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October 21, 2025

Mike Badin
Black Sheep Construction, LLC
350 Raleigh Street
Holly Springs, North Carolina 27540

Dear Mr. Badin:

I have reviewed the Badin residence plan being constructed at 164 Horse Path Lane in Holly Springs, North Carolina as well as the pictures you have provided to address new footings installed at each end of the 18' garage door. The pictures include images of footing excavations, reinforcement (where required), and dimensions. The original plan was designed by Triangle Residential Designs Inc. and the engineering was sealed on October 9, 2024. All new construction shall conform to the 2018 North Carolina Residential Code (2018 NCRC), plus all local codes and regulations. All relative directions are noted as if one were facing the front elevation as noted on the architectural drawings. Analysis revealed the following:

As per our conversation and the pictures, an approximately 38" wide by 12" deep concrete footing was installed extending from the front right corner of the garage to approximately 24" beyond the front end of the 18' garage door opening. The footing is reinforced with #4 rebar at 8" o.c. in each direction, with the reinforcement parallel to the opening embedded approximately 6" into the existing footing at the front right corner of the garage using epoxy. Additionally, an approximately 32" wide (minimum) by 12" deep concrete footing was installed extending from approximately 48" in front of the rear end of the 18' garage door opening to the rear right corner of the garage. No additional modifications are required.

The alternate configuration(s) listed above will provide the required support for all applied loads. This document is intended to describe alternate configuration(s) only and is not intended to relieve the Code Enforcement Official of the responsibility to inspect and field verify the alternate configuration(s) conform to this letter and the NCRC. The structural engineer is not responsible for, and will not have control of, construction means, methods, techniques, sequences or procedures, or safety precautions and programs in connection with the construction work.

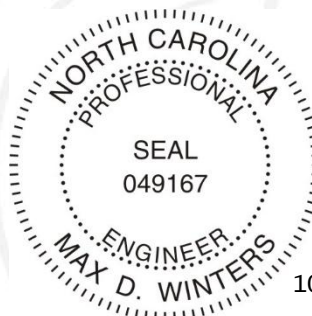
Please call me if you have any questions.

Sincerely,

Spectra Engineering and Design, PLLC

A handwritten signature in black ink that reads 'Max D. Winters'.

Max D. Winters, P.E.



10/21/2025

LICENSE NUMBERS | NORTH CAROLINA: P-0946 | VIRGINIA: 000462

SPECIALIZING IN CUSTOM RESIDENTIAL ENGINEERING/DESIGN | STRUCTURAL DESIGN FOR NEW CONSTRUCTION, ADDITIONS & RENOVATIONS

SITE INSPECTIONS & INVESTIGATIONS | CONSULTATIONS, THIRD PARTY ENGINEERING & PLAN ENGINEERING REVIEW