

STONE COUNTY HEALTH DEPARTMENT
ONSITE WASTEWATER TREATMENT SYSTEM
CONSTRUCTION PERMIT APPLICATION

Parcel ID # 14-1.0-01-000-000-004.001

Date 5/7/12 Ck# 3839 Payee Pepe Enterprises Amt. \$200 -

Permit # 19484

Reviewed By Todd Fickelberry EPHS # 1135

EPHS Signature 7th Fill 5-7-12

Subdivision Lot #

Map Code Final Inspection Date

City County Zip Code

Branson West Stone 11/13/12 complete passed per 7.7.

Is repair/replacement due to sale of property? (Please check applicable box) ☐ Yes ☒ No

Directions to Site E on DD Hwy approx 3mi go left on Chateau Lane, (Dirt Road) to Bldg site on left.

3. Mailing Address (if different from above) Day Phone Number Night Phone Number

City State Zip Code

City State Zip Code

4. System Is New Construction ☒ System Replacement ☐ System Repair and/or Modification ☐

5. System Serves Residence ☐ Business ☐

Single Family ☒ No. Bedrooms: 2 Basement ☐ Food Service ☐

No. Bathrooms: Whirlpool Bath ☐ Lodging ☐

Multi-Family ☐ Laundry Facility ☐ Garbage Disposal ☐ Other (specify):

Dishwasher ☐ No. Served: 240

Water Softener ☐ Daily Sewage Flow (gallons per day)

6. Water Supply Public ☒ Private ☐ Date of Last Water Test

Name of Supply Type Supply Bored Well ☐ Dug Well ☐ Driven Well ☐

Drilled Well ☒ Other (specify):

7. Lot Size # acres 1.23 % Slope 4% Indicate direction of slope on Site Layout

8. Soil Information Include soil morphology report with the application

Soil Morphology ☐ Application Rate (gpd/sq. ft.) .4

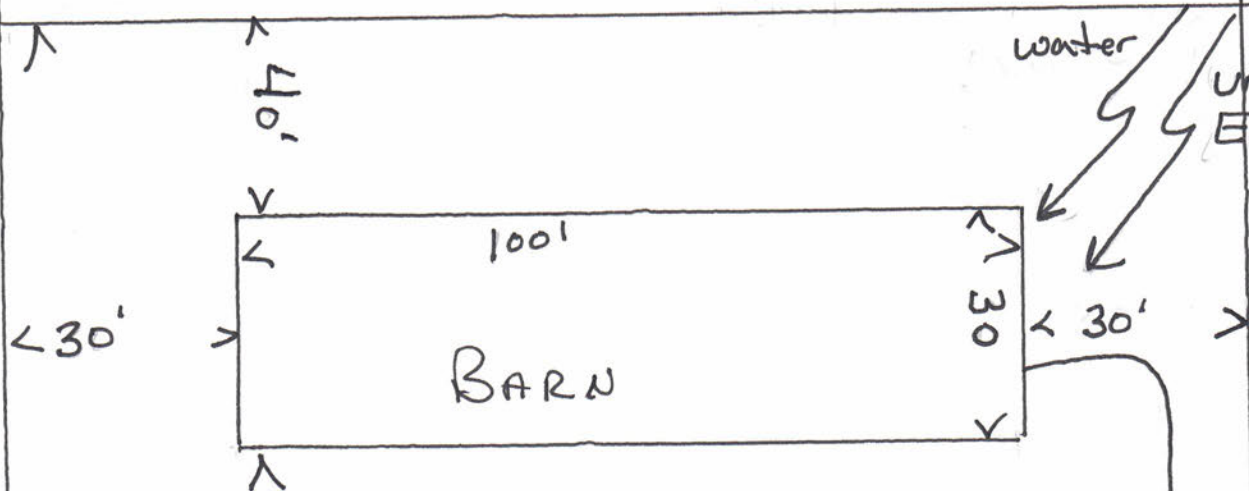
9. Name of Soil Evaluator Doug Gisselbeck Tester Identification Number

