

D. ALLEN HUGHES
ENGINEERING, Inc.

1669 Jimmie Kerr Rd., Haw River, NC 27258
336-516-8634, Firm No. C-2951

October 28, 2024

Clayton Homes
1921 Keller Andrews Rd.
Sanford, NC 27330

Attention: Mr. Stephen Wheeler

Reference: Subgrade Test, 3rd Party Observation, Footing Projection for Foundation Walls and Piers, Sill Plates
30 Corner Ln., Cameron, NC 28326
Project No. D24mh189, Harnett County Permit No. BRES2406-0046

Dear Mr. Wheeler:

The site was visited October 26, 2024 to test, observe, measure and evaluate the subgrade, footing dimensions, footing projection and sill plate anchors at the foundation walls and interior piers of the proposed approximate 32 ft. by 76 ft. modular home. At the time of our visit, the footings, foundation walls and masonry piers including sill plates and pier caps had been constructed and the home set. The Foundation Plan is by Clayton Home Building Group, 20/30 PSF foundation, dated 7/1/2019.

The subgrade was tested with a Static Cone Penetrometer (SCP) test adjacent to the bottom of the footings at the (4) sides of the house and a representative number of pier footings. Testing indicated adequate bearing capacity. No porch footings outside the house footprint had been dug at the time of our site visit.

The 8-in. masonry foundation walls consisted of 2 courses of 4-in. block and 4-in. brick bonded with Ladder Wire. The interior masonry piers were constructed 16 in. by 16 in. Both sides of the (4) foundation walls and all sides of the interior piers were probed and found to have adequate footing projection ranging from about 4 in. to 12 in. A double 2x8 sill plate was used and was anchored to the foundation wall with 24 sill plate anchors on the front side, 10 anchors on the left side, 23 anchors on the back side and 8 anchors on the right side. The anchor bolts and sill plates had been properly installed throughout.

Based on testing, measuring, observation and probing at 30 Corner Ln., Cameron, NC 28326, the subgrade is adequate to support the proposed loads (2,000 psf) of the home, the footings have adequate projection at the foundation walls, interior piers and porch, and meet or exceed the foundation plan and have been built in accordance with the NC Residential Code, 2018. If you should have any questions pertaining to this report, please call.

Sincerely,



D. Allen Hughes
October 28, 2024

D. Allen Hughes, P.E., President
D. Allen Hughes Engineering, Inc.

DESIGN PROFESSIONAL INSPECTION FORM

RECORD OF THE INSPECTION OF A **COMPONENT OR ELEMENT** BY A NC LICENSED ARCHITECT OR ENGINEER

Project Information:

Residential Single-Family Project: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Commercial Project: Y <input checked="" type="checkbox"/> N
Code Enforcement Project No:	Permit No:
Project Name: D24mh189, Subgrade Test, 3rd Party Observation, Footing Projection for Foundation Walls and Piers, Sill Plates	Owner:
Project Address: 30 Corner Ln., Cameron, NC 28326	Suite No:
Date Inspected: October 26, 2024	Contractor Name: Clayton Homes
Component Inspected: Subgrade Test, 3rd Party Observation, Footing Projection for Foundation Walls and Piers, Sill Plates	

Responsible Licensed NC Architect or NC Engineer

Name:	D. Allen Hughes, PE		
Firm Name:	D. Allen Hughes Engineering, Inc., NC Firm No. C-2951		
Phone Numbers:	Office:	Mobile: 336-516-8634	
Email Address:	ncmodengineers@gmail.com		
Mailing Address:	1669 Jimmie Kerr Rd., Haw River, NC 27258		

APPLICABLE CODE: 2018 NC RESIDENTIAL CODE

2018 NCBC = 2018 NC Building Code; 2018 NCRC = 2018 NC Residential Code

Describe Element/Component/Type of Inspection: *

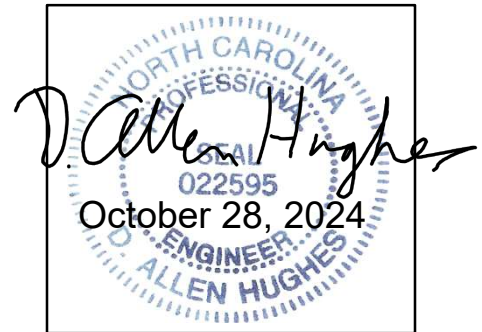
3rd Party Observation, Footing Projection for Foundation Walls, Water Proofing, (2) Back Porches

*(subgrade form/letter may also be required)

Attestation/Signature: By signing below, I certify that the component and/or element of the building as identified on this form has been inspected by me or someone under my direct supervision per subsection (b2) of NC G.S. 153A-352 and is in compliance with the approved plans & specifications for the project. This inspection is in compliance with all of the requirements of the above referenced code. Attach any additional documents if needed.

D. Allen Hughes, PE

Licensed Architect or Engineer



Inspection Department disclaimer: Upon the receipt of a signed written document as required under subsection (a) of Article 160A-413.5., Code Enforcement shall be discharged and released from any liabilities, duties and responsibilities imposed by this article or in common law from any claim arising out of or attributed to the component or element in the construction of the building for which the signed written document was submitted. Be aware that this inspection will be noted in all inspection records including the Certificate of Occupancy or Certificate of Compliance. This inspection does not address any local ordinances or zoning requirements.