



February 28, 2020

Concrete Design of KC

Re: 121 NW Mackenzie Drive
Winterset Valley, Lot 1465
Lee's Summit, Missouri

Apex Engineers, Inc. observed the existing garage and basement slabs and deck piers at the above referenced address. The slabs and piers were placed without an approving inspection.

The following observations were made regarding the garage and basement slabs:

- The slabs were tested with a HR-7000 rebar locator and readings indicate that reinforcing steel was placed in the slab at 12" on-center each way. A mass of steel was also detected over the garage column support. The reinforcing steel pattern was consistent with a structural slab.
- The basement slab appears to be reinforced 24 inches on-center each way.
- Both slabs appear to be in good condition.
- At the time of our firm's site-visit an Engineer's "T"-rod was used to determine that the minimum diameter of the two (2) patio piers, supporting the rear covered patio, is 24 inches, with a minimum depth of 36 inches. Additionally, relatively hard resistance was encountered at the base of the piers.

Based on the observed conditions, evidence suggests that the drilled piers garage and basement slabs were properly placed. Our firm recommends approval of the rear covered patio/deck piers and slabs based on the above findings. This report does not constitute approval by the enforcing jurisdiction.

LIMITATIONS

The scope of our services includes only those items specifically addressed herein. All other items are outside the scope of this inspection; including but not limited to, any environmental assessment (such as, but not limited to mold, mildew, presence of hazardous or toxic materials in the soil, surface water, ground water, etc.).

Apex Engineers, Inc. has performed our services in a manner consistent with the standard of care and skill ordinarily exercised by firms of our type practicing under similar conditions at this time and locality.

This report is intended for the confidential and exclusive use of Apex Engineers, Inc.'s client. No other person or company is authorized to use this report for any purpose without Apex Engineers, Inc.'s client permission. Please call if Apex Engineers, Inc. can be of further assistance.

Best Regards,
Apex Engineers, Inc.

Kevin Miller
Engineering Technician

