

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM
 (Complete all fields in full)

OWNER: Jan Keller DATE EVALUATED: 2-26-24
 ADDRESS: 8618 NC 27 E, Coats
 PROPOSED FACILITY: SFD 30' x 50' PROPOSED DESIGN FLOW (.0400): 360 PROPERTY SIZE: _____
 LOCATION OF SITE: _____ PROPERTY RECORDED: _____
 WATER SUPPLY: Public Single Family Well Shared Well Spring Other _____ WATER SUPPLY SETBACK: _____
 EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Domestic High Strength IPWW

P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR*	.0503 SLOPE CORRE CTION
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ		
1/ 2	2.7% LS	0-15	SL, S	FI, NS, NP, SE	7.5/2.5/8 7/2 = 26"	48"			.25	
		15-26	CLAY SBK	FI, SS, NP, SE						
		26-48	CLAY SBK	FI, S, NP, SE						
2										
3										
4										

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.0508)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System Type(s)	25% Red	25% Red
Site LTAR	.25	.25
Maximum Trench Depth	14"	15"

SITE CLASSIFICATION (.0509): ~~_____~~ S
 EVALUATED BY: RL/JM
 OTHER(S) PRESENT: _____

Comments: _____

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft ²)	SAPROLITE LTAR (gpd/ft ²)	LPP LTAR (gpd/ft ²)	MINERALOGY/ CONSISTENCE		STRUCTURE	
						MOIST	WET		
CC (Concave slope)	I	S (Sand)	0.8 - 1.2	0.6 - 0.8	0.4 - 0.6	Moist	Wet	SG (Single grain)	
CV (Convex Slope)		LS (Loamy sand)		0.5 - 0.7		Lo (Loose)	NS (Non-sticky)	M (Massive)	
D (Drainage way)	II	SL (Sandy loam)	0.6 - 0.8	0.4 - 0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)	
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)	
FS (Foot slope)	III	SiL (Silt loam)	0.3 - 0.6	0.1 - 0.3	0.15 - 0.3	FI (Firm)	VS (Very sticky)	ABK (Angular blocky)	
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)	
L (Linear Slope)		CL (Clay loam)		None		0.15 - 0.3	EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	VP (Very plastic)	
R (Ridge/summit)		Si (Silt)							
S (Shoulder slope)	IV	SC (Sandy clay)	0.1 - 0.4	0.05 - 0.2	SEXP (Slightly expansive)				
T (Terrace)		SiC (Silty clay)			EXP (Expansive)				
TS (Toe Slope)		C (Clay)							
		O (Organic)	None						

* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

HORIZON DEPTH

In inches below natural soil surface

DEPTH OF FILL

In inches from land surface

RESTRICTIVE HORIZON

Thickness and depth from land surface

SAPROLITE

S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

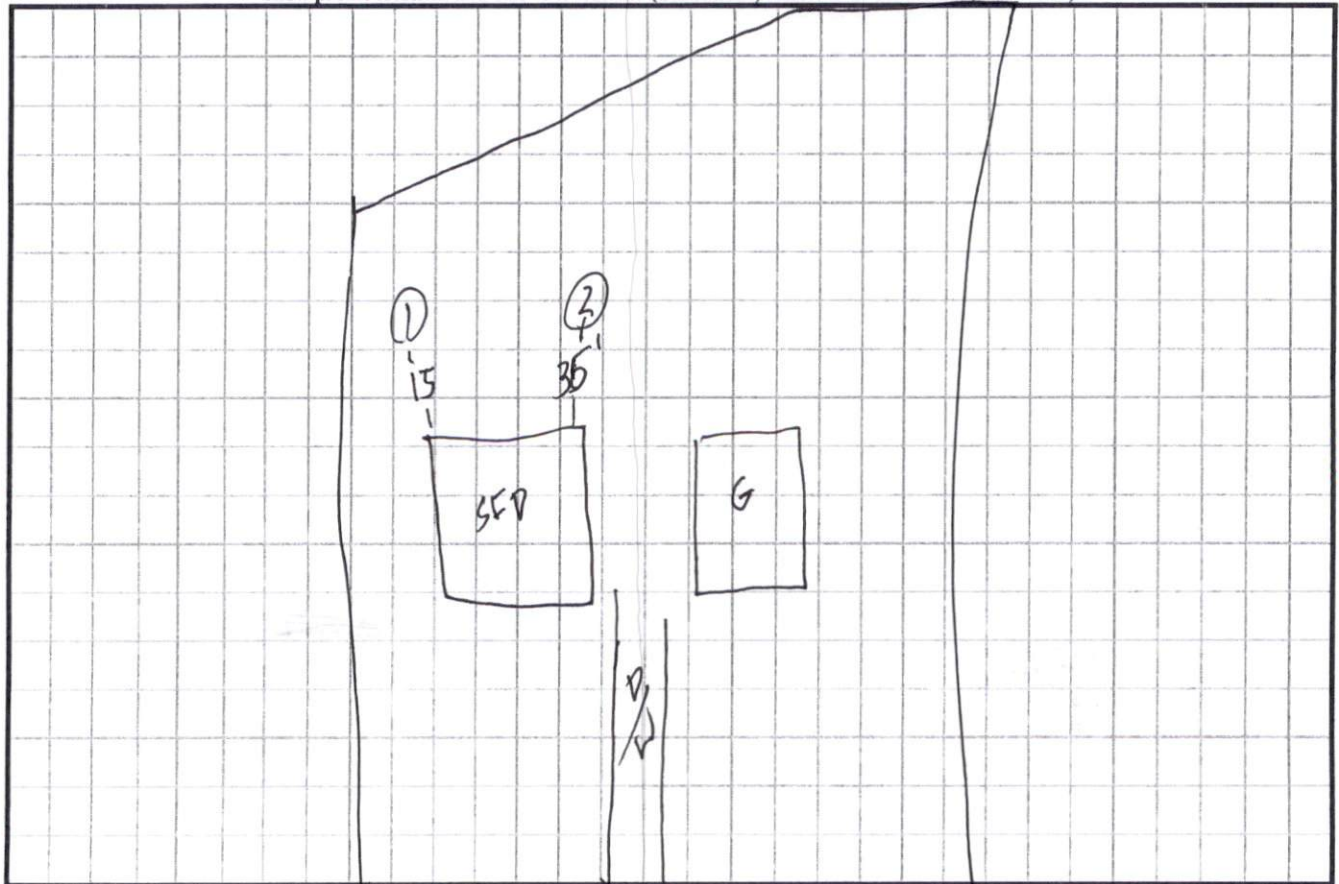
SOIL WETNESS

Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation

CLASSIFICATION

S (Suitable) or U (Unsuitable)

Show profile locations and other site features (dimensions, reference or benchmark, and North).



SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Applicant: Ian Keller
 Address: 8618 NC 27E Date Evaluated: 11-20-23
 Proposed Facility: DU 30'x60' Design Flow (.1949): 360 Property Size:
 Location of Site: Property Recorded:
 Water Supply: Public Individual Well Spring Other
 Evaluation Method: Auger Boring Pit Cut
 Type of Wastewater: Sewage Industrial Process Mixed

P R O F I L E #	.1940 Landscape Position/ Slope %	Horizon Depth (In.)	SOIL MORPHOLOGY .1941		OTHER PROFILE FACTORS					Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz		
1,2	4-5%	0-4	SL, gr	Fr, NS, NP, SE						
		4-27	S CLAY, SBK	FI, SS, SP, SE						
		27-48	CLAY, WK SBK	FI, SS, SP, SE	7.5YR 6/2 Mottles at 28"	48"			.25	
3	4-5%	0-2	SL, gr	Fr, NS, NP, SE						
		2-27	S CLAY SBK	FI, SS, SP, SE						
		27-48	CLAY WK SBK	FI, SS, SP, SE	7.5YR 6/2 Mottles at 27"	48"			.25	
4	4-5%	0-13	SL, gr	Fr, NS, NP, SE						
		13-48	CLAY, SBK	FI, SS, NP, SE	7.5YR 6/2 mottles at 32"	48"			.25	
5	4-5%	0-22	SL, gr	Fr, NS, NP, SE						
		22-30	CL, WK SBK	FI, SS, NP, SE						
		30-48	CLAY WK SBK	FI, SS, SP, SE	7.5YR 6/2 mottles at 30"	48"			.25	
6	4-5%	0-2	SL, gr	Fr, NS, NP, SE						
		2-10	S CL, SBK	FI, SS, NP, SE						
		10-48	CLAY WK SBK	FI, SS, SP, SE	7.5 YR 6/2 mottles at 27"				.25	

Description	Initial System	Repair System	Other Factors (.1946): Site Classification (.1948): <u>PS</u> Evaluated By: <u>RL</u> Others Present:
Available Space (.1945)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
System Type(s)	<u>2.5 %</u>	<u>2.5 %</u>	
Site LTAR	<u>.25</u>	<u>.25</u>	

