November 8, 2024

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Reference: Engineering Services
1614 McLamb Rd.
Lillington, NC 27546
TE&D Project No.: 2401-020923

To Whom It May Concern;

As requested, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site to observe the following item(s):

1) Inspection of the framing for the accessory storage building.

The following conclusions and recommendations were noted:

1) We observed the accessory structure to be approximately 12’ x 20’ with an 8’ x 20’ porch. The following framing modifications/repairs are to be made:

   A) We observed the front, right, and left stud walls of the accessory structure to extend 16’ high where the walls are not broken by the second floor framing. Based on our observations and analysis, this configuration is inadequate to support the anticipated loading conditions, and the walls are to be reinforced as follows:

      - The front wall is to be reinforced by installing an additional king stud at each end of the door header and new (2) 2 x 8 blocking is to be installed from the door header to the corners of the structure. Additionally, all studs are to be fastened to the gable end studs with 2’ long CS16 strapping installed per the manufacturer’s specifications.

      - The right wall is to be reinforced by installing an additional king stud at each end of the window header and new (2) 2 x 8 blocking is to be installed from the window header to the front corner of the structure and back a minimum of 16” from the window header. Additionally, all studs are to be fastened to the stair stringer with a minimum of (3) SDWS screws.

      - The left wall is adequate as constructed as the wall is laterally braced by the shed roof over the front porch.

   B) No header was installed over the 4’-0” wide front window. A new, minimum (2) 2 x 6 header is to be installed over the window with (2) 2 x 4 jacks and (1) 2 x 4 king stud at each end.

   C) No header was installed over the 2’-0” wide front window. A new, minimum (2) 2 x 6 header is to be installed over the window with (1) 2 x 4 jack and (1) 2 x 4 king stud at each end.

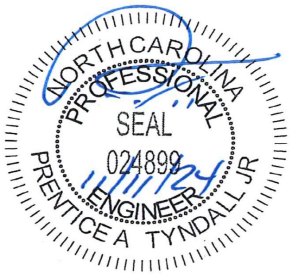
   D) We observed insulation panels installed below the first floor framing preventing visual confirmation of the first floor framing, however based on floor depth and girder location, we can assume the first floor was framed with 2 x 10 joists installed at 16” o.c. spanning a maximum of 11’-4”. This configuration is adequate to support the anticipated loading conditions.

Upon completion, the above-mentioned repairs will provide the required support for the anticipated loading conditions. We appreciate being able to assist you during this phase of the project. If you need further assistance or require additional information, please do not hesitate to contact us.

Sincerely,
Tyndall Engineering & Design

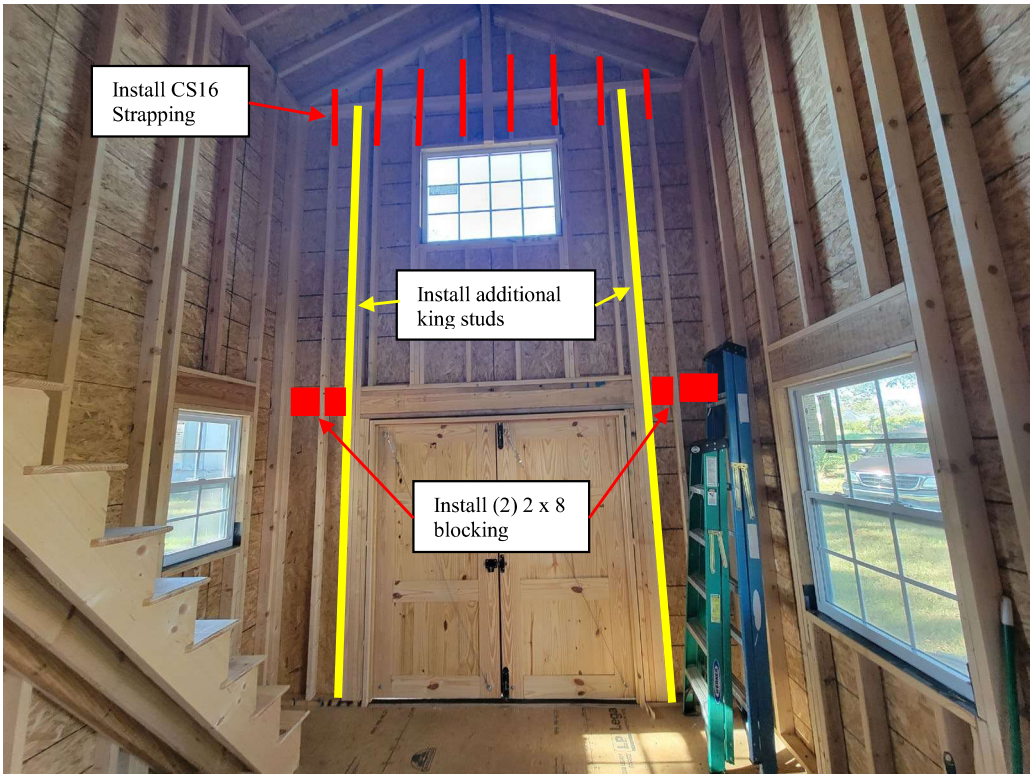
Tripp Amos
BH | 2401-020923

Prentice Tyndall Jr., P.E.

