

Civil and Sanitary Engineering Design

Project Investigations, Reports and Feasibility Studies
Cost Analysis
Preliminary and Final Engineering
Earthwork and Site Grading
Drainage and Flood Control
Stormwater Detention and Collection
Sewage Collection and Treatment
Water Supply, Storage and Distribution
Erosion Control
Freeways, Arterial Collector and Local Street Design
Urban, Suburban and Rural Street Design
Intersection Geometry and Roundabout Design
Traffic Studies and Signal Design
Roadway and Parking Lot Lighting
Parking Areas
Bicycle and Multi-Use Pathway Design
Railway Design
Railroad Facility and Grade Crossing Engineering
Intermodal and Transload Facility Design
Small Dams and Bridges
Construction and Project Management

Surveying

Boundary and ALTA Surveys
Topographical Surveys
Wetland Location Surveys
Subdivision Plats
Easement Preparation
Building Layout
DOT Surveys
Dedication Plats
High Definition 3-D Scanning

Water Resources Engineering

Watershed Drainage
Master Watershed Planning
Hydrologic and Hydraulic Modeling
Stormwater Infrastructure Design
Stormwater Master Planning
FEMA Flood Insurance Studies
Dam Break Modeling and Breach Zone Mapping
Aquifer Characterization/Water Supply Studies
Erosion and Sediment Control
Geomorphic Characterization and Stream Restoration
Wetland Delineations
Wetland Creation, Enhancement and Restoration
USACE Nationwide and Individual Permitting
Wetland Mitigation Plans and Monitoring
Irrigation Design
NEPA Documentation
GIS Services
DNR Permit Assistance

Water & Wastewater Engineering

Facility Planning
Water Production, Treatment and Distribution Design
Sanitary Collection and Treatment System Design
Reclaimed Wastewater Irrigation Design and Permitting
Contract Operations and Management
Spray Irrigation
Pre-Treatment Program Setup
Permitting and Ordinance Compliance
Bio-Solid Management and Planning
Rate Evaluation and Recommendations
Loan Acquisition Assistance
Grant Package Preparation and Release
Safety Planning and Implementation
Agency Compliance Issue Negotiation
Corrosion Protective Coating Consultation
Construction and Project Management and Oversight

Environmental Services

Phase I Environmental Site Assessments
Phase II Environmental Site Characterizations
Phase III Environmental Site Remediations
Underground Storage Tank Assessments
Comprehensive and Pre-Demolition Asbestos Surveys
Asbestos Abatement Project Specifications
Asbestos Abatement Work Observation and Air Monitoring
Asbestos Management Plans
RCRA Compliance Audits
Hazardous Materials Management Plans
Lead Based Paint Testing and Remediation Services
Health and Safety Work Plans
Special Resources Surveys

Land Planning

Land Use Planning
Entitlement Services
Park Design and Improvement Plans
Athletic Field and Sports Facility Design
Urban Design
Project Review
Zoning Review
Appearance Review
Ordinance Writing and Updating
Mapping Services
Municipal Planning and Zoning Strategies
Municipal Plan Review
Property Annexation
Utilities Planning and Mapping
Density Analysis
Highest and Best Use Analysis
Real Estate Research and Due Diligence
Litigation Support

Landscape Architecture

Landscape Planting Plans
Entry Monument Plans and Designs
Entrance Feature Designs
Detailed Grading Design and Enhancement
Landscape Costing
Streetscape Design
Irrigation Design

Construction Services

Contract and Bid Negotiation
Constructability Review
Project Budgeting and Cost Analysis
Construction Scheduling
Construction Staking
Construction Guidance
Construction Observation
Construction Management
Assistance with Municipal Acceptance
Total Site Coordination

Sustainable Solutions

Eco-System Management

- Prairie Restoration and Management
- Endangered Species Consultation
- Flora and Fauna Surveys
- Water Quality Sampling and Monitoring

Renewable Energy

- Bio-Energy
- Wind Energy
- Solar Energy
- Hydropower

LEED Design
Community Outreach