

# Harnett County Environmental Health

File/Permit Number: Bres2311-0005

## CONSTRUCTION AUTHORIZATION

County: Harnett PIN/Lot Identifier: 1519-99-5677.000 TR#1  
Owner: IAN KELLER Applicant: IAN KELLER  
Property Location: 8618 NC 27 E COATS, NC 27521, SR NC 27 E  
Facility Type: SFD 40' x 50'

Number of bedrooms: 3 Number of Occupants: 6 Other: \_\_\_\_\_  
 New  Expansion  Repair  System Relocation  Change of Use  
Basement?  Yes  No Basement Fixtures?  Yes  No  
Crawl Space?  Yes  No Slab Foundation?  Yes  No  
Type of Wastewater System\* 25% Reduction System (Initial) 25% Reduction System (Repair)

\*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII  
Design Daily Flow: 360 GPD Wastewater Strength:  Domestic  High Strength  Industrial Process Wastewater  
Rule .0403(e) Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies (S.L. 2013-413 and 2014-120)?  Yes  No  
(if yes, please provide engineering documentation)  
Effluent Standard:  DSE  HSE  NSF/ANSI 40  TS-I  TS-II  RCW  
Type of Water Supply:  Private well  Public well  Shared well  Municipal Supply  Spring  Other: \_\_\_\_\_

### Installation Requirements/Conditions

Septic Tank Size: 1,000 gallons Total Trench/Bed Length: 360 feet Trench/Bed Spacing: 9' feet on center  
Trench/Bed Width: 36" inches LTAR: .25 gpd/ft<sup>2</sup> Usable Depth to LC (Initial)\*: 26" \*Limiting condition  
Soil Cover: 12" inches Slope Corrected Maximum Trench/Bed Depth\*: 14" inches \* Measured on the downhill side of the trench  
Pump Tank Size (if applicable): 1,000 gallons Requires more than one pump?  Yes  No  
Pump Requirements: \_\_\_\_\_ ft. TDH vs. \_\_\_\_\_ GPM Grease Trap Size (if applicable): \_\_\_\_\_ gallons  
Distribution Method:  Serial  D-Box or Parallel  Pressure Manifold(s)  LPP  Other: 4 - 90' Lines  
Artificial Drainage Required: Yes  No  If yes, please specify details: \_\_\_\_\_

### Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)

Multi-party Agreement Required [Rule .0204(g)]:  Yes  No  
Easement, Right-of-Way, or Encroachment Agreement Required [Rule .0204(d)]:  Yes  No  
Declaration of Restrictive Covenants:  Yes  No Pre-Construction Conference Required: Yes  No   
Management Entity Required:  Yes  No Minimum O&M Requirements: \_\_\_\_\_  
Conditions: No Foundation or Gutter Drains to be Directed Towards Septic System

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached site sketch. ***This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes.*** The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of 15A NCAC 18E, or 15A NCAC 18A .1900, as applicable, and to the conditions of this permit.

Authorized Agent's Printed Name: JAMES E. MANHAN Expiration Date: 2-27-29  
Authorized Agent's Signature: [Signature] Date: 2-27-24

**\*See attached site sketch\***

**Adams Soil Consulting  
1676 Mitchell Road  
Angier, NC 27501  
919-414-6761**

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July 18, 2023  
Project #1726

Lester Stancil & Associates,  
Professional Land Surveyors, P.A.  
P.O. Box 730  
98 E. Depot Street  
Angier, NC 27501

RE: Preliminary soil/site evaluation for Lot #1 and #2 of the minor subdivision for Ian A. Keller and Jennifer Ennis Keller located near the corner of NC Hwy 27 and Red Hill Church Road in Harnett County.

Mr. Stancil,

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 "Laws and Rules for Sewage Treatment and Disposal Systems". The suitable soil boundary was sketched onto a preliminary plat supplied by Stancil and Associates, Professional Land Surveyor.

The suitable soils shown on the accompanying soil map are potentially provisionally suitable for an initial and repair septic system for a new single-family home on Lot #1 & #2. The lots contain greater than 15,000 ft<sup>2</sup> of provisionally suitable soils that consist of a sandy clay loam to clay subsoil that can support a daily loading rate of 0.25-0.4 gallons/day/ft<sup>2</sup> for an initial and repair septic system. The areas for the proposed septic fields shall not be impacted by home sites, pools, garages and shall not be mechanically altered from the natural lay of the land.

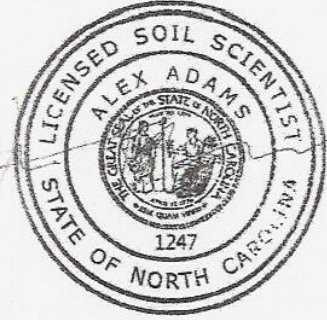
The lots would require a detailed soils evaluation by the Harnett County Health Department prior to issuance of any permits related to any future septic system. A septic system design may be required before a permit can be issued on the above referenced lot demonstrating available space for any septic system. Due to the subjective nature of the permitting process and the variability of naturally occurring soils, Adams Soil Consulting cannot guarantee that areas delineated as suitable for on-site wastewater disposal systems will be permitted by the governing agency. The lots may require a septic system utilizing pumps, shallow or ultra-shallow conventional trench placement, low pressure pipe system, pre-treatment, and/or reductions systems for final approval. The accompanying soil map is preliminary in nature, no further assumptions or subdivision should be made without a more detailed evaluation.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime. Thank you allowing me to perform this site evaluation for you.

