

Tax Map: 8A-1-10-21  
HDID#: 177-19-0286-SP



---

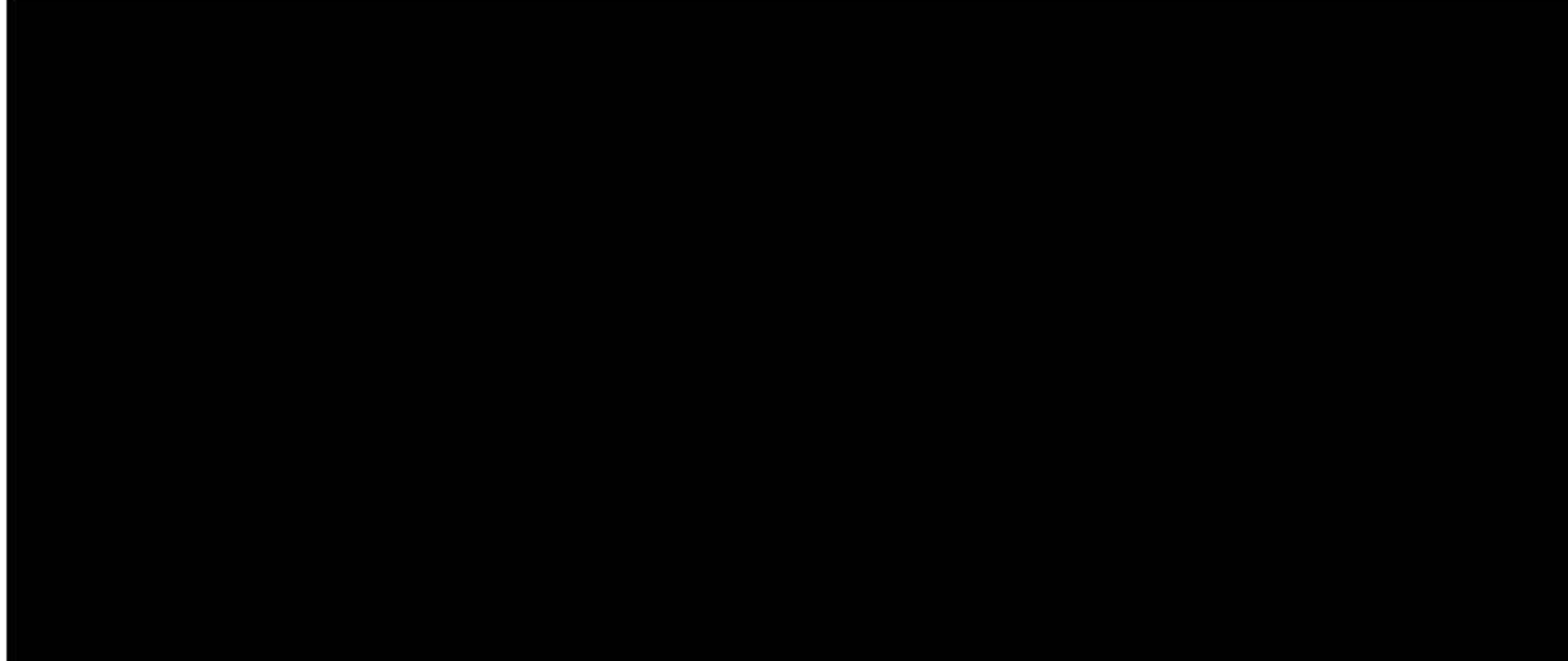
Spotsylvania County Environmental Health Department  
PO BOX 126  
Spotsylvania, VA 22553  
(540) 507-7386 Voice  
(540) 582-7295 Fax

---

### *OSE Construction Permit*

**Well and Sewage Contractors:** Notify the Health Department and OSE or PE 48 hours prior to installation to arrange for inspection. This is REQUIRED.

*October 25, 2019*

  
RE: 11203 Wilderness Park Dr. Spotsylvania, VA  
Tax Map: 8A-1-10-21 (Spotsylvania County)  
Subdivision: Lake Wilderness Section: 10 Lot: 21  
HDID: 177-19-0286-SP Reserve: 100% reserve area provided  
System Capacity: Residential, 3 Bedrooms, 450 gallons per day

Dear 

This letter and the attached drawings, specifications, and calculations (9 pages) dated **October 21, 2019**, constitute your permit to install a sewage disposal system on the property referenced above. Your application for a permit was submitted pursuant to §32.1-163.5 of the Code of Virginia, which requires the Health Department to accept private soil evaluations and designs from an Onsite Soil Evaluator (OSE) or a Professional Engineer working in consultation with an OSE for residential development. VDH is not required to perform a field check to verify the private evaluations of OSEs or PEs and such a field check may not have been conducted for the issuance of this permit.

