



# SPECIALTY STRUCTURAL DESIGN & ANALYSIS

## STRUCTURAL EXPERIENCE

Plan B Engineering performs a wide range of consulting and engineering activities related to structural analysis and design with a focus on construction services. Structural engineering expertise includes:

- Historic methods of construction
- Codes and standards for temporary elements
- Techniques for structural stabilization
- Demolition operation, both selective and gross
- Stability analysis
- Design and detailing of systems for temporary use and reuse
- Contributing to committees formulating codes and standards
- Integration of premanufactured components with custom fabricated details and existing structures

We are Professionally Licensed as Structural Engineers in all states. Plan B Engineering maintains in-depth knowledge of codes and standards including AISC, ACI, AWS, ASME, ANSI, SIA, ASCE, ASTM, PCI, AISI, AFPA, ATC, NMCA, OSHA, IBC, FEMA, AASHTO and a host of local building codes and industry practices.

**Plan B Engineering is an accredited special inspection agency in compliance with ISO/IEC 17020:25012.**

## ADVANCED ANALYSIS

Plan B Engineering has experience with an array of tools to perform detailed structural analysis and design, including IES Visual Analysis, IES ShapeBuilder, RISA, SAP2000, SolidWorks, Tekla Tedds, and Hilti PROFIS. In addition, we perform 2D and 3D design through supplemental programs including AutoCAD, Revit, 3ds Max, Sketchup, the Adobe Suite, Navisworks, and Bluebeam Revu eXtreme.

## KEY SERVICES

Our engineers and designers have a wide range of skills and specialties to assist clients, including:

- Analysis, design and detailing of temporary structural systems
- Project-specific application engineering and detailing of temporary systems
- Advanced structural analysis of existing permanent and temporary systems including review of loads imposed from temporary to permanent structures.
- Demolition means, methods and procedures as part of alterations or gross demolition
- Construction administration and project management
- Peer review
- Code checks
- Special inspections related to structural stability and demolition
- Consultation on bidding during Design Development
- Vector and raster based 2D graphical visualization overlays and photo editing
- Photorealistic and schematic digital 3D modeling, rendering, and animation of both new and existing project conditions, equipment, and sequences
- Integration with project team BIM processes

Innovative Structural Engineering Solutions

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