

**Date:** 04/07/2025

**To:** **Dean Burton**  
HHHunt Homes  
11237 Nuckols Rd  
Glen Allen, VA 23059  
cdburton@hhhunthomes.com  
984-352-6961

**Re:** **Soil Suitability for Foundation Installation**  
Location: Lot 49 Magnolia Acres - 619 Magnolia Acres (Fuquay-Varina, NC)  
JDS Project No.: RDU2503416  
Date of Inspection: 04/02/2025  
Foundation Type: Crawl Space  
Additional Features: Rear Deck

#### **Foundation Excavation Observations and Inspection**

A representative of HHHunt Homes scheduled a representative of JDS Consulting (JDS) to observe and inspect the bearing capacity of subgrade materials for excavated foundations. The exposed soils were probed with a small point metal rod and tested with a Dynamic Cone Penetrometer (DCP).

Additionally, JDS observed and inspected foundations that required over-excavation due to unsuitable subgrade materials. The foundations were undercut between 1 to 3 feet to stable and firm subgrade material. Please refer to field reports for additional information.

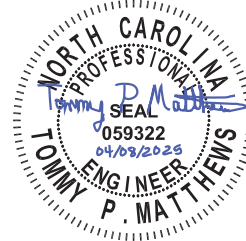
#### **Recommendations**

Based on our review and testing, the soil and conditions for the foundation are suitable for the minimum required bearing pressure of 2000 PSF. Additionally, the over-excavated areas should be backfilled with full-depth concrete.

If you have any questions or if I can be of further assistance to you on this project, please contact me at 919-218-4421.

Respectfully Submitted,  
Samantha Lux  
Field Operations Manager

Reviewing Engineer: Tommy P. Matthews, PE



#### **Project Notes**

This report is an assessment of vertical bearing capacity only. Minimum testing requirements include probe rod testing across the entire excavation and augers (minimum three locations) at multiple depths with Dynamic Cone Penetrometer (DCP) testing. Bearing capacity test results are voided if significant precipitation or water intrusion has occurred before concrete placement. JDS Consulting is not responsible for site conditions that divert water towards the foundation or that prevents drainage away from the foundation, which can lead to soft soils and future settlement problems. It is the contractor's responsibility to ensure that all foundation areas are free of organics, loose material, standing water, and any other deleterious materials prior to placement of stone or concrete. Retaining wall stability nor slope stability analysis has been evaluated. JDS Consulting shall not be held responsible for current or future retaining-wall or slope-related issues.