TYNDALL
ENGINEERING & DESIGN, P.A.

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November 11, 2019
Revised December 11, 2019

Emory Brooks
103 Fieldview Court
Angier, NC 27501

Reference: Engineering Services
103 Fieldview Court
Angier, NC 27501
Project No.: 1901-020637-R

As requested by the client, Tyndall Engineering & Design, PA (TE&D) is providing recommendations for the following item(s):

1) Structurally analyze the existing unpermitted 12' x 12' home addition.

The following conclusions and recommendations were noted:

1) Roof Framing
The existing roof framing consists of 2 x 6 rafters at 16" o.c. and a 2 x 8 ridge. Based on our observations and analysis, the roof framing is adequate to support the anticipated loading conditions.

Ceiling Framing
The existing ceiling framing consists of 2 x 6 ceiling joists at 16" o.c. Based on our observations and analysis, the ceiling framing is adequate as constructed to support the anticipated loading conditions. (Provided the attic space is not used for storage.)

Floor Framing
The existing floor framing consists of 2 x 8 floor joists at 16" o.c. The joists are supported with a (2) 2x10 end beam supported with 6 x 6 posts with full bearing on concrete footings. The joists were supported at the house with a 2 x 10 band fastened to the house framing with through bolts 16" o.c. Based on our observations and analysis, the existing floor framing is adequate to support the anticipated loading conditions.

Upon completion of the repairs recommended above, the new framing members will provide the required support for the anticipated loading conditions. We appreciate the opportunity to assist you during this phase of the project. Should you need further assistance or require additional information please do not hesitate to contact us.

Sincerely,
Tyndall Engineering & Design

Jasmine Paddock
JP | 1901-020637-R
Revised 12-11-19

Prentice A. Tyndall Jr., P.E.

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Roof and ceiling framing

Floor framing