

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
01**Site:**
unified**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslopeSlope: 6%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 65Percolation test performed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

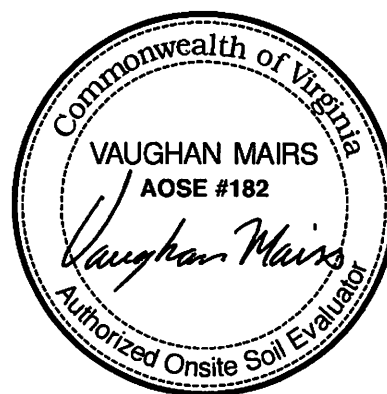
hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	65
Number of Bedrooms	3
Design Flow, gpd	490
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	12
On-Center Spacing, ft.	9
Usable Width of Area, ft.	102
Square Footage Required, sq. ft.	3247
Square Footage Available, sq. ft.	3600
Installation Depth, in.	48
Reserve Area Included in Layout	100%

Project number	03021
Lot	01
Site	unified



Other features

- ☒ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The design flow will accomodate 4 bedrooms if a conditional (reduced flow / limited occupancy) permit is recorded.

Onsite Soil Consulting, LLC

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1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

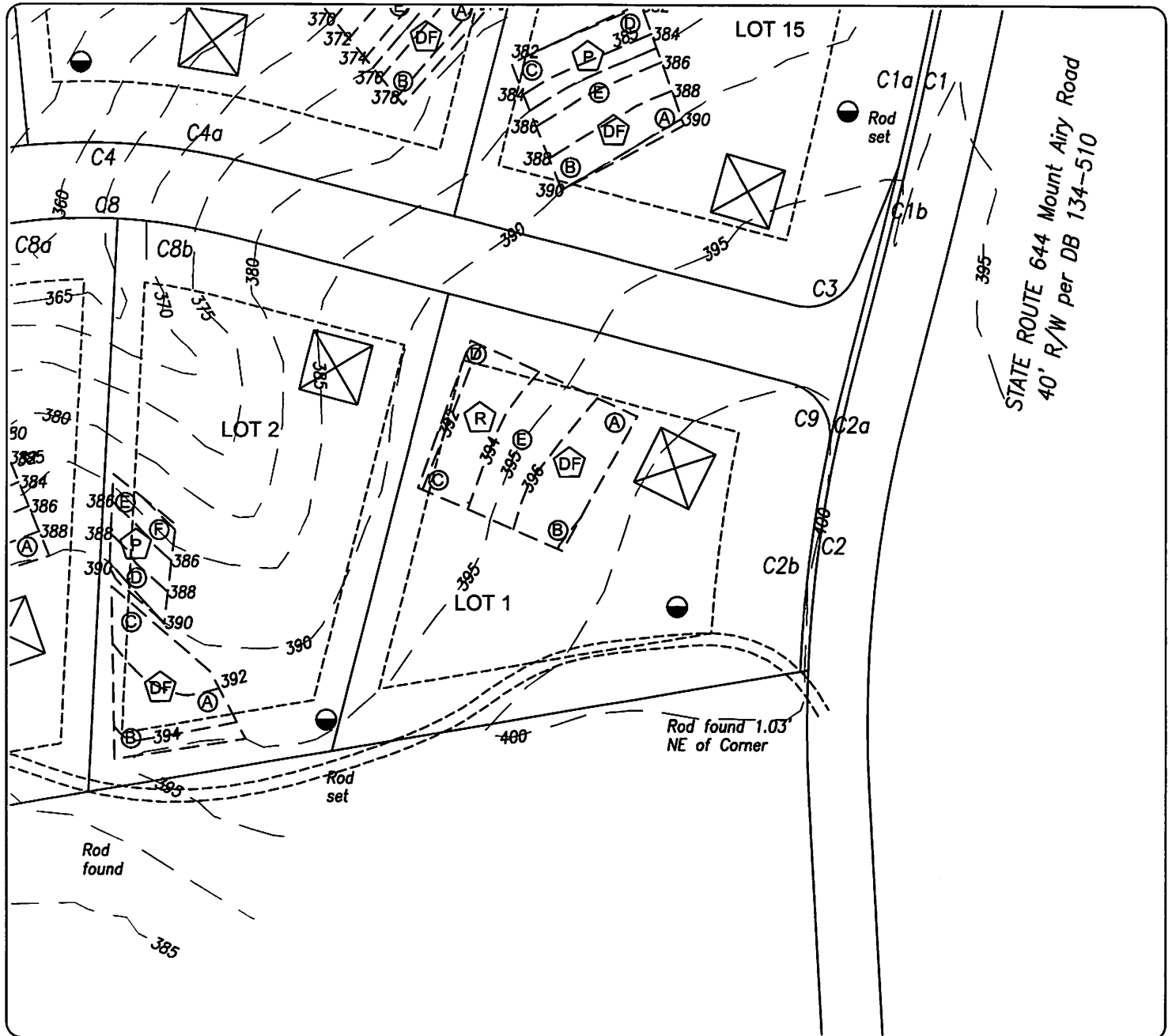
Sketch of:

Lot 1

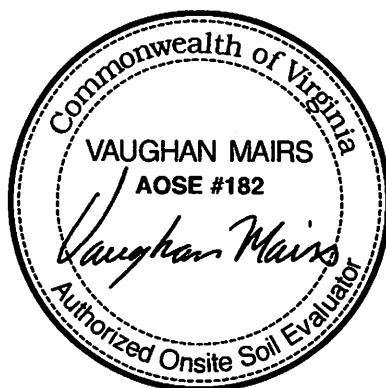
Hunterston

showing proposed

Drainfield, Well, & House Site



Scale: 1" = 100'



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIC



= Drip System



= Well, IIIB

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 5/12/2005**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 01**Site** unified

Horizon	Depth	Description	Texture
Hole ID: A			Class
Estimated rate, (min/in): 65@48 inches			
A	0-6	yellowish brown (10YR5/4) loam	II
BA	6-14	strong brown (7.5YR5/6) fine sandy clay loam	II
Bt	14-42	red (2.5YR4/6) clay loam to silty clay loam	III
BC	42-60	red (2.5YR4/8) light clay loam to light silty clay loam; few fine mica flakes	III
CB	60-66	red (2.5YR5/8) fine loam to light silty clay loam; few fine mica flakes	II
Hole ID: B			
Estimated rate, (min/in): 50@48 inches			
A	0-4	brown (10YR5/3) fine sandy loam	II
BA	4-12	strong brown (7.5YR5/6) fine sandy clay loam	II
Bt	12-24	red (2.5YR4/6) clay loam to silty clay loam	III
BC	24-46	red (2.5YR4/8) light clay loam to light silty clay loam	III
CB	46-66	red (2.5YR5/8) fine loam; few fine sandy clay loam tongues, few fine mica flakes	II
Hole ID: C			
Estimated rate, (min/in): 65@48 inches			
A	0-6	brown (7.5YR5/4) fine loam	II
BA	6-12	reddish brown (5YR5/4) fine sandy clay loam to light clay loam	II
Bt	12-36	red (2.5YR4/6) silty clay loam	III
CB	36-54	red (2.5YR4/8) light silty clay loam and silt loam; few fine mica flakes	III
C	54-66	reddish brown (2.5YR4/4), red (2.5YR4/6) silt loam schist saprolite -- friable; common mica flakes	III
Hole ID: D			
Estimated rate, (min/in): 65@48 inches			
A	0-4	yellowish brown (10YR5/4) loam	II
BA	4-10	reddish brown (5YR5/4) fine sandy clay loam	II
Bt	10-36	red (2.5YR4/6) fine clay loam	III
BC	36-48	red (2.5YR4/8) light clay loam	III
CB	48-66	red (2.5YR4/8) fine sandy clay loam	II
Hole ID: E			
Estimated rate, (min/in): 60@48 inches			
A	0-4	dark grayish brown (10YR4/2) fine sandy loam	II
BA	4-12	strong brown (7.5YR5/6) fine sandy clay loam	II
Bt	12-36	red (2.5YR4/6) silty clay loam	III
BC	36-48	red (2.5YR4/8) light silty clay loam; few mica flakes	III
CB	48-66	red (2.5YR4/6), yellowish red (5YR5/8) silt loam; few mica flakes	III



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 01 unified


Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Date:**

3/27/2006

Health Department:

Louisa

Project name:

"Hunterston," a division of {TM 70-46}

Lot:

02

Site:

primary

Airy Rd., about 1.6 miles northwest of SR

*Primary design is for 3BR
Reserve alternative design is for 4BR*

605, Shannon Hill Rd.

Position in Landscape: sideslope above swaleSlope: 5-8%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 65Percolation test performed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	65
Number of Bedrooms	3
Design Flow, gpd	450
Trench Length, ft.	85
Trench Width, ft.	3
Number of Trenches	6
On-Center Spacing, ft.	9
Usable Width of Area, ft.	48
Square Footage Required, sq. ft.	1491
Square Footage Available, sq. ft.	1530
Installation Depth, in.	48
Reserve Area Included in Layout	0%

Project number	03021
Lot	02
Site	primary



Other features

- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

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page 3 of 5

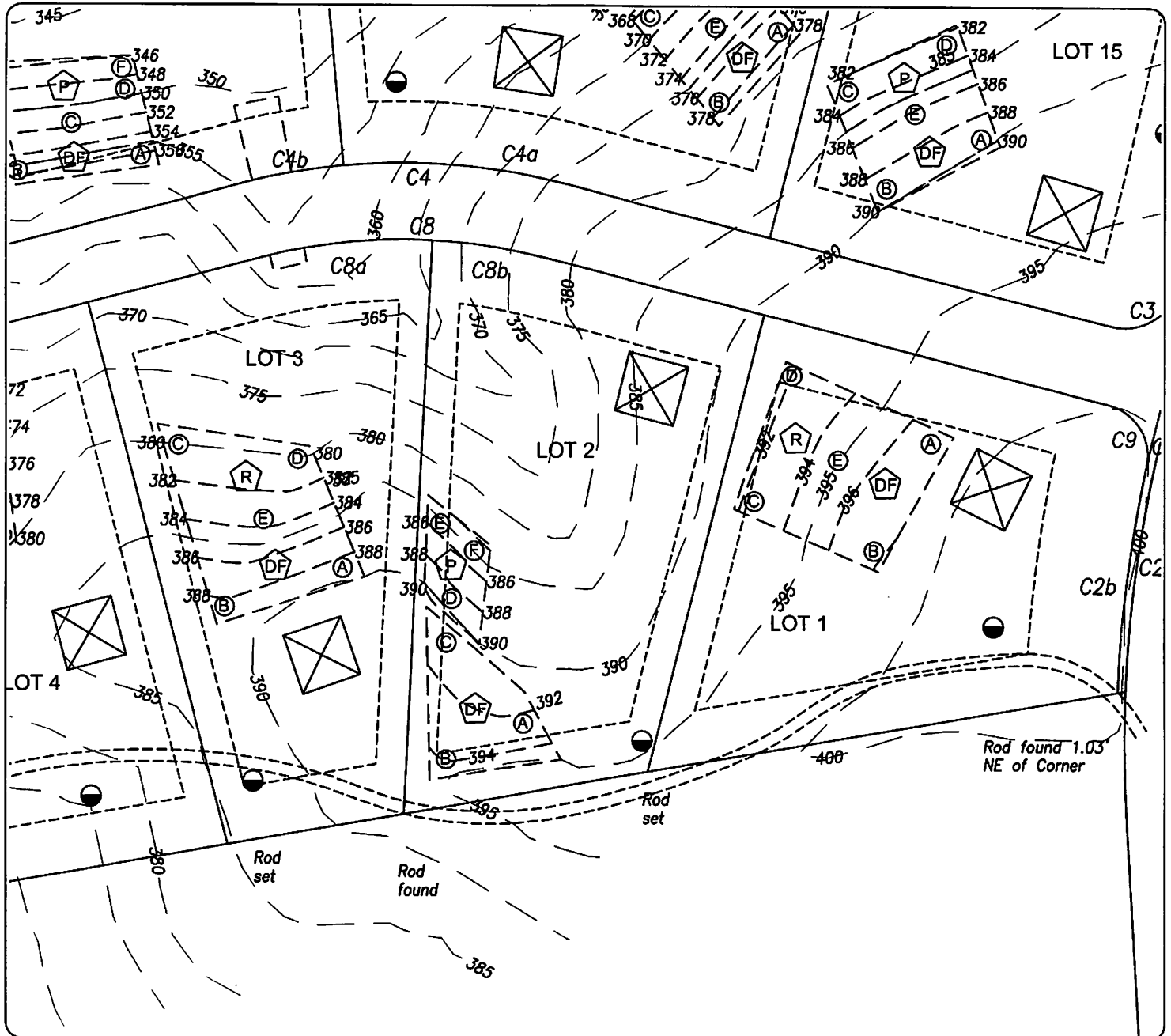
Sketch of:

Lot 2

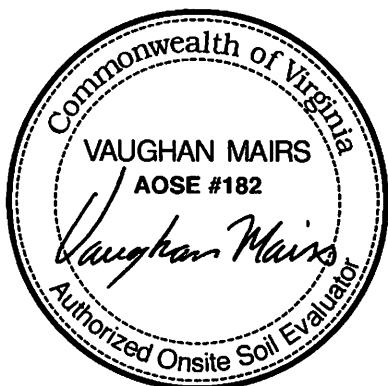
Hunterston

showing proposed

Drainfield, Well, & House Site



Scale: 1" = 100'



Legend



= House Site



= Bore Hole



= Test Pit



= Well, IIIC



= Well, IIIB



= Drainfield



= Reserve Drainfield



= Puraflo Drainfield



= Drip System

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions

Date of evaluation 1/27/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

Lot 02

Site primary

Horizon	Depth	Description	Texture Class
Hole ID: A			Estimated rate, (min/in): 65@48 inches
A	0-6	light olive brown (2.5Y5/4) loam	II
BA	6-46	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	46-46	yellowish brown (10YR5/6) fine clay loam; few light yellow brown (10YR6/4) mottles	III
BC	46-66	strong brown (7.5YR5/8) light clay loam	III
Hole ID: B			Estimated rate, (min/in): 65@48 inches
BA	0-8	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	8-38	red (2.5YR4/6) clay loam; few fine mica flakes	III
BC	38-66	yellowish red (5YR5/6), strong brown (7.5YR5/8) fine sandy clay loam and light clay loam; few fine mica flakes	II
Hole ID: C			Estimated rate, (min/in): 55@48 inches
BA	0-6	reddish brown (5YR5/4) fine sandy clay loam	II
Bt	6-36	red (2.5YR4/6) fine clay loam	III
BC	36-46	red (10R4/6) light clay loam; few quartz fragments	III
CB	46-66	red (10R4/8), strong brown (7.5YR5/8) loam to fine sandy clay loam; few fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 02 primary

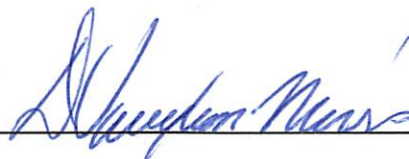
Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



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Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
03**Site:**
unified**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslope above swaleSlope: 10%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 60Estimated rate slowest hole: 65Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	60
Number of Bedrooms	3
Design Flow, gpd	490
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	10
On-Center Spacing, ft.	10
Usable Width of Area, ft.	93
Square Footage Required, sq. ft.	2961
Square Footage Available, sq. ft.	3000
Installation Depth, in.	42
Reserve Area Included in Layout	100%

Project number	03021
Lot	03
Site	unified



Other features

- ☒ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The design flow will accomodate 4 bedrooms if a conditional (reduced flow / limited occupancy) permit is recorded.

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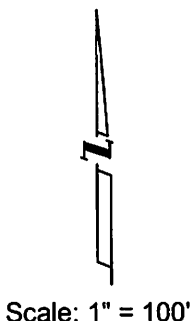
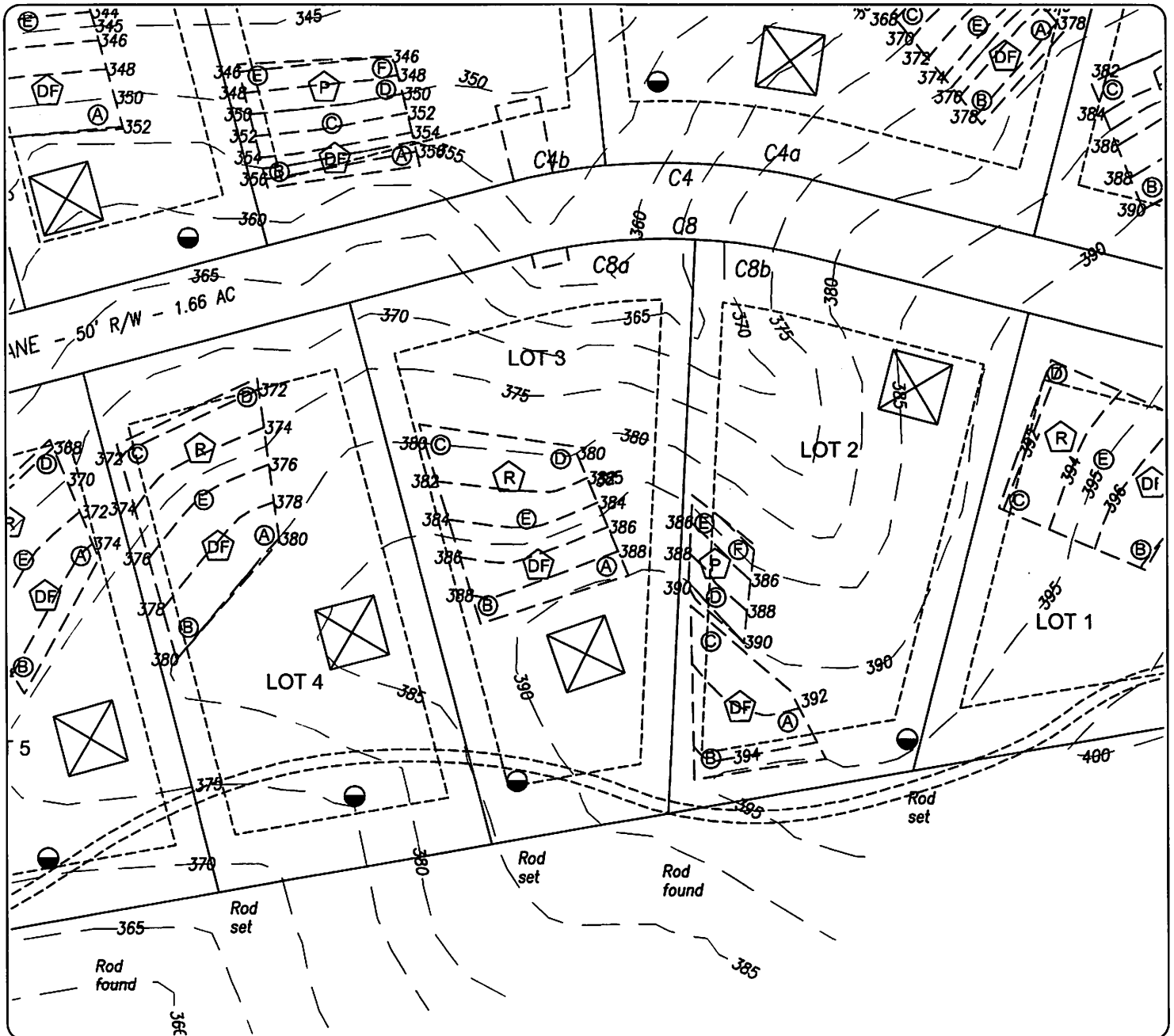
Sketch of:

