

Application for: ☒ Sewage System ☐ Water Supply

Due Date

Phone (732) 530-2501

Phone _____

Fax _____

Phone _____

Phone _____

Fax _____

Email _____

Subdivision _____ Section _____ Block _____ Lot _____

Dimension/Acreage of Property 4.206 Acres

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.

Proposed Use:

☐ Other (describe) _____

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

Seasonal or temporary use not to exceed 1 year.

Do you wish to apply for a betterment loan eligibility letter? *There is a \$50.00 fee for determination of eligibility.

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

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

Is this a private sector OSF/PE application yes [X] no [] If yes is the OSF/PE package attached yes [X] 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 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 always 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 system sites must be clearly marked and 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.

Special Agent

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This form contains personal information subject to disclosure under the Freedom of Information Act

OSE/PE Report for

Construction ☐ Repair ☐ Voluntary Upgrade ☐ Certification ☐ Subdivision ☒
 Permit Permit Permit Letter Approval

Property Location:

911 Address: _____, City: _____
 Lot _____, Section _____, Subdivision _____
 GPIN or Tax Map # TM 57-115A Parcel D Health Dept. ID # _____
 Latitude _____, Longitude _____

Applicant or Client Mailing Address:

Name: Perl and Lillie Builders, LLC
 Street: 926 Shaw Circle
 City: Melbourne, State: FL, Zip Code: 32940

Prepared by:

OSE Name Thomas A. Warby, License # 1940-001009
 Address 13235 Matts Ln
 City Culpeper, State Virginia, Zip Code 22701

P. E. Name Thomas A. Warby, License # 0402018466
 Address 13235 Matts Ln
 City Culpeper, State Virginia, Zip Code 22701

Date of Report November 10, 2023

Date of Revision #1 _____

OSE/PE Job Number C1921

Date of Revision #2 _____

Contents/Index of this report:

<u>Certification Page</u>	<u>Soil Report/Profiles</u>	_____
<u>Application Page</u>	<u>Abbreviated Designs</u>	_____
<u>Site Location Map</u>	<u>Design Calculations</u>	_____
<u>San Survey/Site Dev Plan</u>	_____	_____