Address 1710 W. Farm Rd 62 Phone Number

City State Zip Code

Spfld Mo. 65803

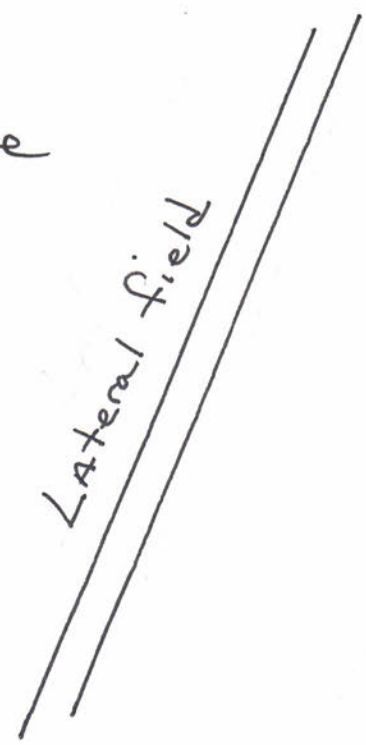
#4



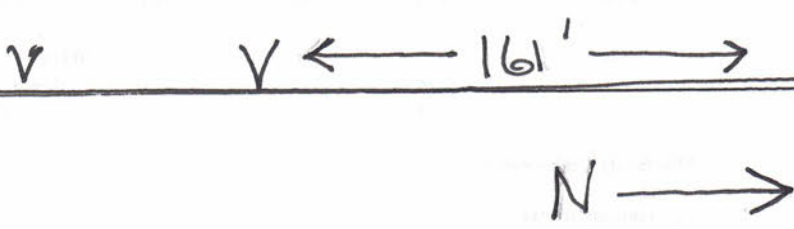
334'

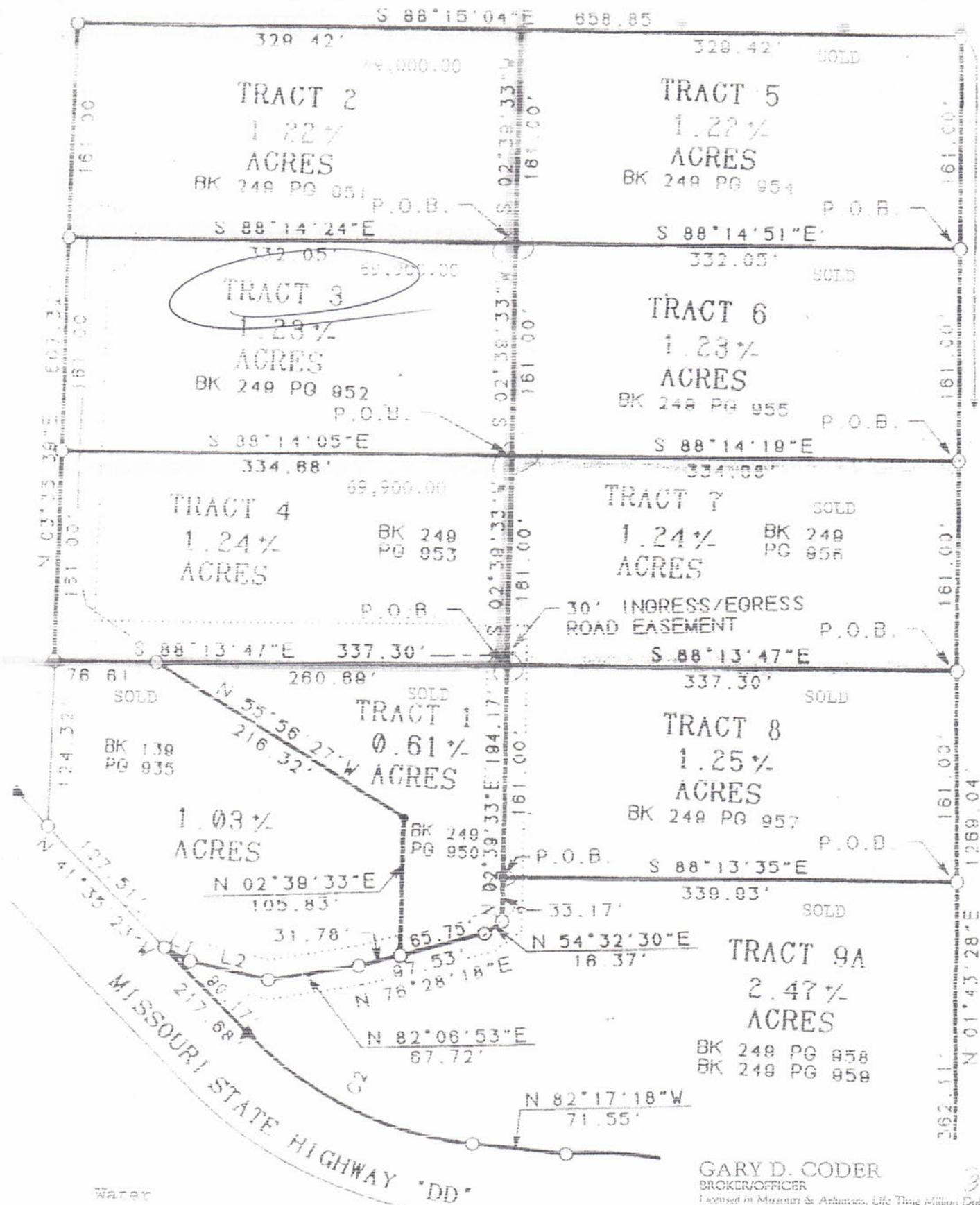
264'