The soil absorption area ("site"), sewage system design, location and construction were **certified by Donald Hackler, 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 Spotsylvania County Environmental 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 report and 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 (not the well) at the time of construction



provided adequate documentation is provided to the Spotsylvania County Environmental Health Department.

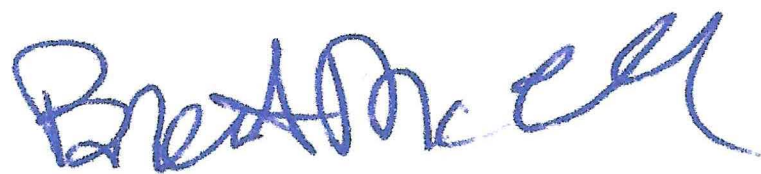
The OSE/PE that submitted the certified design for this permit is required to conduct a final inspection of this sewage system when it is installed and to submit an inspection report and completion statement. As the owner, you are responsible for giving reasonable notice to the OSE/PE of the need for 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 Spotsylvania County Environmental 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 Spotsylvania County Environmental 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. 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 permit expires: **April 25, 2021**

Sincerely,



Brent McCord  
Environmental Health Manager  
Spotsylvania County Environmental Health Department

CC: Donald Hackler, Private OSE



Tax Map: 8A-1-10-21  
HDID#: 177-19-0286-SP

**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.

**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. *Please note that due to the individual circumstances of your permit there may be additional required items not covered by this checklist.*

If you have any questions about any of the items on this list, please do not hesitate to contact the Spotsylvania County Environmental Health Department at 540-507-7386 .



# Commonwealth of Virginia

VDH Use Only  
Health Department ID# 177-19-0286-5D  
Due Date \_\_\_\_\_

Application for:  Sewage System  Water Supply

Owner \_\_\_\_\_ Phone \_\_\_\_\_

Mailing Address \_\_\_\_\_ Phone \_\_\_\_\_

Agent \_\_\_\_\_ Phone \_\_\_\_\_

Mailing Address \_\_\_\_\_ Phone \_\_\_\_\_

Site Address 11203 Wilderness Park Dr, Spotsylvania Courthouse

Phone \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Phone \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Email donald.hackler@olddominionsite.com

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

### AOSE Fees

Well Only \$300

Septic Only \$225

Well & Septic \$525

### Local Fees

\$50

\$125

\$175

Subdivision Lake Wilderness

Tax Map 8A-1-10-21

Other Property Identification \_\_\_\_\_

Section 10 Block 21 Lot 21

Dimension/Acreage of Property 0.5

### Sewage System

Types 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 3 )  Multi-Family Dwellings ( Total Number of Bedrooms \_\_\_\_\_ )

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

Basement?  Yes  No Walkout Basement?  Yes  No Fixtures in Basement?  Yes  No

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

Reduced water flow  Limited occupancy  Intermittent of 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. 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) principle place of residence?  Yes  No

In order for VDH to process your application for a sewage system you must attach 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 you 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 check 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.

Signature of Owner/Agent \_\_\_\_\_

Date Oct 10, 21, 2019



OSE/PE Report for

Construction Permit

Property Location:

911 Address: 11203 Wilderness Park Dr, Spotsylvania Courthouse City: Louisa
Lot 21 Section 10 Subdivision Lake Wilderness
GPIN or Tax Map # TM 8A-1-10-21 Health Dept. ID#
Latitude 38.297531 Longitude -77.718631

Applicant or Client Mailing Address:

Name:
Street:
City, State, Zip Code:

Prepared by:

OSE Name Donald Hackler License # 1940001231
Address 40 Deer Tail Ln
City, State, Zip Code Louisa, VA 23093
PE Name License #
Address
City, State, Zip Code

Date of Report: October 2, 2019 Date of revision #1
AOSE/PE Job Number: 1231-19-032 Date of Revision #2

Contents/Index of this report:

Table with 4 columns: Item #, Description, and two empty columns. Rows include Cover Page, Site Evaluation, Soil Profile, Construction Specs, Construction Drawing, Construction Notes, Tank Regulations, Design Calculations, and Plat.

