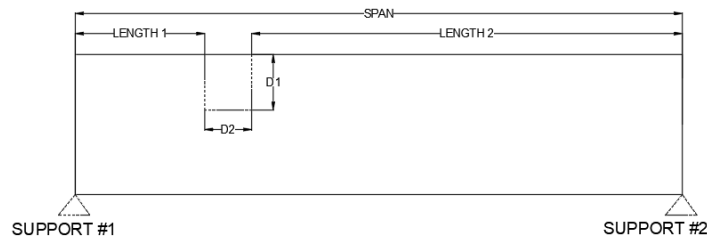


August 11, 2022

Summit Homes
120 SE 30th St
Lee's Summit, MO 64082

**RE: Field Issues for Lot # 150 Hawthorne Ridge – 3216 Arboridge Dr
Lee's Summit, MO 64082 – Permit # PRRES20220521**

Notch in floor joist under bath #3:



SIMPLE SPAN

- D1 – 2.5"
- D2 – 3"
- Length 1 – 4'-1"
- Length 2 – 11'
- Span – 15'-4"
- Support #1 – Rear LBW at great room
- Support #2 – (2) 1-3/4" X 9-1/4" LVL in great room
- Location – Great room under bath #3.
- Loading -
 - Dead = 15 psf @ 16" oc
 - Live = 40 psf @ 16" oc

Recommended modifications:

- **Add additional support to existing 2x10 notched floor joist. Sister Douglas Fir Larch #2 2x10 joist for 6' length with 4 fasteners per linear ft in "W" pattern with 2-1/2" structural screws to existing notched floor joist centered with notch.**

Sincerely,



Bradley Huxol, PE

