



PERSONNEL QUALIFICATIONS

Noah J. Fehrenbacher | Senior Associate



EDUCATION

- Rose-Hulman Institute of Technology
 - Bachelor of Science, Civil Engineering, 2004
- University of Illinois at Urbana-Champaign
 - Master of Science, Civil Engineering, 2005

PRACTICE AREAS

- Building Assessments
- Computer-Aided Drafting
- Construction Observation and Inspection
- Failure Investigation
- Fiber-Reinforced Polymer (FRP)
- Load Testing
- Repair Design and Documents
- Stadiums and Arenas
- Structural Analysis

REGISTRATIONS

- ATC 20 Post Earthquake Evaluation Certification
- Professional Engineer in IN
- Structural Engineer in IL

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Indiana: President-elect
- Indiana Model Building Code Adoption Committee
- ASCE Committee on Adaptation to a Changing Climate

CONTACT

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EXPERIENCE

Noah Fehrenbacher joined WJE in 2006. His predominant areas of work include repair design, building assessments and structural analysis. Mr. Fehrenbacher has extensive experience in evaluating, analyzing and designing repairs for parking garages, masonry facades, concrete and steel structures, fiber-reinforced polymer (FRP) and tent and membrane structures. His work with FRP has included inspection, analysis as well as material and load testing.

Mr. Fehrenbacher has been involved with evaluating local building codes throughout the country. He has analyzed concrete, steel, wood, glass, and membrane structures. Prior to joining WJE, Mr. Fehrenbacher worked for the Indiana Department of Transportation and MS Consultants, Inc. During this time, he was involved in surveying, materials testing, computer-aided drafting, and bridge design.

REPRESENTATIVE PROJECTS

Structural Evaluation

- City Market and Old City Hall - Indianapolis, IN: Assessment of historic masonry structures
- Tall Mast Light Poles - Multiple Locations: Assessment of steel and concrete tall mast light poles at multiple locations.
- St. Vincent Parking Garage - Indianapolis, IN: Assessment of precast concrete parking garage

Construction Documents and Repairs

- Indianapolis International Airport Parking Garage - IN: Repairs to precast concrete connections
- Polk Place - Indianapolis, IN: Repairs to early 1900's era concrete and steel structure
- Palmer Elementary School - Chicago, IL: FRP and concrete repairs to 1920s era reinforced concrete school

Construction Observation and Inspection

- Indianapolis Heliport - IN: Repairs to reinforced concrete parking garage
- Ford Building - Indianapolis, IN: Conversion of reinforced concrete manufacturing facility to residential

- 1401 South State Street - Chicago, IL: High-rise reinforced concrete residential tower
- Chicago Midway Airport - Chicago, IL: Reinforcement of existing parking garage structure using FRP

Facade Assessment

- Indiana World War Memorial - Indianapolis: Historic landmark limestone memorial
- Marina Towers - Chicago, IL: High-rise reinforced concrete residential tower
- 350 West Mart - Chicago, IL: High-rise reinforced concrete commercial tower

Failure Investigation

- Woodland Hills and Catalpa Apartments - Dayton, OH: Investigation of tornado damage to wood-framed apartment buildings
- Ghent Generating Station - Ghent, KY: Investigation of fire damage to steel structure at a coal-fired power generating station
- Bridgeview Manufacturing Facilities - Bridgeview, IL: Investigation of wind damage to masonry and steel joist single-story structures

Load Testing

- Chicago Public Schools - IL: Testing of reinforced concrete structures prior to FRP strengthening

Stadiums and Arenas

- U.S. Cellular Field - Chicago, IL: Construction observation and structural analysis
- Soldier Field - Chicago, IL: Inspection and construction observation
- Louisiana State University Tiger Stadium - Baton Rouge: Investigation of construction claims
- Great American Ballpark - Cincinnati, OH: Materials testing
- Bankers Life Fieldhouse - Indianapolis, IN: Roof wind uplift calculations

Structural Analysis/Computer Modeling

- UniverSoul Circus - Various Locations: Nonlinear analysis of tent membrane; analysis of bleachers for assembly occupancy
- Chase Tower - Chicago, IL: Analysis of existing structure for changes in loading and framing