

Cement and Soil Mix Auger Pile Barrier Reinforced by Steel Soldier Beams

The construction of the East Approach for Third Harbor Tunnel (I-90) in Boston, MA, consists of parallel reinforced concrete box structures that were built using a cut and cover method. The excavation required a support system that would maintain the surrounding ground water levels and prevent damage to airport runways, adjacent buildings, and other utilities. The support system chosen consisted of soil mix walls made with augers mixing cement grout into the soil and steel soldier piles placed in the soil cement at four foot intervals along with prestressed ground anchors.

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