TRACT #3
Chateau Lane
Builder
Guy Pepe
838-4031



#2





Water
 Electricity
 Telephone
 Cable
 Underground to each lot.
 Soil Evaluation Test completed.

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18020C State Hwy. 13
 1 Blk. S. of Jct. State Hwy 13
 P.O. Box 1098
 Branson West, MO 65753
 www.branson-area-real-estate.com

SITE EVALUATION for ON-SITE SEWAGE SYSTEM

Property Contractor: Guy Pepe (Life Styles Homes)

Date: 5/3/2012

Site Address: 2866 St. Hwy DD

Mailing Address: _____

Branson West, MO

Subdivision, Lot:

Day _____

Evening() -

County: Stone

Legal Location: NW 1/4, NW 1/4, S 36, T23N, R23W

Residence - Barn w/ Bath & Shower:

Latitude: 36° 38.666' N

Longitude: 93° 22.814' W

Business - Type:

Loading Rate: 0.4 gpd/sqft

System is: New

☒

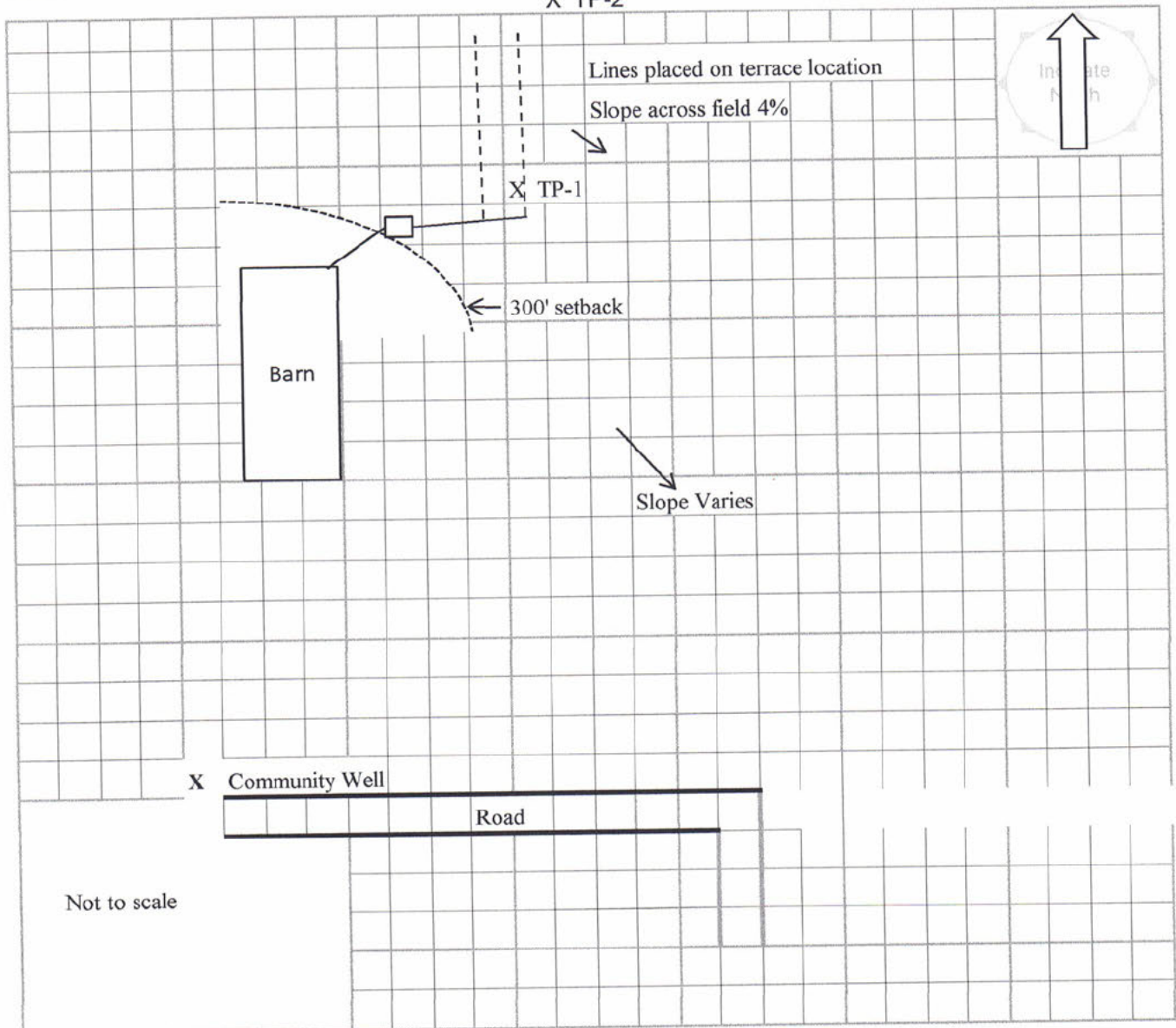
Replacement

☐

Repair

☐

X TP-2



Site Diagram and Cross-Section : Show relative location of buildings, wells, roads, rock outcrops, depressions, sinkholes, location of soil observations, etc. Indicate the evaluated area(s) and direction of slope.
(Property lines, easements, buried utilities, etc., are as observed, or as reported by property owner)

SOIL PROFILE DESCRIPTION

Owner: Guy Pepe (Contractor)

Date: 5/3/2012

Pit (required for new installation) or Core #: 1 of 2

