



ENGINEERING, INC.

Consulting Structural and Civil Engineers

5907 Raytown Trafficway
Raytown, Missouri 64133
816-356-1445 Fax: 816-356-1477

January 17, 2022

Mr. Chris Shaw
Shaw Construction
P.O. Box 281
Bates City, MO 64011

**Re: Soil Inspection – 1705 SW 27th Street, Lees Summit, MO
Lot 34 Whispering Woods First 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. There is a 3-foot step down at the rear of the building pad. Probe resistance was moderate to stiff at varying locations throughout the pad. I would estimate that a safe bearing pressure is 1500 psf which would mean perimeter footings 24" wide with 3 #4 continuous. At the interior footings, a safe bearing pressure is 1500 psf which means that footing sizes would need to be 1.33 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 42" square with 5 #4 each way and a 42" square pad called out on the drawing would need to be 48" square with 6 #4 each way and a 48" square pad called out on the drawing would need to be 54" square with 8 #4 each way.

If there are any questions, please let me know.

Yours truly,

Albert Hermans, P.E.

