

**Date:** 05/29/2024

**To:** **Kyle Phelps**  
Drees Homes  
7701 Six Forks Road  
Raleigh, NC 27615  
kphelps@dreeshomes.com  
919-268-3205

**Re:** **Damaged Roof Truss**  
Location: Lot 217 Serenity (81 Daybreak Way Fuquay-Varina, NC)  
JDS Project No.: RDU2405531  
Date of Inspection: 05/29/2024

A representative of JDS Consulting arrived on site to observe the issues reported to us by the client, which are presented, along with our recommendations, in this report.

### Observations

The client requested an evaluation of the following items:

1. The T02 gable truss has a crack at the 23-24 bottom chord member and the contractor installed a 4'-0" long 2x6 scab on (1) side of the bottom chord centered at the crack and fastened it with (3) rows of nails spaced 6" o.c.
2. At the 7th roof truss from the right gable (M04 roof truss) above the family room/kitchen the following was observed:
  - a. The contractor replaced the 2-7 diagonal web with a new 2x4 web member and installed a full-length 2x4 scab on both sides of the diagonal fastened with insufficient nails and installed an approximately 4'-0" long 2x4 scab on both sides of the adjacent web members that meet at the ends of the 2-7 diagonal web fastened with insufficient nails, then installed a 24"x24"x7/16" OSB gusset centered on both sides of the ends of the diagonal web and fastened it with (2) nails spaced 4" o.c. into all covered members.
  - b. The contractor replaced an approximately 2'-0" long section of the 2-9 diagonal web member of the truss starting at joint 2 with a 2x4 member and installed a full-length 2x4 scab on both sides of the diagonal web fastened it with (2) nails spaced 6" o.c.

### Recommendations

Based on our on-site evaluation and review:

1. The repair mentioned above is adequate. No further action is required.
2. The contractor shall do the following:
  - a. The repair mentioned above is adequate, however, add (2) 10d nails spaced 6" o.c. at the 2x4 scabbing on all members.
  - b. The repair mentioned above is adequate. No further action is required.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 919-818-8717.

Respectfully Submitted,  
Oreste Montoya



Reviewing Engineer: Uchenna Onwuemene, PE