

Geotechnical Engineering

“ Naturally occurring materials in the earth impact structural design. Incorporating geotechnical engineering principles into the planning minimizes guesswork.”

SERVICES:

• Geotechnical Explorations

- Soil Investigations
(Soil borings/Test pits)
- Groundwater Investigations
- Rock Coring
- Bedrock Profiling

• Foundation Analysis/Design

- Deep/Shallow Foundations
- Pile Analysis/Design
- Bearing Capacity Analysis
- Settlement Analysis
- Drainage/Groundwater Analysis
- Engineering Design

• Paving Analysis/Design

- Paving Material Analysis
- Drainage Recommendations
- Slope Analysis and Design

• Slopes and Embankment Analysis/Design

- Global Stability Analysis
- Drainage Recommendations
- Engineering Design

• Engineering Analysis, Reporting and Estimating

- Wind Turbine Foundations
- Communication Tower Foundations
- Bridge and Pier Design
- Commercial Structures
- Residential Structures
- Industrial Facilities
- Ethanol Facilities
- Transportation Corridors

OUR APPROACH:

Pinnacle provides a single-source solution for all your Geotechnical Engineering needs with an experienced team of dedicated, trained, certified engineers and technicians. We understand the importance of balancing operational goals with innovative, cost effective site-specific engineering expertise.

We analyze your project plans, incorporating sound geotechnical practices into the design.

BENEFITS TO YOU:

- Pinnacle's full-service geotechnical engineering allows complete control of the project from start to finish.

Project delays are minimized by offering both geotechnical engineering, and special inspections and construction materials testing throughout the building phase.

- Pinnacle's multi-disciplined engineering team provides clients with a breadth of experience in solving critical construction issues and integrating any environmental actions.

- Our staff's commitment to quality assurance includes; in-depth technical expertise, prompt and timely project response, and the security of knowing that your project is managed in the best interests of both the site's conditions and your project goals.

PINNACLE SOLUTIONS:

- Our efforts are institutional in the development of innovative geotechnical solutions for the wind power and telecommunications industry. Pinnacle engineers are currently working with several developers in refining foundation design techniques for the building of tower foundations.
- Pinnacle integrated geotechnical soil exploration with environmental soil borings at a Brownfield Redevelopment site in Osseo, MN - the result was a cost savings and better understanding of the site conditions.