SOIL CHARACTERISTICS		Clacksville like	Excavation Depth: 52"		Parent Material: Colluvium / Residuum	
Vegetation: Trees/ Grass						

Suitability (S, PS, U)	Horizon		Munsell Color (moist)	Redoximorphic Features ⁽²⁾	Texture		Consistence ⁽⁴⁾	Structure ⁽⁵⁾	Roots /Pores ⁽⁶⁾	Shrink /Swell	Soil Group	Application Rate	
	Design ation	Depth / Boundary ⁽¹⁾			USDA (3)	% Clay						Conv. (Table 13)	LPP (Table 14)
PS	Ap	0 - 5	10YR 3/2			16	20	FR	2 M SBK	MM	L	0.5	
		CS											
PS	Bt1	5 - 12	7.5YR 4/4			24	25	FR	2 M SBK	MM	L	0.4	
		CS											
PS	Bt2	12 - 19	5YR 4/6			26	25	FR	2 M SBK	CF	L	0.4	
		CW											
PS	2Bt3	19 - 41	10R 3/4	Few FeMn stains & conc		45	30	FI	2 M SBK	FF	L	0.4	
		CW											
PS	3Bt4	41 - 52	10R 4/6	C FeMn conc		60	20	VFI	2 M SBK	FF	L	0.35	

Notes: GPS location of: TP-1 36° 38.666' N, 93° 22.3814' W. TP-2, 36° 38.673' N, 93° 22.808' W. Rock fragment content is 60% total in the 2Bt3 horizon, the clay

content in this horizon is high enough to slow the movement of water through this layer with the added lower horizon clay content there is little chance of rapid

permeability contaminating the water table or lake. Since this horizon starts at 19 inches, it is recommended to install a shallow placement lateral lines with a bottom

trench depth at 12 inches, covering the the lines with 6 inches of a silt loam material.

