

## Harnett County Department of Public Health Improvement Permit

A building permit cannot be issued with only an Improvement Permit

ISSUED TO: Weaver Homes PROPERTY LOCATION: 963 Grameta Ln, Lillington  
 SUBDIVISION \_\_\_\_\_ LOT # \_\_\_\_\_  
 NEW  REPAIR  EXPANSION  Site Improvements required prior to Construction Authorization Issuance: \_\_\_\_\_  
 Type of Structure: SFR  
 Proposed Wastewater System Type: 25% reduction  
 Projected Daily Flow: 360 GPD  
 Number of bedrooms: 3 Number of Occupants: 6 max  
 Basement  Yes  No  
 Pump Required:  Yes  No  May be required based on final location and elevations of facilities  
 Type of Water Supply:  Community  Public  Well Distance from well \_\_\_\_\_ feet Permit valid for:  Five years  
 No expiration  
 Permit conditions: LSS provided Ksat work for the lot, and as I can not verify the findings, the system shall be installed as shown in his paperwork and drawing

Authorized State Agent: *M. A. REHU* Date: 01-12-2021 SEE ATTACHED SITE SKETCH  
 The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit.

## Construction Authorization (Required for Building Permit)

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by references into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

ISSUED TO: Weaver Homes PROPERTY LOCATION: 963 Grameta Ln, Lillington  
 SUBDIVISION \_\_\_\_\_ LOT # \_\_\_\_\_  
 Facility Type: SFR  New  Expansion  Repair  
 Basement?  Yes  No Basement Fixtures?  Yes  No  
 Type of Wastewater System\*\* 25% reduction (Initial) Wastewater Flow: 360 GPD  
 (See note below, if applicable  25% reduction (Repair)  
 Installation Requirements/Conditions  
 Septic Tank Size 1000 gallons Number of trenches 1  
 Pump Tank Size \_\_\_\_\_ gallons Exact length of each trench 225 feet Trench Spacing: 9 Feet on Center  
 Trenches shall be installed on contour at a Soil Cover: 6 inches  
 Maximum Trench Depth of: 18 inches (Maximum soil cover shall not exceed  
 (Trench bottoms shall be level to +/-1/4" 36" above the trench bottom)  
 in all directions)  
 Pump Requirements: \_\_\_\_\_ ft. TDH vs. \_\_\_\_\_ GPM \_\_\_\_\_ inches below pipe  
 Aggregate Depth: \_\_\_\_\_ inches above pipe  
 Conditions: Install system as shown in drawing by LSS 12 inches total

**WATER LINES (INCLUDING IRRIGATION) MUST BE 10FT. FROM ANY PART OF SEPTIC SYSTEM OR REPAIR AREA.  
 NO UTILITIES ALLOWED IN INITIAL OR REPAIR DRAIN FIELD AREA.**

**\*\*If applicable: I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.**

Owner/Legal Representative Signature: \_\_\_\_\_ Date: \_\_\_\_\_

This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be transferred when there is a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. SEE ATTACHED SITE SKETCH

Authorized State Agent: *M. A. REHU* Date: 01-12-2021  
 Construction Authorization Expiration Date: 01-12-2026

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: LOCKMAN Y

LOT 1

INITIAL SYSTEM: APPROVED 25% REDUCTION

REPAIR APPROVED 25% REDUCTION

DISTRIBUTION: SERIAL

DISTRIBUTION D-BOX

BENCHMARK: 100.0

LOCATION RIGHT REAR CORNER

NO. BEDROOMS: 3

LTAR 0.4 GPD/FT<sup>2</sup> (INITIAL)  
0.35 GPD/FT<sup>2</sup> (REPAIR)  
LENGTH

LINE	FLAG COLOR	ELEVATION	
1	P	105.42	75'
2	W	105.60	75'
3	Y	104.50	75'
4	P	103.58	75'
			<u>300' AVAILABLE</u>
5	W	103.00	70'
6	B	102.25	70'
7	P	101.25	50'
8	W	100.58	35'
			<u>225'</u>

In.ital  
system

BY M EAKER

DATE 01/6/21

TYPICAL PROFILE (INITIAL)

\* THERE SHALL BE NO GRADING,

0-10 US (VF, us)

CUTTING, LOGGING OR OTHER SOIL

10-36+ SCL (F, shc)

DISTURBANCE IN SEPTIC AREA

or 2 > 36"

HEALTH DEPARTMENT USE ONLY.

