CONCLUSION

The analyses performed in this report all connect back to the projects currently underway at PSHMC. As the Cancer Institute begins to install the micropiles, one expects communication between the owners, engineers, project managers, and subcontractors to continue at the same high degree of coordination achieved at the Parking Garage. Though this project incurred losses to schedule and cost, it is likely that the Cancer Institute will be able to avoid or at least minimize the impact of any similar subsurface issues. Respect is achieved on all levels when collaboration on this level exists.

Structural Breadth Study

The Geopier-reinforced mat slab foundation proposed in this analysis proved what was expected from the start- the initial cost is greater than the current system, but it avoids subsurface issues that may be encountered with the micropile installation. Though this may not be a convincing argument from a value engineering standpoint, this system or one like it should be considered for Children's Hospital if the Cancer Institute runs into problems similar to those experienced at the Parking Garage project.

Electrical Breadth Study

Redesigning the high voltage distribution plan proved to be a simple yet effective way of trimming construction and operation costs for PSHMC. Small adjustments can add up to equal significant savings, stressing the importance of comprehensive program management in major construction undertakings.

Construction Management Depth Study

The results of the research study on markup influences proved to be an effective means of reinforcing the importance of building respect within the construction industry. Regardless of which project entity one represents, it is critical that everyone in the process is mindful of the other's welfare. Reputations are built upon respect, more so from a subcontractor's perspective than an owner's. When respect is effectively practiced, it has a positive impact on the builders who in turn deliver quality projects and maintain strong business relationships.