



CASE HISTORY

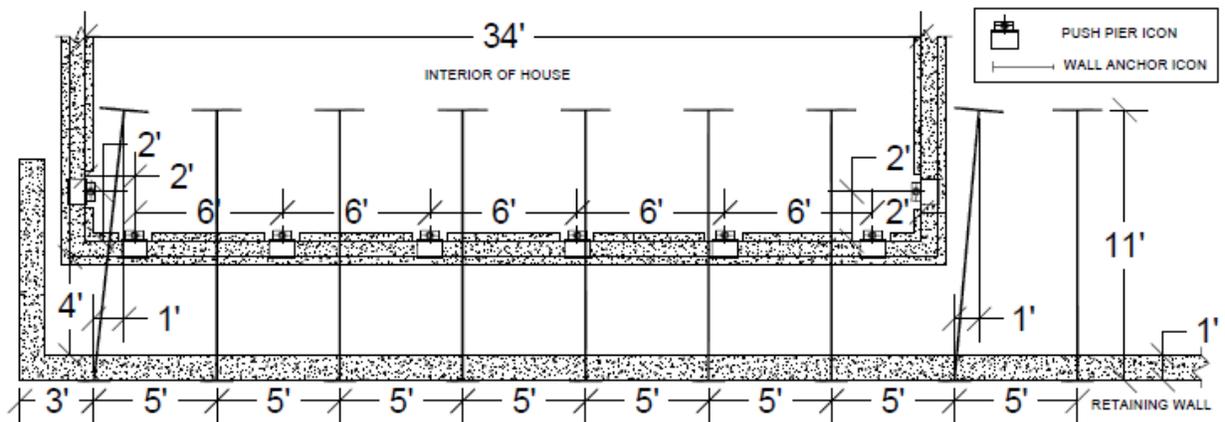
SAFEBASE™ 2.875" STANDARD DUTY PUSH

PIERS AND WALL ANCHORS

MINNEAPOLIS HOME RESTORED USING SAFEBASE™ PUSH PIERS AND WALL ANCHORS



SafeBasements of Minnesota was contacted regarding concerns of a leaning retaining wall and a settling foundation. A plan was made to underpin the settling foundation using SafeBase™ 2.875" Standard Duty Push Piers and tie back the wall using SafeBase™ Wall Anchors. Piers were to be placed approximately 6' on center on the interior of the foundation along the northern wall, including the north east and north west corners, and anchors were to be placed approximately 5' on center along the portion of the retaining wall supporting the home.





On the interior, the concrete slab was removed along the portion of the perimeter in which piers were to be installed. Upon removal it was found that there was no footing supporting the foundation. Box steel was used to span between the bracket of each pier to support the block wall. Holes were also made to install the earth plates of the wall anchors beneath the slab. The anchors were installed beneath the foundation, requiring careful installation such that the rods were not driven into the piers or foundation itself.

The estimated load of the structure on each pier was 11 kips. Each pier was installed to a depth of 19 feet with a force of approximately 33 kips per pier, resulting in a factor of safety equal to 3. A total of 8 SafeBase™ 2.875" Standard Duty Push Pier and Bracket Assemblies along with 9 SafeBase™ Wall Anchors (7 of which having Large Wall Plates) were used. Installation was completed during the month of April, 2015. After installation SafeBasements of Minnesota advised to the homeowner to adjust the grade and redirect run off such that water would not collect in the area between the retaining wall and the foundation, helping to minimize the pressure variations and frost effects in the future. With the repairs completed the home will remain safe for years to come.



SafeBasements of
Minnesota, Inc.
60335 Hwy 12
Litchfield, MN 55355
(320) 593-8729