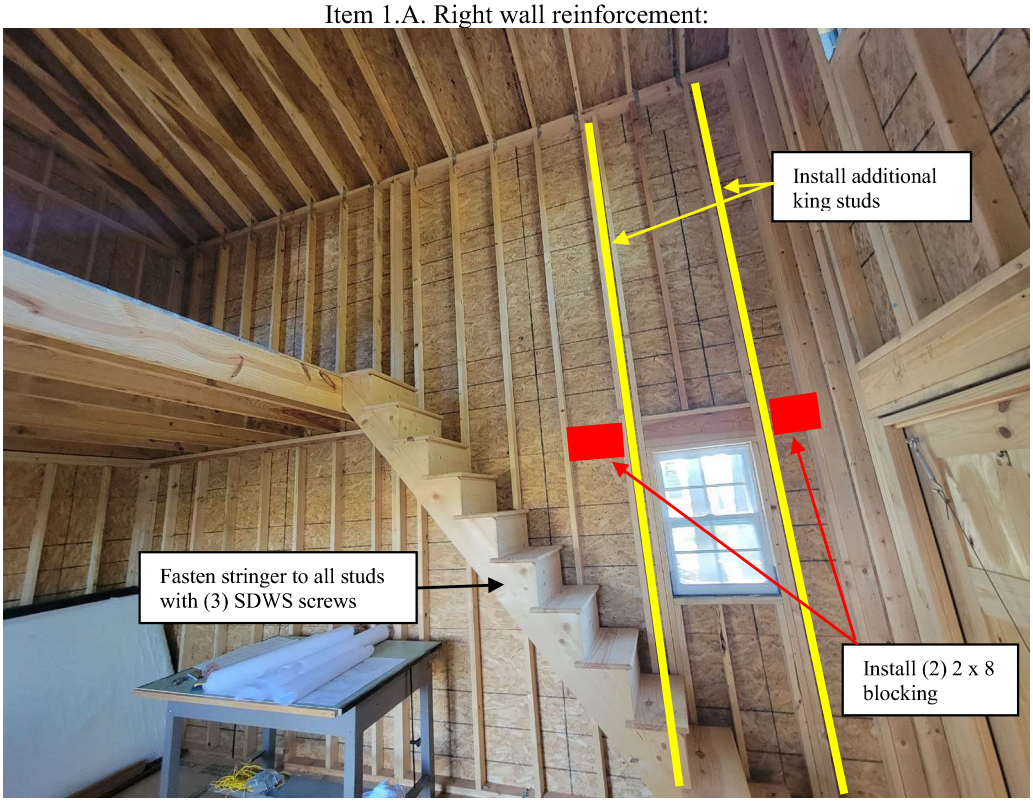


Front of Accessory Building:

Item 1.A. Front wall reinforcement:



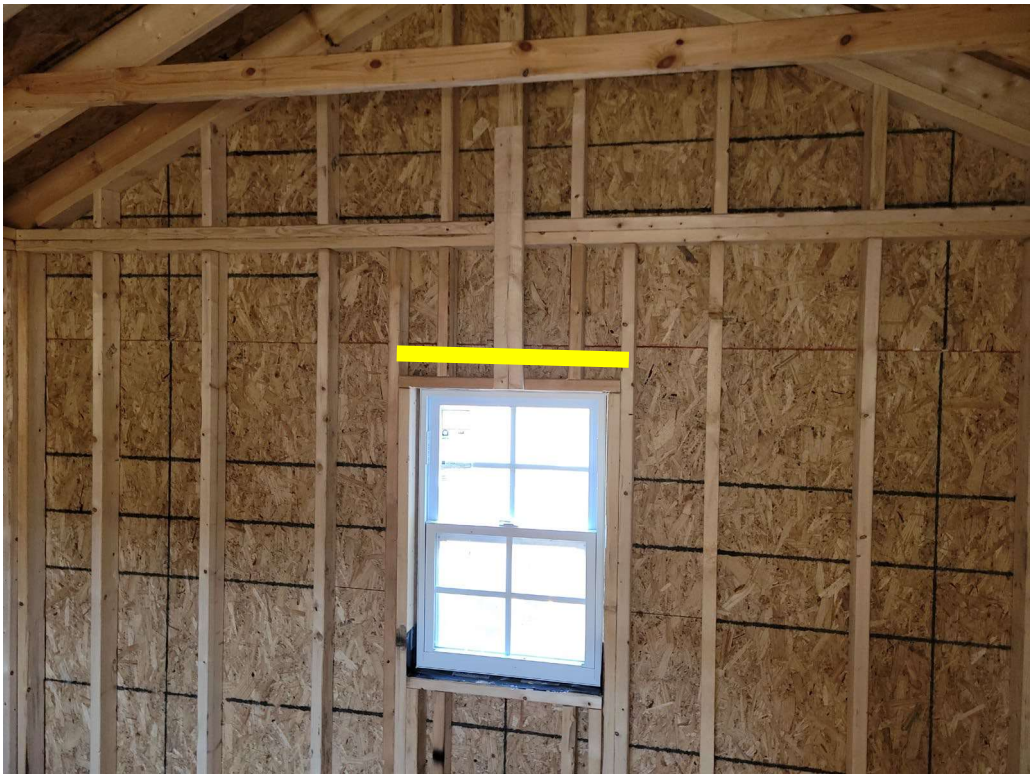
Item 1.A. Right wall reinforcement:



Item 1.A. Left Wall:

Item 1.B. New Header

Item 1.C. New Header:



Item 1.D. Insulation Panels: