



Case History

Problem:

St. Peter's Elementary School in Jefferson City needed an alternate solution to foundation load concerns at the proposed new school building expansion. Poor soils and high loads at new column locations made traditional foundation support alternatives impractical.

Solution:

Helitech® installed a Temporary Earth Retention Shoring System to support approximately 140 lf x 14' tall (1,960 square feet) of excavation enabling the construction of the new addition. This involved excavating the embankment in 5 to 6 foot vertical cuts. The process was broken into multiple tiers working from top to bottom, allowing construction on one tier at a time, insuring that each tier wall was installed correctly. A. B. Chance soil screws were installed horizontally into the soil for soil stabilization first, then Hydraway® drainage system was placed behind and adjacent to the wall, Helitech® then applied a four inch thick layer of concrete across the wall to prevent the soil from sloughing and being exposed to the elements.

Resolution:

There was minimal noise and no vibration during installation. The Temporary Earth Retention Shoring System, which does not need to be removed (typically) was cost effective and imposed minimal impact to the adjacent structure.

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