



J. SMITH STRUCTURAL ENGINEERING, PLLC
N.C. CERTIFICATE NUMBER P-2212

October 16, 2024

Brian Culver
Triangle Home Pros
6312 Lauraca Lane
Fuquay Varina, NC 27526

RE: Rear covered porch framing
54 Timber Rail Lane
Holly Springs, North Carolina

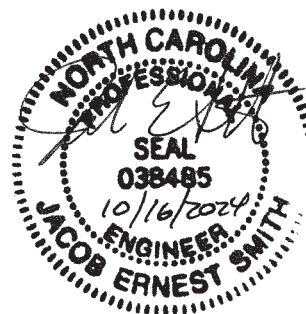
Dear Mr. Culver:

The roof framing over the rear covered porch at the above-referenced address was modified to provide a vaulted ceiling over the porch. You indicated that a truss revision was supplied by the roof truss engineer to remove the roof trusses over the covered porch. The continuous roof trusses that span front to back over the home were cut back at the rear of the family room and reinforced with OSB gusset plates as specified by the truss engineer. Over the covered porch, a (2) ply 1 3/4" x 16" LVL ridge beam was installed with 4 x 4 treated ridge post bearing each end and tied to the ridge posts with (2) 20" CS16 straps each end. 2 x 8 @ 16" o.c. rafters were installed over the porch and the rafters were secured to the ridge beam at the top end with Simpson L50 brackets and secured to bearing wall or supporting beam at the lower end with Simpson H2.5A ties. The support beams at the sides of the porch were framed with (2) 2 x 10 beams per the engineered drawings. At the rear face of the porch, the support beam was increased to a (3) 2 x 10 to support the ridge post and (4) 6 x 6 treated posts were installed at equal spacing per the engineered drawings. The above-described rear covered porch framing is adequate to support all applied loads.

Please call me if you have any questions.

Sincerely,

J. Smith Structural Engineering, PLLC
Jacob E. Smith, P.E.
Owner



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