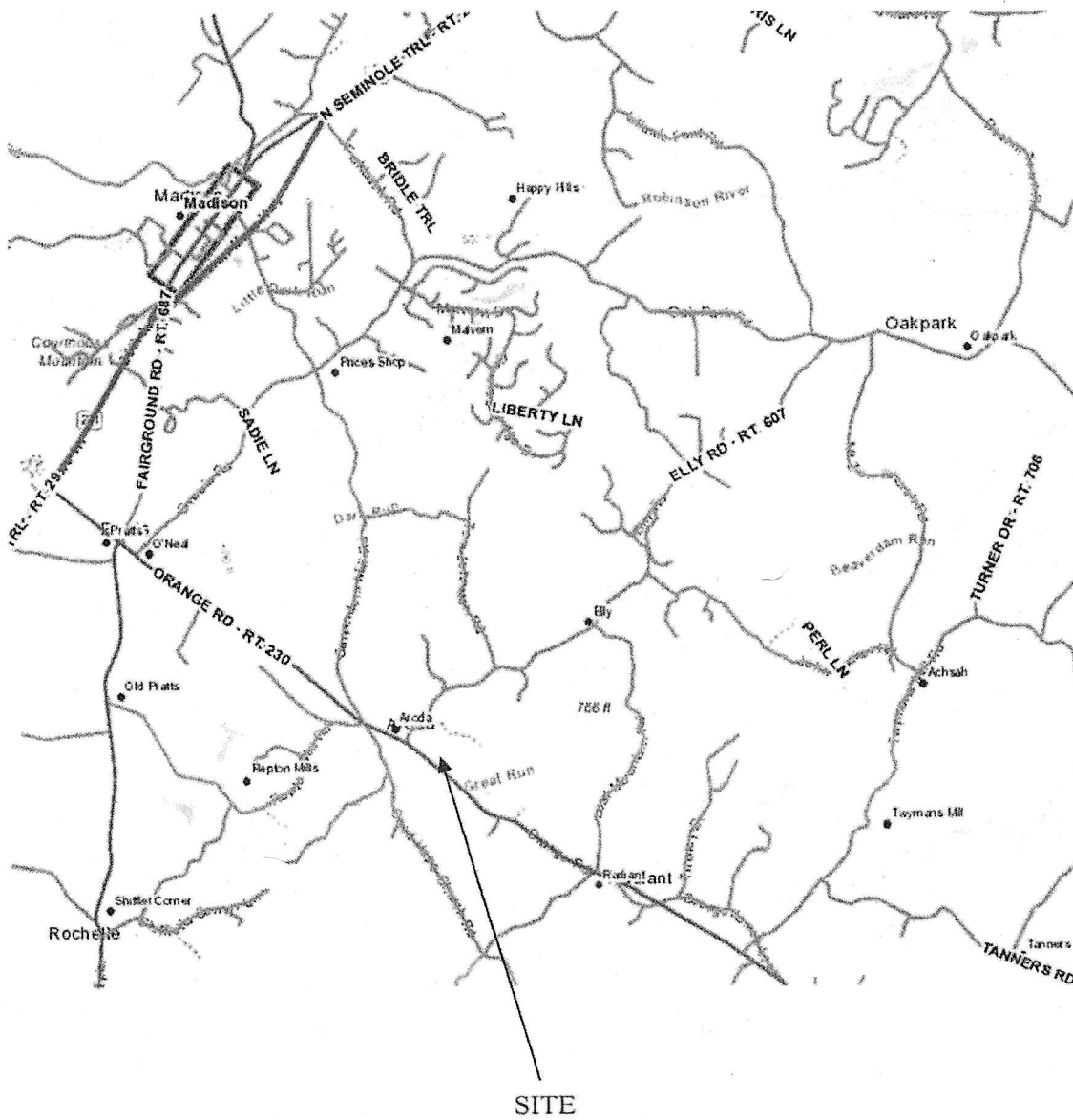
Certification Statement(s)

I hereby certify that the evaluations and/or designs contained herein were conducted in accordance with the Sewage Handling and Disposal Regulations (12 VAC5-610), the Private Well Regulations (12 VAC5-630), the Regulations for Alternative Onsite Sewage Systems (12VAC5-613) and all other applicable laws, regulations and policies implemented by the Virginia Department of Health. I further certify that I currently possess any professional license required by the laws and regulations of the Commonwealth that have been duly issued by the applicable agency charged with licensure to perform the work contained herein. The potential for both conventional and alternative onsite sewage systems has been discussed with the owner/applicant.