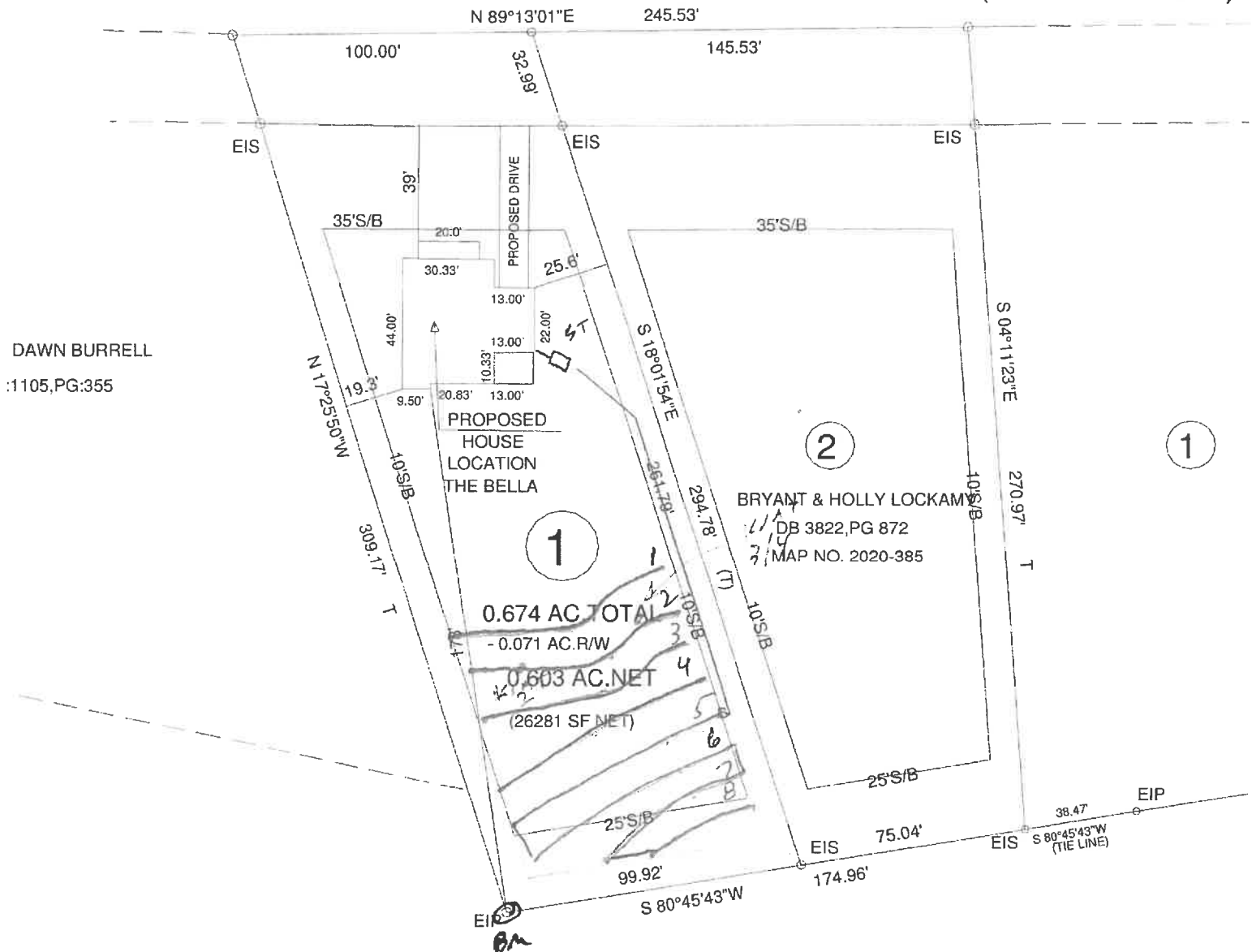
INSTALL AT 18" (INITIAL)

DESIGNS DO NOT GURANTEE FUNCTIONALITY

INITIAL REPAIR AT 36" (CR2 > 50")

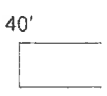
SOUTHEASTERN SOIL  
 PROPOSED SEPTIC LAYOUT

NCSR 1235 (GRAMETA LN.)



DAWN BURRELL  
 :1105, PG:355

RODRIGO PEREZ  
 KARLA PONCE  
 DB:3647, PG:200



1" = 50'

# Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321  
Fayetteville, NC 28311  
Phone/Fax (910) 822-4540  
Email mike@southeasternsoil.com

January 7, 2021

Harnett County Environmental Health  
307 Cornelius Harnett Blvd.  
Lillington, NC 27546

Re: Hydraulic conductivity (Ksat) analysis for subsurface waste disposal (repair system), Lot 1, Lockamy Subdivision, Grameta Lane, Harnett County, North Carolina

To whom it may concern,

An evaluation of soil and hydraulic conductivity (Ksat) has been conducted on the aforementioned property. The purpose of the investigation was to determine soil absorption rates (BC horizon) for a proposed repair septic system to serve a proposed 3-bedroom single family residence (see attached design). All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

Three compact constant head permeameter (CCHP) measurements were made to determine Ksat rates at depths of 30, 40 and 48 inches. The slowest Ksat measurement was 0.53 cm/hr. This equates to 3.12 gpd/sq.ft. Using 10% of this average (typical for systems without pretreatment), Ksat measurement equates to 0.312 gpd/sq.ft. (other rates were higher).

Our repair system is based on a proposed 0.30 gpd/sq. ft. which is less than 10 percent of the measured rate. Based on these measurements, the tested soil should allow for sufficient drainage from the proposed repair septic system.

Sincerely,



Mike Eaker  
President



# Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321  
Fayetteville, NC 28311  
Phone/Fax (910) 822-4540  
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## Measured Ksat Rates, Lockamy Subdivision, Lot 1, Grameta Lane, Harnett County, NC

<u>Location</u>	<u>Depth (in)</u>	<u>Ksat cm/hr</u>	<u>Ksat in/hr</u>
2	40	0.63	3.71
3	30	0.60	3.53
4	48	0.53	3.12