Lot 3

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/2/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 03**Site** unified

Horizon	Depth	Description	Texture Class
Hole ID: A			Estimated rate, (min/in): 55@42 inches
A	0-4	brown (10YR4/3) loam	II
BA	4-8	brown (7.5YR5/4) fine sandy clay loam; few quartz fragments	II
Bt	8-36	red (2.5YR4/6) clay loam	III
CB	36-48	red (2.5YR5/8) fine sandy clay loam	II
C	48-66	reddish brown (2.5YR5/4) fine loam; few fine mica flakes	II
Hole ID: B			Estimated rate, (min/in): 60@42 inches
A	0-4	dark grayish brown (10YR4/2) loam	II
BA	4-8	brown (7.5YR5/4) fine sandy clay loam; few quartz fragments	II
Bt	8-34	red (2.5YR4/6) clay loam	III
CB	34-60	red (2.5YR4/8) fine sandy clay loam with light clay loam; few fine mica flakes	II
Hole ID: C			Estimated rate, (min/in): 50@42 inches
BA	0-8	yellowish brown (10YR5/4) fine sandy clay loam; few quartz fragments	II
Bt	8-30	yellowish red (5YR5/8) light clay loam	III
BC	30-40	yellowish red (5YR5/6), strong brown (7.5YR5/8) light clay loam and fine sandy clay loam	III
CB	40-66	yellowish red (5YR5/8), yellowish brown (10YR5/8) fine loam; few fine mica flakes	II
Hole ID: D			Estimated rate, (min/in): 65@42 inches
A	0-4	dark grayish brown (10YR4/2) loam	II
BA	4-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-38	red (2.5YR4/6) light clay loam	III
BC	38-48	red (2.5YR4/8) light clay loam and fine sandy clay loam; few fine mica flakes	III
CB	48-60	red (2.5YR4/6), reddish brown (2.5YR5/4) fine sandy clay loam; few fine mica flakes	II
Hole ID: E			Estimated rate, (min/in): 60@42 inches
A	0-8	reddish brown (5YR5/4) light clay loam	III
Bt	8-24	red (2.5YR4/6) silty clay loam	III
BC	24-36	red (2.5YR4/8), yellowish red (5YR5/8) light silty clay loam	III
C	36-66	red (2.5YR5/6), light reddish brown (5YR6/4), light yellowish brown (10YR6/4) silt loam	III



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 03 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
04**Site:**
unified**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslopeSlope: 7%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 60Estimated rate slowest hole: 60Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

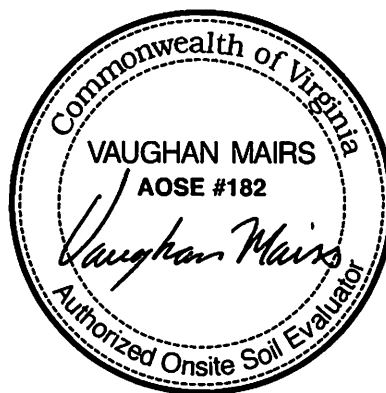
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Name and title of evaluator:D. Vaughan Mairs, AOSE #182
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Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	60
Number of Bedrooms	4
Design Flow, gpd	600
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	12
On-Center Spacing, ft.	9
Usable Width of Area, ft.	102
Square Footage Required, sq. ft.	3626
Square Footage Available, sq. ft.	3600
Installation Depth, in.	48
Reserve Area Included in Layout	100%

Project number	03021
Lot	04
Site	unified



Other features

- ☒ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

Square Footage Required substantially complies with SH&D regulations.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

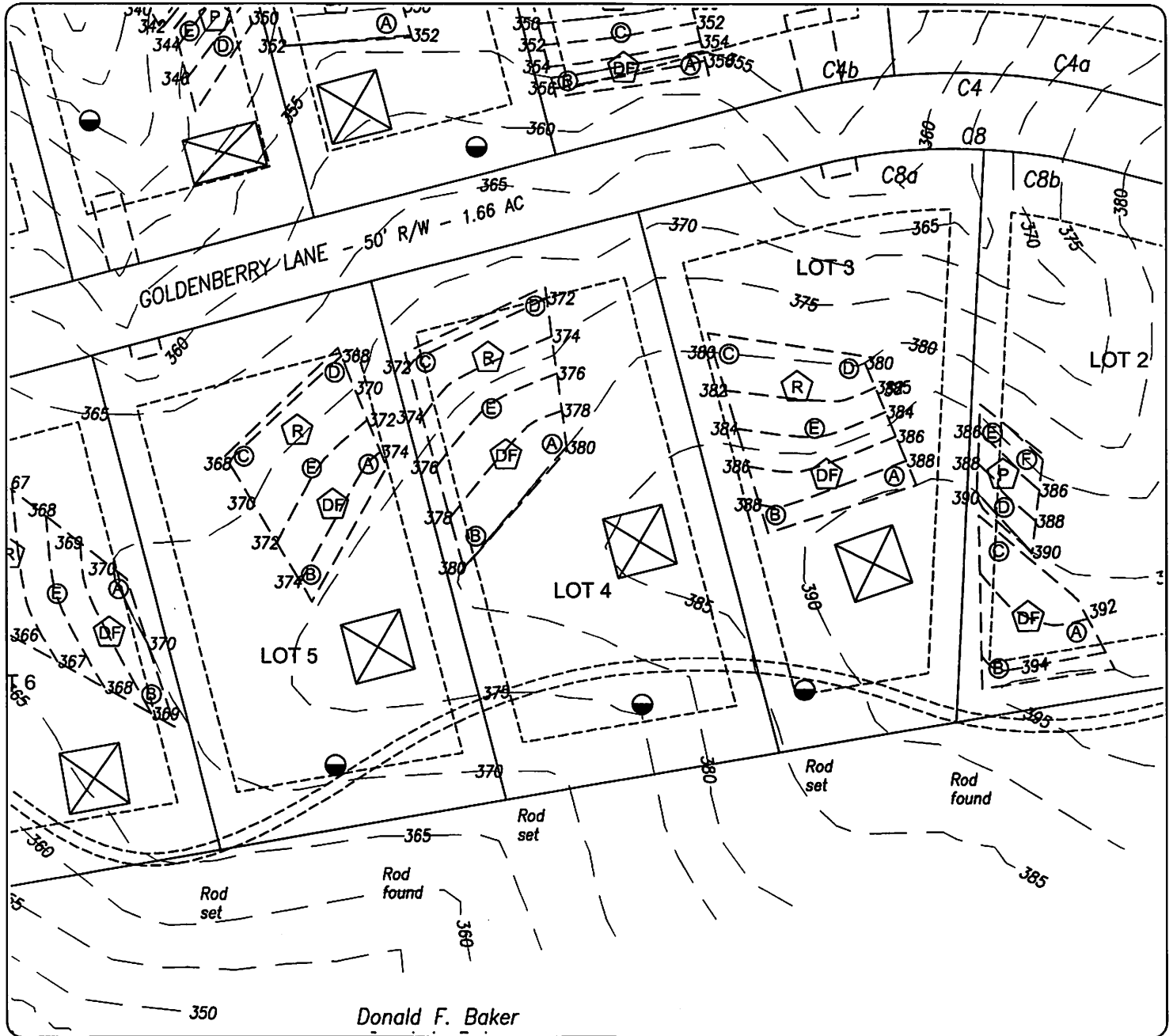
Sketch of:

Lot 4

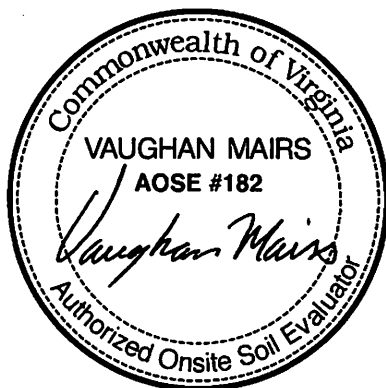
Hunterston

showing proposed

Drainfield, Well, & House Site



Scale: 1" = 100'



Legend



= House Site



= Bore Hole



= Test Pit



= Well, IIIC



= Well, IIIB



= Drainfield



= Reserve Drainfield



= Puraflow Drainfield



= Drip System

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/2/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 04**Site** unified

Horizon	Depth	Description	Texture
Hole ID: A			Class
Estimated rate, (min/in): 55@48 inches			
A	0-4	yellowish brown (10YR5/4) fine sandy loam	II
BA	4-12	reddish yellow (7.5YR6/6) loam	II
Bt	12-30	red (2.5YR4/6) fine clay loam	III
BC	30-46	red (2.5YR4/8) light clay loam to fine sandy clay loam	III
CB	48-66	red (2.5YR5/8) fine sandy clay loam	II
Hole ID: B			
Estimated rate, (min/in): 55@48 inches			
A	0-4	dark grayish brown (10YR4/2) fine sandy loam	II
BA	4-8	brown (7.5YR5/4) fine sandy clay loam	II
Bt	8-26	red (2.5YR4/6) fine clay loam	III
BC	26-40	red (2.5YR4/8) light clay loam to light silty clay loam	III
CB	40-66	red (2.5YR5/8) loam to light silt loam	II
Hole ID: C			
Estimated rate, (min/in): 60@48 inches			
A	0-3	brown (10YR4/3) loam	II
BA	3-8	brown (7.5YR5/4) fine sandy clay loam	II
Bt	8-42	yellowish red (5YR5/6) silty clay loam	III
CB	42-60	red (2.5YR4/6), reddish brown (2.5YR5/4) silt loam and light silty clay loam; common fine mica flakes	III
C	60-66	red (2.5YR4/6), reddish brown (5YR5/4) silt loam mica schist saprolite	III
Hole ID: D			
Estimated rate, (min/in): 60@48 inches			
BA	0-10	yellowish brown (10YR5/4) fine sandy clay loam; few quartz fragments	II
Bt	10-34	red (2.5YR4/6) clay loam	III
BC	34-48	red (2.5YR4/8) fine sandy clay loam and light clay loam	II
CB	48-72	yellowish red (5YR5/8) fine sandy clay loam and fine loam; few fine mica flakes	II
Hole ID: E			
Estimated rate, (min/in): 55@48 inches			
A	0-3	yellowish brown (10YR5/4) fine sandy loam	II
BA	3-10	reddish yellow (7.5YR6/6) loam	II
Bt	10-36	red (2.5YR4/6) fine clay loam	III
BC	36-48	red (2.5YR4/8) light clay loam to fine sandy clay loam	III
CB	48-66	red (2.5YR5/8) fine sandy clay loam	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 04 unified

Submitted by: Onsite Soil Consulting, LLC

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Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



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Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021

Applicant: Stanford L. & Donna P. Hunter
 10200 Old Hunt Road
 Vienna, VA
 703-938-9899

Owner:

Date:
 3/27/2006

Health Department:
 Louisa

Project name:
 "Hunterston," a division of {TM 70-46}

Lot:
 05

Site:
 unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.

Position in Landscape: sideslope

Slope: 9%

Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____

Depth to seasonal water table (gray mottling or color), in.: None

Free water present: No Range in inches: _____

Percolation rate estimated: Yes

Texture class: III

Estimated rate average at depth: 50

Estimated rate slowest hole: 60

Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182
 1670 Merrifields Lane
 Ruckersville, Virginia 22968
 Tel: 434-973-0273, Fax: 434-964-1501



Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	50
Number of Bedrooms	4
Design Flow, gpd	600
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	10
On-Center Spacing, ft.	9
Usable Width of Area, ft.	84
Square Footage Required, sq. ft.	3016
Square Footage Available, sq. ft.	3000
Installation Depth, in.	48
Reserve Area Included in Layout	100%

Project number	03021
Lot	05
Site	unified



Other features

- ☒ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

Square Footage Required substantially complies with SH&D regulations.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

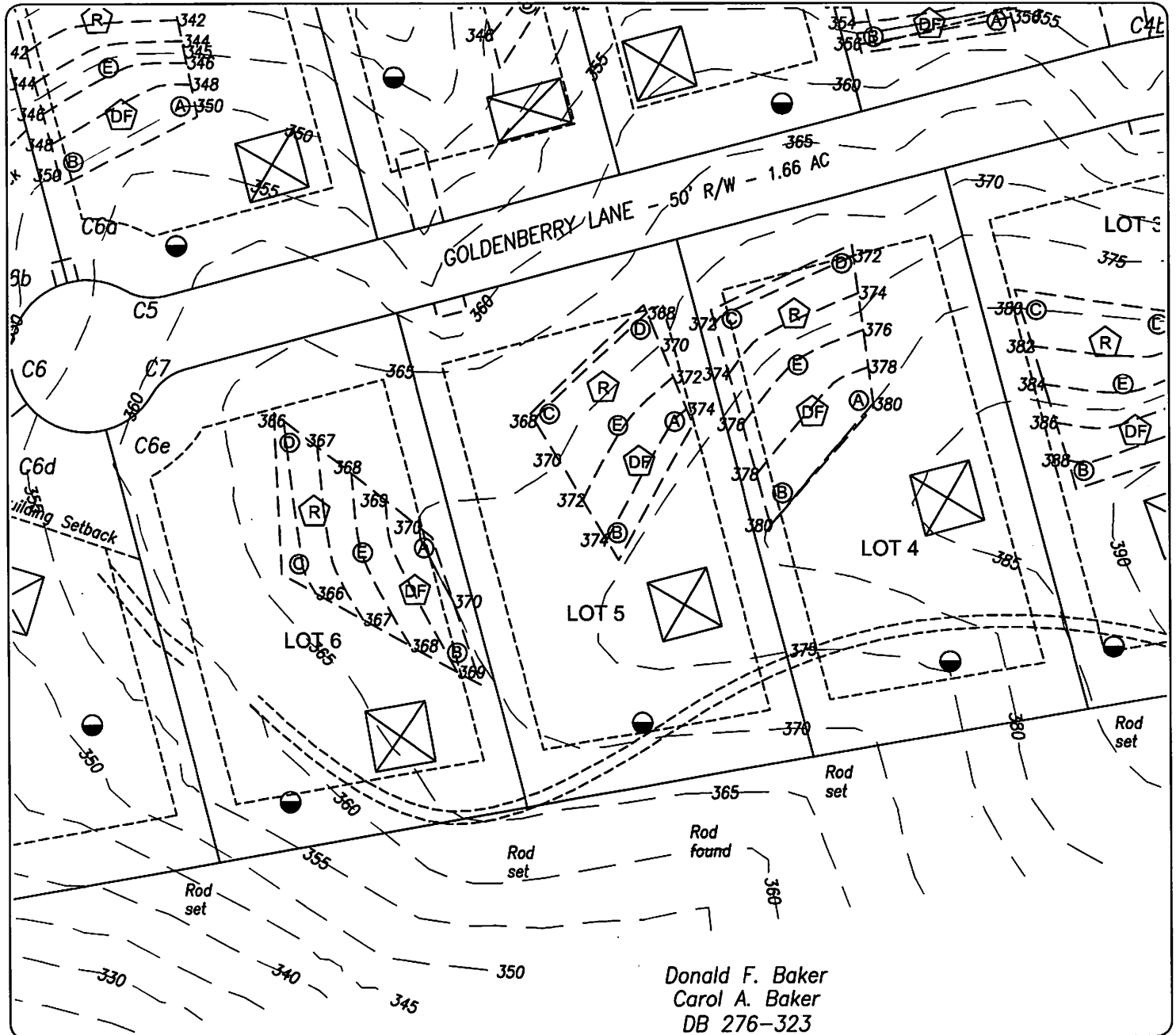
Phone: 434-973-0273 Fax: 434-964-1501

Sketch of:

Lot 5 Hunterston

showing proposed

Drainfield, Well, & House Site



Donald F. Baker
Carol A. Baker
DB 276-323

Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



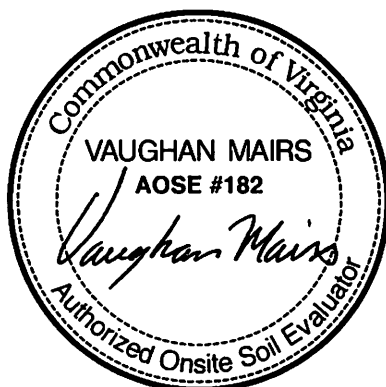
= Well, IIIC



= Drip System



= Well, IIIB



Scale: 1" = 100'

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions

Date of evaluation 2/2/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

Lot 05

Site unified

Horizon	Depth	Description	Texture
Hole ID: A			Class
Estimated rate, (min/in): 45@48 inches			
BA	0-12	yellowish brown (10YR5/4) sandy clay loam; few quartz fragments	II
Bt	12-30	red (2.5YR4/6) clay loam	III
BC	30-42	red (2.5YR4/8) light clay loam and fine sandy clay loam	III
CB	42-66	red (2.5YR5/8) loam and fine sandy clay loam; few fine mica flakes	II
Hole ID: B			
Estimated rate, (min/in): 45@48 inches			
BA	0-8	yellowish brown (10YR5/4) sandy clay loam	II
Bt	8-26	red (2.5YR4/6) clay loam; few fine mica flakes	III
BC	26-40	red (2.5YR4/8) fine sandy clay loam with few light clay loam tongues; few fine mica flakes	II
CB	40-66	yellowish red (5YR5/8) loam and fine sandy clay loam; few fine mica flakes	II
Hole ID: C			
Estimated rate, (min/in): 50@48 inches			
BA	0-10	brown (10YR5/3) fine sandy clay loam; few quartz fragments	II
Bt	10-42	red (2.5YR4/6) light clay loam; few fine mica flakes	III
BC	42-54	red (2.5YR4/8) fine sandy clay loam; few fine mica flakes	II
CB	54-66	yellowish red (5YR5/8), yellowish brown (10YR5/8) fine loam; few fine mica flakes	II
Hole ID: D			
Estimated rate, (min/in): 60@48 inches			
BA	0-8	yellowish brown (10YR5/4) sandy clay loam; few quartz fragments	II
Bt	8-36	yellowish red (5YR5/6) clay loam; few fine mica flakes	III
BC	36-48	yellowish red (5YR5/8) light clay loam and fine sandy clay loam; few fine mica flakes	III
CB	48-66	yellowish red (5YR5/8), light yellowish brown (10YR6/4) loam and fine sandy clay loam; few fine mica flakes	II
Hole ID: E			
Estimated rate, (min/in): 50@48 inches			
A	0-3	yellowish brown (10YR5/4) loam	II
BA	3-8	strong brown (7.5YR5/6) fine sandy clay loam	II
Bt	8-36	red (2.5YR4/6) clay loam	III
BC	36-48	red (2.5YR4/8) light clay loam and fine sandy clay loam	III
CB	48-66	red (2.5YR4/8), yellowish red (5YR5/8) fine sandy clay loam to silt loam	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

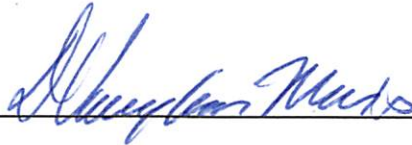
Site Identification: "Hunterston," a division of {TM 70-46}, Lot 05 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator: D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
06**Site:**
unified**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: ridgeSlope: 5%Depth to rock or impervious strata, in.: Yes maximum: _____ minimum: 54Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 75Percolation test performed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	65
Number of Bedrooms	3
Design Flow, gpd	490
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	12
On-Center Spacing, ft.	9
Usable Width of Area, ft.	102
Square Footage Required, sq. ft.	3247
Square Footage Available, sq. ft.	3600
Installation Depth, in.	36
Reserve Area Included in Layout	100%

Project number	03021
Lot	06
Site	unified

**Other features**

- ☒ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The design flow will accomodate 4 bedrooms if a conditional (reduced flow / limited occupancy) permit is recorded.