☐ 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

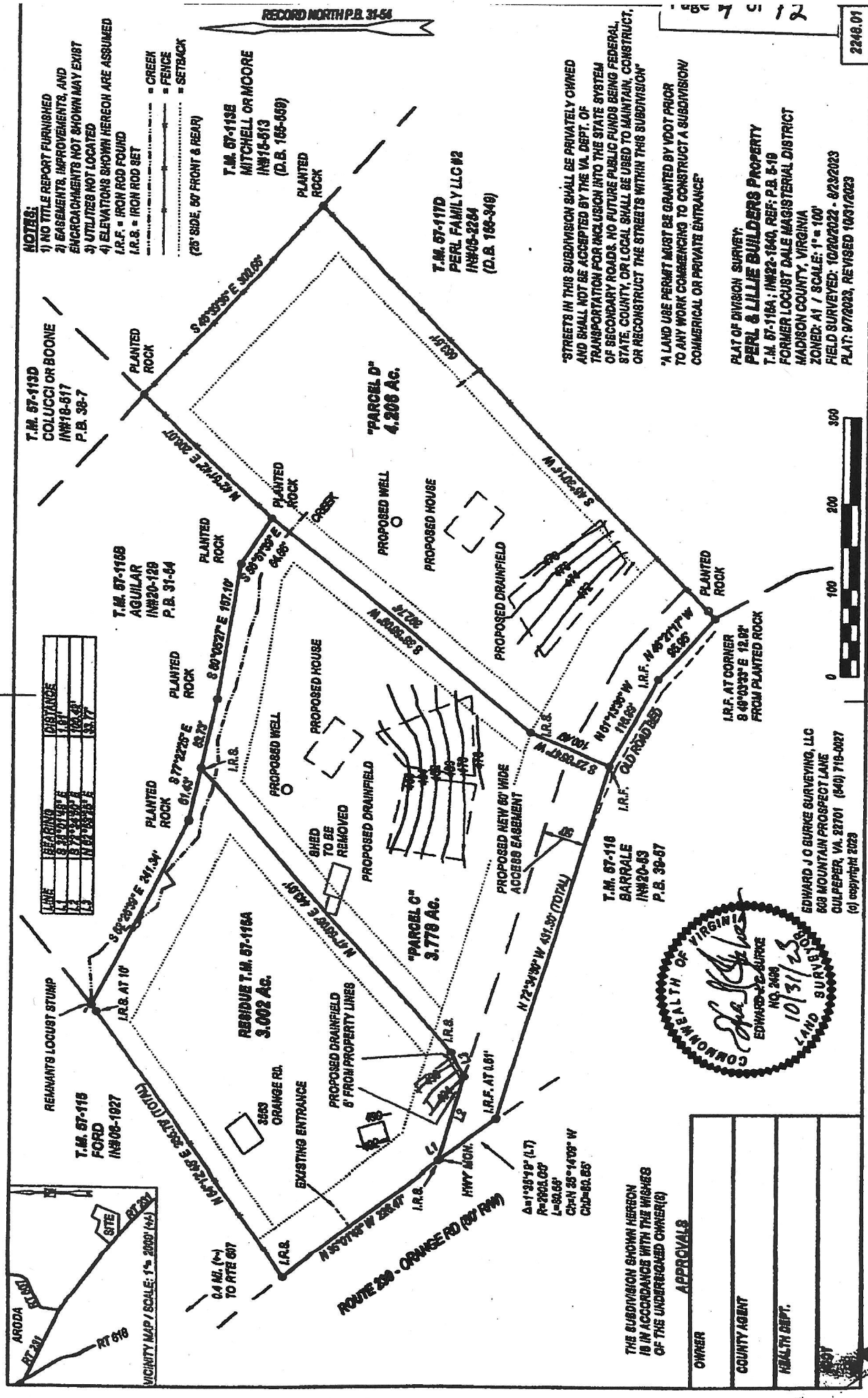
I recommend that a (select one) construction permit ☒ certification letter ☐ subdivision approval ☐
 repair permit ☐ voluntary upgrade ☐ be (select one) issued ☒ denied ☐

OSE/PE Signature T. A. Warby 11-17-23



SITE LOCATION MAP
TM 57-115A
MADISON COUNTY, VIRGINIA

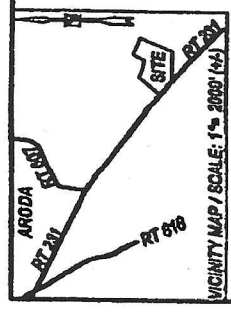
CMW PROJECT NO. C1921



NOTES:

- 1) NO TITLE REPORT FURNISHED
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- 3) UTILITIES NOT LOCATED
- 4) ELEVATIONS SHOWN HEREON ARE ASSUMED
- I.R.F. = IRON ROD FOUND
- I.R.B. = IRON ROD SET
- CREEK
- FENCE
- SETBACK
- (75' SIDE, 60' FRONT & REAR)

