



Civil, Structural and Architectural Engineering

One of ITAC's core strengths are civil and structural engineering and architectural planning for building design. We design industrial equipment supports, structures, access platforms, virtually all types of foundations, and plant infrastructure. Our engineers and designers are proficient with structural modeling and design tools such that structural loads, stresses, wind, earthquake, and other environmental factors are all built in to our design methodology. We offer professional civil and structural engineers with over 120 years of combined experience, and we take full responsibility for the integrity of our structural engineering deliverables.

We offer a wide array of services and resources:

CIVIL ENGINEERING & DESIGN EXPERTISE

- Application of appropriate sediment and erosion control measures and storm drainage control
- Site planning/layout and design services
- BMP and retention pond design and inspection

CIVIL ENGINEERING & DESIGN EXPERTISE

- Coordinating and locating new buildings or additions to minimize disruption to existing operations
- Collection of data to develop a space program to determine the space, furniture, equipment and special needs of a company for move-in and future growth
- Programming design of laboratories, wet labs, dry labs, combination labs, QA labs, special function labs, pilot plants, and laboratory support spaces
- Design application of building codes, accessibility requirements, and federal regulations

STRUCTURAL ENGINEERING & DESIGN EXPERTISE

- Steel and concrete design using Staad software package
- Heavy foundation design
- Pile and pile cap design
- Platforms and equipment access
- OSHA compliance and inspections
- Inspection and repair of damaged and deteriorated structures
- Vibration analysis for equipment supports
- Engineer of record services
- Monorail, hoist and equipment maintenance design services
- 3D layout and design of buildings and process structures