Onsite Soil Consulting, LLC

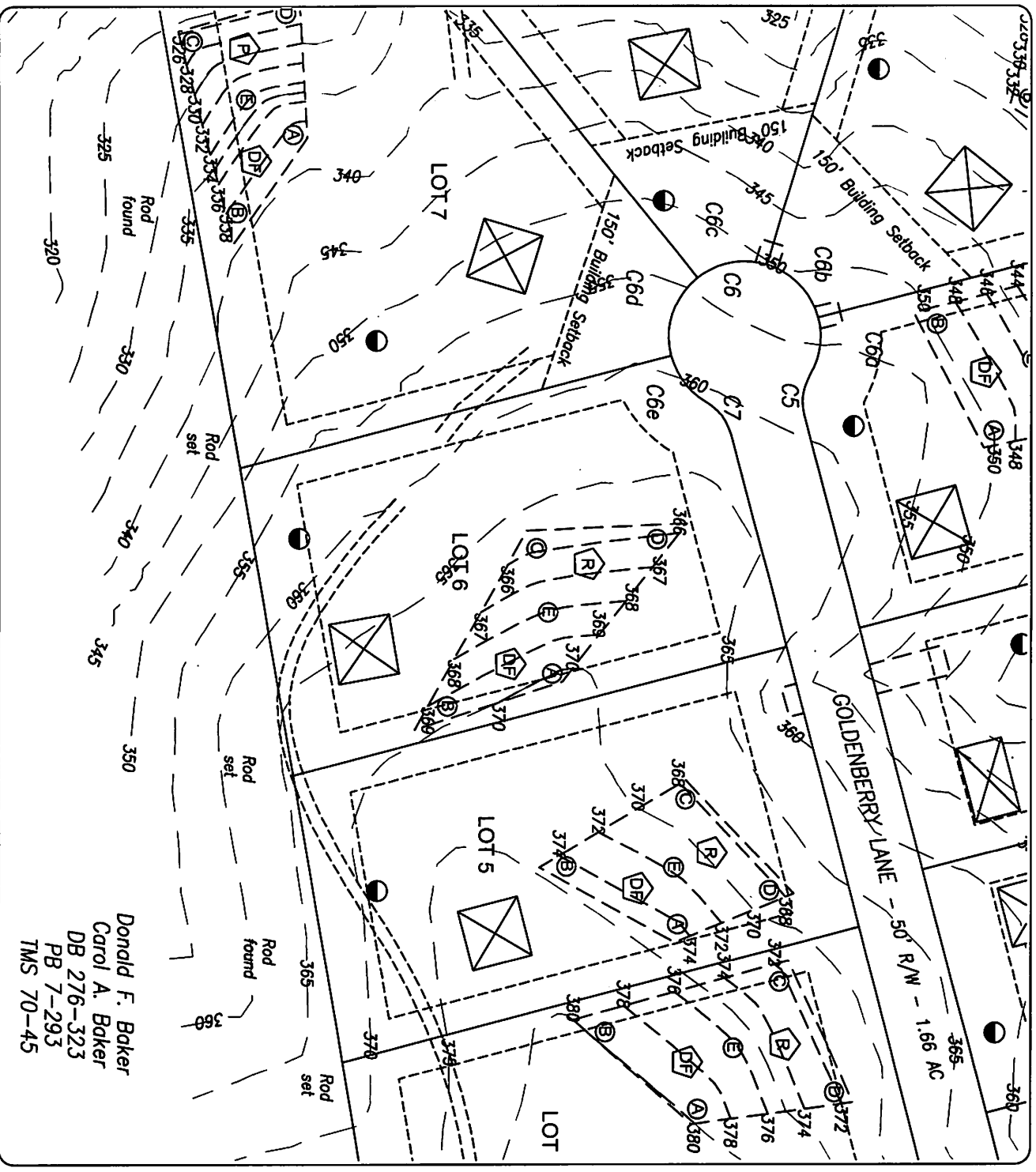
Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968
Phone: 434-973-0273 Fax: 434-964-1501

Sketch of:
Lot 6

Hunterston

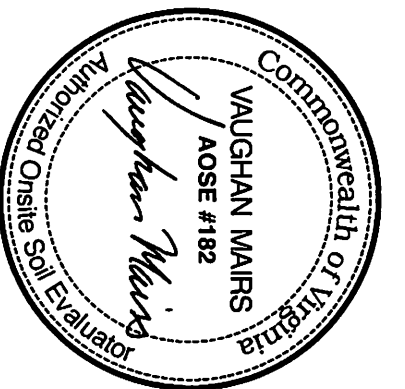
showing proposed
Drainfield, Well, & House Site



Legend

- | | | | |
|--|--------------|--|----------------------|
| | = House Site | | = Drainfield |
| | = Bore Hole | | = Reserve Drainfield |
| | = Test Pit | | = Purafto Drainfield |
| | = Well, IIIC | | = Drip System |
| | = Well, IIIB | | |

Scale: 1" = 100'

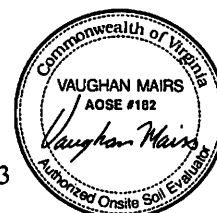


Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/7/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 06**Site** unified

Horizon	Depth	Description	Texture
Hole ID: A			Class
Estimated rate, (min/in): 50@36 inches			
A	0-4	brown (10YR5/3) loam	II
BA	4-10	strong brown (7.5YR5/6) light clay loam	III
Bt	10-30	red (2.5YR4/6) clay loam	III
BC	30-42	red (2.5YR4/8) fine sandy clay loam; few fine mica flakes	II
CB	42-66	red (10R4/8) fine loam; few fine mica flakes	II
Hole ID: B			
Estimated rate, (min/in): 70@36 inches			
A	0-4	brown (10YR5/3) loam	II
BA	4-10	strong brown (7.5YR5/6) light clay loam	III
Bt	10-36	red (2.5YR4/6) clay loam; few fine mica flakes	III
BC	36-66	red (2.5YR4/8), yellowish red (5YR5/8) light clay loam; few fine mica flakes	III
Hole ID: C			
Estimated rate, (min/in): 65@36 inches			
A	0-4	grayish brown (10YR5/2) loam	II
EB	4-10	brown (10YR5/3) fine sandy clay loam	II
BE	10-14	brown (7.5YR5/4) light silty clay loam	III
Bt	14-26	red (2.5YR4/6) silty clay loam	III
CB	26-40	red (2.5YR4/6), strong brown (7.5YR5/8) silt loam and light silty clay loam	III
C	40-54	light reddish brown (5YR6/4), light yellowish brown (10YR6/4), strong brown (7.5YR4/6) silt loam to fine sandy loam — auger refusal @ 54" — paralithic	III
Hole ID: D			
Estimated rate, (min/in): 65@36 inches			
A	0-3	brown (10YR4/3) loam	II
BA	3-8	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	8-20	yellowish red (5YR5/6) clay loam	III
BC	20-30	yellowish red (5YR5/6), strong brown (7.5YR5/6) fine sandy clay loam and clay loam; few fine mica flakes	II
C	30-66	dark yellowish brown (10YR4/4), brown (7.5YR5/4) fine loam saprolite and; many fine mica flakes, few fine sandy clay loam tongues	II
Hole ID: E			
Estimated rate, (min/in): 75@36 inches			
A	0-4	brown (10YR5/3) loam	II
AB	4-12	light yellowish brown (10YR6/4) fine sandy clay loam	II
Bt	12-42	yellowish red (5YR5/6) silty clay loam	III
BC	42-60	yellowish red (5YR5/8) light silty clay loam	III
Hole ID: F			
Estimated rate, (min/in): 65@36 inches			
A	0-4	brown (10YR5/3) fine sandy loam	II
BA	4-10	brown (7.5YR5/4) silt loam	III
BC	10-20	strong brown (7.5YR5/6), yellowish brown (10YR5/4) light silty clay loam; common fine mica flakes	III
CB	20-36	yellowish brown (10YR5/4) heavy silt loam; many fine mica flakes	III
C	36-60	dark yellowish brown (10YR4/4) silt loam mica schist saprolite	III



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 06 unified


Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**

3/27/2006

Health Department:

Louisa

Project name:

"Hunterston," a division of {TM 70-46}

Lot:

07

Site:

primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: shoulderSlope: 12-15%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 60Estimated rate slowest hole: 60Percolation test performed: No

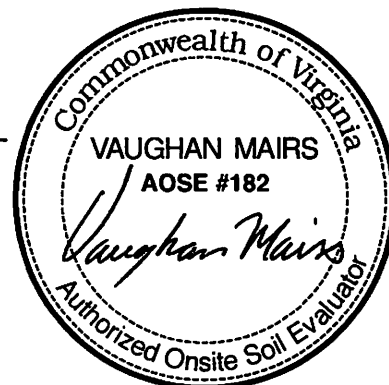
Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	<input type="text" value="60"/>
Number of Bedrooms	<input type="text" value="3"/>
Design Flow, gpd	<input type="text" value="490"/>
Trench Length, ft.	<input type="text" value="85"/>
Trench Width, ft.	<input type="text" value="3"/>
Number of Trenches	<input type="text" value="6"/>
On-Center Spacing, ft.	<input type="text" value="10"/>
Usable Width of Area, ft.	<input type="text" value="53"/>
Square Footage Required, sq. ft.	<input type="text" value="1481"/>
Square Footage Available, sq. ft.	<input type="text" value="1530"/>
Installation Depth, in.	<input type="text" value="48"/>
Reserve Area Included in Layout	<input type="text" value="0%"/>

Project number	<input type="text" value="03021"/>
Lot	<input type="text" value="07"/>
Site	<input type="text" value="primary"/>



Other features

- ☐ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The proposed primary drainfield will occupy the upper 6 trenches of the demarcated 10-trench layout.

The design flow will accomodate 4 bedrooms if a conditional (reduced flow / limited occupancy) permit is recorded.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

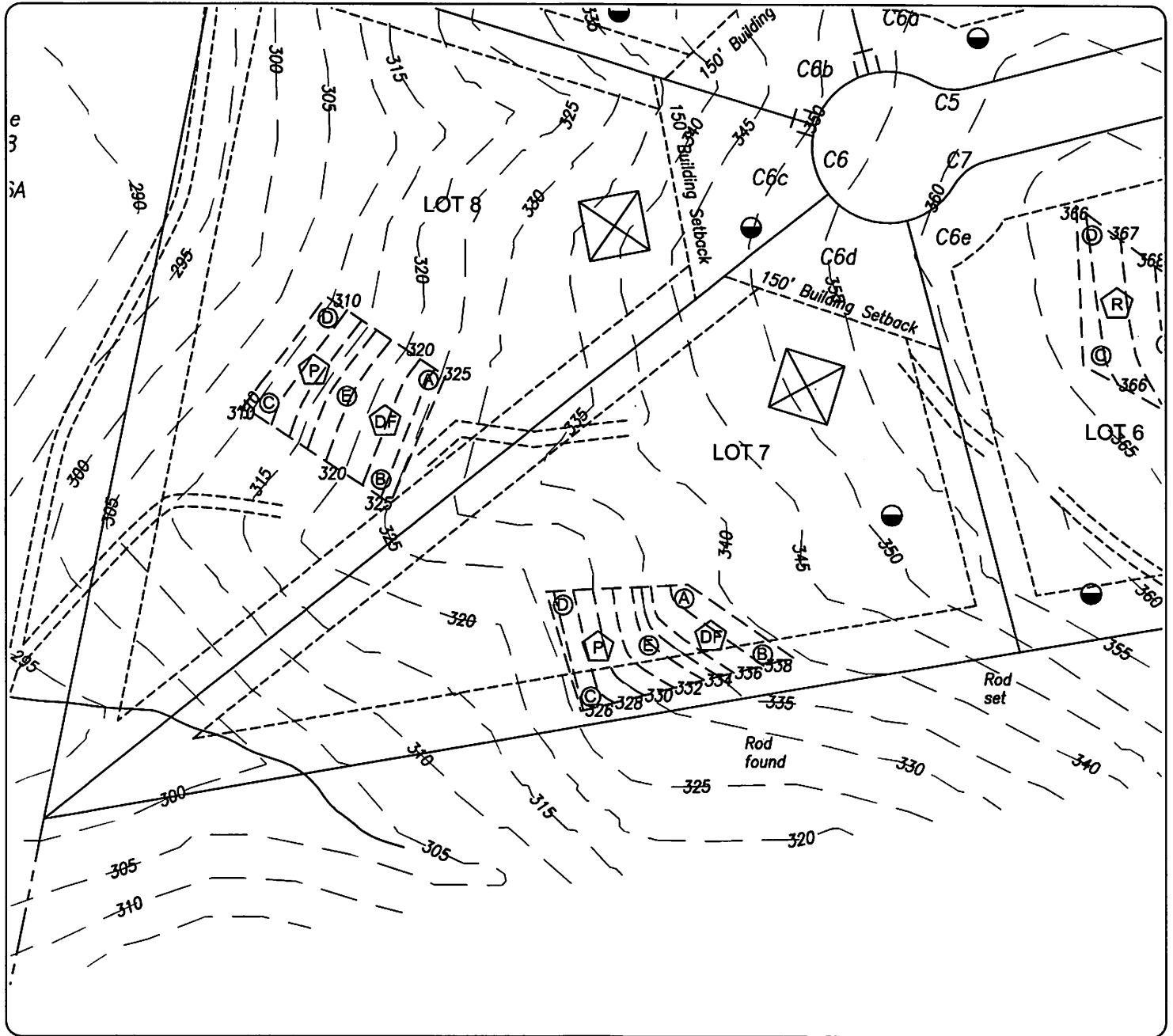
Sketch of:

Lot 7

Hunterston

showing proposed

Drainfield, Well, & House Site



Scale: 1" = 100'



Legend



= House Site



= Bore Hole



= Test Pit



= Well, IIIC



= Well, IIIB



= Drainfield



= Reserve Drainfield



= Puraflo Drainfield



= Drip System

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions

Date of evaluation 2/2/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

Lot 07

Site primary

Horizon	Depth	Description	Texture
Hole ID: A			Class
Estimated rate, (min/in): 60@48 inches			
BA	0-10	yellowish brown (10YR5/4) fine sandy clay loam; few quartz fragments	II
Bt	10-44	red (2.5YR4/6) clay loam	III
BC	44-66	red (2.5YR4/8) light clay loam and fine sandy clay loam; few fine mica flakes	III
Hole ID: B			
Estimated rate, (min/in): 60@48 inches			
A	0-3	grayish brown (10YR5/2) loam	II
BA	3-8	yellowish brown (10YR5/4) fine sandy clay loam; few quartz fragments	II
Bt	8-36	red (2.5YR4/6) clay loam	III
BC	36-46	red (2.5YR4/8) fine sandy clay loam and light clay loam; few fine mica flakes	II
C	46-66	red (2.5YR4/8), light yellowish brown (10YR6/4), yellowish red (5YR5/8) fine loam and fine sandy clay loam; few fine mica flakes	II
Hole ID: E			
Estimated rate, (min/in): 60@48 inches			
BA	0-8	brown (7.5YR5/4) fine sandy clay loam; few quartz fragments	II
Bt	8-42	red (2.5YR4/6) clay loam; few fine mica flakes	III
BC	42-66	yellowish red (5YR5/6) light clay loam and fine sandy clay loam; common fine mica flakes	III



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 07 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021

Applicant: Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899

Owner:**Date:**

3/27/2006

Health Department:

Louisa

Project name:

"Hunterston," a division of {TM 70-46}

Lot:

08

Site:

primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.

Position in Landscape: shoulderSlope: 16%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 70Percolation test performed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501



Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	65
Number of Bedrooms	3
Design Flow, gpd	490
Trench Length, ft.	92
Trench Width, ft.	3
Number of Trenches	6
On-Center Spacing, ft.	10
Usable Width of Area, ft.	53
Square Footage Required, sq. ft.	1623
Square Footage Available, sq. ft.	1656
Installation Depth, in.	30
Reserve Area Included in Layout	0%

Project number	03021
Lot	08
Site	primary



Other features

- ☐ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The proposed primary drainfield will occupy the upper 6 trenches of the demarcated 10-trench layout.

