



ENGINEERING, INC.

Consulting Structural and Civil Engineers

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Raytown, Missouri 64133
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April 3, 2025

Development Services Department
220 SE Green Street
Lee's Summit, MO 64063

Re: 211-213 NW Orchard Court, Lees Summit, MO
Permit Number: PRRES20240701

To Whom it May Concern:

This letter will address one of the framing inspection comments dated March 28, 2025.

At the garage, the double wall was originally installed with the intent of having two sheets of drywall between them as part of the firewall. As such there is a gap of approximately 2" between the studs of each wall. The result is the sole plate overhangs the edge of the 8" stem wall below. The maximum overhang is 1" leaving 2 1/2" bearing on the stem wall. The maximum design gravity load on each stud is 1135 pounds. The bearing pressure at the bottom of each stud is $1135 / (2.5 \times (1.5 + 1.5 + 1.5)) = 101$ psi and the allowable compression perpendicular to the grain in stud grade Douglas Fir-Larch is 625 psi.

It is my opinion that the sole plate overhang does not present any structural deficiency and need not be subject to any remedial repair.

If there are any questions, please let me know.

Yours truly,

Albert Hermans, P.E.

