

Stephen Champion, PE

1829 Wescott Drive Raleigh, NC 27614 Office (919) 845-3330 Mobile (919) 815-3302

September 16, 2019

BSLTO, LLC

Attention: Mr. Robert Michael Sherer
3312 Optimist Farm Road
Apex, NC 27539

Re: Structural investigation of the residence, under construction, with address 120 Fletcher Avenue, Fuquay-Varina NC, concerning the adequacy of the three primary floor girders to safely and adequately carry loads pursuant to the 2018 North Carolina Residential Code. **Harnett County NC Single Family Dwelling permit number SFD1905-0063.**

Dear Mr. Sherer,

In reference to the above and with respect to my knowledge of the floor platform already constructed, the house plans (RANCH STYLE HOUSE #1204), roof truss specified layout and engineered sealed truss design and specification report, I submit the following.

Each of 3 parallel lines of girders (2 @ 2 x 10's, #2 SYP or #2 SPF) is adequate to carry gravity loads pursuant to the 2018 North Carolina Residential Code. Maximum girder clear-span between pier side-faces = 6'-9". Adjacent joist spans side-loading such girders = 8'-0" (max.). There shall be no roof live or dead load passed, directly or indirectly, to any floor platform girders. All aspects of building construction not addressed by this report shall conform to the 2018 North Carolina Residential Code.

Tributary area gravity-load intensities used for this structural investigation are:

- 1.) Floor platform live-load = 40 psf
- 2.) Floor platform dead-load = 10 psf
- 3.) Interior partition dead-load = 8 psf
- 4.) Roof live and dead load = 0 (zero) psf
- 5.) Girder self-weight = 15 plf

With Kindest Regards,
Stephen T. Champion, PE
Professional Engineer