LINE	BEARING	DISTANCE
1	S 89° 50' 10" E	1.81
2	S 87° 34' 30" E	100.48
3	N 87° 34' 30" E	53.77



RECORD NORTH P.B. 31-54

"STREETS IN THIS SUBDIVISION SHALL BE PRIVATELY OWNED AND SHALL NOT BE ACCEPTED BY THE VA. DEPT. OF TRANSPORTATION FOR INCLUSION INTO THE STATE SYSTEM OF SECONDARY ROADS. NO FUTURE PUBLIC FUNDS BEING FEDERAL, STATE, COUNTY, OR LOCAL SHALL BE USED TO MAINTAIN, CONSTRUCT, OR RECONSTRUCT THE STREETS WITHIN THIS SUBDIVISION"

"A LAND USE PERMIT MUST BE GRANTED BY VDOT PRIOR TO ANY WORK COMMENCING TO CONSTRUCT A SUBDIVISION/ COMMERCIAL OR PRIVATE ENTRANCE"

PLAT OF DIVISION SURVEY:
PERL & LILLIE BUILDERS PROPERTY
T.M. 57-115A: IN#2-1540, REF: P.B. 5-19
FORMER LOCUST DALE MAGISTERIAL DISTRICT
HADISON COUNTY, VIRGINIA
ZONED: AT / SCALE: 1" = 100'
FIELD SURVEYED: 10/20/2022 - 8/23/2023
PLAT: 9/7/2023, REVISED 10/31/2023

2246.01



EDWARD J.O. BURKE SURVEYING, LLC
608 MOUNTAIN PROSPECT LANE
CULPEPER, VA 22701 (840) 719-0027
(c) copyright 2023

OWNER	
COUNTY AGENT	
HEALTH DEPT.	

THE SUBDIVISION SHOWN HEREON IS IN ACCORDANCE WITH THE WISHES OF THE UNDERSIGNED OWNER(S)

APPROVALS

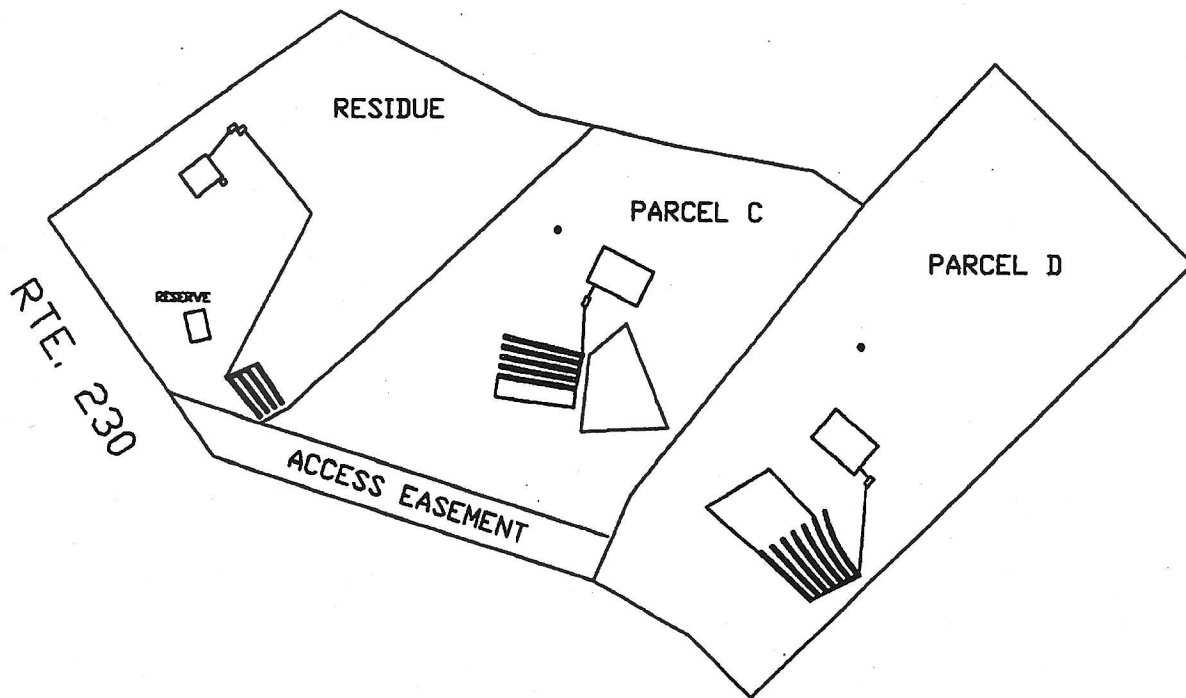
$\Delta = 138.10'$ (L7)
 $R = 2903.00'$
 $L = 90.66'$
 $Ch = N 28° 14' 05" W$
 $ChD = 60.85'$