The design flow will accomodate 4 bedrooms if a conditional (reduced flow / limited occupancy) permit is recorded.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

page 3 of 5

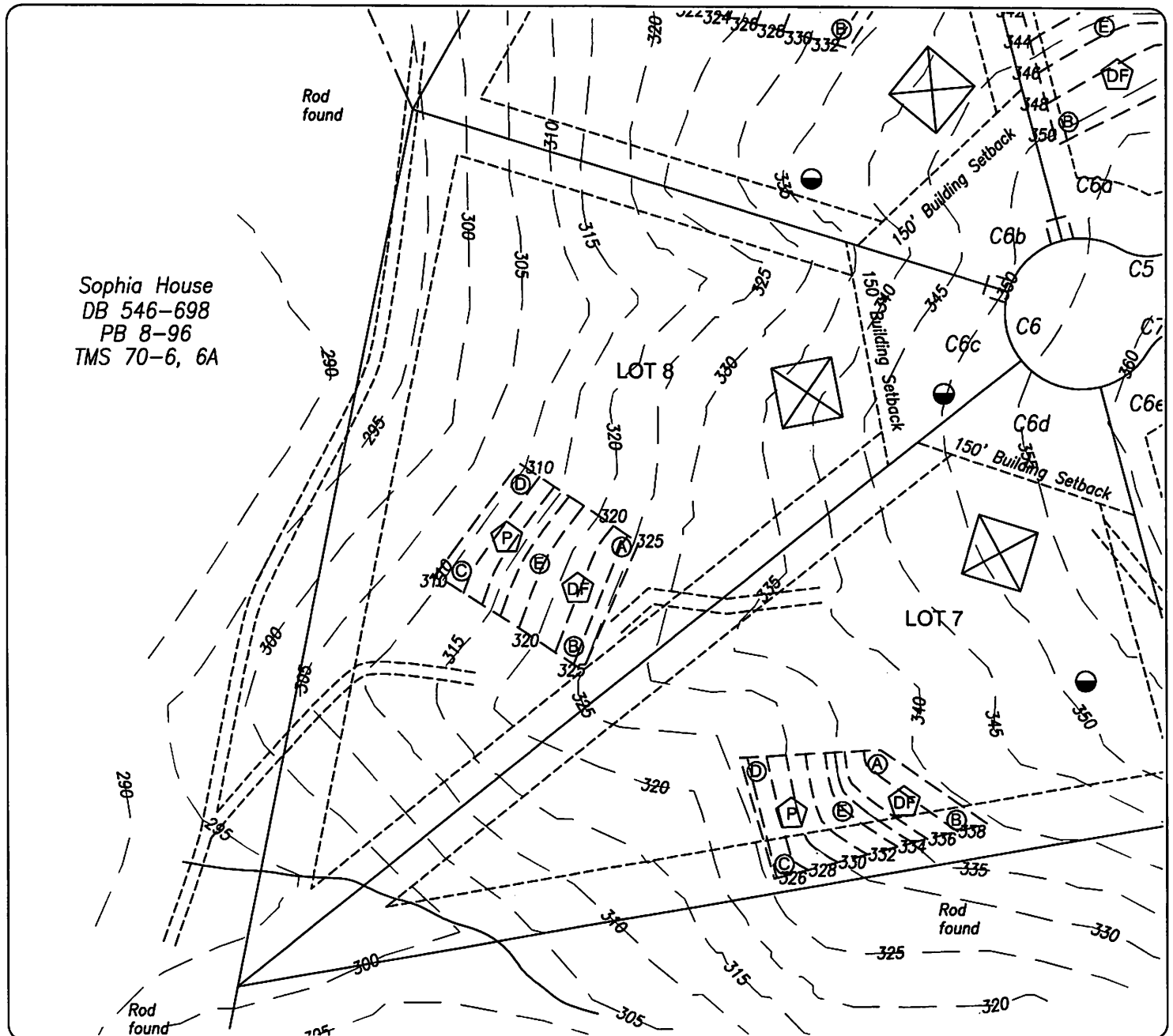
Sketch of:

Lot 8

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



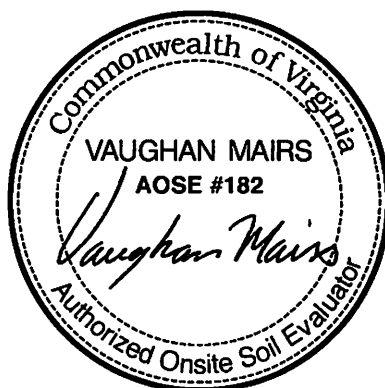
= Well, IIIC



= Drip System



= Well, IIIB



Scale: 1" = 100'

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/7/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 08**Site** primary

Horizon	Depth	Description	Texture Class
Hole ID: A			Estimated rate, (min/in): 65@30 inches
A	0-3	grayish brown (10YR5/2) loam	II
BA	3-8	brown (7.5YR5/4) light silty clay loam; few fine mica flakes	III
BC	8-48	yellowish red (5YR5/6), yellowish brown (10YR5/6) silty clay loam and silt loam; few parent fragments, common fine mica flakes	III
C	48-60	dark yellowish brown (10YR4/4) loam to silt loam; common fine mica flakes — tight	II
Hole ID: B			Estimated rate, (min/in): 70@30 inches
BA	0-8	brown (7.5YR5/4) fine silty clay loam	III
Bt	8-36	red (2.5YR4/6) clay loam; few fine mica flakes	III
BC	36-48	red (2.5YR4/8) light clay loam; few fine mica flakes	III
CB	48-60	red (2.5YR4/8), reddish brown (5YR5/4) fine sandy clay loam and light clay loam; common fine mica flakes	II
Hole ID: E			Estimated rate, (min/in): 60@30 inches
A	0-3	grayish brown (10YR5/2) loam	II
BA	3-8	yellowish brown (10YR5/4) fine sandy clay loam	II
BC	8-26	yellowish brown (10YR5/6) light clay loam and fine sandy clay loam; common fine mica flakes	III
C	26-60	dark yellowish brown (10YR4/4), reddish brown (5YR5/4) fine loam to silt loam; many fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 08 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator: D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
08**Site:**
reserve**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslope above swaleSlope: 18%Depth to rock or impervious strata, in.: Yes maximum: _____ minimum: 60Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 70Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Abbreviated Drainfield Design**Puraflo™ System**

Estimated Perc. Rate, min./in.	<u>65</u>
Number of Bedrooms	<u>4</u>
Design Flow, gpd	<u>600</u>
Trench Length, ft.	<u>85</u>
Trench Width, ft.	<u>3</u>
Number of Trenches	<u>4</u>
On-Center Spacing, ft.	<u>10</u>
Usable Width of Area, ft.	<u>33</u>
Square Footage Required, sq. ft.	<u>878</u>
Square Footage Available, sq. ft.	<u>1020</u>
Installation Depth, in.	<u>30</u>
Reserve Area Included in Layout	<u>100%</u>

Project number	<u>03021</u>
Lot	<u>08</u>
Site	<u>reserve</u>



- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☒ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The demarcated area will serve as a conventional trench-type drainfield for a Puraflo™ (or equivalent) system.

The proposed reserve drainfield will occupy the lower 4 trenches of the demarcated 10-trench layout.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

page 3 of 5

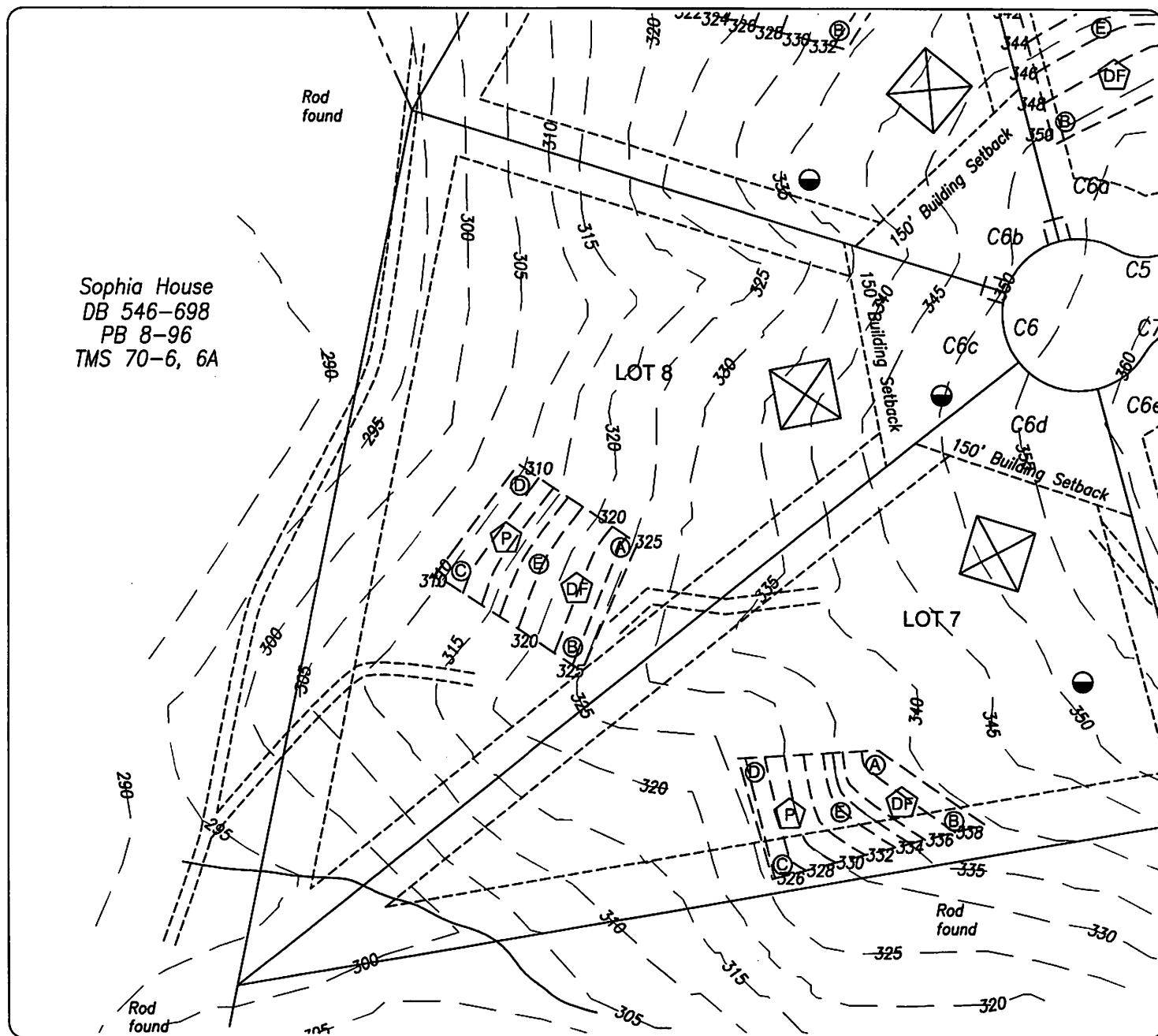
Sketch of:

Lot 8

Hunterston

showing proposed

Drainfield, Well, & House Site



Sophia House
DB 546-698
PB 8-96
TMS 70-6, 6A

LOT 8

LOT 7

Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB



Scale: 1" = 100'

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/7/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 08**Site** reserve

Horizon	Depth	Description	Texture
Hole ID: C			Class
Estimated rate, (min/in): 70@30 inches			
A	0-3	grayish brown (10YR5/2) loam	II
BA	3-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-36	brown (7.5YR5/4) light clay loam; few quartz fragments	III
BC	36-48	yellowish red (5YR5/6), strong brown (7.5YR5/8) light clay loam and fine sandy clay loam	III
CB	48-60	(7.5YR4/8), light yellowish brown (10YR6/4) fine loam and fine sandy clay loam; few fine mica flakes	II
Hole ID: D			
Estimated rate, (min/in): 65@30 inches			
A	0-3	grayish brown (10YR5/2) loam	II
BA	3-10	yellowish brown (10YR5/4) light clay loam	III
Bt	10-24	yellowish red (5YR5/6) clay loam; few fine mica flakes	III
BC	24-48	yellowish red (5YR5/6), strong brown (7.5YR5/6), yellowish brown (10YR5/4) light clay loam and fine sandy clay loam; few fine mica flakes	III
C	48-60	yellowish brown (10YR5/4), grayish brown (2.5Y5/2) fine sandy loam to fine loam — tight — paralithic @ 60"	II
Hole ID: E			
Estimated rate, (min/in): 60@30 inches			
A	0-3	grayish brown (10YR5/2) loam	II
BA	3-8	yellowish brown (10YR5/4) fine sandy clay loam	II
BC	8-26	yellowish brown (10YR5/6) light clay loam and fine sandy clay loam; common fine mica flakes	III
C	26-60	dark yellowish brown (10YR4/4), reddish brown (5YR5/4) fine loam to silt loam; many fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 08 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021

Applicant: Stanford L. & Donna P. Hunter
 10200 Old Hunt Road
 Vienna, VA
 703-938-9899

Owner:**Date:**

3/27/2006

Health Department:

Louisa

Project name:

"Hunterston," a division of {TM 70-46}

Lot:

09

Site:

unified

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.

Position in Landscape: convex sideslopeSlope: 11%Depth to rock or impervious strata, in.: Yes maximum: _____ minimum: 60Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 70Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182
 1670 Merrifields Lane
 Ruckersville, Virginia 22968
 Tel: 434-973-0273, Fax: 434-964-1501



Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	65
Number of Bedrooms	3
Design Flow, gpd	490
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	12
On-Center Spacing, ft.	10
Usable Width of Area, ft.	113
Square Footage Required, sq. ft.	1623
Square Footage Available, sq. ft.	3600
Installation Depth, in.	42
Reserve Area Included in Layout	100%

Project number	03021
Lot	09
Site	unified



Other features

- ☐ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The design flow will accomodate 4 bedrooms if a conditional (reduced flow / limited occupancy) permit is recorded.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

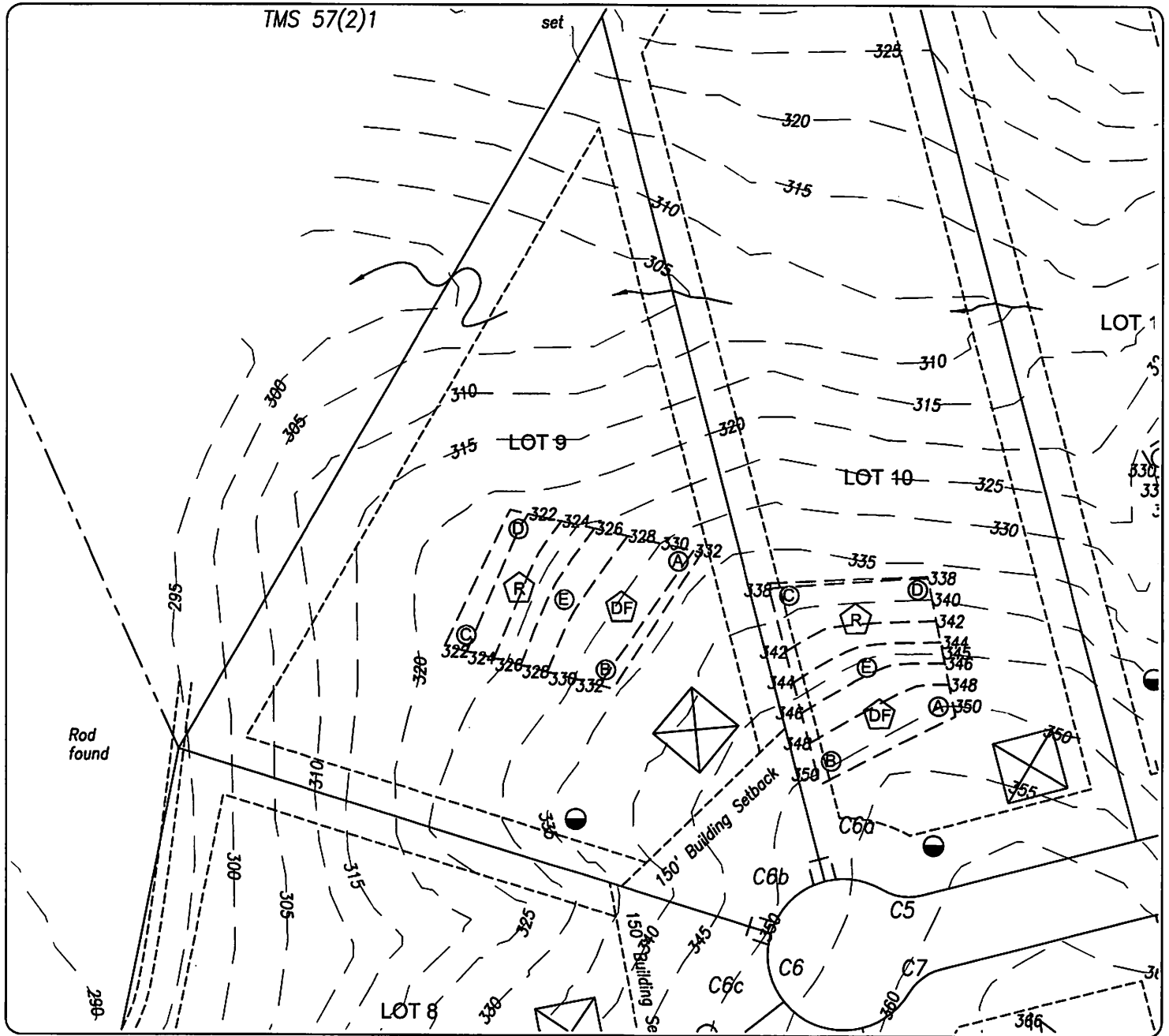
Sketch of:

Lot 9

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



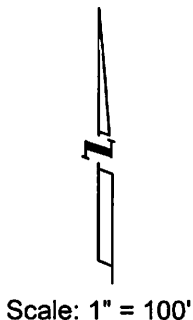
= Well, IIIC



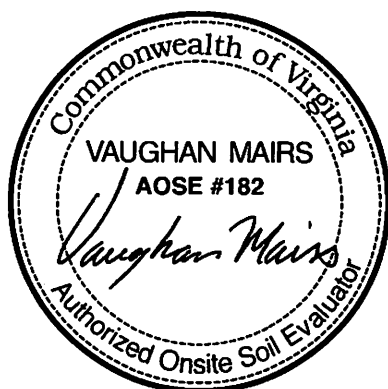
= Drip System



= Well, IIIB



Scale: 1" = 100'



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/7/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 09**Site** unified

Horizon	Depth	Description	Texture Class
Hole ID: A			Estimated rate, (min/in): 65@42 inches
A	0-2	dark grayish brown (10YR4/2) loam	II
AB	2-12	brown (7.5YR5/4) fine sandy clay loam	II
Bt	12-36	yellowish red (5YR5/6) light silty clay loam	III
BC	36-48	yellowish red (5YR5/8) silt loam; few light silty clay loam tongues	III
C	48-60	yellowish red (5YR5/6), very dark grayish brown (10YR3/2) silt loam mica schist saprolite — low chroma due to parent	III
Hole ID: B			Estimated rate, (min/in): 70@42 inches
A	0-2	dark grayish brown (10YR4/2) loam	II
AB	2-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-40	yellowish red (5YR5/6) light silty clay loam to clay loam	III
BC	40-60	strong brown (7.5YR5/8), red (2.5YR5/6) fine sandy clay loam and clay loam	II
CB	60-66	light yellowish brown (10YR6/4), yellowish red (5YR5/6) fine loam	II
Hole ID: C			Estimated rate, (min/in): 65@42 inches
BA	0-8	dark yellowish brown (10YR4/4) fine sandy clay loam	II
Bt	8-30	yellowish red (5YR5/6) fine clay loam	III
BC	30-48	yellowish red (5YR5/6), strong brown (7.5YR5/6) light clay loam and fine sandy clay loam; few fine mica flakes	III
CB	48-60	strong brown (7.5YR5/8), light yellowish brown (10YR6/4) fine loam and fine sandy clay loam; few fine mica flakes — paralithic @ 60"	II
Hole ID: D			Estimated rate, (min/in): 50@42 inches
A	0-4	grayish brown (10YR5/2) loam	II
BA	4-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-36	strong brown (7.5YR5/8), yellowish brown (10YR5/8) clay loam	III
C	36-72	yellowish brown (10YR5/4), pale brown (10YR6/3) fine loam to fine sandy loam	II
Hole ID: E			Estimated rate, (min/in): 60@42 inches
A	0-3	grayish brown (10YR5/2) loam	II
BA	3-8	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	8-30	yellowish red (5YR5/6) fine clay loam	III
BC	30-48	yellowish red (5YR5/8), strong brown (7.5YR5/8) fine sandy clay loam and light clay loam	II
CB	48-72	yellowish brown (10YR5/8), strong brown (7.5YR5/8) fine loam and fine sandy clay loam	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 09 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisia**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
10**Site:**
unified**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: convex sideslopeSlope: 14%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 60Estimated rate slowest hole: 65Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	<input type="text" value="60"/>	Project number	<input type="text" value="03021"/>
Number of Bedrooms	<input type="text" value="3"/>	Lot	<input type="text" value="10"/>
Design Flow, gpd	<input type="text" value="490"/>	Site	<input type="text" value="unified"/>
Trench Length, ft.	<input type="text" value="100"/>		
Trench Width, ft.	<input type="text" value="3"/>		
Number of Trenches	<input type="text" value="10"/>		
On-Center Spacing, ft.	<input type="text" value="10"/>		
Usable Width of Area, ft.	<input type="text" value="93"/>		
Square Footage Required, sq. ft.	<input type="text" value="2961"/>		
Square Footage Available, sq. ft.	<input type="text" value="3000"/>		
Installation Depth, in.	<input type="text" value="42"/>		
Reserve Area Included in Layout	<input type="text" value="100%"/>		