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 (12 VAC5-613), 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.

X 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 a Construction Permit be issued
OSE/PE Signature [Signature] Date 10/2/19



Health Department ID# \_\_\_\_\_

Due Date \_\_\_\_\_

# Site and Soil Evaluation Report

(For certification letters and subdivisions)

Old Dominion Onsite Inc  
116 Sylvania Rd., Unit A  
Ashland VA 23005  
540-223-0172

Tax Map/GPIN Ref: 8A-1-10-21

## General Information

Date: September 26, 2019 Spotsylvania County Health Department  
Applicant: Same as Owner Telephone No.: 703-839-2693  
Address: \_\_\_\_\_  
Owner: \_\_\_\_\_ Address: \_\_\_\_\_  
Location:  
Subdivision: Lake Wilderness Block/Section: SEC 10 Lot: 21

## Soil Information Summary

- 1. Position in landscape satisfactory Yes  No  Describe Side Slope
- 2. Slope 3-5 %
- 3. Depth to rock/impervious strata Max: 63"+ Min. 58" None
- 4. Free Water No  Yes  Range in Inches \_\_\_\_\_
- 5. Depth to seasonal water table (gray mottling or gray color) 63"+ inches
- 6. Soil percolation rate estimated Yes  No  Texture group  I  II  III  IV  
Estimated Rate 55 min./inch at 36 inches
- 7. Percolation test performed Yes  No  Number of percolation test holes \_\_\_\_\_  
Depth of percolation test holes \_\_\_\_\_  
Average percolation rate \_\_\_\_\_ mpi

Name(s) and title(s) of evaluator(s): Donald Hackler AOSE # 1940001231 540-223-0172

Signature(s) 

Site Approved. Absorption trench dispersing Septic tank effluent to be placed at 36 (inches) depth at site designated on permit. Site provides a total of 1935 square feet of absorption area for primary and reserve.

Site Disapproved. Reasons for Rejection (check all that apply)

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



## SOIL EVALUATION REPORT

Property ID: Lake Wilderness Lot 21 [REDACTED]

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 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
1	A	0-14	5YR 7/3 Loam	II
	Bt1	14-20	2.5YR 5/8 Clay Loam	III
	Bt2	20-63	10R 4/8 Clay Loam	III
2	A	0-12	5YR 7/3 Loam	II
	Bt1	12-22	2.5YR 5/8 Clay Loam	III
	Bt2	22-62	10R 4/8 Clay Loam	III
3	A	0-14	5YR 7/3 Loam	II
	Bt1	14-24	2.5YR 5/8 Clay Loam	III
	Bt2	24-60	10R 4/8 Clay Loam	III
4	A	0-10	5YR 7/3 Loam	II
	Bt1	10-24	2.5YR Clay Loam	III
	Bt2	24-58	10R 4/8 Clay Loam	III
5	A	0-14	5YR 7/3 Loam	II
	Bt1	14-21	2.5YR 5/8 Clay Loam	III
	Bt2	21-58	10R 4/8 Clay Loam	III

REMARKS:



# System Specifications

Property ID: Lake Wilderness Lot 21

Applicant Information	
Name <u>[REDACTED]</u>	Phone <u>[REDACTED]</u>
Address <u>[REDACTED]</u>	

Location Information			
Tax Map/ GPIN #: <u>8A-1-10-21</u>	Property address <u>11203 Wilderness Park Dr, Spot</u>		
Subdivision: <u>Lake Wilderness</u>	Section <u>10</u>	Block <u></u>	Lot: <u>21</u>
Directions <u></u>			

General Information	
System Type <u>Residential</u>	Number of bedrooms <u>3</u>
Daily Flow <u>450</u> gpd	Conditions <u>none</u>
Notes <u></u>	

Sewer Line	
Diameter: <u>4in. Material Sch 40 PVC ( or equivalent)</u>	Notes: <u></u>

Pretreatment Unit(s)			
Treatment Level: <u>Septic tank effluent</u>	Septic Tank Capacity: <u>900</u> gallons		
Number of Septic Tanks <u>1</u>	Size of Septic Tank(s) <u>1000</u> gallons		
Per the 2000 Sewage Handling & Disposal Regulations, Check which option chosen:			

Septic tank with inspection port    
  Septic tank with effluent filter    
  Reduced maintenance septic tank

Secondary Treatment Device(s), if applicable:   
 Notes: Riser on Inlet end of Septic Tank