ROUTE 200 - ORANGE RD (60' ROW)

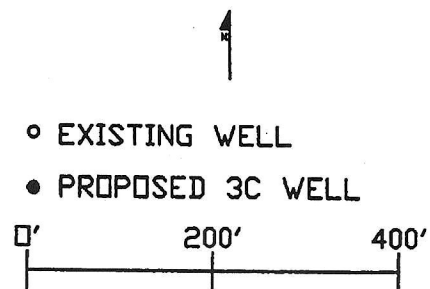
EXISTING ENTRANCE
3553 ORANGE RD.

0.4 MI. (±) TO RTE 607

VICINITY MAP / SCALE: 1" = 2000' (±)



THERE ARE NO OTHER
EXISTING OR
PROPOSED WELLS
WITHIN 200' OF THOSE
SHOWN.



CMW SOIL CONSULTANTS, LLC
13235 MATTS LANE
CULPEPER, VIRGINIA 22701
TEL: (540) 937-6623
FAX: (540) 937-6624

DATE: 11-9-23

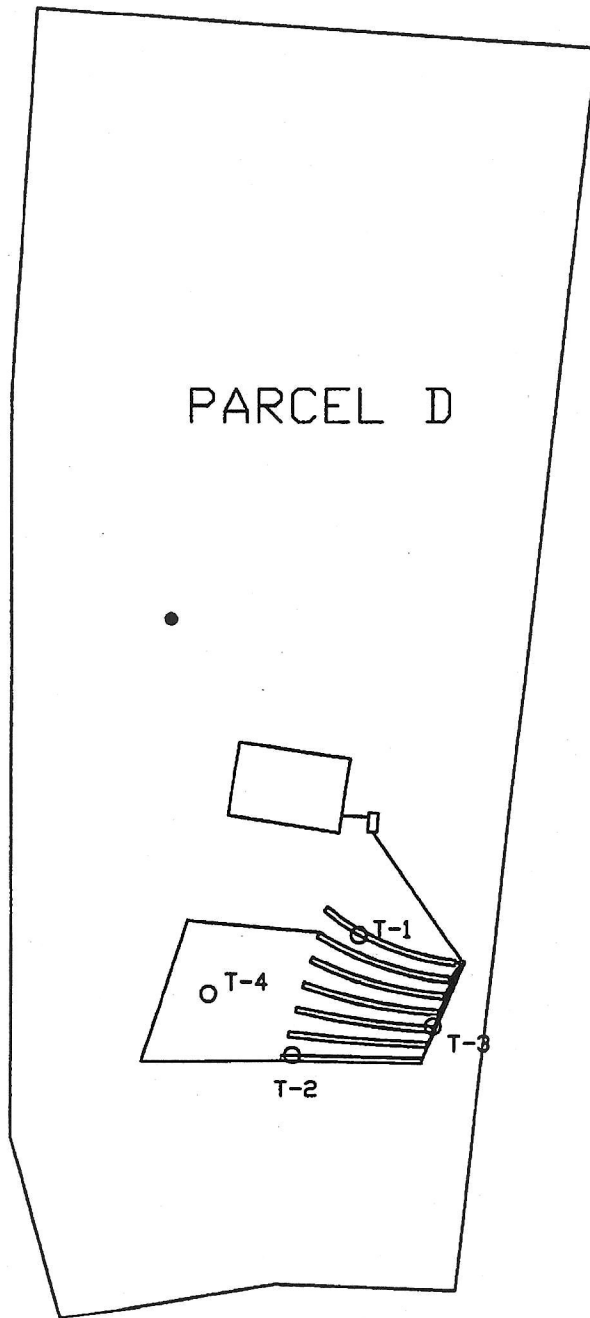
SCALE: 1" = 200'

DRWN: TAW

C1921

SANITARY SURVEY
TM 57-115A - MADISON COUNTY, VIRGINIA

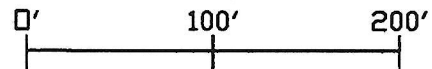
DWG. NO:



NOTES:

1. THE SEPTIC SYSTEM CONSISTS OF A TRADITIONAL DRAIN FIELD WITH 7 DRAIN LINES 75' LONG, 3' WIDE INSTALLED 49" DEEP WITH GRAVEL IN THE TRENCHES. IF EZ FLOW PANELS ARE USED ONLY 6 OF THE 7 LINES NEED TO BE INSTALLED.
2. KEEP ALL UNDERGROUND UTILITIES AT LEAST 10' FROM THE DRAIN FIELD.
3. INSTALLATION IS TO BE DONE IN DRY CONDITIONS ONLY.
4. SEE THE SURVEY PROVIDED (PAGE 4 OF 12) FOR THE EXACT WELL AND DRAIN FIELD LOCATIONS. THE DRAIN FIELD CORNERS ARE MARKED IN THE FIELD.

○ SOIL BORING LOCATION
● PROPOSED 3C WELL



CMW SOIL CONSULTANTS, LLC
13235 MATTS LANE
CULPEPER, VIRGINIA 22701
TEL: (540) 937-6623
FAX: (540) 937-6624

DATE: 11-10-23

SCALE: 1" = 100'

DRWN: TAW

C1921

SITE DEVELOPMENT PLAN PARCEL D
TM 57-115A - MADISON COUNTY, VIRGINIA

DWG. NO:

VDH Use Only

Health Department ID#: _____
Due Date: _____**Site and Soil Evaluation Report**
(For certification letters and subdivisions)**General Information**

Date: November 10, 2023 Culpeper County Health Department
 Applicant: Perl and Lillie Builders, LLC
 Telephone Number: (732) 530-2501
 Address: 926 Shaw Circle; Melbourne, FL 32940
 Owner: Same Address: Same
 Location: TM 57-115A; Madison County, VA
 Subdivision: _____ Block/Section _____ Lot Parcel D

Soil Information Summary

1. Position in landscape satisfactory? X yes ___ no Describe: Side slope.
2. Slope 10-12 %
3. Depth to rock/impervious strata Max. ___ Min. ___ None X.
4. Free water present? ___ yes X no Range in inches N/A.
5. Depth to seasonal water table (gray mottling or gray color):
NA inches (primary) NA inches (reserve)
6. Soil percolation rate estimated: Yes X Texture group [] I [X] II [X] III [] IV
No ___ Estimated rate 45 (pri), 80 (res) min/in.
7. Percolation test performed: Yes ___ Number of percolation test holes ___
No X Depth of percolation test holes ___
Average percolation rate ___ mpi.

Name and title of evaluator: Thomas A. Warby, OSE, P.E.Signature: *T. Warby* 11-17-23**Department Use**

___ Site approved: Drainfield trench bottoms to be placed at ___ (inches) depth at site designated on permit.

___ Site disapproved: (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 REPORTDate of Evaluation: December 8, 2022.Property ID: TM 57-115A Parcel D; Madison County, Virginia.

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 of 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' of site (See section 4) and reserve site shall be shown on the reserve 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.

