



ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY

3008 ANDERSON DRIVE, SUITE 102

RALEIGH, NC 27609

(919) 781-7798

October 3, 2024

Mr. Timothy Boatwright
509 Auburndale Ln.
Fayetteville, NC 28314

RE: Footing Observations
Front Deck-Boatwright Residence
55 King Soloman Ln.
Cameran, NC

Dear Mr. Boatwright:

On September 28, 2024, I observed the framing for the front deck at the above referenced site. The observations were compared to the Harnett County deficiencies noted for the September 10, 2024, inspection.

1. The 2X6 handrail for the steps was replaced with a 2X4 handrail.
2. The string bearing has been corrected and has a bearing of at least 3.5 inches.
3. The step height has been corrected and the height of all steps is equal.
4. Flashing has been properly installed.
5. Missing collar and rafter ties have been installed.
6. Roofing sheathing edges are supported with 2X4's connected to the rafters.
7. The band around three sides of the deck consist of three (3) 2x10's. The first 2X10 is connected to the post with two (2) through bolts (1/2" diameter). The remaining 2X10's are connected to the post with at least two (2)-8" long Simpson Strong-Tie screws. Also, two (2) rows of 4" long Simpson Strong-Tie screws were installed on 16" centers horizontally along the band with the screws at least 2" from the band edge. The connections will provide proper support for the floor joists.

8. The screws were removed and replaced with 10d nails at the brackets.
9. The rafters and roof are supported on a 6X6 post with three (3) 2X6's laid flat on top of the post. Based on a roof load of 30 psf, the shear and bending moments developed in the post are less than the allowable shear and moments for this post, and the post will provide suitable support for the roof.

We appreciate serving you on this project. Please contact us if you have any questions or concerns.

Sincerely,


T. Patrick Shillington, P. E.
President

