



# HAYES STRUCTURAL

Consulting & Design, PLLC

NC FIRM LICENSE NO.: P-2854  
1991 EDDIE HOWARD ROAD | WILLOW SPRING, NC 27592  
ZACH@HAYESSTRUCTURAL.COM | (919) 210-3480

**Date:** April 7, 2025

**To:** Chris Johnson  
Drees Homes  
8521 Six Forks Road, Suite 500  
Raleigh, NC 27615

**Re:** 25-FRM-068  
Framing Inspection  
Lot 180 Serenity  
742 Serenity Walk Parkway  
Fuquay-Varina, NC 27526  
Permit No.: SFD2501-0023

Ms. Johnson:

At your request, a site visit was made to the above referenced single family residence under construction to inspect the damaged roof trusses noted in the private home inspector's report.

## Observations:

1. The first truss from the left gable end above the left rear bedroom on the second floor (labeled "T02") has a cracked bottom chord (labeled "9-10").
2. The fifth and sixth trusses from the left gable end above the left rear bedroom on the first floor (labeled "M03") each have a broken web (labeled "7-11").
3. The first roof truss from the front gable end above the garage (labeled "T04") has a minor crack in the top of the vertical web at the right end (labeled "4-8").

## Analysis and Recommendations:

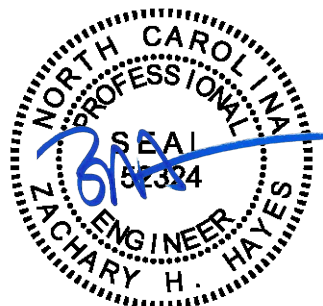
1. Reinforce the cracked bottom chord with a 2x4x4'-0" scab installed on one side centered on the damage and fastened with (2) rows of 10d nails spaced 4" o.c.
2. Reinforce each broken web with a 2x4x8'-0" scab installed on one side centered on the damage and fastened with (2) rows of 10d nails spaced 4" o.c.
3. Reinforce the cracked vertical web with a full-length 2x4 scab installed on one side and fastened with (2) rows of 10d nails spaced 4" o.c.

Scabs are to be SPF #2 or SYP #2 lumber. The damaged roof truss members reinforced in the manners prescribed above 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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