



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

September 19, 2024

Adam Raynor
Raynor Builders, Inc.
725 N. Raleigh Street
Angier, NC 27501

RE: Pollino Residence
924 Ponchartrain Street
Fuquay-Varina, NC 27526
As-built footings and basement point load location

Dear Mr. Upton:

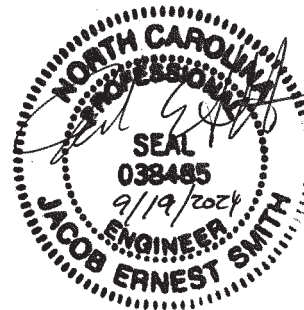
The above-referenced plans were reviewed to address the as-built basement slab foundation and the location of the center stud column supporting the (2) ply 9 1/4" LVL spanning front to back behind the stairway. You provided images and videos of the open footings prior to concrete placement. Review of the plans and open footings revealed the following:

1. A base course of #57 stone was installed 12"-24" thick within the footprint of the basement including the perimeter superior wall footings.
2. All thickened slab and lug footings were installed per the engineered drawings except for the thickened slab below the front stair wall. The only point load along this wall bears on the 36" x 36" x 12" lug footing on the right side of the wall line. No other floor joists, ceiling joists, or rafters bear above this line.
3. The 16" wide x 9" deep thickened slab below the front stair wall may be omitted and the as-built basement slab foundation is adequate to support all applied loads.
4. At the (2) ply 9 1/4" LVL behind the stairway, a plumbing drop interfered with the location of the (5) 2 x 4 stud column at the center bearing point of the continuous beam. The (5) 2 x 4 stud column may be moved to the rear, 4" into the laundry room to clear the plumbing drop without affecting the load carrying capacity of the beam or the lug footing.

Please call me if you have any questions.

Sincerely,

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



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