Tract 1

SETEC

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General Information

Date: 11/29/17 Bedford County Health Department
Applicant: Dr. Stephen Richerson Telephone #: (540) 389-5468
Hopetree Property Holdings LLC
Address: 860 Mt. Vernon Lane, Salem, VA 24153
Directions to the Property: US 221 S/US 460 West, Right onto SR 697, Left on Apple Butter Lane, Property is on Right (existing house)
Subdivision: Minor Subdivision of Tax Parcel 69-(1)-D Lot: 1

Soil Information Summary

1. Position in landscape satisfactory Yes [x] No [ ] Describe: Upland

2. Slope 6 %

3. Depth to rock\impervious strata: Max. 48" Min. 36" None

4. Depth to seasonal water table (gray mottling or gray color) No [ ] Yes [x-] 27"`

5. Free water present No [x] Yes [ ] range in inches

6. Soil percolation rate estimated Yes [x] Texture group 2
   No [ ] Estimated rate 45 Min/inch

7. Percolation test performed Yes [ ] Number of percolation test holes
   No [x] Depth of percolation test holes
   Average percolation rate

Name and title of evaluator: Bill Evans PSS/COSE

Signature:

Site Approved: Absorption trenches dispersing TL-2 treated effluent to be placed at 15" depth at site designated. Site provides a total of 900 square feet of absorption area for the main drainfield.

Site Disapproved:

Reason for rejection: (check all that apply)
1 Position in landscape subject to flooding or periodic saturation.
2 Insufficient depth of suitable soil over hard rock.
3 Insufficient depth of suitable soil to seasonal water table.
4 Rates of absorption too slow.
5 Insufficient area of acceptable soil for required drainfield, and\or reserve area
6 Proposed system too close to well
7 Other (Specify)

PROFILE DESCRIPTION
SOIL EVALUATION REPORT

Date of Evaluation: 8/21/17 Bedford County Health Department Identification No.

x See application sketch See construction permit

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Hopetree Property Holdings LLC

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Lot: 1

Hole #	Horizon	Depth	Description	Texture Group
Pit 1	Ap	0-6	Brown (10YR 4/3) sandy loam	2
	BE	6-19	Yellowish Brown (10YR 5/4) sandy loam	2
	Bt	19-30	Strong Brown (7.5YR 5/8) sandy loam	2
	BC	30-48	Strong Brown (7.5YR 5/6) very gravelly sandy loam; common Light Reddish Brown (2.5YR 6/4) and Light Gray (10YR 7/2) redox concentrations and depletions	2
Pit 2	Ap	0-6	Brown (10YR 4/3) sandy loam	2
	BA	6-13	Yellowish Brown (10YR 5/4) sandy loam	2
	Bt	13-28	Strong Brown (7.5YR 5/8) sandy loam	2
	BC	28-36	Strong Brown (7.5YR 5/6) very gravelly sandy loam; common Light Reddish Brown (2.5YR 6/4) and Light Gray (10YR 7/2) redox masses and depletions	2
	C	36-42	Yellowish Red (5YR 5/8) common Light Reddish Brown (2.5YR 6/4) and Light Gray (10YR 7/2) redox concentrations and depletions	2
Pit 3	Ap	0-7	Brown (10YR 4/3) gravelly sandy loam	2
	BA	7-16	Brown (7.5YR 5/4) gravelly sandy loam; 25% coarse fragments	2
	Bt	16-30	Strong Brown (7.5YR 5/8) gravelly sandy loam; 25% coarse fragments	2
	C	30-36	Strong Brown (7.5YR 5/8) cobbly sandy loam; 30% coarse fragments; common Light Reddish Brown (2.5YR 6/4) and Light Gray (10YR 7/2) redox concentrations and depletions	2
	Hard	36		
Pit 4	Ap	0-8	Brown (10YR 4/3) gravelly sandy loam	2
	BA	8-15	Brown (7.5YR 5/4) gravelly sandy loam	2
	Bt	15-27	Strong Brown (7.5YR 5/8) gravelly sandy loam	2
	C	27-36	Reddish Yellow (7.5YR 6/8) very cobbly sandy loam; few Light Brownish Gray (10YR 6/2) redox depletions	2
	Hard	36		

