

PIEDMONT GEOTECHNICAL



1669 Jimmie Kerr Rd., Haw River, NC 27258
336-516-8634, NC Firm No. C-1634

September 14, 2023

Adams Homes
149 US Hwy 70 West
Garner, NC

Attention: Keith Holm 919-333-7583, keith.holm@adamshomes.com, Matt Galvin 919-903-0735,
matt.galvin@adamshomes.com, raleighclosing@adamshomes.com, raleighpermits@adamshomes.com,
bjohnson@adamshomes.com

RE: Engineering - Subgrade Testing at Footing Excavations/Undercut Recommendation
Lot 12 Cameron Woods Subdivision
218 Western Pine Way, Sanford NC
Project No. 23PG-0907-B, Harnett County Permit No. SFD-2305-0120

Dear Mr. Holm,

Thank you for using Piedmont Geotechnical. The site was visited on September 7, 2023 to test the subgrade at the exposed footing excavations for the above referenced home site. The subgrade was tested with a Dynamic Cone Penetrometer (DCP) test in general accordance with (ASTM) special publication 399 to about 2 ft. below the bottom of the footing excavations. The footing excavation bottoms were probed with a steel probe rod for comparison to the test locations.

Testing indicated that the red tan sandy clay was of adequate bearing at the existing excavation bottoms at about 2-3 ft. below the surrounding grade except at the front left, the garage walls (center rear, front right and left) and rear left walls. These areas required 8 in. to 10 in. of additional undercut through the soft soils to bear on the stiff red tan sandy clay in the home area. The excavation bottoms were found to have some perched water conditions in the undercut areas. The soft soils should be undercut to adequate bearing soil about 8-10 inches below the existing footing excavation bottoms and should be filled with 67 washed stone.

Based on testing, observation, probing, and implementation of the recommendations, the subgrade will be adequate to support the proposed loads (2,000 psf) of the home.

Sincerely,


022595
September 14, 2023


D. Allen Hughes, P.E., President
Piedmont Geotechnical, Inc., P.A.