Conveyance Line	Distribution Method and Header Lines
Conveyance Method <u>Gravity</u>  If pumping, include Pump Specification Sheet. Material: <u>Sch 40 PVC</u> Diameter: <u>4"</u> Notes: <u></u>	Distribution Method: <u>D-Box</u> No. of Boxes: <u>1</u> No. of outlets: <u>7</u> Surge or splitter box required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Header Line Material: <u>4" schedule 40 PVC</u>

Percolation line Information/Absorption Area	
Dispersal Method: <u>D-Box</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>70</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>13"</u> in. Size/Type of aggregate: <u>.5"-1.5" Crushed Stone</u> Lateral/pad slope: <u>4"/1(in. per 100</u> ft. Reserve Area Provided: <u>100%</u> Notes: <u></u>	

**Please Note:**

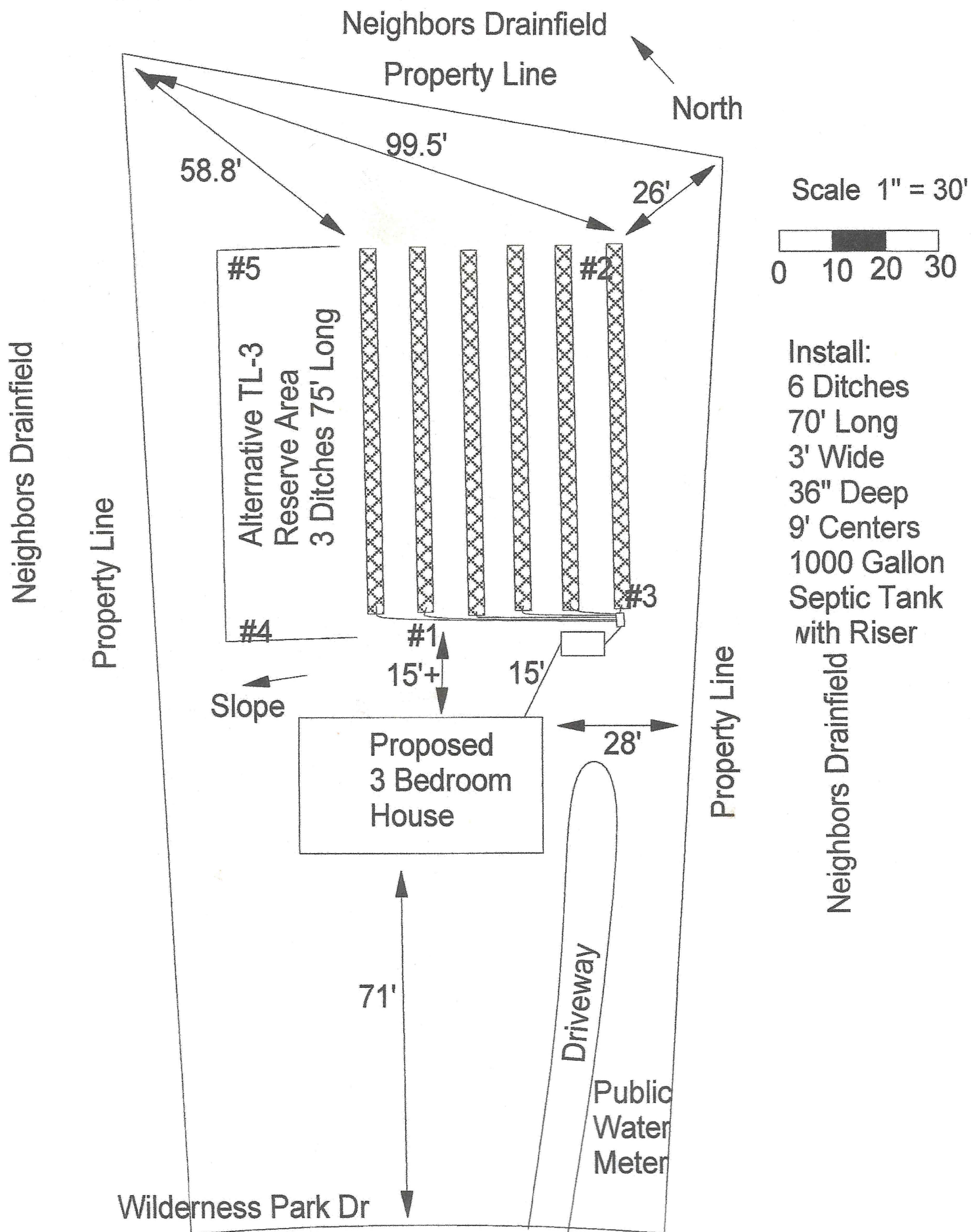
AOSE [Signature] Date 10/27/19



# Construction Drawings

## Property ID: TMS 8A-1-10-21

### Lake Wilderness Lot 21



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 200 feet of sewage disposal system and reserve area. The scale 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 200 feet.

