

Mark E. Jones, PE
Structural Engineering and Design

June 27, 2025

Capital Building and Renovation Inc.
PO Box 1026
Clayton, NC 27520

Ref: Site Observations and Analysis
14652 McDougald Rd.
Sanford, NC 27332
Permit No. SFD2404-0118
Project No: 25-125

To Whom it may concern;

The above referenced site was observed on June 25, 2025 to address the following structural concerns:

1. No truss and truss details and layouts on site.

Based on observations and analysis, the conclusions regarding the structure are:

1. The referenced project is a single family dwelling with manufactured floor and roof trusses installed. No documentation from the manufacturer is available to verify installation details. This inspection was completed with regards to typical installation details of similar projects.

Generally, all floor and roof trusses appear to be installed typical to a manufacturer's specifications. Trusses were spaced uniformly and adequately supported by walls and/or hangers. Supports at point loads appeared to be per plans.

Floor trusses had strongback bracing installed. No floor trusses appeared to be damaged.

The roof truss system had typical components such as full trusses, girder trusses, mono-trusses, hip trusses, valley set trusses, etc. Some typical web bracing was observed but any detailed bracing instructions per the manufacturer were not available. One roof truss in the attic access area off the second floor hall was cut, apparently for HVAC system equipment installation. The bottom chord has been replaced by a 2x10 in the floor system and the top chord had pieces of 2x6 and 2x4 in place, which is ineffective. The builder shall provide 2x4 perpendicular blocking at 24" on center between the adjacent roof truss top chords.

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There were no other damaged roof trusses noted. Some of the roof trusses with high heel cuts did not appear to have wall bracing installed between the trusses as detailed on Sheet D3.0 of the plans, Details 2 and 3.

In summary, all floor and roof trusses appeared to have been installed in a manner that is typical of manufacturer's specifications. Any specific requirements of the manufacturer were not available.

Thank you for this opportunity to assist you. If you have any questions or need any further assistance, please do not hesitate to call.

Respectfully,

Mark E. Jones

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