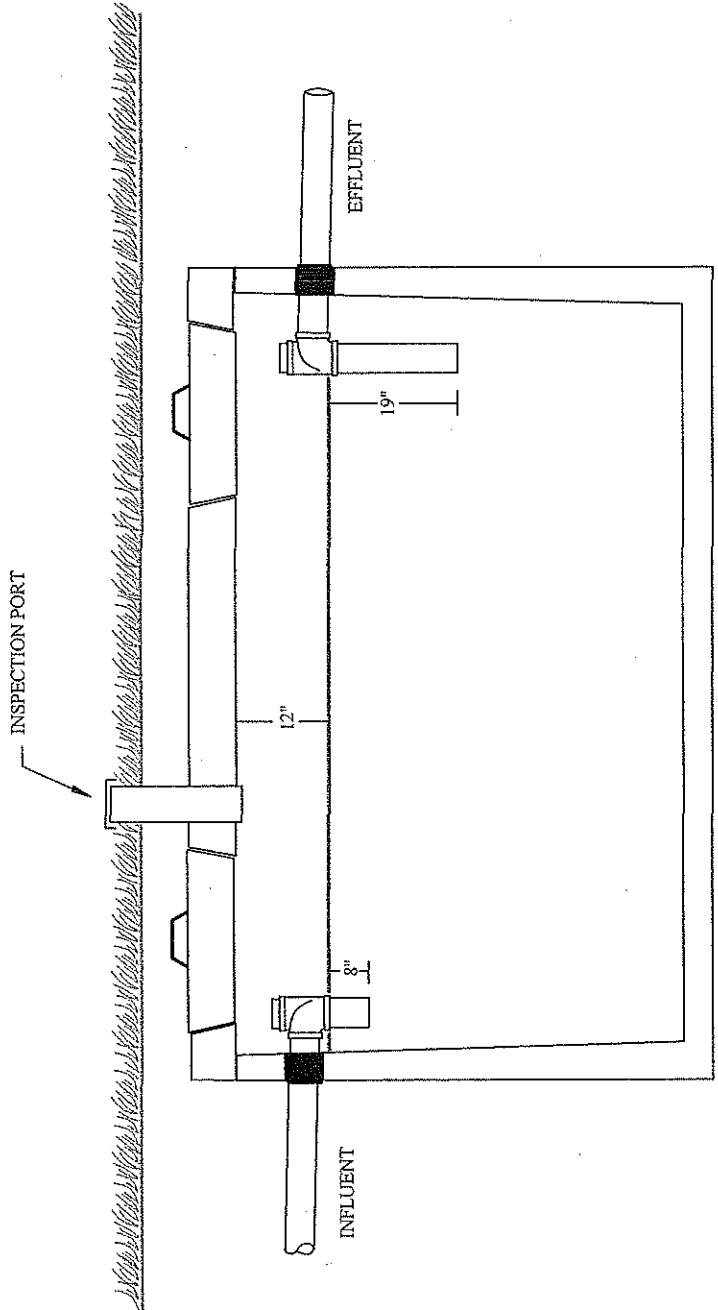
Page 11 of 16



PROPOSED SEWAGE DISPOSAL SYSTEM
 for
 SUNNYSIDE DEVELOPMENT
 TAX MAP #: 22E(6) - 10
 GLOUCESTER COUNTY, VIRGINIA
 DATE: APRIL 19, 2017
 PREPARED BY: BRIAN D. HANCOCK OSE#: 1075

