

**BUDDY WEST, P.E.**  
**STRUCTURAL ENGINEER**

115 Penny Lane  
Cary, NC 27511

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August 21, 2022

Irv Goldstein  
irvgold57@gmail.com

Dear Irv,

As you requested, on Saturday 08-20-22 I performed a site visit to your house at 2200 Rawls Church Road in Angier NC. The purpose of that visit was to observe and evaluate the structural condition of the approximately 20'X20' existing main concrete slab that will support your proposed new metal-framed carport. Thank you for providing me with a copy of the engineered, signed, and sealed plans for the carport by Carolina Carports, Inc. in Dobson NC.

[Notes on the plans indicate that the engineer's seal on those plans does not include design of the concrete foundation slab. Thus the need for my report.]

The results of my observations and structural calculations, and my recommendations, follow.

My observations of the current approximately 20'X20' main slab indicate that this slab is approximately 2' thick around the perimeter. My discussion with you, and photographs that you provided, revealed that you have added an additional 4" thickness for the entire slab, and an additional 1' wide by 2" deep perimeter footing, which was doveled into place all the way around the perimeter of the original slab, which had been approximately 18'X18' by 4" thick.

As a result, the new final slab is 8" thick, with a 2' thick by 1' wide perimeter footing all around. Your photos show that the new 4" topping was also doveled into the existing 4" slab to tie the two layers together.

My structural calculations indicate that the new composite slab and footing are far more than adequate to support the NC Residential Code-required dead loads and live loads (both downward loads and net wind uplift loads).

Consequently, I do not recommend any additions or modifications to the current slab. [Note that the engineered drawings for the metal carport specify the size, embedment, and spacing for the anchor bolts, so I have not addressed those in this report.]

Thanks so much for calling on me to do this work for you. Please call me with any questions that you or the inspector have about the items in this report.



Sincerely,

*Buddy*

Buddy West, P.E.