



# HAYES STRUCTURAL

Consulting & Design, PLLC

NC FIRM LICENSE NO.: P-2854  
1991 EDDIE HOWARD ROAD | WILLOW SPRING, NC 27592  
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**Date:** October 29, 2024

**To:** Garrett Scott  
Drees Homes  
8521 Six Forks Road, Suite 500  
Raleigh, NC 27615

**Re:** 24-FRM-129  
Framing Inspection  
Lot 230 Serenity  
72 Charming Court  
Fuquay-Varina, NC 27526  
Permit No.: SFD2408-0046

Mr. Scott:

At your request, a site visit was made to the above referenced single family residence under construction to inspect the sole plate between the garage and foyer noted by the inspector to lack full bearing on the foundation.

#### Observations:

The 2x4 sole plate was measured to cantilever over the foundation ranging from +/- 1" to +/- 1/4" from the foundation jog towards the left rear corner of the garage.

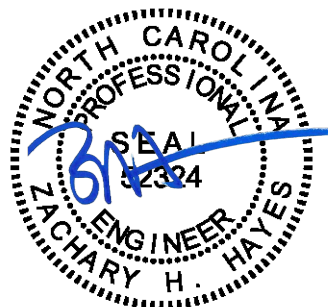
#### Analysis and Recommendations:

Analysis revealed portions of the sole plate cantilevered up to 1/2" over the foundation are adequate and do not require additional support. Support the front end of the cantilevered sill plate with a 5/4x6 or 2x4 pressure treated block installed beneath the first two studs from the foundation jog. Install the blocks tightly between the garage slab and plate and attach the blocks to the foundation with (4) equally spaced 3/16" diameter by 2 3/4" long Tapcon (or equivalent) concrete screws. The cantilevered sole plate supported in the above noted manner 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



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by Zachary H.  
Hayes, PE  
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