

April 26, 2023

Brooks O'Quinn Additional Storage 5630 Spring Hill Church Rd. Lillington, NC 27546

Subject: Concrete Slab for Metal Framed Storage Units

Mr. O'Quinn,

At your request, I reviewed the plans and the storage units being constructed at the subject address. Specifically, I reviewed the concrete slab, metal frame building, and the metal frame support system.

Based on my review and analysis, each concrete slab is approximately 120 ft long by 20 ft wide and consists of a 4 to 5-inch thick section of fiber reinforced concrete. The metal frame building is constructed of metal studs, with a metal frame header over each of the 9 ft roll up doors. Based on the layout of the structure and framing, the maximum point load at any location on the concrete slab is approximately 750 lbs (design load). Based on that minimum load, the 4-inch slab is structurally adequate to support the loads of the metal structure as constructed.

In summary, based on my review and analysis, the concrete slabs of both units are adequate to support the loads from the metal framed storage units. The above analysis is in accordance with the 2018 NC Building Codes.

If you need additional information or have other questions, please let me know.

Sincerely,

Randy K. Wise, PE

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 I	Project: Y N	Commercial Project: (Y) N
Code Enforcement Project No:		Permit No:
Project Name: ADDITIONAL STORAGE		Owner: BROOKS O'RILLA
Project Address:		Suite No.
5630 SEZIMB HILL CA	WACH RO LUMBE	3011C NO.
Date Inspected: 4/2	4/2023	Contractor Name:
Component Inspected:	CONCRETA	SLAB(S)
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esponsible Licensed N o Name:	RANAY W	·
Firm Name:		HINEERING
Phone Numbers:	Office:	Mobile: 919 754-7907
Email Address:	rand. Q	wise-engineer, com
Mailing Address:		
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FOR METAL FROM	AMED STORAGE	ection: * CONCRETE SLARS E FACILITY, SEE ATTACHED LETTER
*(subgrade form/letter may	v also be required)	
	y also be required)	
Attestation/Signature:		
has been inspected by me	or someone under my	and/or element of the building as identified on this for y direct supervision per subsection (b2) of NC G.S. 153
		quirements of the above referenced
Code. Attach any addition	nal documents if nee	ded.
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		er proposal of the architect or engineer for the project quirements of the above referenced ded. CARO SEA 19860 70 43
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RANDY K. WISE,	PE Your	SEAL 19860 70 9 3
Licensed Architect or En	gineer	Thomas and the second
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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.