



Design and construction of functional and cost-effective structures require a thorough understanding of local soil, rock and groundwater conditions. Whitestone provides a wide range of geotechnical services to support all phases of a project, from initial site evaluation through construction.

- **Subsurface geotechnical investigations** and engineering evaluation including design parameters and construction recommendations for foundations, pavements, floor slabs, retaining walls, ground improvement, earthwork and grading, groundwater control, seismic site classification and spectral response analyses
- **Seasonal high groundwater determination** and permeability testing for use in stormwater management and/or on-site septic system design and permitting
- **On-site septic system design and permitting** including local and state approvals and Water Quality Management Plan amendments
- **Soil classification testing and laboratory analyses** for geotechnical parameters
- **Existing pavement assessment** and life-cycle oriented repair and maintenance recommendations including plan and specification preparation, bid review, and construction phase inspection
- **Construction phase testing and inspection services** including soil density testing; footing and foundation inspections; pile load testing; and concrete, masonry, mortar, steel, pavement testing and inspection
- **Client consultation services** including final document review, budget analyses, bidding assistance, and construction phase through service-life troubleshooting

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