










Competitive Analysis* of the GEOPIER® Rammed Aggregate Pier® System to Helitech® CCD's using Direct Displacement System (DDS)

	GEOPIER® GP3® System Rammed Aggregate Pier® (RAP)	Helitech®'s Direct Displacement System Vibratory Stone Columns (VSCs)	Potential Impact
Design Quality Assurance	An individually licensed designer will provide an initial and final design for the GEOPIER® system. Their review process is completed by affiliated firms.	Helitech® utilizes an independent engineering firm to peer review Helitech®'s designs and then sign and seal these design-build solutions.	 Quality
System Spoils	Licensed GEOPIER® installers will employ a "Drill and Fill" method when using the GP3® System. This method will produce significant spoils that will need to be handled and hauled away.	Helitech®'s Direct Displacement System (DDS), minimizes spoils. DDS is a great approach where contaminated soils may exist.	 Cost  Schedule
Installation Approach	Using a "Drill and Fill" approach with the GP3® System, the licensed GEOPIER® installers will need to perform multiple procedures on each hole, potentially extending duration onsite.	Helitech® touches the hole only once using the DDS approach, potentially shortening the duration onsite. This method also densifies the in situ granular soils between the Aggregate Piers.	 Schedule  Quality
Installation Pad		Since Helitech®'s DDS minimizes spoils, Helitech® will allow access to the working pad while still installing piers. This access may improve the construction schedule.	 Cost  Schedule
Installation Quality Assurance	GEOPIER® provided specifications for Rammed Aggregate Pier® (RAP) require that the owner or contractor hire an onsite Control Technician to report on installation.	Each of Helitech®'s installation rigs is equipped with the latest data logging computer monitoring system, thus Control Technician requirement may be waived.	 Schedule  Quality