



## PERSONNEL QUALIFICATIONS

### Matthew W. Jarrett | Senior Associate



#### EDUCATION

- University of Illinois at Urbana-Champaign
  - Bachelor of Science, Civil Engineering, 2013
  - Master of Science, Structural Engineering, 2015

#### PRACTICE AREAS

- Bridges and Civil Infrastructure
- Structural Analysis/Computer Applications
- Failure/Damage Investigations

#### REGISTRATIONS

- NHI Course 130055 - Safety Inspection of In-Service Bridges
- NHI Course 130078 - Fracture Critical Inspection Techniques for Steel Bridges
- Professional Engineer in IA, ID, IL, IN, and OR
- Structural Engineer in IL

#### PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- American Society of Civil Engineers

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2015, Matthew Jarrett has been involved in the inspection, evaluation, and rehabilitation of wood, steel, and concrete structures. He has participated in numerous inspections of many different bridge types across several U.S. states and has performed numerous large- and small-scale computer analyses of bridge and building structures. Mr. Jarrett has also participated in the evaluation and analysis of the erection and demolition of various steel structures, as well as the investigation of damaged and failed structures.

Prior to joining WJE, Mr. Jarrett worked as a construction engineering consultant and a graduate research assistant specializing in the analysis of superstructures of integral abutment bridges.

#### REPRESENTATIVE PROJECTS

##### Bridges and Civil Infrastructure

- Concrete Culvert Inspections - Various Locations, IL: In-depth inspection of cast-in-place and precast concrete culverts
- East Chicago Bascule Bridges - East Chicago, IN: In-depth and fracture critical inspection of two steel plate girder bascule bridges
- Indiana SR-46 - Columbus, IN: In-depth and fracture critical inspection of cable-stayed bridge
- Iowa 926 Bridge - Webster County, IA: In-depth and fracture critical inspection of steel truss bridge
- O'Hare International Airport - Chicago, IL: Pedestrian canopy inspection
- Timber Pedestrian Bridge Inspection - Bloomingdale, IL: In-depth inspection of bridge superstructure and substructure
- U.S. 20, Julien Dubuque Bridge - Dubuque, IA: In-depth and fracture critical inspection of steel plate girder bridge
- U.S. 34, Bridge Over the Missouri River - Mills County, IA: In-depth and fracture critical inspection of steel plate girder bridge

##### Structural Analysis/Computer Applications

- Bridge-Bearing Replacement Procedures - Various Locations, U.S.: Development and analysis of bridge-bearing replacement procedures of multiple-span steel beam bridges
- Bridge Girder Erection Procedures - Various Locations, U.S.: Stability analysis and review of steel girder and precast-prestressed concrete bridge beam erection procedures
- Fun Farm Bridge - St. Anthony, ID: Load rating of steel truss bridge
- Leo Frigo Memorial Bridge - Green Bay, WI: Analysis of tied-arch system for cable replacement
- Open Grid Steel Bridge Deck - Boston, MA: Finite element modeling and analysis of steel bridge deck members
- Springfield Avenue Pump Station - Chicago, IL: Computer modeling and analysis of building structure during demolition procedures
- Steel Girder and Bent Cap Analysis - Dallas, TX: Analysis of plate girder and bent cap connections for steel two-girder bridge

##### Failure/Damage Investigations

- Embankment Failure - Skokie, IL: On-site inspection of damaged embankment for subsurface construction project