P.O. Box 2134 Off: (804) 693-9464
 Gloucester, VA 23061 Cell: (804) 832-2917

Onsite, LLC

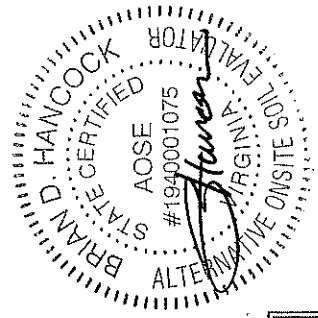


1250 Gallon Tank

ALL SEALS MUST BE WATERTIGHT

SEPTIC TANK MUST HAVE AN INSPECTION PORT OR RISER

PROPOSED SEWAGE DISPOSAL SYSTEM
 for
 SUNNYSIDE DEVELOPMENT
 TAX MAP #: 22E(6) - 10
 GLOUCESTER COUNTY, VIRGINIA
 DATE: APRIL 19, 2017
 PREPARED BY: BRIAN D. HANCOCK AOSE # 1075



Onsite, LLC
 P.O. Box 2134 Gloucester, VA 23061
 Off: (804) 693-9464 Cell: 804-832-2917

Well Specifications

VDH Use Only
HDIN: _____

| | |
|---|---|
| Applicant Information | |
| Name: <u>SUNNYSIDE DEVELOPMENT OF GRAFTON, LLC</u> | Address: <u>118 ANCHOR LANE</u> |
| Phone: <u>336-207-8294</u> | <u>YORKTOWN, VIRGINIA 23692</u> |
| Location Information | |
| Tax Map/GPIN #: <u>22E(6) - 10</u> | Property Address: <u>DEERWOOD COURT</u> |
| Subdivision: <u>PINE MILL</u> | Section: <u>22E</u> Block: <u>6</u> Lot: <u>10</u> |
| Directions: <u>DAVENPORT ROAD TO PINETTA ROAD TO PINE MILL SUBDIVISION TO RIGHT ON DEERWOOD COURT TO END</u> | |
| General Information | |
| Well Purpose (select all that apply): <input checked="" type="checkbox"/> Domestic Drinking Water <input type="checkbox"/> Agricultural | |
| <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial/Commercial <input type="checkbox"/> Geothermal | |
| Well Class: <u>3B</u> | Minimum Casing Depth: <u>50+</u> ft. |
| Estimated Water Usage: <u>600 gpd</u> | Minimum Grout Depth: <u>50+</u> ft. |
| Horizontal Setbacks | |
| Distance from Building Sewer: <u>~115</u> ft. | Distance from Pretreatment Unit(s): <u>~130</u> ft. |
| Distance from Conveyance System: <u>~100</u> ft. | Distance from Absorption Area: <u>~72</u> ft. |
| Distance from Property Line: <u>~5+</u> ft. | Distance from foundations: <u>~60</u> ft. |
| Distance from other source(s) of contamination: <u>> 100</u> ft. | |
| List other source(s): <u>NEIGHBORING DRAINFIELDS</u> | |
| Note: _____ | |
| _____ | |
| _____ | |



SANITARY SURVEY STATEMENT
for

Sunnyside Development of Grafton, LLC

Tax Map #: 22E(6) - 10

Gloucester County, Virginia

Date: April 14, 2017

There is no Class 3C private water wells (or proposed water wells) located within 100' of proposed drain field area. There are no Class 3B private water wells (or proposed water wells) located within 50' of the proposed drain field area or Treatment Unit. There are no developed springs within 200' of the proposed drain field areas. All separation distance requirements were met according to the Virginia Sewage Disposal & Handling Regulations.



Brian D. Hancock OSE # 1075

OSE Certification Statement
For Private Well Construction Permit

Property Owner: Sunnyside Development of Grafton, LLC

Tax Map #: 22E(6) - 10 County: Gloucester

Date: April 14, 2017

The Proposed Well Site Shown Herein:

Is located a minimum of 50 feet from all neighboring property lines

X Is located within 50 feet of the adjacent property line(s) but I have determined that the adjacent property is not used for an agricultural operation.

Type of Confirmation

Written affirmation from the adjacent property owner(s) that the property is not used for an agricultural operation.

