



Geotechnical Design

The depth and breadth of our geotechnical engineering design skills and experience provide the ideal foundation for successful construction projects and site development.

Understanding subsurface conditions and developing effective geotechnical solutions is key to initiating a successful construction project. We start by getting to know our clients' goals and expectations to develop a design strategy suited to the project uncertainties and complexities. By integrating geotechnical expertise with capabilities in environmental services and knowledge of construction practices, we deliver practical yet creative approaches to complex underground engineering and environmental challenges. In fact, we deliver the highest value to clients when subsurface conditions present multiple challenges and are most difficult.

Our geotechnical design expertise ranges from multi-level belowgrade foundations for urban high-rise buildings to suburban mixeduse developments, to university campuses, and to infrastructure, such as dams, landfills, and natural gas facilities.

We complement skills in traditional geotechnical engineering practices with state-of-the-art geotechnical investigation testing methods, which are particularly valuable where soils are less than ideal for foundation conditions. These testing methods help identify and optimize foundation design options to limit construction costs.

Underpinning all our geotechnical services is a commitment to add value to our clients' projects through diligence, responsiveness, technical expertise, and teamwork.

SPECIALTY AREAS:

- Foundation Design (Shallow & Deep)
- Retaining Wall Design
- Pavement Design
- Mechanically Stabilized Earth (MSE) Berms
- Excavation Support
- Construction Monitoring
- Specialty Testing



PROJECT SPOTLIGHT

585 Kendall, once home to a manufactured gas plant (MGP) and a gas transfer station (GTS), is now a new redevelopment that is being welcomed by the community. Sanborn Head was retained by BioMed to assist with the geotechnical and environmental components for this innovative, sixteenstory structure that incorporates lab-officeand performing arts into one building that is referred to as Kendall Square's "future living room." The building will be supported on 76 drilled shafts ranging from 2 to 8 feet in diameter. Geotechnical services included engineering evaluation, project specifications, drill shaft design, design support, pre-construction surveys, and more.



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