

Benjamin R. Barben | Senior Associate



EDUCATION

- The Pennsylvania State University
 - Bachelor of Architectural Engineering, Structures Option, 2010
 - Master of Architectural Engineering, Structures Option, 2010
 - Minor in Architecture Studies, 2010

PRACTICE AREAS

- Bridges and Civil Infrastructure
- Failure/Damage Investigations
- Historic Preservation
- Instrumentation/Monitoring/Load Testing
- Repair and Rehabilitation
- Wood Structures

REGISTRATIONS

- Professional Engineer in DC, MD, and VA

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction

CONTACT

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EXPERIENCE

Benjamin Barben joined WJE in 2016 with a primary focus on structural assessment and evaluation, as well as structural vibration investigation services. He has performed structural investigations, structural repairs and rehabilitation services, structural vibration services, and construction observation services for concrete repairs.

Prior to joining WJE, Mr. Barben worked at Gannett Fleming in Camp Hill, Pennsylvania, where he was a structural designer concentrating on the design of steel structures and steel connections. As a graduate research assistant, he focused on vibration serviceability of structures that house advanced nanotechnology instruments.

REPRESENTATIVE PROJECTS

Bridges and Civil Infrastructure

- St. Joseph's Healthcare, Critical Care Building - Paterson, NJ: Third-party review of shear and moment connections; design of braced frame steel connections *
- Grand Station - Chicago, IL: Third-party review of shear and moment connections *
- General Motors Plant Expansion - Baltimore, MD: Design of shear, moment, and braced frame steel connections *
- University of Scranton, Residence Hall - PA: Third-party review of shear and moment connections; design of braced frame steel connections *
- Tunnel Inspections - Washington, D.C.: Condition assessment and evaluation of delamination *
- Penn State Hershey Children's Hospital - PA: Submittal review and construction period services for structural steel superstructure *

Failure/Damage Investigations

- Washington Commanders Training Facility - Ashburn, VA: Investigation of inflatable training facility collapse

Historic Preservation

- Virginia General Assembly Building - Richmond: Condition assessment of limestone facade

Instrumentation/Monitoring/Load Testing

- Council Rock Middle School - Holland, PA: Experimental testing and data collection of a library floor susceptible to vibrations *
- Hammond Building - University Park, PA: Experimental testing and data collection of a second-floor laboratory space *

Repair and Rehabilitation

- Milford Mill Academy - Baltimore, MD: Evaluation of existing structural conditions and design of brick masonry walls and structural steel beams for renovations *
- Pennsylvania Department of Transportation Building - Harrisburg: Assessment and evaluation of various deficient structural components; design of retrofitted steel connections and steel members for renovations *
- SEPTA City Hall Station - Philadelphia, PA: Design of retrofitted connections, evaluation of existing structural conditions, and design of structural elements for renovations *
- Vantage at Merrifield - Falls Church, VA: Submittal review and construction observation and documentation
- Shockoe Bottom Crest Gates - Richmond, VA: Evaluation of existing structural conditions and design of retrofits
- Shockoe Bottom Emergency Gate - Richmond, VA: Evaluation of existing structural conditions and design of retrofits

Wood Structures

- Hampstead Water System Services - MD: Structural condition assessment and evaluation of wood mezzanine in a storage building *

* Indicates with previous firm