



Memorandum

To: Mr. Merv Berkelaar
From: David T. Cunningham, P.E.
Cc: Wes Lowder, P.E.
Date: July 7, 2022
Subject: Building Addition – 415 Field Stone Drive, Holly Springs, NC

This correspondence presents our geotechnical evaluation of backfill soils placed within the new building addition to reach the design grade for the slab-on-grade floor. The backfill soils consist of clayey silt and appear to taper from about 1 to 5 feet deep.

As a basis for evaluation, a hand auger boring (HA-1) with dynamic cone penetration testing was performed to assess the consistency of the backfill soils. The boring was located in the approximate center of the building footprint and terminated in residual soils at a depth of about 3 ½ feet. General subsurface conditions encountered consisted of stiff clayey silt as indicated by penetration resistances of 7 to 11 blows per increment. See attached Hand Auger Boring Record.

Based on our analysis of these findings, it is our opinion that the backfill soils are satisfactory for support of the concrete slab-on-grade floor.

Please contact us with any questions or if you need additional information.



David Cunningham
Jul 7 2022 3:00 PM

DocuSign

Form No. TR-HAPT-01

Revision No. : 0

Revision Date: 6/11/10

HAND AUGER & PENETROMETER TESTING



S&ME, Inc. - Raleigh 3201 Spring Forest Road, Raleigh, NC 27616

Project No.: **2205-06-2022**

Project Name: **New Construction - Building Addition**

Test Date(s): 6/20/2022

Client: Mr. Merc Berkelaar

Project Location: 415 Fieldstone Drive, Holly Springs, North Carolina

Engineer: David Cunningham

Hammer Weight: 15-Lbs.

<i>Stratification</i>			<i>Hammer Blows</i>				
<i>Test Location</i>	<i>Depth</i>	<i>Soil Description</i>	<i>Depth</i>	<i>Increment</i>			<i>Average</i>
	<i>feet</i>		<i>feet</i>	<i>1st</i>	<i>2nd</i>	<i>3rd</i>	
HA-1	0 - 0.25	ABC stone base	FG	8	8	6	7
		FILL: Reddish-orange clayey Silt					
			1	7	8	8	8
			2	7	8	9	8
		Residual soil @ ~3'	3.25	6	11	11	11
		End of Boring at 3.5 feet					