

Design Services

Design Management

- Engineering Service Scoping
- Selection of Consultants
- Qualification Based Selection
- Service Fee Review
- Design Costs
- Project Methods and Standards
- Design Scheduling

Specifications

- Contract Documents
- Contracting Procedures
- Standard / Master Specifications
- General Provisions
- Technical Specifications
- Material Specifications
- Reference Standards
- Advertisement / Invitation to Bid
- Bid Evaluation / Award

Civil Engineering

Structural Analysis

- Beams, Columns, Trusses, Frames
- Arches, Torsion, Cables,
- Flat Plates, Finite Element Analysis,
- Mesh Convergence Studies
- Staad.Pro Analysis

Foundation Design

- Foundation Loads
- Spread Footings / Mats
- Pile Foundations
- Cofferdams / Dewatering
- Slope Stability

Concrete Design

- Reinforced Beams, Columns, Slabs
- Prestressed Beams, Columns, Slabs
- Precast Beams, Columns, Slabs

Civil Engineering (Continued)

Steel Design

- Beams, Columns, Trusses, Joists
- Metal Decks, Metal Roofs,
- Built Up Members
- Welded / Bolted Connections
- Floor and Roof Systems
- Lateral Force Design

Wood Design

- Beams, Columns, Panels, GluLam Beams
- Flitch Beams

Construction Surveys

- Vertical / Horizontal Control
- Elevation Certificates

Earthwork

- Volume Assessment, Compaction

Water Resources

- Pipe Flow, Pipe Stress, Culvert Analysis
- Open Channels Flow, Pump Design
- Sewer Gravity Lines, Sewer Lift Stations
- Sewer Force Mains

Harbors/ Ports

- Piers /Docks -Open / Closed Construction
- Dolphins

Construction Management

- Lump Sum, Unit Price, Cost Plus Contracts
- Project Management,
- Construction Critical Path Scheduling,
- Claims / Change Orders
- Cost Estimating