

Takla Engineering, PLLC

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Consulting.
 Design.
 Efficiency.
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Project: Prince Place Lot 10

Location: 53 Royal Ella Court, Fuquay-Varina, NC

Company: Davidson Homes

Care Of: Lee Aversano

Subject: Concrete Slab Fill Compaction Evaluation and 3rd Party Inspection

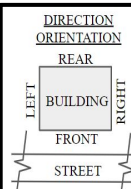
As requested, Alfred Takla, PE visited the above referenced site on January 11th, 2022 to evaluate the preparations for the concrete slab for the main house, garage, front porch, and rear porch to determine if conditions are acceptable for the placement of concrete.

Based on our visual observations as well as probing evaluations with a 1/2" diameter steel rod, we find and verify the following:

- Compacted granular fill material is sufficiently compacted to prevent settlement with a load-bearing capacity of 2000 psf at minimum.
- Subgrade soils for rear porch turndown grade beam are of adequate load-bearing capacity and are of adequate width, depth, and position.
- R10 insulation was installed about thermal envelope of stem wall foundation.
- Locations of all interior lug (thickened) footings for concrete slab are found to be per plans.
- Vapor barrier is correctly placed.
- Prepared concrete slab thickness are adequate (no less than 4").
- All conditions are acceptable to receive concrete.

Based on our observations, measurements, we find all stem wall concrete slab preparations have been completed in accordance with the permitted plans / details approved by municipal permitting department as well as in accordance with Chapter 4 of the 2018 North Carolina Residential Code and is adequate in its current condition, no further actions are required.

Limitations of Inspection: Services provided are in accordance with the standard of practice for structural engineering, the North Carolina Residential Code (2018 edition) and within the limits imposed by scope, schedule and budget. The determinations contained in this report are based on conditions observed at the time of the evaluation. No guarantees or warranties, expressed or implied, under this Agreement or otherwise, shall be construed in connection with services provided. Sequencing, shoring, means and methods of construction are considered beyond the scope of this report. All information used to form decisions and recommendations provided to engineer are taken as truthful. Takla Engineering assumes no responsibility for untruthful statements provided by any party. Lastly, while every effort has been made to ensure accuracy in the preparation of these documents, the maker cannot guarantee against human error nor evaluations of structural elements which are concealed from visual inspection.



DESIGN PROFESSIONAL INSPECTION FORM

RECORD OF THE INSPECTION OF A COMPONENT OR ELEMENT BY A NC LICENSED ARCHITECT OR ENGINEER

Project Information:

Residential Single-Family Project: Y N	Commercial Project: Y N
Code Enforcement Project No:	Permit No: 2111-016
Project Name: Prince Place Lot 10	Owner:
Project Address: 53 Royal Ella Court	Suite No:
Date Inspected: 1/11/2022	Contractor Name: Davidson Homes (Aversano)
Component Inspected: Concrete Slab Fill Compaction Evaluation and 3rd Party Inspection	

Responsible Licensed NC Architect or NC Engineer

Name:	Alfred Takla, PE
Firm Name:	Takla Engineering PLLC
Phone Numbers:	Office: 919-258-2648 Mobile: 919-332-7903
Email Address:	alfredtakla@taklaengr.com
Mailing Address:	PO Box 71298 Durham NC 27722

APPLICABLE CODE: 2018 NCRC

2018 NCBC = 2018 NC Building Code; 2018 NCRC = 2018 NC Residential Code

Describe Element/Component/Type of Inspection: *

Concrete Slab Fill Compaction Evaluation and 3rd Party Inspection

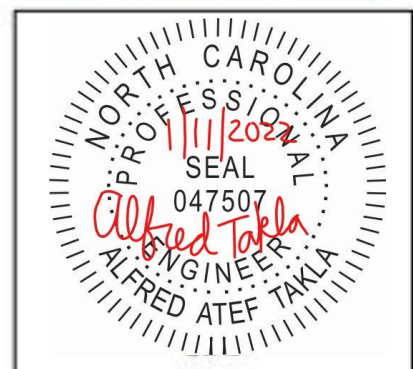
*(subgrade form/letter may also be required)

Attestation/Signature:

By signing below, I certify that the component and/or element of the building as identified on this form has been inspected by me or someone under my direct supervision per NC G.S. 160A – 413.5 and is in compliance with the approved plans & specifications for the project. This inspection is in compliance with all of the requirements of the above referenced code.
Attach any additional documents if needed.

Alfred Takla PE

Licensed Architect or Engineer



Inspection Department disclaimer:

Upon the receipt of a signed written document as required under subsection (a) of Article 160A-413.5., Code Enforcement shall be discharged and released from any liabilities, duties and responsibilities imposed by this article or in common law from any claim arising out of or attributed to the component or element in the construction of the building for which the signed written document was submitted. Be aware that this inspection will be noted in all inspection records including the Certificate of Occupancy or Certificate of Compliance. This inspection does not address any local ordinances or zoning requirements.