



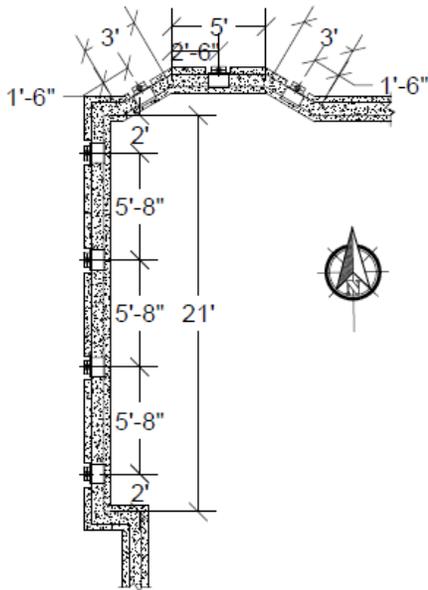
# CASE HISTORY

SAFEBASE™ 2.875" STANDARD DUTY PUSH PIERS

## FOUNDATION REPAIRED USING SAFEBASE™ PUSH PIERS



SafeBasements of Minnesota was contacted regarding concerns of cracks in a foundation wall during renovation of the home. It was found that the northwest corner of the home was down approximately 2.5". A plan was made to underpin the settling foundation using SafeBase™ 2.875" Standard Duty Push Piers. The piers needed to be installed and the foundation lifted before construction of a second story addition could be started.





During installation portions of the foundation began moving outward. Temporary tie backs to the interior were installed using large wall anchor plates, cables and turn buckles attached to steel plates bolted to the slab. The tension was adjusted so that the walls would stay together and not displace laterally during the lift.



A full recovery of the 2.5" settlement was achieved during the lift, bringing the house back to level. After the lift all cracks in the foundation wall were tuck pointed and the holes made for the cables were patched on both the exterior and interior.

The estimated load of the structure after the addition of the second story on each pier was 14 kips. Each pier was installed with a force of approximately 35 kips, resulting in a factor of safety equal to 2.5. A total of 7 SafeBase™ 2.875" Standard Duty Push Pier and Bracket Assemblies were used. Installation was completed during the month of May, 2015. With the foundation repair completed, the addition of a second story could begin along with the rest of the renovations.

*Jesse Trebil's*  
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[www.safebasements.com](http://www.safebasements.com)

SafeBasements of  
Minnesota, Inc.  
60335 Hwy 12  
Litchfield, MN 55355  
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