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Issue Date: 9/4/2018
Review Date: 8/27/2018
Project No: BCH184197



Subject: Soil Suitability for Foundation Installation
Location: Lot 34 Cokesbury Park - 852 Cokesbury Park Lane (Fuquay-Varina, NC)

Observations:

Foundation excavation observation (sub-surface testing with respect to bearing capacity).

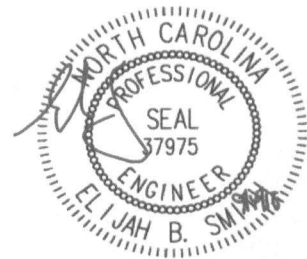
Recommendations:

The exposed soils have been observed and tested for the crawl space footings (Probe & DCP). Based on our review and testing the soils are suitable for the minimum required bearing pressure of 2000 psf. Any over-excavated areas (multiple locations, 2 ft to 3 ft) shall be back-filled with full depth concrete. Ground water was encountered at approximately 12" below garage on the back right corner of the detached garage and at approximately 30" below garage at the front right corner of the attached garage. Additional stabilization or a french drain may be required to divert the water away from the foundation.

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,
Brian Hickey
JDS Consulting & Design, PLLC

Reviewing Engineer: Elijah B. Smith, P.E.



General Notes:

- Mechanical testing methods vary per site but always include probe rod testing across the entire excavation and augers (minimum 3 locations) at multiple depths with Dynamic Cone Penetrometer (DCP) testing.
- Bearing capacity test results are voided if significant precipitation or water intrusion has occurred within 48 hours of the initial testing.
- JDS is not responsible for site conditions that divert water towards the foundation or that prevent drainage away from the foundation that can lead to soft soils and future settlement.
- This report is assessment of vertical bearing capacity only. Unless specifically noted otherwise retaining wall testing, nor slope stability analysis has been evaluated. JDS shall not be held responsible for current or future retaining wall or slope related issues.
- It is the contractors responsibility to ensure that all foundation areas are free of loose material, standing water, and any other deleterious materials prior to placement of stone or concrete.



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**Soil Suitability for Foundation Installation - Field Report - Conditional Approval
Sealed Report Forthcoming**

Client: KB Homes
Date: 8-27-18
Project Number: BC H184197
Location: Lot 34 Cokesbury Park, Fuquay-Varina, NC

Observations:

JDS performed DCP and probe rod testing to verify soil bearing conditions for the areas indicated below:

<input type="checkbox"/>	Basement	<input type="checkbox"/>	Front Porch	Other: _____
<input checked="" type="checkbox"/>	Crawl Space	<input type="checkbox"/>	Rear Porch / Patio	_____
<input type="checkbox"/>	Stem Wall	<input type="checkbox"/>	Deck	_____
<input type="checkbox"/>	Monolithic Slab	<input checked="" type="checkbox"/>	Garage	_____

Results:

Test results indicate the soils are suitable for the minimum required bearing pressure of:

2000 PSF 2500 PSF 3000 PSF

DCP Min: 9
MPRP: ~2"

General Notes:

- Bearing capacity test results are voided if significant precipitation or water intrusion has occurred within 48 hours of the initial testing.
- JDS is not responsible for site conditions that divert water towards the foundation or that prevent drainage away from the foundation that can lead to soft soils and future settlement.
- This report is assessment of vertical bearing capacity only. Unless specifically noted otherwise retaining wall testing, nor slope stability analysis has been evaluated. JDS shall not be held responsible for current or future retaining wall or slope related issues.
- It is the contractors responsibility to ensure that all foundation areas are free of loose material, standing water, and any other deleterious materials prior to placement of stone or concrete.
- Concrete shall not be placed on to frozen ground or in to excavations containing ice or snow

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