COMMENTS: _____

LANDSCAPE POSITIONS	GROUP	TEXTURES	.1955 LTAR	CONSISTENCE MOIST	WET
R-RIDGE	I	S-SAND LS-LOAMY SAND	1.2 - 0.8	VFR-VERY FRIABLE FR-FRIABLE	NS-NON-STICKY SS-SLIGHTLY STICKY
S-SHOULDER SLOPE	II	SL-SANDY LOAM L-LOAM	0.8 - 0.6	FI-FIRM VFI-VERY FIRM EFI-EXTREMELY FIRM	S-STICKY VS-VERY STICKY
L-LINEAR SLOPE	III	SI-SILT SIL-SILT LOAM CL-CLAY LOAM SCL-SANDY CLAY LOAM	0.6 - 0.3		NP-NON-PLASTIC SP-SLIGHTLY STICKY
FS-FOOT SLOPE	IV	SIC-SILTY CLAY C-CLAY SC-SANDY CLAY	0.4 - 0.1		P-PLASTIC VP-VERY PLASTIC
N-NOSE SLOPE					
H-HEAD SLOPE					
CC-CONCLAVE SLOPE					
CV-CONVEX SLOPE					
T-TERRACE					
FP-FLOOD PLAN					

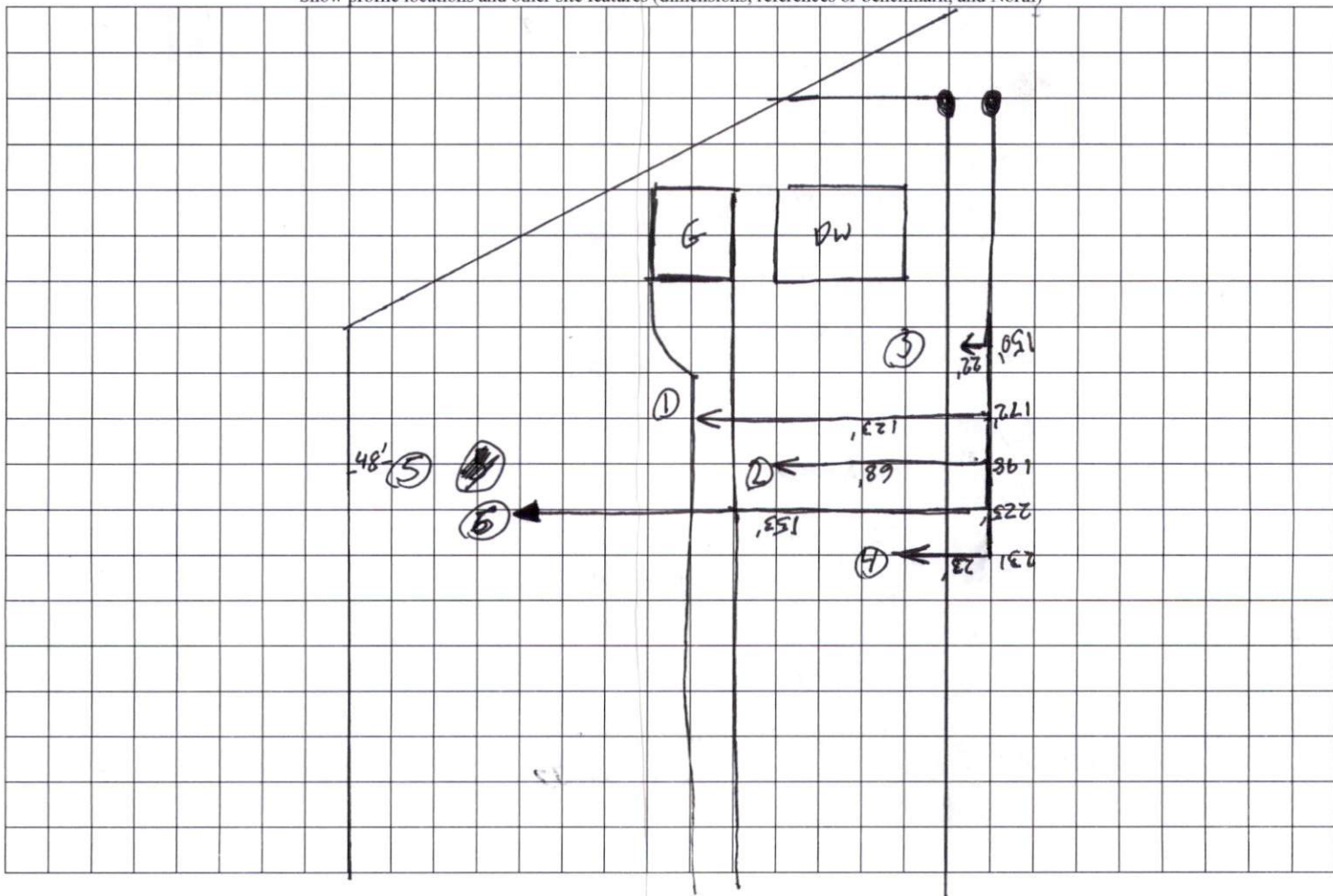
STRUCTURE

- SG-SINGLE GRAIN
- M- MASSIVE
- CR-CRUMB
- GR-GRANULAR
- SBK-SUBANGULAR BLOCKY
- ABK-ANGULAR BLOCKY
- PL-PLATY
- PR-PRISMATIC