Other features

- ☒ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The design flow will accomodate 4 bedrooms if a conditional (reduced flow or limited occupancy) permit is recorded.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

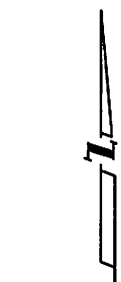
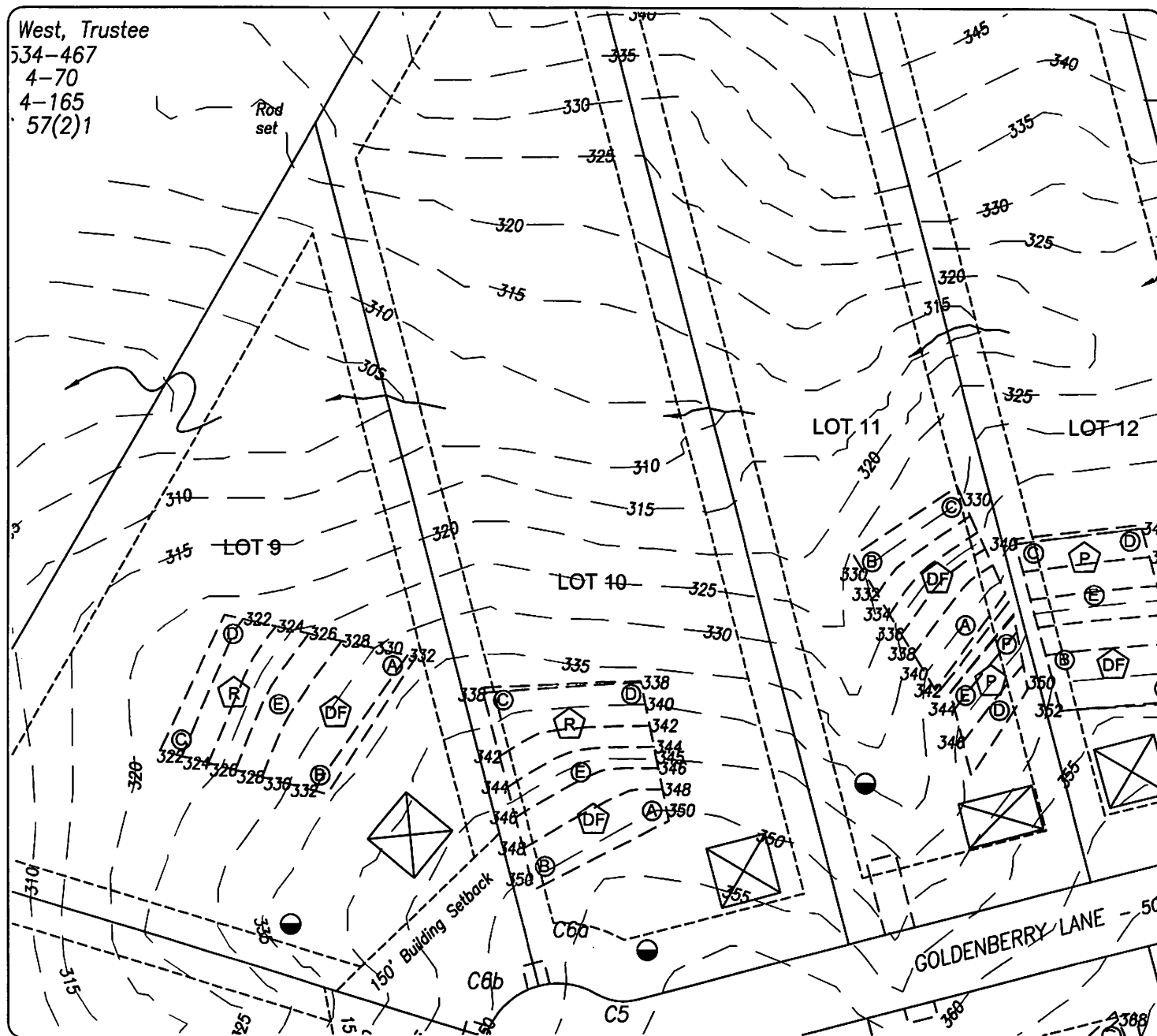
Sketch of:

Lot 10

Hunterston

showing proposed

Drainfield, Well, & House Site



Scale: 1" = 100'



Legend



= House Site



= Bore Hole



= Test Pit



= Well, IIIC



= Well, IIIB



= Drainfield



= Reserve Drainfield



= Puraflo Drainfield



= Drip System

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions

Date of evaluation 2/9/2006

Project # 03021 Project name "Hunterston," a division of (TM 70-46)

Lot 10

Site unified

Horizon	Depth	Description	Texture Class
Hole ID: A			Estimated rate, (min/in): 55@42 inches
A	0-4	grayish brown (10YR5/2) loam	II
BA	4-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-30	red (2.5YR4/6) fine clay loam	III
BC	30-40	red (2.5YR4/8) light clay loam and fine sandy clay loam	III
CB	40-60	reddish brown (2.5YR5/4), red (2.5YR4/8) fine sandy clay loam and fine loam; few fine mica flakes, few quartz fragments	II
Hole ID: B			Estimated rate, (min/in): 65@42 inches
A	0-4	dark grayish brown (10YR4/2) loam	II
BA	4-10	brown (7.5YR5/4) fine sandy clay loam	II
Bt	10-38	red (2.5YR4/6) fine clay loam	III
BC	38-54	red (2.5YR4/8) light clay loam and fine sandy clay loam; few fine mica flakes, few quartz fragments	III
CB	54-60	red (2.5YR4/8) fine sandy clay loam and loam; few fine mica flakes	II
Hole ID: C			Estimated rate, (min/in): 60@42 inches
A	0-4	dark yellowish brown (10YR4/4) loam	II
BA	4-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-36	red (2.5YR4/6) silty clay loam	III
BC	36-48	red (2.5YR4/8) light silty clay loam	III
C	48-66	red (2.5YR5/6), light brown (7.5YR6/4), weak red (10R5/4) silt loam	III
Hole ID: D			Estimated rate, (min/in): 55@42 inches
A	0-3	grayish brown (10YR5/2) loam	II
BA	3-8	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	8-30	red (2.5YR4/6), yellowish red (5YR5/6) fine clay loam	III
BC	30-40	red (2.5YR4/8), yellowish red (5YR5/8) light clay loam and fine sandy clay loam	III
CB	40-72	red (2.5YR5/6), yellowish red (5YR5/6) fine loam; few fine mica flakes	II
Hole ID: E			Estimated rate, (min/in): 65@42 inches
A	0-4	grayish brown (10YR5/2) loam	II
BA	4-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-36	red (2.5YR4/6) fine clay loam	III
BC	36-52	red (2.5YR4/8) light clay loam and fine sandy clay loam; few fine mica flakes	III
CB	52-72	red (2.5YR4/8) fine loam; few fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 10 unified

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021

Applicant: Stanford L. & Donna P. Hunter
 10200 Old Hunt Road
 Vienna, VA
 703-938-9899

Owner:

Date:
 3/27/2006

Health Department:
 Louisa

Project name:
 "Hunterston," a division of {TM 70-46}

Lot:
 11

Site:
 primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.

Position in Landscape: shoulder and sideslope

Slope: 16-19%

Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____

Depth to seasonal water table (gray mottling or color), in.: None

Free water present: No Range in inches: _____

Percolation rate estimated: Yes

Texture class: III

Estimated rate average at depth: 60

Estimated rate slowest hole: 60

Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182
 1670 Merrifields Lane
 Ruckersville, Virginia 22968
 Tel: 434-973-0273, Fax: 434-964-1501



Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	60
Number of Bedrooms	4
Design Flow, gpd	600
Trench Length, ft.	75
Trench Width, ft.	3
Number of Trenches	8
On-Center Spacing, ft.	10
Usable Width of Area, ft.	73
Square Footage Required, sq. ft.	1813
Square Footage Available, sq. ft.	1800
Installation Depth, in.	42
Reserve Area Included in Layout	0%

Project number	03021
Lot	11
Site	primary



Other features

- ☐ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

Square Footage Required substantially complies with SH&D regulations.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

page 3 of 5

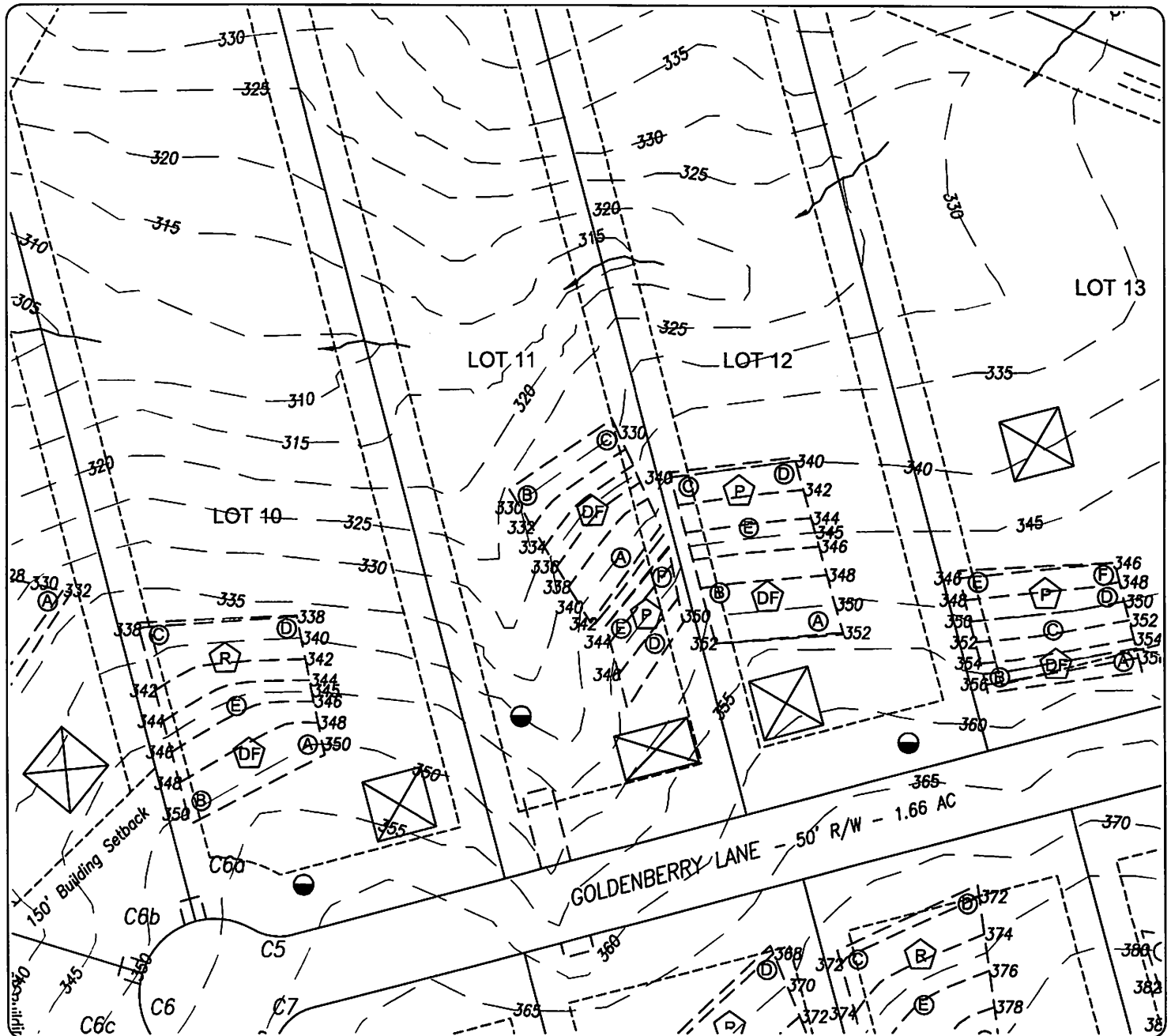
Sketch of:

Lot 11

Hunterston

showing proposed

Drainfield, Well, & House Site



Scale: 1" = 100'



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/9/2006**Project #** 03021 **Project name** "Hunterston," a division of (TM 70-46)**Lot** 11**Site** primary

Horizon	Depth	Description	Texture Class
Hole ID: A			Estimated rate, (min/in): 55@42 inches
BA	0-12	yellowish brown (10YR5/4) light clay loam	III
Bt	12-24	strong brown (7.5YR5/6) clay loam	III
BC	24-36	yellowish brown (10YR5/6) light clay loam and fine sandy clay loam	III
CB	36-60	yellowish brown (10YR5/6), light yellowish brown (10YR6/4) loam to fine sandy clay loam	II
Hole ID: B			Estimated rate, (min/in): 55@42 inches
A	0-4	dark grayish brown (10YR4/2) loam	II
AB	4-10	dark yellowish brown (10YR4/4) fine sandy clay loam	II
Bt	10-24	yellowish brown (10YR5/6) fine clay loam	III
BC	24-38	brownish yellow (10YR6/6) fine sandy clay loam and light clay loam	II
CB	38-60	brownish yellow (10YR6/6), light yellowish brown (10YR6/4) fine loam and fine sandy clay loam	II
Hole ID: C			Estimated rate, (min/in): 60@42 inches
A	0-4	dark grayish brown (10YR4/2) loam	II
BA	4-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-30	strong brown (7.5YR5/6) fine clay loam	III
CB	30-48	brownish yellow (10YR6/8), yellowish brown (10YR5/6) fine sandy clay loam; few fine clay loam tongues	
C	48-72	yellowish brown (10YR5/4), brown (10YR5/3) fine loam; few fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 11 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
11**Site:**
reserve**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslopeSlope: 12%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 70Estimated rate slowest hole: 70Percolation test preformed: No

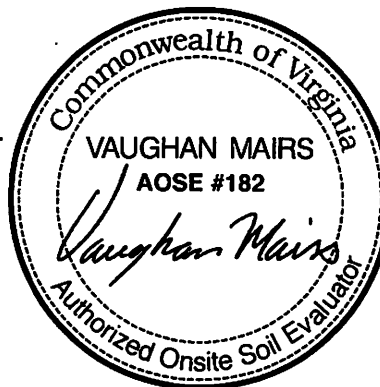
Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Abbreviated Drainfield Design**Puraflo™ System**

Estimated Perc. Rate, min./in.	<input type="text" value="70"/>
Number of Bedrooms	<input type="text" value="4"/>
Design Flow, gpd	<input type="text" value="600"/>
Trench Length, ft.	<input type="text" value="65"/>
Trench Width, ft.	<input type="text" value="3"/>
Number of Trenches	<input type="text" value="5"/>
On-Center Spacing, ft.	<input type="text" value="10"/>
Usable Width of Area, ft.	<input type="text" value="43"/>
Square Footage Required, sq. ft.	<input type="text" value="946"/>
Square Footage Available, sq. ft.	<input type="text" value="975"/>
Installation Depth, in.	<input type="text" value="42"/>
Reserve Area Included in Layout	<input type="text" value="100%"/>

Project number	<input type="text" value="03021"/>
Lot	<input type="text" value="11"/>
Site	<input type="text" value="reserve"/>



- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☒ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The demarcated area will serve as a conventional trench-type drainfield for a Puraflo™ (or equivalent) system.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

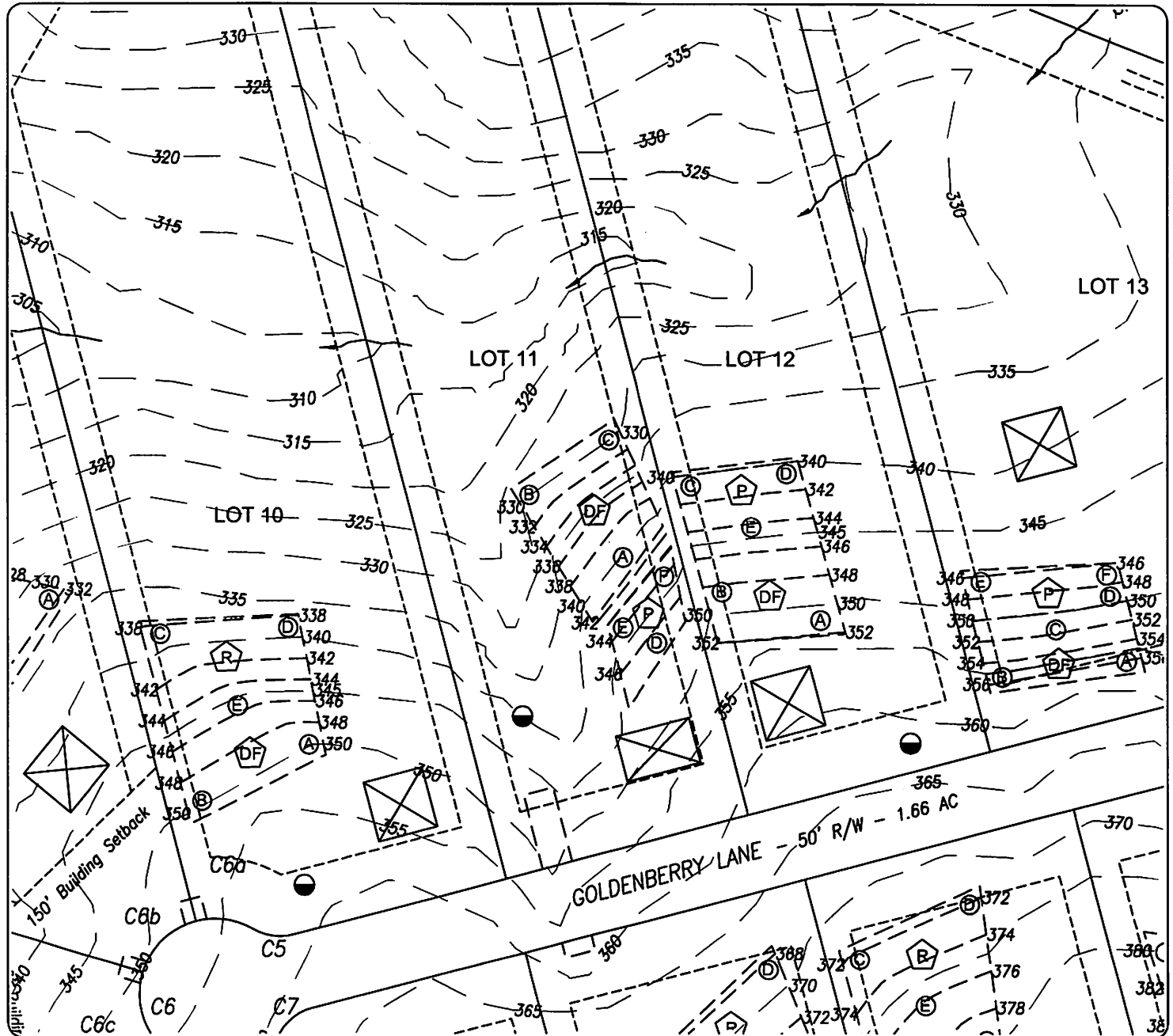
Sketch of:

