



July 25, 2023

Mark Santos
5908 River Rd.
Fuquay-Varina, NC 27526
Email: marksantos15@gmail.com

Reference: Engineering Services
5908 River Rd.
Fuquay-Varina, NC 27526
TE&D Project No.: 2301-020722

To Whom It May Concern;

As requested by the client, a representative of Tyndall Engineering & Design, PA (TE&D) was on-site to inspect and observe the following item(s):

- 1) Analysis of the existing soil underlying the existing footing.
- 2) Observe the materials/condition of the existing foundation with regards to the 2018 North Carolina Residential Building Code.

The following conclusions and recommendations were noted:

- 1) The underlying soils were visually observed, qualitatively probed, and subjected to Static Cone Penetrometer (SCP) testing in multiple locations at depths to 2'-0" below existing grade. The existing soils were found to equal or be in excess of the minimum 2000 psf bearing capacity required by the 2018 North Carolina Residential Building Code. Based on our observations, analysis, and the results of our field-testing program, the underlying soils are structurally adequate to support the anticipated loading conditions of the existing footing.
- 2) We visually observed the foundation as consisting of a turned-down monoslab foundation with a 12" concrete footing. The existing foundation was visually observed with regards to the applicable provisions of the 2018 North Carolina Residential Building Code as well as subjected to non-destructive (Schmidt rebound hammer) testing at the surface of the slab. The concrete at the was found to equal or be in excess of the minimum 2500 psi compressive strength required by the 2018 North Carolina Residential Building Code. Based on our observations, analysis, and the results of our field-testing, the existing foundation meets the requirements of the 2018 North Carolina Residential Building Code.

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
BH | 2301-020722

Prentice Tyndall Jr., P.E.