Notations used on Soil Profile Description

(1) **Boundary** distinctness: A-abrupt, C-clear, G-gradual; topography: S-smooth, W-wavy, I-irregular;

(2) **Redox Features** Report low chroma Munsell colors and iron and manganese concentrations indicative of soil drainage limitations;

(3) **Texture** s-sand, ls-loamy sand, sl-sandy loam, l-loam, sil-silt loam, si-silt, scl-sandy clay loam, cl-clay loam, sicl-silty clay loam, sc-sandy clay, sic-silty clay, c-clay; Designate estimated clay content for all horizons;

(4) **Consistence** (report moist consistence) moist: fr-friable, fi-firm, vfi-very firm; wet: ss-slightly sticky, s-sticky, vs-very sticky and sp-slightly plastic, p-plastic, vp-very plastic; dry: sh-

slightly hard, h-hard, vh-very hard;

(5) **Structure** grade: 1-weak, 2-moderate, 3-strong; size: f-fine (thin if platy), m-medium, c-coarse (thick if platy); shape: ABK-angular blocky, SBK-subangular blocky, GR-granular, PL-

platy, PR prismatic, MA-massive;

(6) **Roots/Pores** abundance: f-few, c-common, m-many; size: vf-very fine, f-fine, m-medium, c-coarse.

SITE CLASSIFICATION for ON-SITE SEWAGE SYSTEM – 19 CSR 20-3.060(2) & (7)

Owner: Guy Pepe (Contractor)

Pit/Core #: 1 of 2 Date: 5/3/2012

Suitability See recommendations below S – Suitable; PS – Provisionally Suitable; U – Unsuitable; for conventional system.

<u>S</u>	LANDSCAPE POSITION: BS - Terrace	Slope aspect: SE
	Flooding frequency: None ☒ Rare ☐ Occasional ☐ Frequent ☐	Surface depression(s) in evaluated area? <u>N</u>
<u>S</u>	& TOPOGRAPHY Percent Slope: 4	Slope Type: Uniform ☒ Complex ☐
	Shape across (contour): V	Shape down (profile): L
SOIL CHARACTERISTICS (See Profile Description for details)		
<u>PS</u>	TEXTURE to a depth of 52 inches	Depth of unsuitable texture N/A inches
<u>PS</u>	STRUCTURE to a depth of 52 inches	Depth of unsuitable structure N/A inches
<u>S</u>	SOIL DRAINAGE Type of water table: None	Depth to water table N/A inches
<u>S</u>	Surface drainage limitations: None	Runoff slope length 30 feet
<u>S</u>	SOIL THICKNESS Depth of bedrock: 52+ inches	Rock outcrops? N
<u>S</u>	RESTRICTIVE HORIZON Type: N/A	Depth: Thickness:
<u>S</u>	AVAILABLE SPACE Estimated space available: 3 + acres	
	Adequate for a conventional system? Y an alternative system?	replacement area?
OTHER FACTORS Note any environmental hazards:		
High groundwater contamination potential? (If yes, indicate reason):		
Sinkhole ☐ Rapid permeability ☐ Depth to highly permeable bedrock ☐ Fill material /depth ☐		
<u>PS</u>	OVERALL Notes: See Comments page	

Overall site classification will be determined by the lowest of the uncorrectable characteristics.

- **S** An overall site classification of **suitable** indicates soil and site conditions favorable for the operation of a conventional absorption system.
- **PS** Sites classified as **provisionally suitable** require some modifications and careful planning, design, and installation for a conventional system or alternative system to function satisfactorily.
- **U** Sites originally classified as **unsuitable** may possibly be reclassified as **provisionally suitable** according to subsection (7)(K).
- An **unsuitable** site may be used for soil absorption systems, provided engineering, hydrogeologic and soil studies indicate to the administrative authority that a conventional or alternative system could be expected to function satisfactorily. These sites may be reclassified as **provisionally suitable** upon meeting the requirements of the administrative authority according to subsection (6)(K).

