



May 15, 2025

Brandon Smith  
Smith Woodworks, Inc.  
1607 Clayhole Road  
Dunn, NC 28334  
Email: [sccbsmith@yahoo.com](mailto:sccbsmith@yahoo.com)

Reference: Engineering Services  
553 Bumpas Crk Acc,  
Dunn, NC 28334  
TE&D Project No.: 2501-020351

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) Proposed opening of the wall dividing the existing kitchen area and the proposed kitchen/eating area.

The following conclusions and recommendations were noted:

- 1) We understand the new opening is to be approximately 18'-7.5" wide. Based on our observations and analysis, the wall to be removed is considered load bearing. The new opening is to be framed with (1) of the following options:
  - a. A (3) 1-3/4" x 22" LVL beam supported by (4) 2 x 4 jack studs and (4) 2 x 4 king studs at each end;
  - b. A (4) 1-3/4" x 20" LVL beam supported by (5) 2 x 4 jack studs and (4) 2 x 4 king studs at each end;
  - c. A W 14 x 26 steel beam supported by (4) 2 x 4 jack studs and (4) 2 x 4 king studs at each end;
  - d. A PL 15-1/2" x 3/4" steel flitch plate. The flitch plate is to be "sandwiched" between full length 1-3/4" x 16" LVL plys and fastened with 5/8" through bolts at 16" o.c. staggered. The new beam is to be supported by (4) 2 x 4 jack studs and (4) 2 x 4 king studs at each end;
  - e. (2) PL 13-1/2" x 5/8" steel flitch plates. The flitch plates are to be "sandwiched" between full length 1-3/4" x 14" LVL plys and fastened with 5/8" through bolts at 16" o.c. staggered. The new beam is to be supported by (5) 2 x 4 jack studs and (4) 2 x 4 king studs at each end.

Stud columns are to be blocked solid to the existing foundation wall. In lieu of stud columns, a 3" diameter, schedule 40 steel pipe may be installed. Additionally, the continuous footing is to be supplemented per the attached detail on Page 3 of this letter.



**TYNDALL**  
ENGINEERING & DESIGN, P.A.

T 919 773-1200 • F 919 773-9658  
250 Shipwash Drive, Suite 104 • Garner • North Carolina • 27529  
www.tyndallengineering.com

Upon completion of the above recommendations, the newly framed opening 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

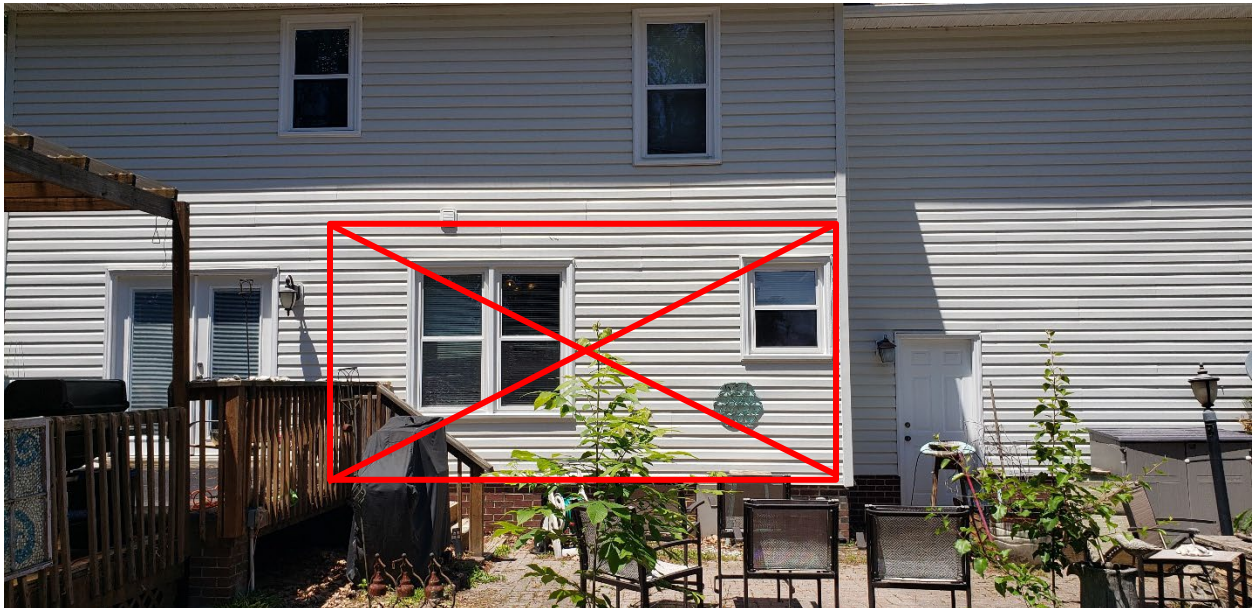
Tripp Amos  
RS | 2501-020351

Prentice Tyndall Jr., P.E.





Front of Residence



Wall to be Removed

