HAYES STRUCTURAL
Consulting & Design, PLLC

NC FIRM LICENSE NO.: P-2854
1991 EDDIE HOWARD ROAD | WILLOW SPRING, NC 27592
ZACH@HAYESSTRUCTURAL.COM | (919) 210-3480

Date: February 25, 2025

To: Scott Rhodes
Scott Rhodes Building, Inc.

Re: 23-KAHD-002.1.1
Brick Veneer Support
Fleming Residence
354 Pointer Creek Drive
Angier, NC 27501

Mr. Rhodes:

At your request, the structural plans were reviewed to address the support of brick veneer above openings and roof lines. Analysis revealed the following:

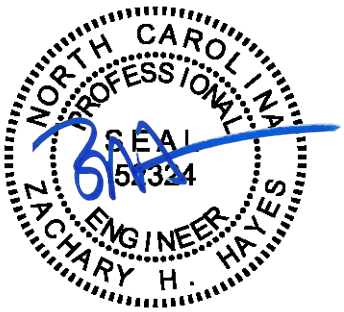
- An L3x3x1/4 steel angle is suitable to support brick veneer above openings up to 6'-0" in width.
- An L5x3½x5/16 steel angle with the long leg placed vertically is suitable to support brick veneer above openings exceeding 6'-0" in width up to 10'-0" in width.
- An L6x4x5/16 steel angle with the long leg placed vertically is to be installed to support brick veneer above openings exceeding 10'-0" in width. L6x4x5/16 steel angles above openings exceeding 10'-0" in width are to be fastened to the adjacent header with (2) rows of ½" diameter by 4" long lag screws spaced 16" o.c.
- An L6x4x5/16 steel angle with the long leg placed vertically is to be installed to support brick veneer above roof lines. L6x4x5/16 angles above roof lines are to be fastened to each gable wall stud (16" o.c. maximum spacing) with (2) ½" diameter by 4" long lag screws. For slopes exceeding 7:12, weld 3"x3"x1/4" steel stops spaced 24" o.c. to the angle. Refer to section R703.8.2.1 of the 2018 North Carolina Residential Code for additional information.

Steel angles above openings shall be embedded a minimum of 4" into the brick veneer at each side of the opening. Steel angles installed in the manners noted above will provide the required support for the loading imposed by the brick veneer.

Please call me if you have any questions.

Respectfully submitted,

Zachary H. Hayes, PE
Owner/Structural Engineer
Hayes Structural Consulting & Design, PLLC



Digitally signed by Zachary H. Hayes, PE
Date: 2025.02.25 18:20:07 -05'00'