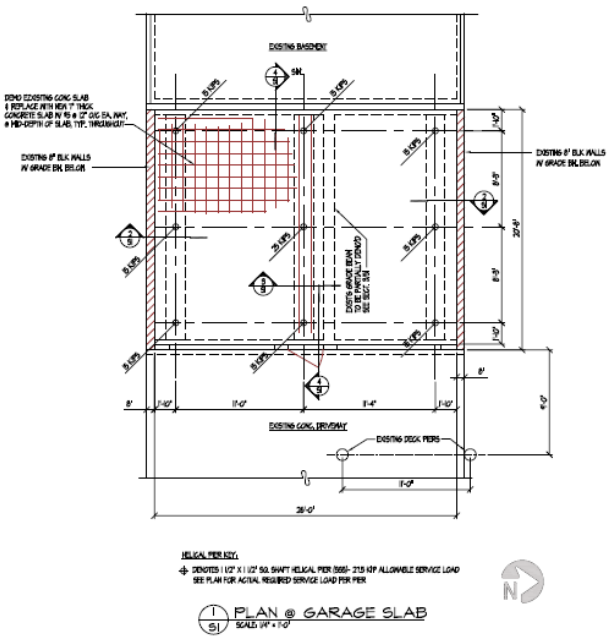
CASE HISTORY

SAFEBASE™ 2.875" STANDARD DUTY HELICAL PIERS

FIVE FOOT VOID BENEATH GARAGE FLOOR FILLED AND SUPPORTED WITH SAFEBASE HELICAL PIERS

SafeBasements of Minnesota was contacted regarding concerns about a sagging garage floor. A plan was created by Wenzel Engineering which called for removal of the existing floor and replacement with a new floor supported by system of reinforced concrete grade beams and helical piers. The home was originally built on timber pilings in 1977 and over time the soil beneath the slab settled creating a 4-6 foot void beneath the floor.



The existing slab was very carefully removed as it was safely chipped away from the top. Then the existing grade beams were chipped down to the required height for the new slab. Nine SafeBase Standard Duty Helical Piers with 8”-10”-12” flights were installed in rows of three to support the three new grade beams. The required allowable capacity ranged from 15 to 25 kips per pier. Fill was brought in and tamped during the process to fill the void, so that the new reinforced concrete grade beams and slab could be poured monolithically on top of the fill.

With the 9 SafeBase Standard Duty Helical piers supporting the new reinforced concrete 20”x20” grade beams and 7” slab the garage would be safe for parking multiple vehicles for the life of the home. The garage was able to be heated during construction allowing for the project to be completed in January of 2014.

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SafeBasements of MN
60335 US Highway 12
Litchfield, MN 55355
320-593-8729

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