Lot 11

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB

Scale: 1" = 100'



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions

Date of evaluation 2/9/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

Lot 11

Site reserve

Horizon	Depth	Description	Texture
Hole ID: D			Class
Estimated rate, (min/in): 70@42 inches			
A	0-4	grayish brown (10YR5/2) loam	II
AB	4-12	light yellowish brown (10YR6/4) fine sandy clay loam	II
Bt	12-30	strong brown (7.5YR5/6) fine clay loam	III
BC	30-48	strong brown (7.5YR5/8) light clay loam and fine sandy clay loam	III
CB	48-60	strong brown (7.5YR5/8), yellowish brown (10YR5/8) fine sandy clay loam	II
Hole ID: E			
Estimated rate, (min/in): 70@42 inches			
A	0-4	grayish brown (10YR5/2) loam	II
BA	4-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-36	yellowish red (5YR5/6) fine clay loam	III
BC	36-60	yellowish red (5YR5/8) light clay loam	III
Hole ID: F			
Estimated rate, (min/in): 65@42 inches			
A	0-6	grayish brown (10YR5/2) loam	II
BA	6-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-30	strong brown (7.5YR5/6) fine clay loam	III
CB	30-54	strong brown (7.5YR5/6), yellowish brown (10YR5/4) fine sandy clay loam and light clay loam; common fine mica flakes	II
C	54-60	olive brown (2.5Y4/4), strong brown (7.5YR5/6) loam to silt loam; many fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 11 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021

Applicant: Stanford L. & Donna P. Hunter
 10200 Old Hunt Road
 Vienna, VA
 703-938-9899

Owner:

Date:
 3/27/2006

Health Department:
 Louisa

Project name:
 "Hunterston," a division of {TM 70-46}

Lot:
 12

Site:
 primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.

Position in Landscape: sideslope

Slope: 9-11%

Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____

Depth to seasonal water table (gray mottling or color), in.: None

Free water present: No Range in inches: _____

Percolation rate estimated: Yes

Texture class: III

Estimated rate average at depth: 70

Estimated rate slowest hole: 75

Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:

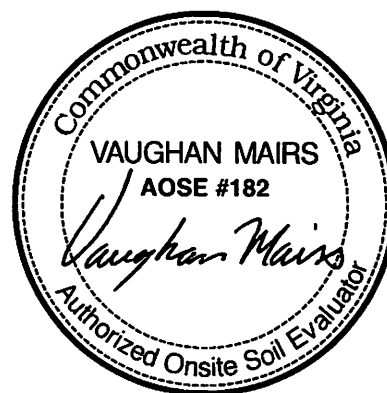
D. Vaughan Mairs, AOSE #182
 1670 Merrifields Lane
 Ruckersville, Virginia 22968
 Tel: 434-973-0273, Fax: 434-964-1501



Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	70
Number of Bedrooms	3
Design Flow, gpd	490
Trench Length, ft.	80
Trench Width, ft.	3
Number of Trenches	8
On-Center Spacing, ft.	10
Usable Width of Area, ft.	73
Square Footage Required, sq. ft.	1780
Square Footage Available, sq. ft.	1920
Installation Depth, in.	42
Reserve Area Included in Layout	0%

Project number	03021
Lot	12
Site	primary



Other features

- ☐ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The proposed primary drainfield will occupy the upper 8 trenches of the demarcated 12-trench layout.

The design flow will accomodate 4 bedrooms if a conditional (reduced flow / limited occupancy) permit is recorded.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

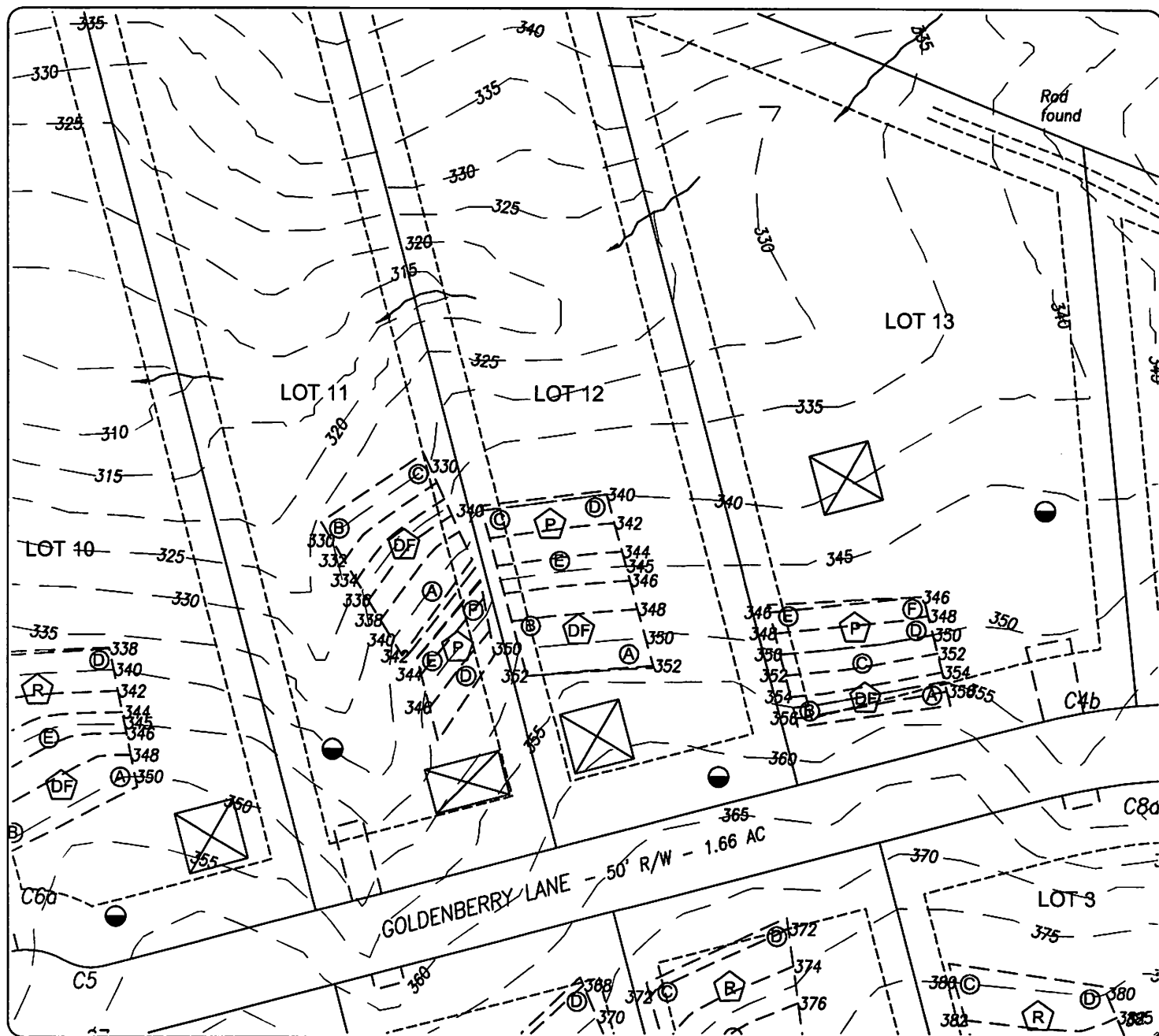
Sketch of:

Lot 12

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



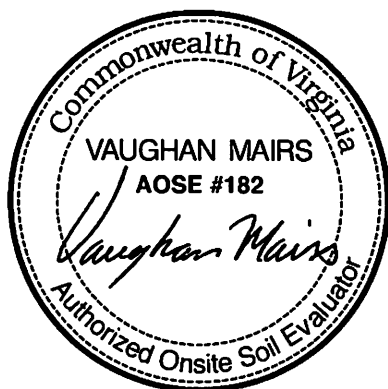
= Well, IIIC



= Drip System



= Well, IIIB



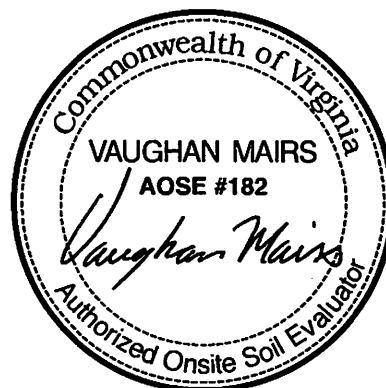
Scale: 1" = 100'

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/10/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 12**Site** primary

Horizon	Depth	Description	Texture Class
Hole ID: A			Estimated rate, (min/in): 75@42 inches
A	0-4	brown (10YR5/3) loam	II
AB	4-12	yellowish brown (10YR5/6) fine sandy clay loam	II
Bt	12-36	strong brown (7.5YR5/6) light clay loam	III
Bt2	36-66	yellowish red (5YR5/6) fine clay loam	III
BC	66-72	yellowish red (5YR5/6), strong brown (7.5YR5/6) fine sandy clay loam to light silty clay loam	II
Hole ID: B			Estimated rate, (min/in): 65@42 inches
A	0-2	dark grayish brown (10YR4/2) loam	II
AB	2-8	light yellowish brown (10YR6/4) fine sandy clay loam	II
Bt	8-38	yellowish red (5YR5/6) fine clay loam	III
BC	38-60	yellowish red (5YR5/8) fine sandy clay loam to silt loam; few fine mica flakes, few quartz fragments	II
CB	60-72	reddish yellow (5YR6/6), reddish yellow (7.5YR6/6) fine loam	II
Hole ID: E			Estimated rate, (min/in): 65@42 inches
AB	0-6	brown (7.5YR5/4) fine sandy clay loam	II
Bt	6-30	yellowish red (5YR5/6) fine clay loam	III
BC	30-48	strong brown (7.5YR5/6) light clay loam to heavy sandy clay loam — fine	III
CB	48-72	strong brown (7.5YR5/8), brownish yellow (10YR6/6) fine sandy clay loam to loam; few fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 12 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
12**Site:**
reserve**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslopeSlope: 9-11%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 60Estimated rate slowest hole: 65Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

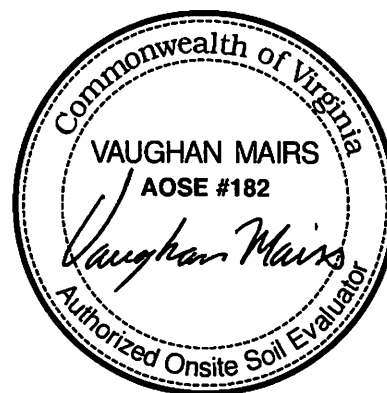
Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Abbreviated Drainfield Design**Puraflo™ System**

Estimated Perc. Rate, min./in.	<input type="text" value="60"/>
Number of Bedrooms	<input type="text" value="4"/>
Design Flow, gpd	<input type="text" value="600"/>
Trench Length, ft.	<input type="text" value="80"/>
Trench Width, ft.	<input type="text" value="3"/>
Number of Trenches	<input type="text" value="4"/>
On-Center Spacing, ft.	<input type="text" value="10"/>
Usable Width of Area, ft.	<input type="text" value="33"/>
Square Footage Required, sq. ft.	<input type="text" value="811"/>
Square Footage Available, sq. ft.	<input type="text" value="960"/>
Installation Depth, in.	<input type="text" value="42"/>
Reserve Area Included in Layout	<input type="text" value="100%"/>

Project number	<input type="text" value="03021"/>
Lot	<input type="text" value="12"/>
Site	<input type="text" value="reserve"/>



- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☒ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The demarcated area will serve as a conventional trench-type drainfield for a Puraflo™ (or equivalent) system.

The proposed reserve drainfield will occupy the lower 4 trenches of the demarcated 10-trench layout.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

Sketch of:

Lot 12

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB



Scale: 1" = 100'

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/10/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 12**Site** reserve

Horizon	Depth	Description	Texture Class
Hole ID: C			Estimated rate, (min/in): 55@42 inches
BA	0-6	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	6-24	strong brown (7.5YR5/6) fine clay loam	III
CB	24-36	strong brown (7.5YR5/6), yellowish brown (10YR5/4) fine sandy clay loam; few fine mica flakes	II
C	36-60	yellowish brown (10YR5/6), light yellowish brown (10YR6/4) fine loam; few fine mica flakes	II
Hole ID: D			Estimated rate, (min/in): 60@42 inches
A	0-4	dark grayish brown (10YR4/2) fine sandy loam	II
BA	4-10	brown (10YR5/3) fine sandy clay loam	II
Bt	10-26	yellowish brown (10YR5/6), strong brown (7.5YR5/6) fine clay loam	III
BC	26-36	yellowish brown (10YR5/6) light clay loam and fine sandy clay loam; few fine mica flakes	III
CB	36-60	yellowish brown (10YR5/4), yellowish brown (10YR5/6) loam to silt loam; common fine mica flakes	II
Hole ID: E			Estimated rate, (min/in): 65@42 inches
AB	0-6	brown (7.5YR5/4) fine sandy clay loam	II
Bt	6-30	yellowish red (5YR5/6) fine clay loam	III
BC	30-48	strong brown (7.5YR5/6) light clay loam to heavy sandy clay loam — fine	III
CB	48-72	strong brown (7.5YR5/8), brownish yellow (10YR6/6) fine sandy clay loam to loam; few fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 12 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021

Applicant: Stanford L. & Donna P. Hunter
 10200 Old Hunt Road
 Vienna, VA
 703-938-9899

Owner:**Date:**

3/27/2006

Health Department:

Louisa

Project name:

"Hunterston," a division of {TM 70-46}

Lot:

13

Site:

primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.

Position in Landscape: sideslope & shoulderSlope: 16%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 65Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182
 1670 Merrifields Lane
 Ruckersville, Virginia 22968
 Tel: 434-973-0273, Fax: 434-964-1501



Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	65
Number of Bedrooms	3
Design Flow, gpd	450
Trench Length, ft.	100
Trench Width, ft.	3
Number of Trenches	5
On-Center Spacing, ft.	10
Usable Width of Area, ft.	43
Square Footage Required, sq. ft.	1491
Square Footage Available, sq. ft.	1500
Installation Depth, in.	42
Reserve Area Included in Layout	0%

Project number	03021
Lot	13
Site	primary



Other features

- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The proposed primary drainfield will occupy the upper 5 trenches of the demarcated 8-trench layout.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

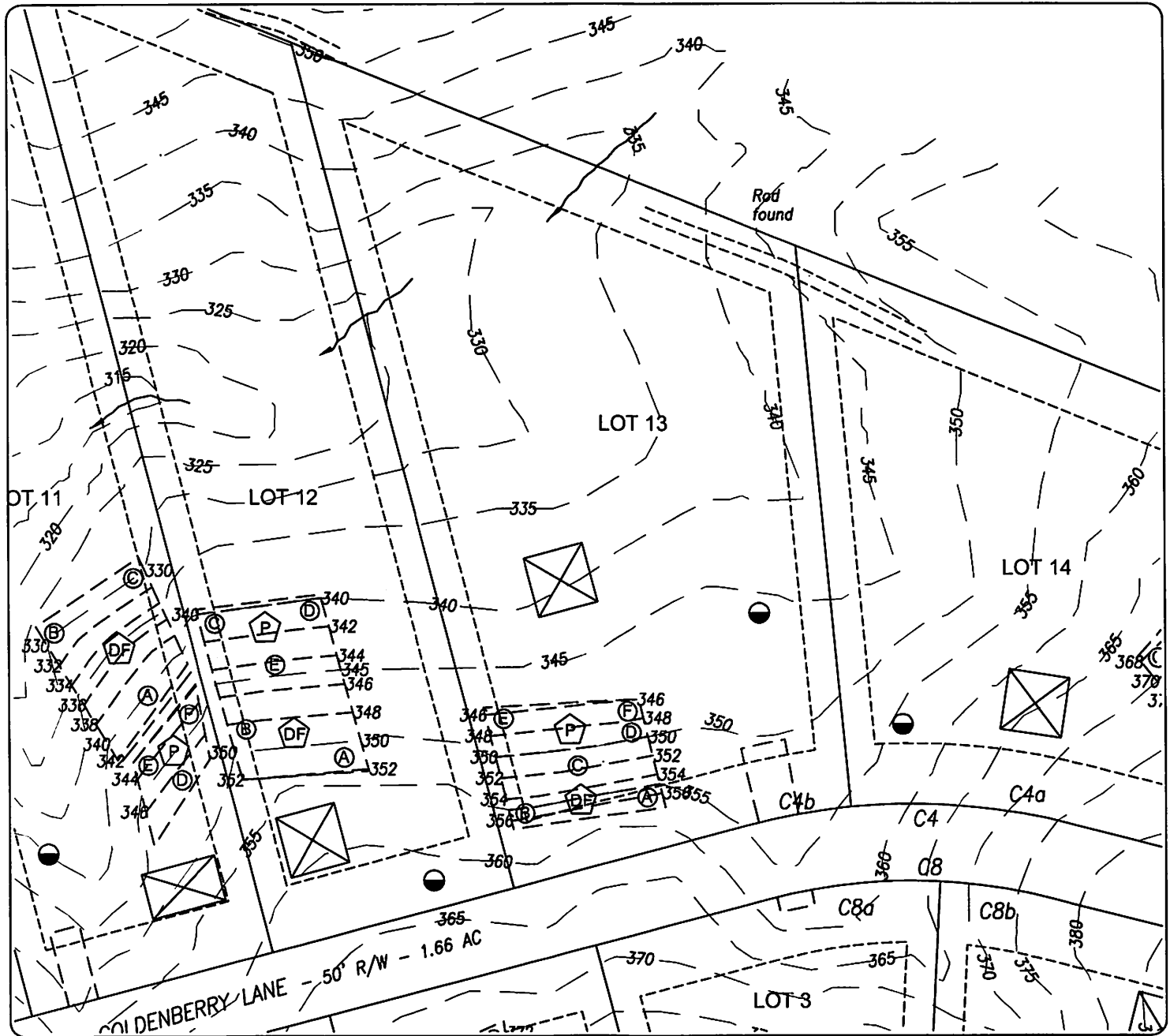
Sketch of:

Lot 13

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



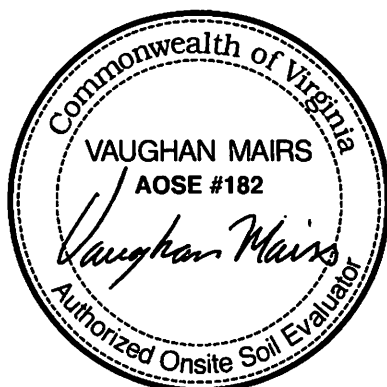
= Drip System



= Well, IIIB



Scale: 1" = 100'



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions

Date of evaluation 2/10/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

Lot 13

Site primary

Horizon	Depth	Description	Texture
Hole ID: A			Class
Estimated rate, (min/in): 65@42 inches			
BA	0-6	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	6-30	yellowish red (5YR5/6) fine clay loam	III
BC	30-42	yellowish red (5YR5/8) fine sandy clay loam light clay loam	II
CB	42-54	yellowish red (5YR5/8), strong brown (7.5YR5/6) fine sandy clay loam	II
C	54-66	yellowish brown (10YR5/4), light yellowish brown (10YR6/4), strong brown (7.5YR5/8) fine loam; few fine mica flakes	II
Hole ID: B			
Estimated rate, (min/in): 65@42 inches			
A	0-4	dark grayish brown (10YR4/2) loam	II
BA	4-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-30	yellowish red (5YR5/6) fine clay loam	III
BC	30-44	red (2.5YR4/6) fine sandy clay loam with light clay loam; few fine mica flakes, few quartz fragments	II
CB	44-60	red (2.5YR4/6), yellowish red (5YR5/6) fine sandy clay loam and light clay loam; few fine mica flakes	II
Hole ID: C			
Estimated rate, (min/in): 65@42 inches			
A	0-4	grayish brown (10YR5/2) loam	II
BA	4-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-36	red (2.5YR4/6), yellowish red (5YR5/6) fine clay loam	III
CB	36-54	yellowish red (5YR5/6), red (2.5YR5/6), light yellowish brown (10YR6/4) fine sandy clay loam and light clay loam	II
C	54-66	yellowish brown (10YR5/4), red (2.5YR5/8), very pale brown (10YR7/3) fine loam; few fine mica flakes	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 13 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
13**Site:**
reserve**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslope & toeslopeSlope: 13%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 75Estimated rate slowest hole: 75Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

manganese streaks were observed in hole "D" at 54"+

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Abbreviated Drainfield Design**Puraflo™ System**

Estimated Perc. Rate, min./in.	<input type="text" value="75"/>
Number of Bedrooms	<input type="text" value="3"/>
Design Flow, gpd	<input type="text" value="450"/>
Trench Length, ft.	<input type="text" value="100"/>
Trench Width, ft.	<input type="text" value="3"/>
Number of Trenches	<input type="text" value="3"/>
On-Center Spacing, ft.	<input type="text" value="10"/>
Usable Width of Area, ft.	<input type="text" value="23"/>
Square Footage Required, sq. ft.	<input type="text" value="760"/>
Square Footage Available, sq. ft.	<input type="text" value="900"/>
Installation Depth, in.	<input type="text" value="30"/>
Reserve Area Included in Layout	<input type="text" value="100%"/>

Project number	<input type="text" value="03021"/>
Lot	<input type="text" value="13"/>
Site	<input type="text" value="reserve"/>



- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☒ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The demarcated area will serve as a conventional trench-type drainfield for a Puraflo™ (or equivalent) system.

The proposed reserve drainfield will occupy the lower 3 trenches of the demarcated 8-trench layout.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

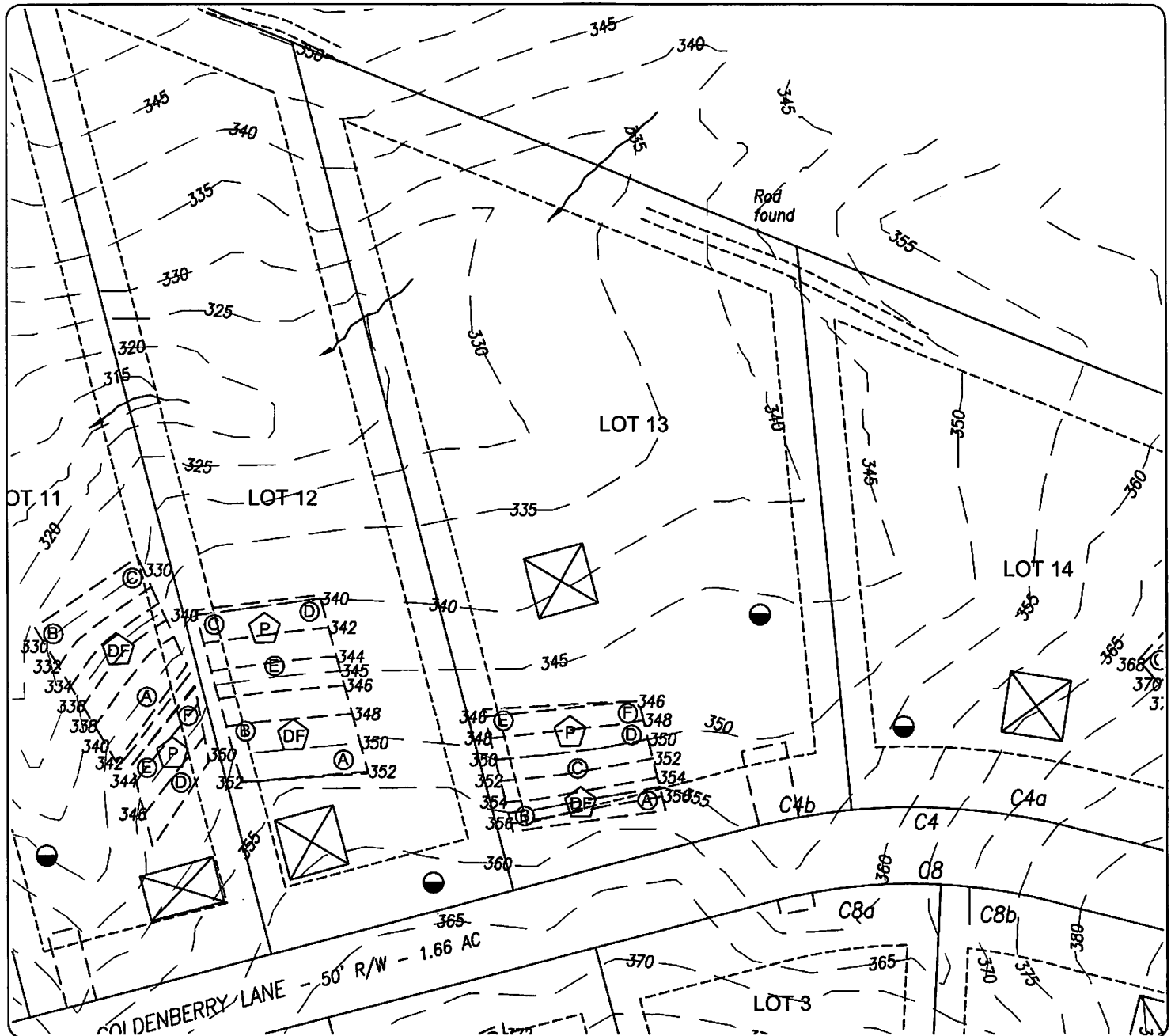
Sketch of:

Lot 13

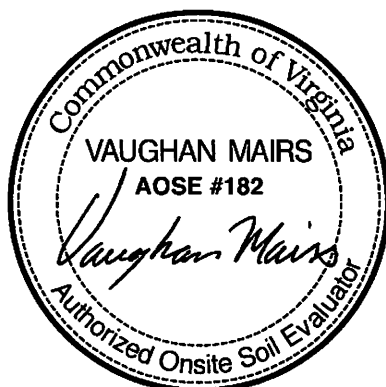
Hunterston

showing proposed

Drainfield, Well, & House Site



Scale: 1" = 100'



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/10/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 13**Site** reserve

Horizon	Depth	Description	Texture Class
Hole ID: D			Estimated rate, (min/in): 75@30 inches
A	0-4	dark grayish brown (10YR4/2) loam	II
BA	4-12	yellowish brown (10YR5/4) fine sandy clay loam	II
BC	12-38	strong brown (7.5YR5/6) light clay loam	III
CB	38-54	yellowish red (5YR5/6), strong brown (7.5YR5/8) fine sandy clay loam with light clay loam	II
C	54-60	strong brown (7.5YR5/8), light yellowish brown (2.5Y6/4) fine sandy clay loam; few black manganese streaks	II
Hole ID: E			Estimated rate, (min/in): 75@30 inches
A	0-3	dark gray (10YR4/1) loam	II
AB	3-12	dark yellowish brown (10YR4/4) fine sandy clay loam	II
Bt	12-48	yellowish red (5YR5/8), yellowish brown (10YR5/8) fine clay loam	III
BC	48-60	light yellowish brown (10YR6/4), yellowish red (5YR5/8) fine sandy clay loam and fine clay loam; few fine mica flakes	II
Hole ID: F			Estimated rate, (min/in): 75@30 inches
A	0-4	brown (10YR4/3) loam	II
BA	4-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-26	brown (7.5YR5/4) fine clay loam	III
Bt2	26-44	yellowish red (5YR5/6), strong brown (7.5YR5/6) fine clay loam	III
BC	44-54	brownish yellow (10YR6/8), yellowish red (5YR5/6), strong brown (7.5YR5/6) fine clay loam	III



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 13 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
14**Site:**
primary**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslopeSlope: 12%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 70Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	65
Number of Bedrooms	3
Design Flow, gpd	450
Trench Length, ft.	80
Trench Width, ft.	3
Number of Trenches	7
On-Center Spacing, ft.	10
Usable Width of Area, ft.	63
Square Footage Required, sq. ft.	1491
Square Footage Available, sq. ft.	1680
Installation Depth, in.	42
Reserve Area Included in Layout	0%

Project number	03021
Lot	14
Site	primary



Other features

- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The proposed primary drainfield will occupy the upper 7 trenches of the demarcated 10-trench layout.

The pump requirement depends on the final house location and finish elevation

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

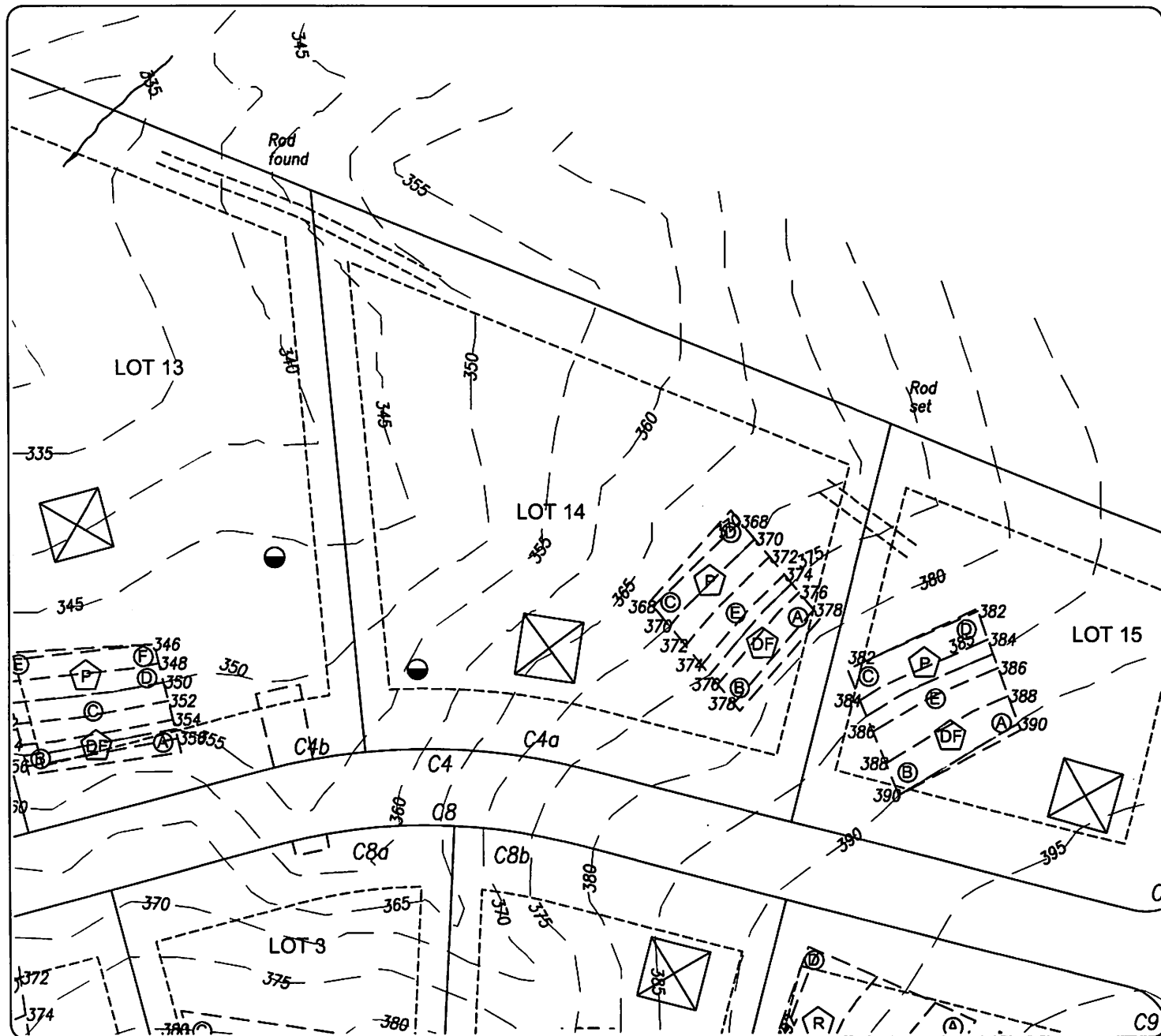
Sketch of:

Lot 14

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB



Scale: 1" = 100'



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions

Date of evaluation 2/10/2006

Project # 03021 Project name "Hunterston," a division of {TM 70-46}

Lot 14

Site primary

Horizon	Depth	Description	Texture Class
Hole ID: A			Estimated rate, (min/in): 55@42 inches
A	0-4	dark grayish brown (10YR4/2) loam	II
BA	4-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-28	red (2.5YR4/6), yellowish red (5YR5/6) fine clay loam	III
BC	28-38	red (2.5YR4/8) light clay loam; few fine mica flakes	III
C	38-60	red (2.5YR5/8), light yellowish brown (10YR6/4) fine loam and fine sandy clay loam; few fine mica flakes	II
Hole ID: B			Estimated rate, (min/in): 70@42 inches
A	0-3	dark grayish brown (10YR4/2) loam	II
BA	3-12	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	12-36	yellowish red (5YR5/6) fine clay loam	III
BC	36-60	yellowish red (5YR5/8), reddish yellow (7.5YR6/8) light clay loam and fine sandy clay loam	III
Hole ID: E			Estimated rate, (min/in): 60@42 inches
A	0-3	dark grayish brown (10YR4/2) loam	II
BA	3-12	light yellowish brown (10YR6/4) fine sandy clay loam	II
Bt	12-30	yellowish red (5YR5/8) fine clay loam	III
BC	30-42	yellowish red (5YR5/8) light clay loam and fine sandy clay loam	III
CB	42-60	yellowish red (5YR5/8), strong brown (7.5YR5/8) fine sandy clay loam and fine loam	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 14 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**

3/27/2006

Health Department:

Louisa

Project name:

"Hunterston," a division of {TM 70-46}

Lot:

14

Site:

reserve

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslopeSlope: 12%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 65Estimated rate slowest hole: 70Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Abbreviated Drainfield Design**Puraflo™ System**

Estimated Perc. Rate, min./in.	<input type="text" value="65"/>
Number of Bedrooms	<input type="text" value="3"/>
Design Flow, gpd	<input type="text" value="450"/>
Trench Length, ft.	<input type="text" value="80"/>
Trench Width, ft.	<input type="text" value="3"/>
Number of Trenches	<input type="text" value="3"/>
On-Center Spacing, ft.	<input type="text" value="10"/>
Usable Width of Area, ft.	<input type="text" value="23"/>
Square Footage Required, sq. ft.	<input type="text" value="659"/>
Square Footage Available, sq. ft.	<input type="text" value="720"/>
Installation Depth, in.	<input type="text" value="42"/>
Reserve Area Included in Layout	<input type="text" value="100%"/>

Project number	<input type="text" value="03021"/>
Lot	<input type="text" value="14"/>
Site	<input type="text" value="reserve"/>



- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☒ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The demarcated area will serve as a conventional trench-type drainfield for a Puraflo™ (or equivalent) system.