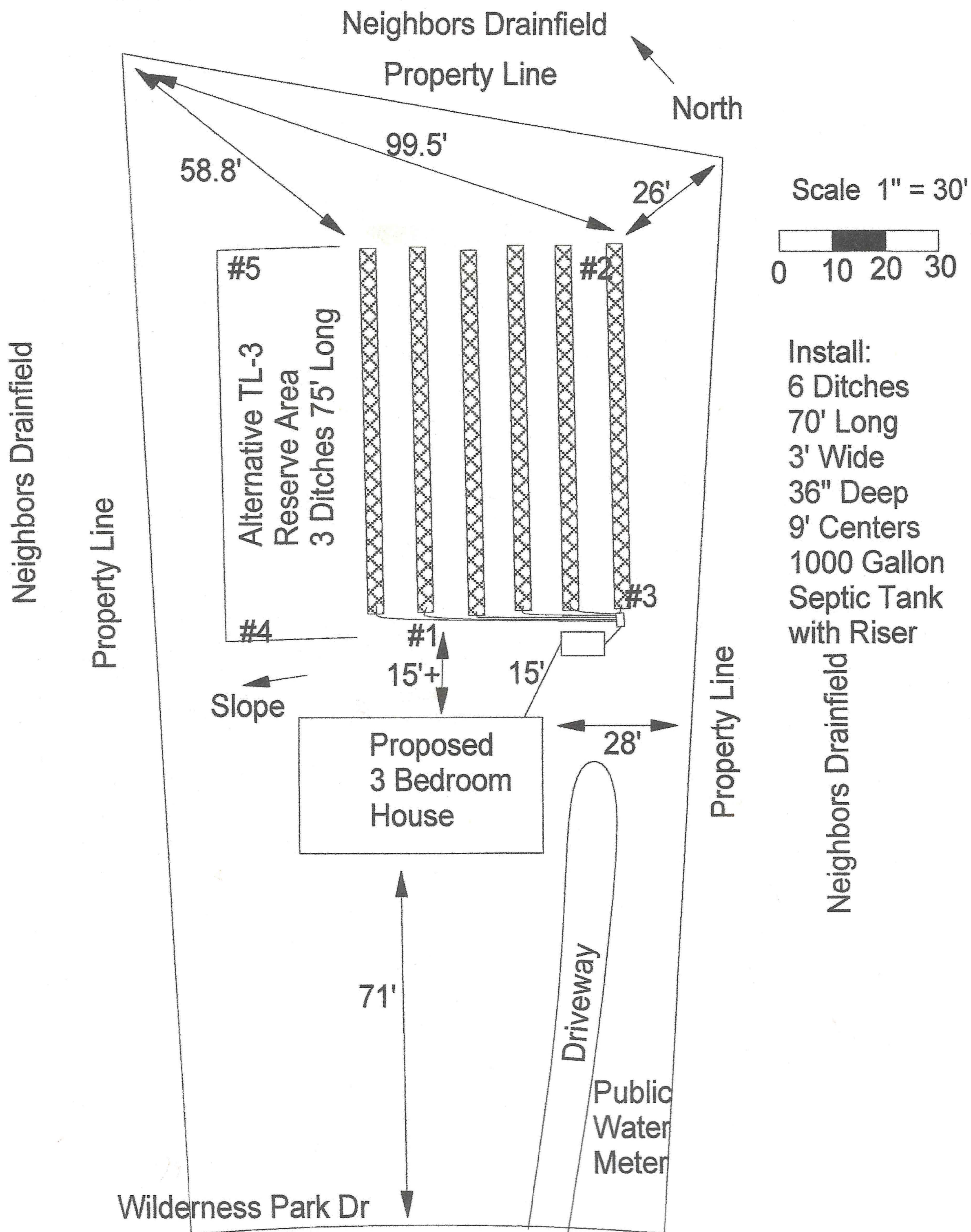
OSE Job # : 1231-19-032



# Construction Drawings

## Property ID: TMS 8A-1-10-21

### Lake Wilderness Lot 21



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 200 feet of sewage disposal system and reserve area. The scale 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 200 feet.