MINERALOGY

- SLIGHTLY EXPANSIVE
- EXPANSIVE

Show profile locations and other site features (dimensions, references or benchmark, and North)



**Plot Plan Only
NOT A Survey**

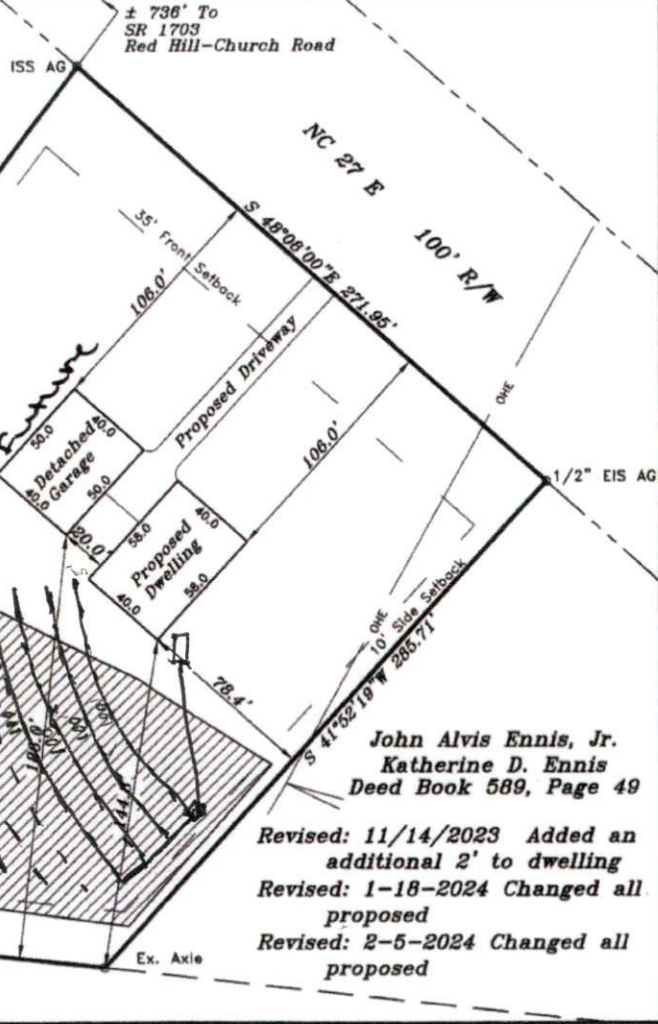


②

Jonathan Todd Ennis
Deed Book 1346, Page 770
Map Number 2023-442

Handwritten:
2.54 - Red
1 - Red
2.142 Ac!

Approximate
Suitable soils
per soil scientist

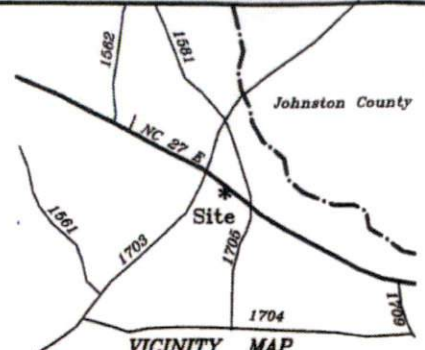


John Alvis Ennis, Jr.
Katherine D. Ennis
Deed Book 589, Page 49

Revised: 11/14/2023 Added an additional 2' to dwelling
Revised: 1-18-2024 Changed all proposed
Revised: 2-5-2024 Changed all proposed

Jennifer S. Silmon
Thomas Silmon
DB 3791, PG 448
Map # 2020-64

James Douglas West
Deed Book 949, Page 810



VICINITY MAP

8618 NC 27 E. Coats, NC 27521
Deed Book 4210, Page 1661
Map Number 2023-442
PIN: 1519-99-5677

Owned by and Plot Plan for:
**Jennifer Ennis Keller
Ian A. Keller**
98 Robert Branch Circle
Fuquay Varina, NC 27626 919-552-2017

Grove Twp., Harnett County

Scale: 1" = 60' Date: 10/25/2023

Surveyed & Mapped By
STANCIL & ASSOCIATES
Professional Land Surveyor, P.A. C-0831
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NOT FOR RECORDATION

CA/PN
LHA-1356/SHG-1579