



## PERSONNEL QUALIFICATIONS

### Jonathan E. Lewis | Principal and Unit Manager



#### EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 1999
  - Master of Science, Structural Engineering, 2001

#### PRACTICE AREAS

- Bridges
- Failure/Damage Investigations
- Facade Access and Fall Protection Requirements
- Structural Analysis/Computer Applications
- Instrumentation/Monitoring/Load Testing
- Concrete Structures
- Structural Metals
- Facade Assessment

#### REGISTRATIONS

- Structural Engineer in IL

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Architectural Engineering Institute
- International Association for Bridge and Structural Engineers
- Structural Engineering Institute

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2001, Jonathan Lewis has been involved in a variety of structural investigations, condition assessments, repair designs, and peer reviews. He has performed structural analyses and assisted in the development of repairs for multiple notable structures across the country. Mr. Lewis has significant experience with structural analysis computer software programs and is proficient in finite element analysis. He has developed expertise in fall protection requirements for elevated work surfaces, as well as the evaluation and analysis of facade access equipment.

In addition to analysis and repair design, Mr. Lewis has provided repair phase services on a variety of projects, including building envelope repairs, structural modifications, and repairs to post-tensioned and conventionally reinforced parking structures.

#### REPRESENTATIVE PROJECTS

##### Bridges

- Poplar Street Complex - East St. Louis, IL: Seismic retrofit of elevated roadway
- Indiana Toll Road - Northern IN: Condition assessment and repair design for ten bridge structures
- Route 291 Missouri River Bridge - Liberty Bend, MO: Structural analysis and repair design for deteriorated gusset plates
- Illinois Department of Transportation - Cook County, IL: Gusset plate analysis and load rating of multiple bridge truss structures
- Illinois State Toll Highway Authority and Illinois Department of Transportation - IL: Erection engineering for multiple overpass structures

##### Failure/Damage Investigations

- I-35W Bridge over the Mississippi River - Minneapolis, MN: Investigation and structural analysis related to collapse
- Pick N' Save Store - Brookfield, WI: Investigation, analysis, and repair design following roof collapse
- Limited Express Stores - IL: Investigation of large mirror collapse and related construction defects

##### Facade Access and Fall Protection Requirements

- BMO Harris Bank Complex - Chicago, IL: Evaluation and load testing of existing facade access equipment
- One North Wacker Drive - Chicago, IL: Evaluation, structural analysis, and load testing of facade access equipment
- 135 South LaSalle Street Building - Chicago, IL: Design and load testing of new dedicated roof anchorages for facade access equipment

##### Structural Analysis/Computer Applications

- Phoenix Suns Arena - Phoenix, AZ: Analysis of roof-framing system
- Wrigley Field - Chicago, IL: Condition survey and structural analysis performed for the Chicago Cubs
- University of Nebraska-Lincoln - Lincoln, NE: Analysis of new athletic center and stadium addition
- Chicago Transit Authority - Chicago, IL: Structural analysis and load rating of multiple early 1900s concrete viaducts

##### Facade Assessment

- Franklin Center - Chicago, IL: Water leakage investigation and repair of granite panels
- InterContinental Chicago Hotel - Chicago, IL: Investigation and repair of distressed limestone facade and parapets
- Fairmont Chicago Hotel - Chicago, IL: Investigation and repair design for cracked granite panels