The Use of Short Rammed Aggregate Pier Elements for Foundation and Floor Slab Support in Poor Soil Conditions

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Wednesday January 26, 2011
4:30 – 5:30

CEE Conference Room ~ 2355 GG Brown Lab

In mature metropolitan areas as the city of Detroit and its surrounding developed communities, undisturbed properties for medium to large construction projects may be difficult to procure. Additionally natural soft compressible or organic laden soils may pose settlement concerns and added expense to the development of these projects. Therefore alternates to conventional design methods may be necessary to construct projects with poor natural soils or unsuitable fill materials.

Geopier Foundation Company developed the Rammed Aggregate Pier system in 1989 as an efficient and cost effective intermediate foundation solution for the support of settlement sensitive structures. The use of Rammed Aggregate Pier elements has since become an effective replacement for massive over excavation and replacement or deep foundations including driven piles, drilled shafts or auger cast in place piles.

This presentation will outline the construction and design methodology for Rammed Aggregate Pier elements in the use of foundation and floor slab support.

****** Everyone is invited – refreshments will be served ******