Recommendations* associated with Provisionally Suitable or Unsuitable classifications:

<u>X</u>	Trenches must not be dug when wet to prevent damaging soil/trench surfaces.
	Surface water diversion is needed.
	An interceptor drain should be installed upslope at a depth of inches.
<u>X</u>	Shallow or modified shallow placed trenches should be installed at a depth of 12 inches.
	An alternative/engineered system is needed to overcome site limitations.

Comments/Recommendations

System is designed for an outbuilding (barn) w/ a bathroom and shower. A 1000 gal septic tank is required w/ 200 linear feet of lateral lines.

Lateral lines should be shallow placed w/ the bottom of the trench depth at 12 inches, due to the high rock content starting at 19 inches (see Soil Profile Description pg 2).

Setback tank and lateral lines a minimum 300 feet from community well.

*Recommendations are to assist the property owner, and their agents in complying with the standards, and are subject to approval by the administrative authority.

I, the undersigned, hereby certify that the site evaluation was made in accordance with the requirements of Sections 701.025-701.059 RSMo and 19 CSR 20-3.060 and 19 CSR 20-3.080, and that the data recorded is correct to the best of my knowledge.

Doug Gisselbeck: State Reg # 10089
Print name


Signature

5/3/2012
Date

Important Recommendations for Installers and Homeowners:

Protect the absorption area before and after construction. Do not drive over or store excavated materials on field area etc.

Shallow placed absorption systems utilize more permeable and better-aerated soil horizons.

Do not install soil absorption system when soil is wet.

Redirect surface water, house guttering, and foundation drains away from absorption field.

Establish & maintain adequate vegetative cover over the field.

Regularly inspect, maintain, and pump your sewage system.

Install water saving devices & practice water conservation.

Check for and repair any water leaks as soon as discovered.

Spread out water use, such as laundry, throughout the week.

Restrict garbage disposal use.

Do not put fats or grease into the sewage system.

Keep chemicals and hazardous wastes out of your system.

Use disinfectants and high strength cleaners sparingly.

Do not plan any building improvements, patios, etc. near the sewage system or repair area.

Minimum Set-Back Distances
Based on 19 CSR 20-3.060(1)(D) Table 1
[See also (6)(D) for lagoons]

Minimum Distance from	Sewage Tank (feet)	Disposal Area (feet)	Lagoons (feet)
Private water supply well	50	100	100
Public water supply well	300	300	300
Cistern	25	25	25
Spring	50	100	100
Classified stream or lake	50	50	50
Stream or open ditch	25	25	25
Property lines	10	10**	75
Building foundation	5	15	[100]
Basement	15	25	[100]
Swimming pool	15	15	
Pressure water line	10	10	10
Suction water line	50	100	100
Upslope interceptor drain	-	10	
Downslope interceptor drain	-	25	
Embankment or cuts	-	20	
Edge of sink holes	50	100	500
Other absorption system	-	20	20

**Recommend 25 feet from downslope property line.



Mapped Soil Series:

Map Unit Name	Clarksville-Scholten-Hailey complex, 3 to 15 percent slopes
Map Unit Symbol	73117
Map Unit Name	Sonsac-Gobbler complex, 20 to 35 percent slopes, very stony
Map Unit Symbol	70036
Map Unit Name	Hailey-Rueter complex, 15 to 35 percent slopes, very rocky
Map Unit Symbol	70031

Mapped Geology:

Map Code	Mo
Common Name	Mississippian, Osagean Series
Geologic Era	Paleozoic
Geologic Period	Carboniferous-Mississippian
Geologic Age	Early Mississippian-Osagean Series
Geologic Unit	OSAGEAN SERIES
Map Code	Mk
Common Name	Mississippian, Kinderhookian Series
Geologic Era	Paleozoic
Geologic Period	Carboniferous-Mississippian
Geologic Age	Early Mississippian-Kinderhookian Series
Geologic Unit	KINDERHOOKIAN SERIES

Latitude: 36° 38.666' N, Longitude: 93° 22.814' W