<u>Hole</u>	<u>Horizon</u>	<u>Depth, in.</u>	<u>Soil Description</u>	<u>Group</u>
T-1	A	0-2	5YR4/4 Reddish brown clay loam	3
	E	2-6	5YR4/4 Redish brown silty clay loam	3
	Bt	6-16	2.5YR4/6 Red clay loam.	3
	BC	16-26	2.5YR4/6 Red silty clay loam with 2.5YR5/4 Reddish brown, 7.5YR6/4 Light brown, and 5YR6/8 Reddish yellow	3
	C1	26-46	5YR5/8 Yellowish red sandy loam with 7.5YR5/6 Strong brown and 10YR6/4 Light yellowish brown colors.	2
	C2	46-72	10YR6/4 Light yellowish brown sandy loam with 7.5YR5/6 Strong brown 5YR5/8 Yellowish red and few White (parent) colors	2
T-2	A	0-2	7.5YR4/3 Brown silty clay loam	3
	E	2-5	7.5YR5/3 Brown silty clay loam	3
	Bt	5-13	7.5YR5/4 Brown and 5YR4/4 Reddish brown silty clay loam.	3
	BC	13-24	7.5YR5/4 Brown and 5YR4/4 Reddish brown Silt loam to loam	3/2
	C1	24-47	7.5YR5/4 Brown and 5YR4/4 Reddish brown Loam.	2
	C2	47-72	5YR4/4 Reddish brown and 7.5YR4/4 Brown loam	2
T-3	A	0-2	7.5YR4/3 Brown silty clay loam	3
	Bt	2-15	5YR4/4 Reddish brown clay loam.	3
	BC	15-27	5YR4/4 Reddish brown and 10YR6/4 Light yellowish brown silty clay loam	3
	C	27-73	7.5YR5/4 Brown and 5YR4/4 Reddish brown loam.	2

SOIL EVALUATION REPORTDate of Evaluation: December 8, 2022.Property ID: TM 57-115A Parcel D; Madison County, Virginia.

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 of 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' of site (See section 4) and reserve site shall be shown on the reserve 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.

<u>Hole</u>	<u>Horizon</u>	<u>Depth, in.</u>	<u>Soil Description</u>	<u>Group</u>
T-4	A	0-2	7.5YR4/3 Brown silty clay loam	3
	Bt	2-8	5YR4/4 Reddish brown silt loam.	3
	C	8-33	7.5YR4/4 Brown loam.	2

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, [X] only the primary area, [] only the reserve area for TM 57-115A Parcel d; Madison County, Va.

Design basis

Total length of available area: 75'. Total width of available area: 59'.

Estimated Perc. Rate: 45 at 48 in. (depth) Number of bedrooms (or GPD): 4 (600).

Conveyance method¹: gravity. Distribution method²: D Box.

Dispersal system basis³: Table 5.4 of SHDR. LGMI required? No.

Effluent quality required: Primary (Primary, Secondary, Advanced Secondary)

Square feet per bedroom: 344. Total trench bottom area required: 1376.

¹Gravity, pump, siphon

²Enhanced flow, LPD or Drip Dispersal

³Table 5.4 of SHDR or identify the GMP used

Area Calculations

Number of trenches: 7. (Note if pad is used) Length of pad or trenches: 75'.

Width of pad or trenches: 3'. Center to center spacing: 9'+ (flairs).

Reserve required?: Yes. Percent reserve area required: 100%.

Total width of absorption area required: 57'. Total trench bottom area provided: 1575.

The required width is calculated by multiplying the center to center spacing by one less than the number of trenches and adding one 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.

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, [] only the primary area, [X] only the reserve area for TM 57-115A Parcel D; Madison County, Va.

Design basis

Total length of available area: 75' Total width of available area: 80'

Estimated Perc. Rate: 80 at 12 in. (depth) Number of bedrooms (or GPD): 4 (600).

Conveyance method¹: pump Distribution method²: Drip

Dispersal system basis³: Table 5.5 of SHDR LGMI required? No

Effluent quality required: Advanced Secondary (Primary, Secondary, Advanced Secondary)

Square feet per bedroom: 150/.22=682 Total absorption area required: 2728.

