



## DESIGN

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## Project Management & Construction Services

Peer reviews • Contract document preparation • Project cost reviews for bank loans • Bidding assistance • Owner's representative services • Payment verifications • Roof consulting



## Civil Land Development

Zoning variances/approvals • Conceptual planning/site feasibility • Site design and permitting • Stormwater management design • NPDES permitting • Stormwater infiltration evaluations • Erosion and sediment pollution control plans • Construction phase services • Subdivision plans



## Structural Engineering

Culvert design • Evaluations, reports, and inspections • Historic preservation • Retaining wall design • Seismic analysis and design • Structural design



## Mechanical / Electrical / Plumbing Engineering & Fire Protection

Automatic control systems • Building and energy management systems • Central utilities and master planning • Electric and lighting systems • Emergency power and uninterruptible power supply systems • Energy conservation studies • Fire protection systems • Heating, ventilating, and air conditioning (HVAC) systems • Plumbing systems • System evaluations and life cycle and cost benefit analysis



## Forensic Building Investigation

Building envelope, facade, and roof investigations and repairs • Catastrophic evaluations • Expert investigations and witness testimony • Fire, wind, snow, and hail evaluations • Flood, collapse, and impact evaluations • Insurance claim investigations • Property Condition Assessments • Sinkhole evaluations and repair • Structural assessments and investigations • Bleacher inspections



## Geotechnical Engineering

Subsurface investigations • Foundation design • Carbonate geology studies • Construction inspection and testing • Due diligence studies • Geothermal well design • Ground improvement programs • Pavement design • Seismic site classification • Site feasibility • Sinkhole investigation and mitigation • Rock mapping • Retaining wall design • Stormwater infiltration testing • Bedrock mapping and characterization



## Survey

ALTA • Boundary • Construction • Flood elevation certifications • Geographic Information System (GIS) • Global Positioning System (GPS) • Laser scanning • Topographic • Utility • Drones



## Environmental Consulting

Asbestos inspections, remediation design, and management planning • Bog turtle habitat surveys • Brownfields services • Hydrogeologic studies and permitting • Carbonate geology studies • Fracture trace analysis • Groundwater investigations • Lead based paint surveys • Phase I and Phase II Environmental Site Assessments • Soil evaluations and on-lot sewage disposal • PA Act 2 site characterizations and relief of liability • PA Act 537 sewage facilities planning modules • Sinkhole investigation and remediation • Storage tank removal, closure, and permitting • Stormwater infiltration investigations • Watershed assessment and riparian restoration • Wetland delineation, permitting, mitigation, and monitoring



## Construction Quality Assurance (CQA)

Third party building structure and system services • Special inspections (IBC Chapter 17) • Construction materials testing • Indoor air quality (IAQ) monitoring • Testing, adjusting, and balancing (TAB) • Commissioning (Cx) • In-situ soils, asphalt, and concrete testing • Construction documentation / field services • Four regional laboratory locations



## Code Inspection & Plan Review

Approved L&I and ICC continuing education provider • Building inspections • Electrical inspections • Energy conservation inspections • Fire inspections • Fire protection system plan reviews and inspections • Mechanical inspections • Multi-discipline plan reviews • Plumbing inspections • Special inspections • Zoning administration • UCC code compliance reviews and inspections



## Municipal Engineering Services

### General Municipal Services

Design and construction administration of infrastructure improvements • Facility design and construction • Subdivision and land development plan reviews • Construction observation • Culvert design • American Disability Act (ADA) accessibility studies and ramp design • Stormwater system analysis and design



## Municipal Engineering Services

### Transportation

Traffic impact studies/assessments • Street design • Detour plans • Maintenance and protection of traffic plans • PennDOT Highway Occupancy Permits • Railroad crossing permitting • Right-of-way dedication plans • Signage analysis • Traffic circulation studies • Traffic signal design • Trip generation studies • Posting and bonding studies • Speed studies • Traffic signal retiming • Traffic calming • Roadway condition analysis



## Municipal Engineering Services

### Water & Wastewater

Sewage treatment plant design • Wastewater collection and conveyance systems • Water distribution systems • Water treatment • Act 537 plans • Pump station design • Chapter 94 Reports • Tapping fee analysis • Permit acquisition and renewal



## Municipal Engineering Services

### Municipal Separate Storm Sewer System (MS4)

Municipal annual reporting • Compliance evaluations • Pollutant Reduction Programs (PRP) • BMP analysis and design • BMP construction • Storm sewer and drainage area mapping • BMP inspections • Combined sewer mapping and inventory • Outfall screenings



## Landscape Architecture

Master planning • Trail feasibility, planning, and design • Parks and recreation facility planning and design • Streetscapes and pedestrian corridors • Waterfront planning and design • Urban design • Sports fields and outdoor athletic facilities • Green roof design • Green stormwater management systems • Site lighting • Public engagement and surveys • Geographic Information System (GIS)



## Grants Management

Strategic funding plans • Application coordination of tasks and responsibilities • Application writing • Grant compliance and tracking • Post award management