



EDUCATION

- Illinois Institute of Technology
 - Bachelor of Science, Architectural Engineering, 2002
- University of Minnesota
 - Master of Science, Structural Engineering, 2004

PRACTICE AREAS

- Failure/Damage Investigations
- Stadiums and Arenas
- Repair and Rehabilitation
- Structural Analysis
- Historic Preservation

REGISTRATIONS

- Professional Engineer in IL
- Structural Engineer in IL

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction (AISC)
- Structural Engineers Association of Illinois (SEAOI)

CONTACT

cfreisinger@wje.com
312.372.0555
www.wje.com

EXPERIENCE

Since joining WJE, Christine Freisinger has been involved in the investigation, evaluation and repair of a variety of structures, including stadiums, chapels, high-rise buildings, and warehouses. Her projects have included documentation of the condition of existing structures, evaluation of structures under a variety of design and proposed loading conditions, and development of repair drawings. Ms. Freisinger's structural investigations have involved steel, timber, concrete and masonry structures. She has developed expertise in historic framing systems and experience modeling unique structures for review of strength and serviceability.

REPRESENTATIVE PROJECTS

Failure/Damage Investigations

- Aquascape Roof Collapse - Saint Charles, IL: Investigation of built-up tapered steel girders supporting a green roof
- Cora Texas Sugar Warehouse - Cora, TX: Investigation of warehouse collapse associated with Hurricane Gustav
- Weyerhaeuser Warehouse Roof Collapse - Bowling Green, KY: Investigation of bottom-flange bracing of continuous steel girders
- Continental Refrigerated Services - University Park, IL: Investigation of storage rack failure
- 10/120 South Riverside - Chicago, IL: Investigation of deterioration of plenum over train tracks
- 509 North Union - Chicago, IL: Investigation and temporary shoring of floor framing

Stadiums and Arenas

- Aloha Stadium - Honolulu, HI: Investigation of steel stadium for wind and seismic loads; investigation of steel stadium for replacement of concourse decks
- Aloha Stadium - Honolulu, HI: Structural repair of curved pedestrian bridges
- Arizona Cardinals Stadium - Phoenix, AZ: Investigation of reinforcing steel quantities in construction of stadium

Repair and Rehabilitation

- One North Dearborn - Chicago, IL: Design of a two-story monumental stair with reinforcement of existing historic steel columns
- One North State - Chicago, IL: Design of a monumental bleacher stair and modifications to an existing rooftop deck
- Prudential Plaza - Chicago, IL: Design of three-story monumental bleacher stair for a tenant buildout
- Aon Center - Chicago, IL: Design of interior stairs and miscellaneous steel supports for a tenant buildout for several adjacent floors
- CNA Center - Chicago, IL: Repair and coating of roof framing to support house rig
- Lakeview Presbyterian Church - Chicago, IL: Strengthening and repair of timber trusses
- Prudential Plaza - Chicago, IL: Investigation of roof framing for new roof deck; design of framing for installation of rooftop food truck and walk-in cooler
- Prudential Plaza - Chicago, IL: Investigation of lobby framing for lobby renovation project, including a signature canopy

Structural Analysis

- Duke University - Durham, NC: Investigation of Guastavino vaulted ceiling system supported on stone ribs
- U.S. Air Force Academy Cadet Chapel - Colorado Springs, CO: Analysis of existing structural system for recladding repairs
- Lyric Opera of Chicago - IL: Analysis of exterior multi-story temporary facade banners
- NBC Tower - Chicago, IL: Analysis of post-tensioned roof framing for house rig replacement
- Art Institute of Chicago, Ryerson Library - IL: Investigation of existing steel framing

Historic Preservation

- Gateway Arch - St. Louis, MO: Investigation of corrosion on stainless steel panels