

January 25, 2022

Summit Homes  
 120 SE 30<sup>th</sup> St.  
 Lee's Summit, MO 64082

**RE: Field Issue of over bored stud and omission of blocking under kitchen island and for Lot # 147 Hawthorne Ridge– 3217 SW Arboridge Dr. Lee's Summit, MO 64082 – Permit # PPRS20212836**

Over bored stud for electrical:

- Hole is approximately 3" in diameter for electrical.
  - Hole is located approximately 6" from bottom of stud.
  - Over bored stud is located at exterior garage wall and has 2' tributary width of roof loads of Dead=20 psf and Live roof= 25 psf.
- Install a rotated stud adjacent to over bored stud.
  - Install a Simpson SS1.5 stud shoe at over bored stud per manufacturer's specs.

 Many of these products are approved for installation with Strong-Drive® SD Connector screw

Model No.	Stud Size	W (in.)	Fasteners (in.)	Allowable Loads <sup>1</sup>	
				DF/SP	
				Compression	
				Floor (100)	Roof (125)
SS1.5	2x	1 <sup>5</sup> / <sub>8</sub>	(12) 0.148 x 1 1/2	500	500
SS2.5	3x	2 <sup>5</sup> / <sub>8</sub>	(12) 0.148 x 1 1/2	730	740
SS3	(2) 2x	3 <sup>5</sup> / <sub>8</sub>	(12) 0.148 x 3	730	830
SS4.5	(3) 2x	4 <sup>5</sup> / <sub>8</sub>	(14) 0.148 x 3	840	840

Omission of blocking under kitchen island due to HVAC:

- Install solid blocking between joists at 48" oc in bays adjacent to HVAC chase.
- Floor joists are #2 2x10 @ 16" oc spanning approximately 12' with standard dead=10 psf and live = 40 psf loads.

Sincerely,



Bradley Huxol, PE

