



ENGINEERING, INC.

Consulting Structural and Civil Engineers

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February 22, 2021

Mr. Chris Shaw
Shaw Construction
P.O. Box 166
Napoleon, MO 64074

**Re: Soil Inspection – 1526 SW Blackstone Place, Lee's Summit, MO
Lot 130 Napa Valley 3rd Plat**

Mr. Shaw,

At your request, I have inspected the soil conditions at the above referenced site. The inspection took place earlier today and concentrated on the area of the perimeter footings and the interior spread footings. A 4' long soil probe and visual inspection were used to evaluate the soil conditions.

The building pad is situated on what appears to be a previously undeveloped site and has been excavated to subgrade for the basement. The upper part of the excavation appears to be fill material. The rear wall has been excavated to what appears to also be fill material. Probe resistance was light at all footing locations. I would estimate that a safe bearing pressure is 1000 psf which would mean perimeter footings 32" wide with 4 #4 continuous. At the interior footings, a safe bearing pressure is 1000 psf which means that footing sizes would need to be 2.0 times the area of what would have been designed for 2000 psf. As an example, a 36" square pad called out on the drawing would need to be 54" square with 7 #4 each way, a 42" square pad called out on the drawing would need to be 60" square with 8 #4 each way, and a 48" square pad called out on the drawing would need to be 72" square with 9 #4 each way.

If there are any questions, please let me know.

Yours truly,

Albert Hermans, P.E.

