On occasion, additional sliding or global stability resistance is needed with the design of earth retaining wall structures. One way to provide the additional stability or resistance needed is to install earth anchors. The use of earth anchors with the Gravix retaining wall system is to install the earth anchors into a reinforced leveling pad for the first row of Gravix units. The conventional unreinforced leveling pad is reinforced with rebar to transfer the load directly from the earth anchor to the lower nodes of the Gravix unit that interlock behind the reinforced leveling pad. The photographs show a project in Atlanta, Georgia where a utility box prevented the installation of the prescribed Gravix unit stem lengths which had to be shortened due to the utility box location. The engineer of record designed the earth anchors to provide the additional sliding resistance needed for a stable earth retaining structure.

Below are the details provided by the design engineer as well as photographs taken during the construction. For additional information and questions concerning this application and the solution provided, please contact the engineering department at Earth Wall Products, LLC.

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