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Hopetree Property Holdings

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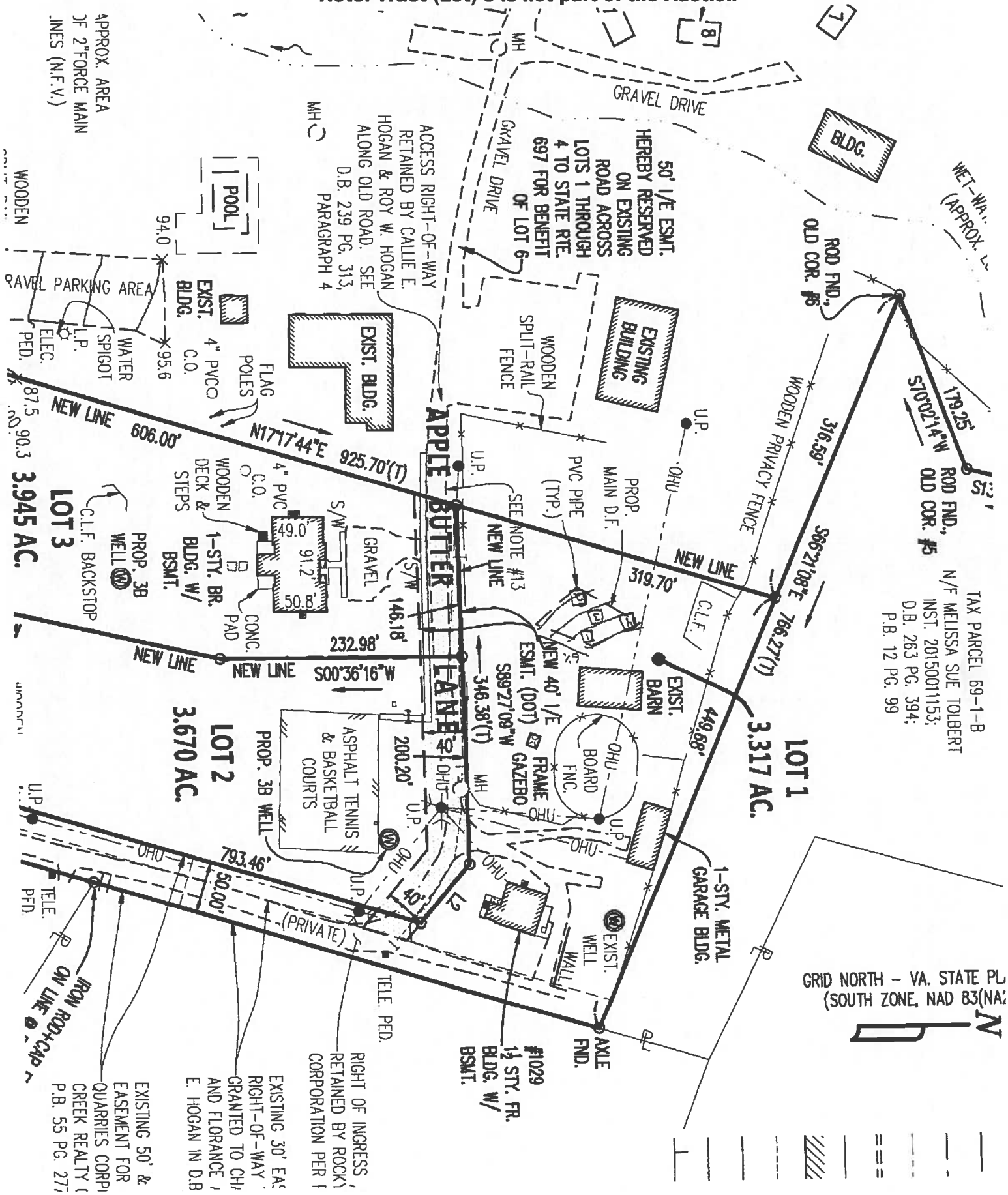
DRAINFIELD RECOMMENDATIONS, DESIGN BASIS, & AREA CALCULATIONS AND WELL RECOMMENDATION & SPECIFICATIONS

Main DF		Reserve DF	
Type of system	TL-2 Pretreatment into Conventional Shallow Placed Lines	Reserve Area Required	No
EPR	45	Type of Reserve	N/A
Slope %	6	EPR	N/A
# Bedrooms	4	Slope %	N/A
Gallons/Day	600	Gallons/Day	N/A
Width of Trench (ft.)	3	Width of Trench (ft.)	N/A
Design Loading Rate (gpd/sqft)	0.67	Total Square Ft. of Trench Bottom Required	N/A
Total Square Ft. of Trench Bottom Required per BR	206	Total Square Ft. of Trench Bottom in Design	N/A
Total Square Ft. of Trench Bottom per BR in Design	225	# Lines of Reserve	N/A
Total Square Ft. of Trench Bottom Required	824	Line Length (ft.)	N/A
Total Square Ft. of Trench Bottom in Design	900	Installed <24" from Rock or Other Impervious Strata	N/A
# Lines Installed	6	Centers (ft.)	N/A
Length of Line Installed (ft.)	50	Width Required (ft.)	N/A
Installed <24" from Rock or Other Impervious Strata	Yes	Width in Design (ft.)	N/A
Centers (ft.)	9	Installation Depth (inches into natural soil)	N/A
Width Required (ft.)	48	Amount of Backfill Required (inches)	N/A
Installation Depth (inches into natural soil)	15		N/A
Amount of Additional Clean Topsoil Backfill Required (inches)	9	Type of Well Recommended	N/A Existing Well
		Amount of Casing & Grout (ft.)	N/A

The current drainfield for this house is located off site.

Minor Subdivision of Tax Parcel 69-(1)-D Lot 1
Drainfield Location Information (Tracts 1-3)
Note: Tract (Lot) 3 is not part of the Auction