

Complete Engineering & Consulting, PLLC

4721 Ray Road,
Spring Lake, N.C. 28390
910-497-6703 Fax: 910-497-5351

June 25, 2019

From: Michael A. Cavnar P.E.

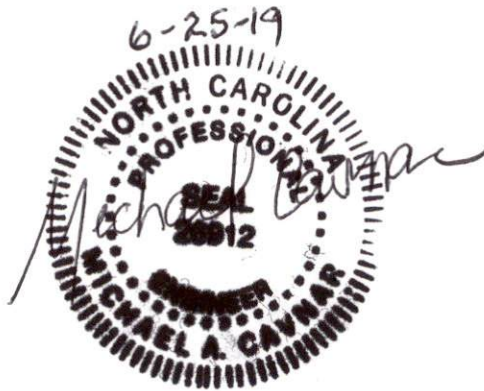
To: Harnett County Inspections Department

Re: Mini Storage Slab Building #4 @ Storage & Rentals By The Greens

On June 20, 2019 at 8:00 am an inspection was conducted at Storage & Rentals By The Greens physical address 4691 Ray Road, Spring Lake, N.C. 28390, mailing address 4701 Ray Road, Spring Lake, N.C. 28390 monolithic slab #4. The slab is a monolithic concrete turn down slab with a 1 foot step down at 50' 2"(mark half of slab). The slab measurements are 100' 4" x 20' 4". High end has a 10 1/2" x 1 1/2" deep recess edge for base channel. Low end has both 10 1/2" x 1 1/2" because of two 10' x 20' storage spaces. The end of the building and the backside of two 10' x 20' s has a 2" x 1 1/2" deep recess edge for base channel.

The monolithic concrete turn down slab and the anchor bolt installation meets the building code NCBC 2018.

Cordially,
Michael A. Cavnar P.E. #026912





BUILDING SYSTEMS, INC.
3300 HOLCOMB BRIDGE RD. SUITE 201
NORCROSS, GEORGIA 30092

28-May-19
 Arco Building Systems, Inc.
 3300 Holcomb Bridge Road, Ste. 201
 Norcross, GA 30092

Ref: 1004651A
Job Location: Pam Cavnar
 4701 Ray Rd
 Spring Lake, NC 28390

Building Size: Gable: 20'-0" x 100'-0" x 8'-6", 0.5:12

Gentlemen:

This is to certify that the above referenced building has been designed in accordance with the American Institute of Steel Construction (AISC 14th Ed. edition) and the American Iron and Steel Institute (NASPEC 2012 Ed.) specifications and good engineering practice. All welding is per the American Welding Society (AWS, 2010) specifications. Erection shall be in accordance with the erection drawings labeled for construction and the standard erection manual. Loads are applied in accordance with the 2018 North Carolina Building Code. The building is also designed in accordance with the information provided in the signed Order Document and per authorized changes to such document. Design loads were provided by the customer.

Design Loads:			
Building Occupancy Category:	I - Low Hazard	Risk Category:	I
Dead Load:	Metal Building Structure Only		
Wind Speed:	115.0 mph ultimate wind speed	89 mph (allowable stress design)	
Enclosure/ Pressure Coeff./ Exp. Cat.	Enclosed GCpi=+/-0.18	Exposure:	B
Live Load:	20 psf (non-reducible)		
Ground Snow (P _g):	10.0 psf Ce=1.0, Ct=1.2, Is=0.8		
Roof Snow (P _s):	8.0 psf		
Collateral Load:	0.0 psf (non-sprinklered)		
Seismic Data:			
Seismic Importance Factor:	1.0	Site Class:	D
Occupancy Category	I	Seismic Design Category:	C
Spectral Response Accelerations:	Ss = 22% S1 =9.7%	Seismic Response Coefficient (C _s):	0.078
Spectral Response Coefficients:	Sds =0.235 Sd1 =0.155		
Basic Structural System and Seismic Resistance System is:	Light frame walls with shear panels	R =	3.00
Design Base Shear (Total):	0.43 k		
Analysis Procedure is:	Equivalent Lateral Force		

This letter of certification applies solely to the steel building and its component parts as furnished by Arco Building Systems, Inc.

Specifically excluded is any foundation, masonry, or general contract work to include erection certification.

The undersigned is the metal building engineer and not the engineer of record for the overall project.

Respectfully Submitted,

ROBERT V. NANGIA P.E.
7423 HOLLOW RIDGE DR.
HOUSTON, TX 77095