The proposed reserve drainfield will occupy the lower 3 trenches of the demarcated 10-trench layout.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

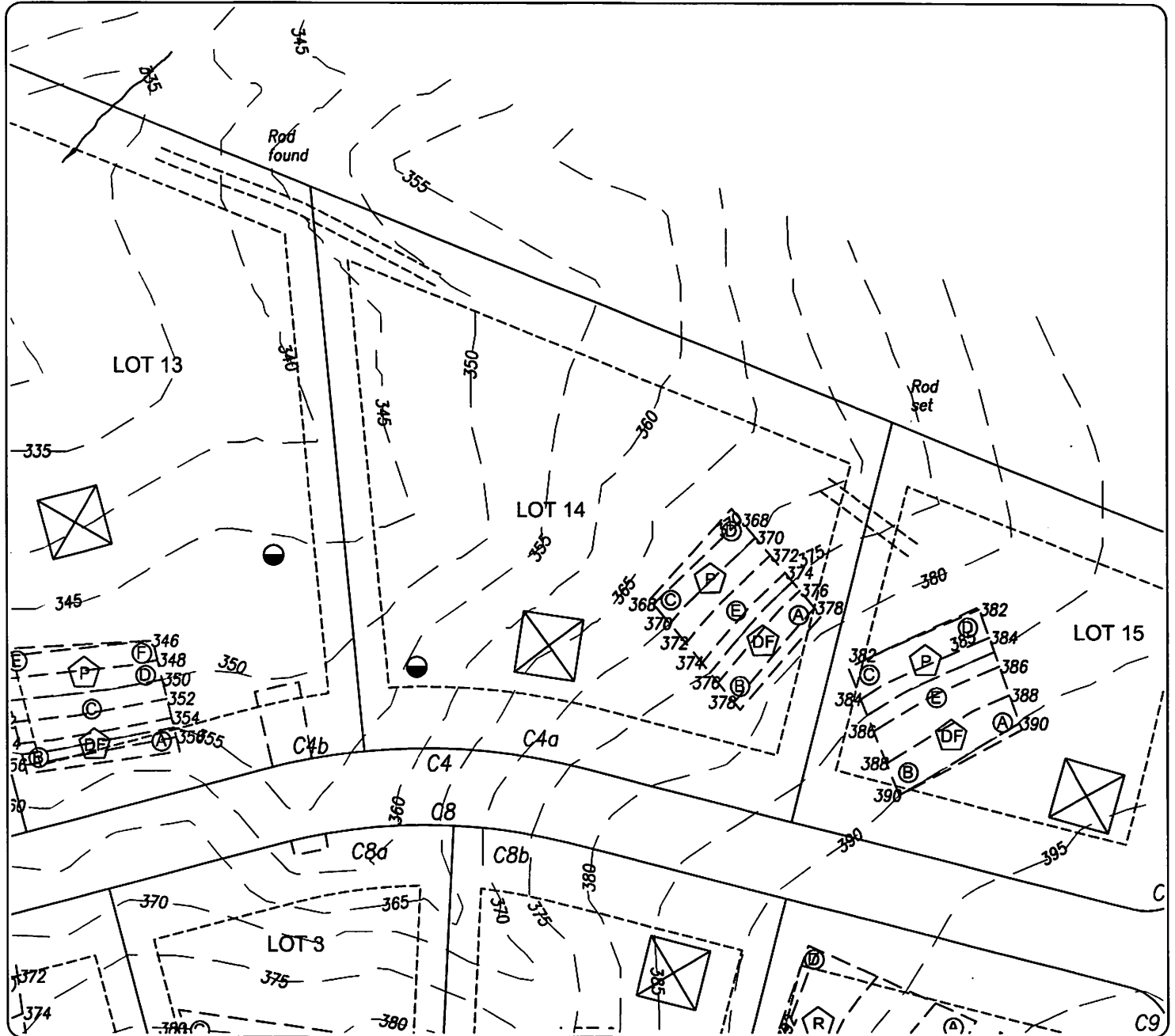
Sketch of:

Lot 14

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB



Scale: 1" = 100'



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/10/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 14**Site** reserve

Horizon	Depth	Description	Texture Class
Hole ID: C			Estimated rate, (min/in): 70@42 inches
A	0-3	dark grayish brown (10YR4/2) loam	II
BA	3-12	light reddish brown (2.5YR6/4) fine sandy clay loam	II
Bt	12-50	yellowish red (5YR5/8) fine clay loam	III
BC	50-60	yellowish red (5YR5/8), brownish yellow (10YR6/6), strong brown (7.5YR5/6) fine sandy clay loam and light clay loam; common fine mica flakes	II
Hole ID: D			Estimated rate, (min/in): 65@42 inches
A	0-3	dark grayish brown (10YR4/2) loam	II
BA	3-12	light yellowish brown (10YR6/4) fine sandy clay loam	II
Bt	12-36	yellowish red (5YR5/8) fine clay loam	III
BC	36-48	yellowish red (5YR5/8), brown (7.5YR5/4) fine clay loam and fine sandy clay loam; few fine mica flakes	III
C	48-60	reddish brown (2.5YR4/4), strong brown (7.5YR5/8) fine loam to silt loam; few light clay loam tongues, many fine mica flakes	II
Hole ID: E			Estimated rate, (min/in): 60@42 inches
A	0-3	dark grayish brown (10YR4/2) loam	II
BA	3-12	light yellowish brown (10YR6/4) fine sandy clay loam	II
Bt	12-30	yellowish red (5YR5/8) fine clay loam	III
BC	30-42	yellowish red (5YR5/8) light clay loam and fine sandy clay loam	III
CB	42-60	yellowish red (5YR5/8), strong brown (7.5YR5/8) fine sandy clay loam and fine loam	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 14 reserve


Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**

3/27/2006

Health Department:

Louisa

Project name:

"Hunterston," a division of {TM 70-46}

Lot:

15

Site:

primary

Location: The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslopeSlope: 10-12%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 60Estimated rate slowest hole: 65Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Abbreviated Drainfield Design

Estimated Perc. Rate, min./in.	60
Number of Bedrooms	3
Design Flow, gpd	450
Trench Length, ft.	90
Trench Width, ft.	3
Number of Trenches	6
On-Center Spacing, ft.	10
Usable Width of Area, ft.	53
Square Footage Required, sq. ft.	1360
Square Footage Available, sq. ft.	1620
Installation Depth, in.	42
Reserve Area Included in Layout	0%

Project number	03021
Lot	15
Site	primary



Other features

- ☐ Primary and reserve areas included in this design
- ☐ Pump system required
- ☐ Low pressure system required
- ☐ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The proposed primary drainfield will occupy the upper 6 trenches of the demarcated 9-trench layout.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

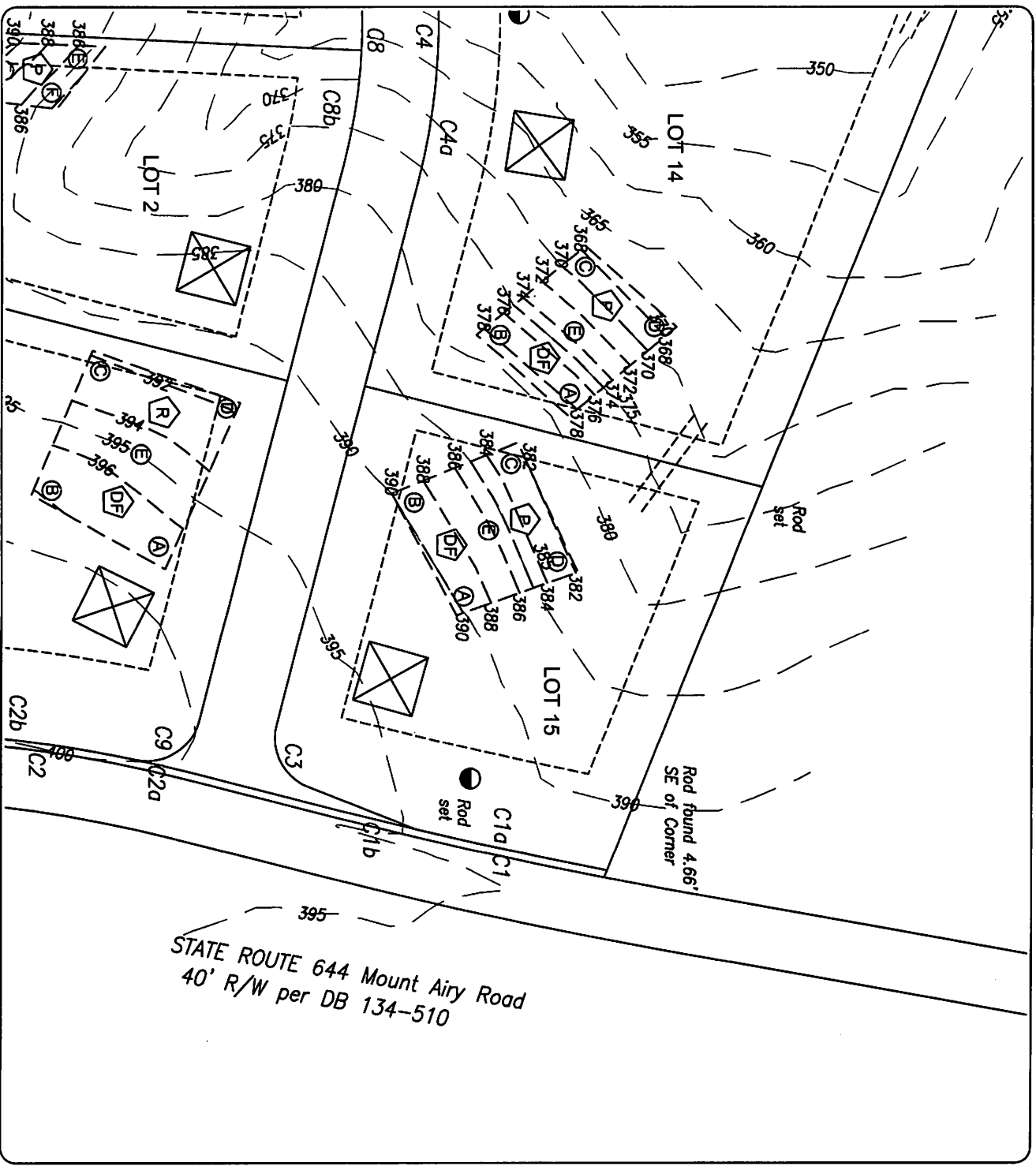
Phone: 434-973-0273 Fax: 434-964-1501

Sketch of:
Lot 15

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraño Drainfield



= Well, IIIC



= Drip System



= Well, IIIB



Scale: 1" = 100'

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/10/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 15**Site** primary

Horizon	Depth	Description	Texture
Hole ID: A			Class
Estimated rate, (min/in): 65@42 inches			
A	0-3	dark grayish brown (10YR4/2) loam	II
BA	3-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-36	red (2.5YR4/6) fine clay loam	III
BC	36-48	red (2.5YR4/8) light clay loam and fine sandy clay loam; few fine mica flakes	III
CB	48-66	red (2.5YR5/6), light brown (7.5YR6/4) fine loam; few fine mica flakes	II
Hole ID: B			
Estimated rate, (min/in): 60@42 inches			
AB	0-8	brown (7.5YR5/4), yellowish brown (10YR5/4) fine sandy clay loam — gravelly	II
Bt	8-36	red (2.5YR4/6) clay loam	III
BC	36-40	red (2.5YR4/8), reddish brown (2.5YR5/4) light clay loam; common weathered schist fragments, few quartz fragments	III
CB	40-60	red (2.5YR4/8) heavy fine sandy clay loam; few fine mica flakes	II
Hole ID: E			
Estimated rate, (min/in): 55@42 inches			
A	0-2	grayish brown (10YR5/2) loam	II
AB	2-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-36	red (2.5YR4/6) clay loam	III
CB	36-64	red (2.5YR5/6), yellowish red (5YR5/6) fine sandy clay loam	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 15 primary

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Evaluation Report**Project number:** 03021**Applicant:** Stanford L. & Donna P. Hunter
10200 Old Hunt Road
Vienna, VA
703-938-9899**Owner:****Date:**
3/27/2006**Health Department:**
Louisa**Project name:**
"Hunterston," a division of {TM 70-46}**Lot:**
15**Site:**
reserve**Location:** The subdivision is located on the west side of SR 644, Mt. Airy Rd., about 1.6 miles northwest of SR 605, Shannon Hill Rd.Position in Landscape: sideslopeSlope: 10-12%Depth to rock or impervious strata, in.: None maximum: _____ minimum: _____Depth to seasonal water table (gray mottling or color), in.: NoneFree water present: No Range in inches: _____Percolation rate estimated: YesTexture class: IIIEstimated rate average at depth: 60Estimated rate slowest hole: 60Percolation test preformed: No

Number of percolation test holes: _____

Depth of percolation test holes: _____

Average percolation rate: _____

Comments:

hand auger evaluation

Name and title of evaluator:D. Vaughan Mairs, AOSE #182
1670 Merrifields Lane
Ruckersville, Virginia 22968
Tel: 434-973-0273, Fax: 434-964-1501

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Abbreviated Drainfield Design**Puraflo™ System**

Estimated Perc. Rate, min./in.	<input type="text" value="60"/>
Number of Bedrooms	<input type="text" value="3"/>
Design Flow, gpd	<input type="text" value="450"/>
Trench Length, ft.	<input type="text" value="90"/>
Trench Width, ft.	<input type="text" value="3"/>
Number of Trenches	<input type="text" value="3"/>
On-Center Spacing, ft.	<input type="text" value="10"/>
Usable Width of Area, ft.	<input type="text" value="23"/>
Square Footage Required, sq. ft.	<input type="text" value="608"/>
Square Footage Available, sq. ft.	<input type="text" value="810"/>
Installation Depth, in.	<input type="text" value="42"/>
Reserve Area Included in Layout	<input type="text" value="100%"/>

Project number	<input type="text" value="03021"/>
Lot	<input type="text" value="15"/>
Site	<input type="text" value="reserve"/>



- ☐ Primary and reserve areas included in this design
- ☒ Pump system required
- ☐ Low pressure system required
- ☒ Secondary treatment required
- ☐ Secondary treatment recommended
- ☐ 3C well (100' minimum from any drainfield)
- ☒ 3B well (50' minimum from any drainfield)
- ☐ Regrading of erosion features, etc. required
- ☐ Ground control not on site at time of evaluation
- ☐ Thick vegetation on site at time of evaluation
- ☐ Deeper installation may be possible with backhoe review

Other considerations

The demarcated area will serve as a conventional trench-type drainfield for a Puraflo™ (or equivalent) system.

The proposed reserve drainfield will occupy the lower 3 trenches of the demarcated 9-trench layout.

Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

1670 Merrifields Lane, Ruckersville, Virginia 22968

Phone: 434-973-0273 Fax: 434-964-1501

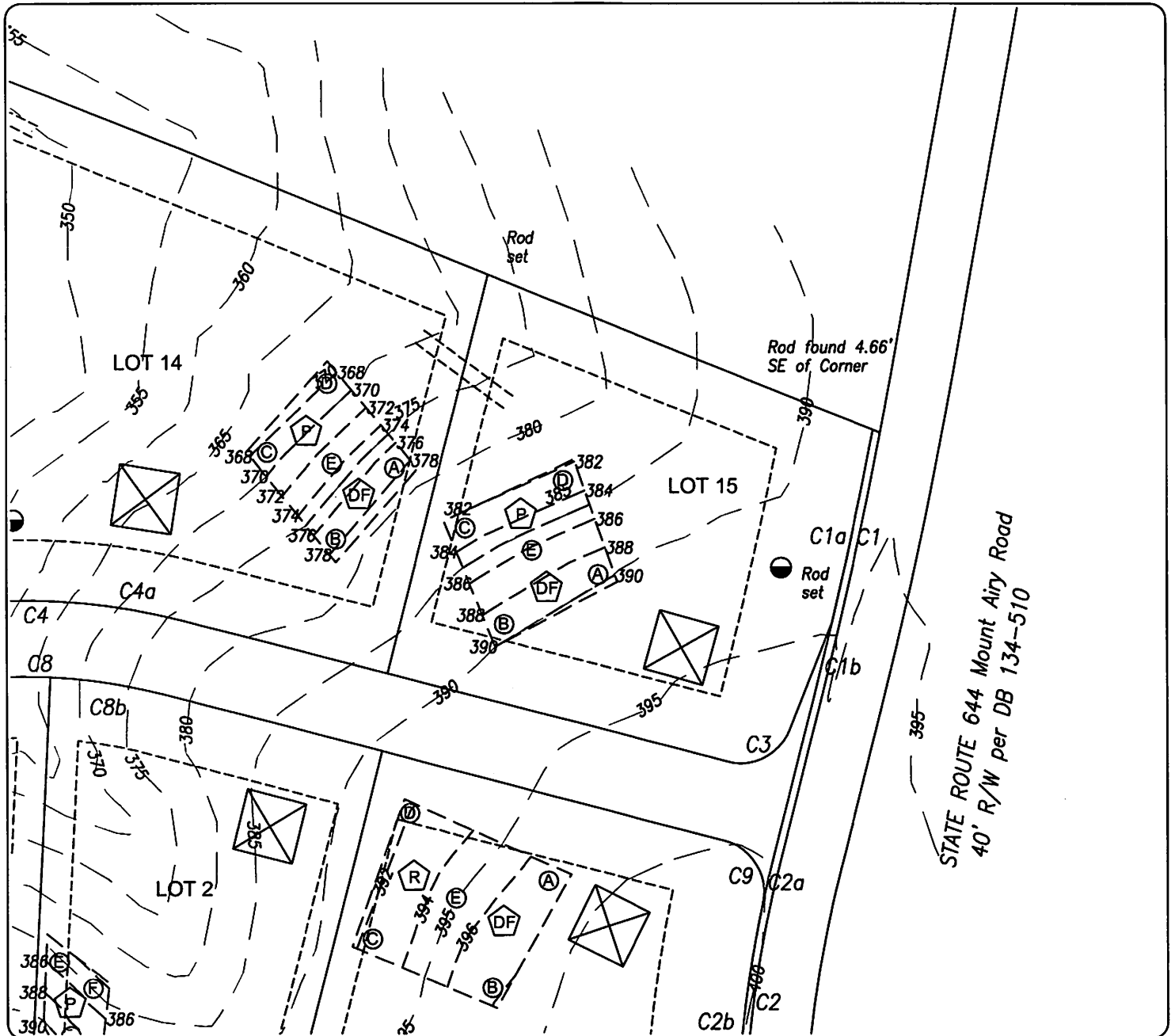
Sketch of:

Lot 15

Hunterston

showing proposed

Drainfield, Well, & House Site



Legend



= House Site



= Drainfield



= Bore Hole



= Reserve Drainfield



= Test Pit



= Puraflo Drainfield



= Well, IIIC



= Drip System



= Well, IIIB



Scale: 1" = 100'



Onsite Soil Consulting, LLC

Authorized Onsite Soil Evaluator

Soil Profile Descriptions**Date of evaluation** 2/10/2006**Project #** 03021 **Project name** "Hunterston," a division of {TM 70-46}**Lot** 15**Site** reserve

Horizon	Depth	Description	Texture Class
Hole ID: C			Estimated rate, (min/in): 60@42 inches
A	0-2	brown (10YR4/3) loam	II
BA	2-10	brown (7.5YR5/4) fine sandy clay loam	II
Bt	10-36	red (2.5YR4/8) fine clay loam; few quartz fragments	III
BC	36-48	red (2.5YR5/6) heavy fine sandy clay loam	II
CB	48-60	red (2.5YR5/6), light brown (7.5YR6/4) fine loam to silt loam	II
Hole ID: D			Estimated rate, (min/in): 60@42 inches
A	0-3	dark grayish brown (10YR4/2) loam	II
BA	3-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-36	red (2.5YR4/6) fine clay loam	III
CB	36-48	red (2.5YR4/8), yellowish red (5YR5/8) fine sandy clay loam and light clay loam; few fine mica flakes	II
C	48-66	reddish brown (5YR5/4), reddish yellow (5YR6/8), light yellowish brown (10YR6/4) fine loam; few fine mica flakes	II
Hole ID: E			Estimated rate, (min/in): 55@42 inches
A	0-2	grayish brown (10YR5/2) loam	II
AB	2-10	yellowish brown (10YR5/4) fine sandy clay loam	II
Bt	10-36	red (2.5YR4/6) clay loam	III
CB	36-64	red (2.5YR5/6), yellowish red (5YR5/6) fine sandy clay loam	II



Certification Statement

Date: 3/27/2006

Project number: 03021

County: Louisa

Site Identification: "Hunterston," a division of {TM 70-46}, Lot 15 reserve

Submitted by: Onsite Soil Consulting, LLC

This is to certify according to §32.1-12 and 32.1-164 of the *Code of Virginia* that work submitted for the referred property is in accordance to and complies with the *Sewage Handling and Disposal Regulations* of the Va. Department of Health. I recommend a subdivision approval be approved.

Name and title of evaluator:

D. Vaughan Mairs, AOSE #182

Signature: _____