OSE Job # : 1231-19-032



**Septic System Construction Notes**  
**(Applicants and Installers – Read Carefully!!!)**

- All Federal, State, and Local regulations must be observed when installing this system.
- No buried utility lines shall be closer than 10 feet to any part of this system.
- Installation must follow OSHA codes.
- Do not install drainfield system or clear drainfield area during periods of wet weather or wet soil conditions.
  
- Land clearing resulting in a significant change of the original grade or soil continuity may result in the revocation of the permit.
- Garbage disposals are not recommended with septic systems unless an additional dedicated grease trap is installed.
- Drainfield trenches shall be placed on contour. Drainfield pads shall be installed level.
- Roof drains, basement sump discharges (non-sewage), floor drains, footing drains, etc., are not allowed to be connected to septic system.
- Divert all roof drain run off and any other surface water flow away from or around drainfield.
- Keep structures and driveways off the drainfield area and reserve area.
- Trees and plants such as weeping willows, maples, gums, and other water loving species should be removed if within 25 feet of drainfield.
- Minimum cover of fill over aggregate is 12 inches, and cover of fill must be crowned in a way that promotes surface drainage away from drainfield area and prevents ponding of water on or around drainfield area.
- After covering drainfield area, immediate seeding and application of straw is required over and around drainfield to prevent erosion. A grass lawn must be maintained above drainfield area.
- This sewage disposal system and/or water supply is to be constructed as specified by the permit, drawing, and the attached specifications. Donald Hackler OSE # 1940001231 (540-223-0172) must be notified prior to any changes necessary to the design.
- Donald Hackler must be notified at least 2 BUSINESS DAYS prior to final inspection.  
A message left on voicemail after normal business hours, over the weekend or a holiday will not be considered received until the following business day. Voicemail messages must be confirmed in order to establish inspection appointment. Call 540-223-0172 to arrange for this inspection. There is a \$350.00 fee for this inspection.
  
- All conventional drainfield designs which include a pump for conveying effluent to a drainfield must have a drawdown inspection. There is a \$175 charge for this inspection if it requires an additional trip. However, the septic contractor is responsible for arranging this inspection and preparing the pump chamber for inspection. Please call if there are any questions on how to prepare the pump chamber. This inspection is critical and the completion statement will not be released until a satisfactory inspection of the pump system is conducted.
  
- The permit will be revoked and the completion statement will not be signed if the septic system is covered before final inspection.
- The completion statement will not be released until payment is received for the system inspection and/or the system design.
- This permit proposal will be void 2 years from the date of its design.
- Any changes to the site or soil conditions of this property will void this permit proposal.
- The performance of any alternative treatment system used in any permit design is not guaranteed by ODO, Inc. Only alternative treatment systems approved by the Virginia Department of Health can be used for onsite septic system designs. ODO, Inc. assumes their performance based on this approval.
- It is the owner's and the contractor's responsibility to ensure that the well, primary drainfield and reserve area are designed and installed on the applicant's property and does not interfere with utilities and easements.

OSE Job # : 1231-19-032



# Design Calculations

Property ID: Lake Wilderness Lot 21 [REDACTED]

## Flow

Type of use (residential, etc) <u>Residential</u> No. of bedrooms: <u>3</u> No. of employees: _____ Square Footage of building space: <u>1200</u> Daily flow (peak design) in GPD: <u>450</u>	Show Calculations Here <sup>1</sup>
---	-------------------------------------

## Treatment

No. of septic tanks: <u>1</u> Size of septic tank(s): <u>1000</u> Pretreatment required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, specify type of treatment device: _____	Show Calculations Here <sup>1</sup>
--	-------------------------------------

## Absorption area design

Soil Texture Group: <u>III</u> 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  Alternative Reserve TL-3 3 Ditches 75' Long 675 sq ft provided 662 sq ft required	If pump system, enhanced flow, or LPD show calculations here or on a separate sheet. (dosing volume, head, pump design, etc.)
---	---

## Water Supply

Class of well: <u>public</u> Distance between septic tank(s) and well: _____ Distance between absorption area and well: _____	Describe (bored, drilled): <u>Drilled</u>
---	---

<sup>1</sup> Information and calculations required for commercial and/or conditional use applications only