



MATRIX **NEW**WORLD

Engineering Progress

GEOTECHNICAL ENGINEERING SERVICES

Matrix is a collaborator.

Matrix provides a full complement of geotechnical services including soil, rock, and groundwater investigations, geotechnical engineering design and construction support. We have provided a broad spectrum of geotechnical investigations for public agencies, private corporations, architects, engineering firms, and commercial and residential developers.

Our geotechnical engineering services range from initial site evaluation to development of complete site-specific engineering recommendations for the selection, design and construction of effective and functional foundation and pavement systems. Matrix has provided consultation on excavation, shoring, and permeability analysis and dewatering for environmental and construction projects.

Matrix also provides forensic engineering services to aid design and construction engineers with mitigation services in the event of deterioration or catastrophic occurrences.

Our work is characterized by a spirit of partnership and a commitment to understanding the client's needs and objectives, and working collaboratively toward their goals.



Services provided

- Geotechnical Management and Oversight for Soil, Rock & Groundwater Investigations
- Design & Analysis of Shallow & Deep Foundation Systems
- Design & Analysis of Retaining Structures
- Bedrock & Soil Slope Stability
- Design of Soil & Rock Anchors
- Settlement Analyses
- In-situ testing & Analysis for Permeability, Percolation, & Infiltration
- Geotechnical Laboratory Testing Programs
- Consultation on Excavation, Shoring, Underpinning & Dewatering Systems
- Consultation of soil Improvement Methods
- Pavement Design for Roadways, Airport Runways & Taxiways
- Consultation on Tunneling (Bored & Cut-and-cover Techniques)
- Planning/oversight of Deep Foundation Installation
- Geophysical Studies
- Site selection & Feasibility Studies
- Investigation of Karst Terrain, Sinkholes & Voids in Bedrock
- Forensic Engineering
- Hydrogeologic Investigations
- Monitoring & Instrumentation programs

Contact

Matrix New World Engineering

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