Sincerely,



Alex Adams  
NC Licensed Soil Scientist #1247



# Preliminary Soils Evaluation

Lot #1 & #2 - NC Hwy 27

Ian A. Keller and Jennifer Ennis Keller

Harnett County, NC (PIN#: 1519-99-3759)

August 28, 2023

## \*Preliminary Soils Evaluation

\*Soil boundary was sketched onto a preliminary map of the property supplied by surveyor.

\*Not a Survey.

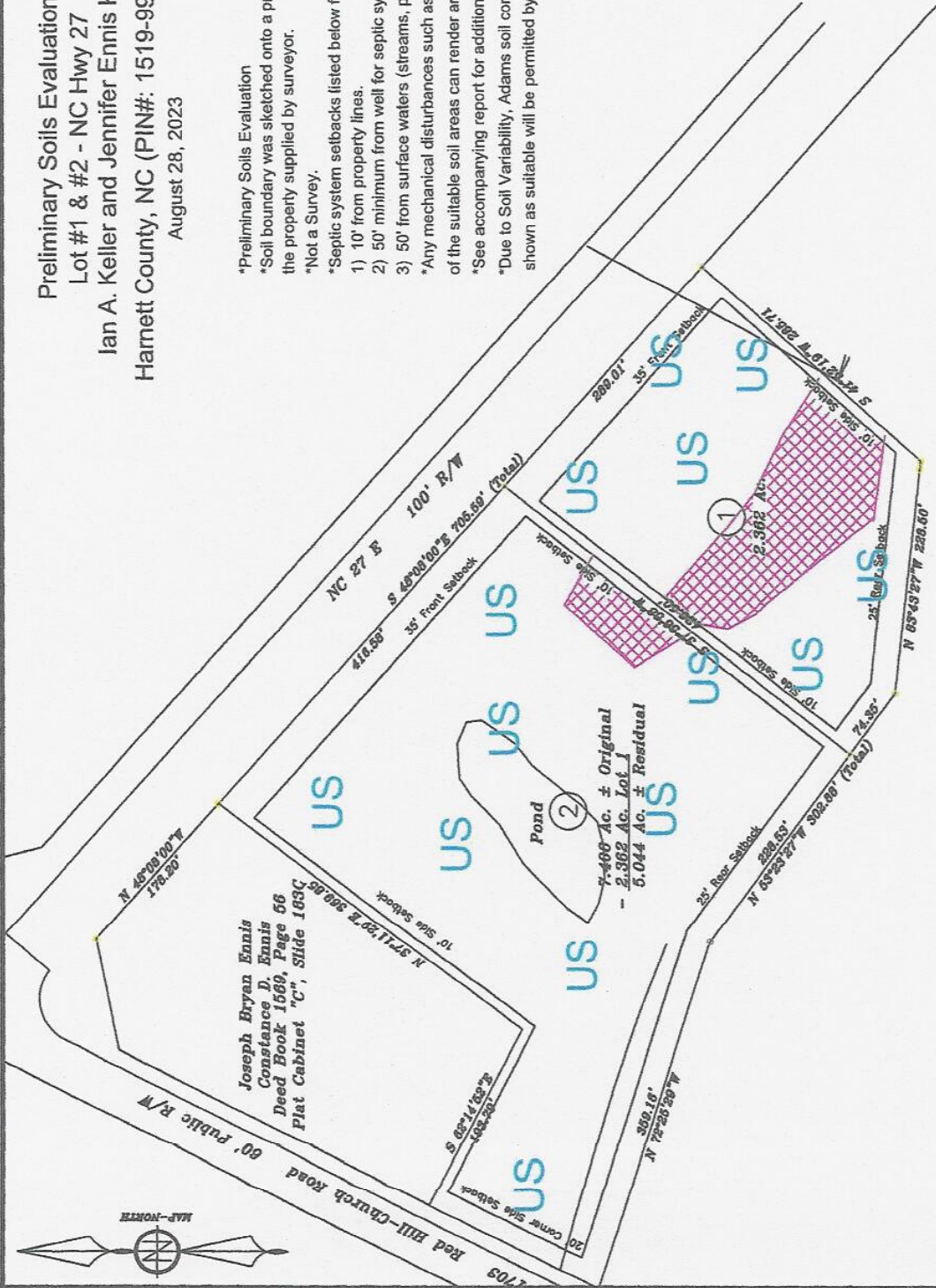
\*Septic system setbacks listed below for new lots.

- 1) 10' from property lines.
- 2) 50' minimum from well for septic systems.
- 3) 50' from surface waters (streams, ponds, lakes).


\*Any mechanical disturbances such as grading, cutting and filling of the suitable soil areas can render areas unsuitable for future septic systems.

\*See accompanying report for additional information.

\*Due to Soil Variability, Adams soil consulting cannot guarantee that the areas shown as suitable will be permitted by the local Health Department.



### Legend

 Areas contain soils with 24 inches or more of useable soil material and have potential for conventional, modified conventional, LPP or ultra-shallow conventional septic systems.

**NE** Areas Not Evaluated

**US** Unsuitable areas for conventional type septic systems.

\*Not a Survey  
(sketched from a preliminary plat)

GRAPHIC SCALE  
1" = 150'



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