¹Gravity, pump, siphon

²Enhanced flow, LPD or Drip Dispersal

³Table 5.4 of SHDR or identify the GMP used

Area Calculations

Number of trenches: TBD (Note if pad is used) Length of pad or trenches: 75.

Width of pad or trenches: TBD Center to center spacing: 2'+.

Reserve required?: Yes Percent reserve area required: 100%.

Total width of absorption area required: TBD Total absorption area provided: 5294.

The required width is calculated by multiplying the center to center spacing by one less than the number of trenches and adding one 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 flare 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.

Design CalculationsProperty ID: TM 57-115A Parcel D; Madison County, Va.

Flow Type of use (residential, etc.) <u>residential</u> . No. of bedrooms: <u>4</u> . No. of employees: <u>N/A</u> . Square Footage of building space: _____. Daily flow (peak design) in GPD: <u>600</u> .	Show Calculations Here ¹
Treatment No. of septic tanks: <u>1</u> . Size of septic tank(s): <u>1200 gallons</u> . Pretreatment required? <u>X</u> * yes <u>X</u> no If yes, specify type of treatment device: _____	Show Calculations Here ¹ *pretreatment only required for the drip reserve
Absorption area design Soil Texture Group: <u>2,3</u> . Reserve area required: <u>X</u> yes ____ no ____ 50% <u>X</u> 100% ____ other Specify other _____ The Madison County subdivision ordinance Requires a primary and a reserve drain field. Additionally a total of 10000 sf of drain field area is required. A total of 10518 sf of drain field area is provided.	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>3C</u> . Describe (bored, drilled): <u>drilled</u> . Distance between septic tank(s) and well: <u>50'</u> . Distance between absorption area and well: <u>100'</u> .	

¹ Information and calculations required for commercial and/or conditional use applications only.

- NOTES:**
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 - 4) ELEVATIONS SHOWN HEREON ARE ASSUMED
- I.R.F. = IRON ROD FOUND
I.R.S. = IRON ROD SET
- = CREEK
— = FENCE
— = SETBACK
- (25' SIDE, 50' FRONT & REAR)

T.M. 57-113D
COLUCCI OR BOONE
INH#18-517
P.B. 38-7

T.M. 57-115B
AGUILAR
INH#20-129
P.B. 31-54

LINE	BEARING	DISTANCE
L1	S 36°01'48" E	1.91'
L2	S 72°34'50" E	100.42'
L3	N 62°53'25" E	33.77'

T.M. 57-115
FORD
INH#08-1927

RESIDUE T.M. 57-115A
3.002 AC.

"PARCEL C"
3.778 AC.

"PARCEL D"
4.206 AC.

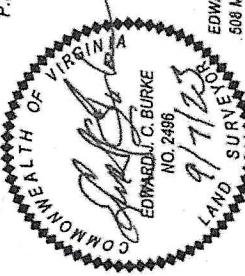
T.M. 57-117D
PERL FAMILY LLC #2
INH#05-2254
(D.B. 156-349)

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PLAT OF DIVISION SURVEY:
PERL & LILLIE BUILDERS PROPERTY
T.M. 57-115A : IN#22-1540, REF: P.B. 5-19
FORMER LOCUST DALE MAGISTERIAL DISTRICT
MADISON COUNTY, VIRGINIA
ZONED: A1 / SCALE: 1" = 100'
FIELD SURVEYED: 10/20/2022 - 8/23/2023
PLAT: 9/7/2023

EDWARD J C BURKE SURVEYING, LLC
508 MOUNTAIN PROSPECT LANE
CULPEPER, VA. 22701 (540) 718-0027
(c) copyright 2023



THE SUBDIVISION SHOWN HEREON IS IN ACCORDANCE WITH THE WISHES OF THE UNDERSIGNED OWNER(S)

APPROVALS

OWNER	
COUNTY AGENT	
HEALTH DEPT.	
VDOT	