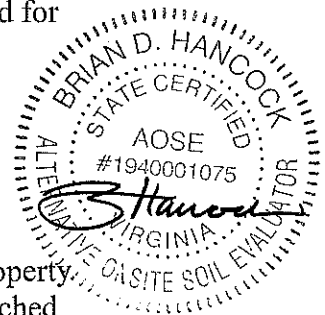
X Other confirmation that the adjacent property is not used for an agricultural operation. Description:

Onsite Determination

Is located within 50 feet of an adjacent property line and the adjacent property is used for an agricultural operation. For confirmation, I have attached the following (pursuant to § 32.1-176.5:2 of the Code of Virginia).

Written permission from the adjacent property owner(s) for the well construction. (See Attachment)

I certify that no other site on the property complies with the Board's Regulations for the construction of a private well.



SEPTIC SYSTEMS DO'S & DON'TS

Do learn the location of your septic tank(s), treatment unit, pump chamber (if applicable) and drainfield. Keep a sketch of it handy with your maintenance records for service visits.

Do have your septic system inspected annually.

Do have your septic system pumped out regularly by a licensed contractor.

Do make septic system covers (risers) accessible for inspections and pumping.

Do call a professional whenever you experience problems with your system, or if there are any signs of system failure.

Do keep a detailed record of repairs, pumpings, inspections, permits issued and other maintenance activities.

Do conserve water to avoid overloading the system. Be sure to repair any leaky faucets or toilets. Low water use laundry appliances (ie. front loading or steam washing machines) are recommended.

Do divert other sources of water, like roof drains, house footing drains, and sump pumps away from the septic and pump tanks and the drainfield.

Don't go down in the septic or pump tanks. Toxic gases are produced by the natural treatment processes and can kill in minutes. Extreme care should be taken when inspecting a septic and/or pump tank. Never leave an opened tank unattended. Never allow children to bounce on riser lids.

Don't plant anything over or near the drainfield except grass. Roots from nearby trees or shrubs may clog and damage the drainlines.

Don't dig in your drainfield or build anything over it, and don't cover the drainfield with a hard surface such as concrete or asphalt. The area over the drainfield should have only a grass cover.

Don't allow anyone to drive or park over any part of the system.

Don't use septic tank additives. These products usually do not help and some may even be harmful to your system.

Don't make or allow repairs to your septic system without obtaining the required health department permit. Use professional licensed contractor when needed.

Don't used your toilet as a trash can or poison your septic system and the groundwater by pouring harmful chemicals and cleaners down the drain. Harsh chemicals can kill the beneficial bacteria that treat your wastewater. Use bleach sparingly.

Don't allow backwash from home water softeners to enter the septic system.

DO NOT FLUSH....

- ☉ coffee grounds
- ☉ cigarette butts
- ☉ kitty litter
- ☉ disposable diapers
- ☉ fat, grease, or oil
- ☉ tampons
- ☉ sanitary napkins
- ☉ dental floss
- ☉ condoms

and HAZARDOUS CHEMICALS, such as:

- ☉ paints
- ☉ photographic solutions
- ☉ waste oils
- ☉ thinners
- ☉ varnishes
- ☉ pesticides

PROPOSED SEWAGE DISPOSAL SYSTEM

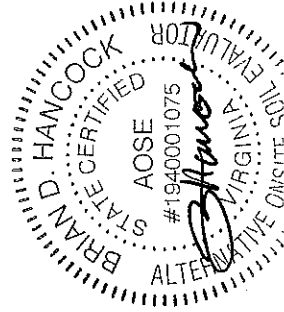
for
SUNNYSIDE DEVELOPMENT

TAX MAP #: 22E(6) - 10

GLOUCESTER COUNTY, VIRGINIA

DATE: APRIL 14, 2017

PREPARED BY: BRIAN D. HANCOCK AOSE# 1075



P.O. Box 2134 (804) 693-9464
Gloucester VA 23061 Cell: (804) 832-2917

anic Onsite, LLC