



HAYES STRUCTURAL
Consulting & Design, PLLC

NC FIRM LICENSE NO.: P-2854
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Date: October 10, 2024

To: Tyler Appel
Drees Homes
8521 Six Forks Road, Suite 500
Raleigh, NC 27615

Re: 24-FTG-154.1
Structural Analysis
Lot 60 Tobacco Road
19 Grading Stick Court
Angier, NC 27501
Permit No.: SFD2408-0117

Mr. Appel:

At the footing contractor's request, the plans were reviewed for the above referenced single family residence under construction to address the pier footings excavated in the wrong locations.

Observations:

You indicated five of the six footings for the piers supporting the second girder from the rear were excavated in the wrong location. Only the footing for the first pier from the left end of the girder was excavated in the correct location.

Analysis and Recommendation:

Since the footings were over-excavated and backfilled with washed stone, it will be difficult to add onto the existing footings and/or excavate new footings at their plan specified locations. Instead, I recommend constructing the piers within the center one-third of the footings as currently placed. In lieu of the plan specified (3) 2x10 dropped girders, (3) 1 $\frac{3}{4}$ "x9 $\frac{1}{4}$ " LVL dropped girders are required extending from the right foundation wall to the fourth pier from the right side. See the plan snippet on Page 2 for additional information. This prescribed configuration will provide the required support for all imposed loads.

Please call me if you have any questions.

Respectfully submitted,

Zachary H. Hayes, PE
Owner/Structural Engineer
Hayes Structural Consulting & Design, PLLC



Digitally signed
by Zachary H.
Hayes, PE
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