PERSONNEL QUALIFICATIONS

Kelsey E. Sheridan | Senior Associate

EDUCATION

- Lehigh University
  - Bachelor of Science, Civil Engineering, 2012
  - Master of Engineering, Structural Engineering, 2013

PRACTICE AREAS

- Failure/Damage Investigations
- Repair and Rehabilitation
- Facade Assessment
- Concrete Structures
- Bridges
- Structural Analysis

REGISTRATIONS

- California OES Safety Assessment Program Certified
- Professional Engineer in DC, MD, and VA

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction
- American Society of Civil Engineers
- Architectural Engineering Institute, student outreach chair

CONTACT

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EXPERIENCE

Since joining the Washington, D.C. office in 2013, Kelsey Sheridan has gained extensive experience working on structural evaluations, collapse investigations, load testing, and repair/remediation of new and existing buildings and bridges. Ms. Sheridan has worked on a broad range of projects, including post-tensioned, precast, and conventionally reinforced concrete structures; wood-framed, light gauge metal structures; structural steel structures; pre-engineered buildings and building components; and concrete and brick masonry wall systems. Her work has included the development of drawings and specifications as well as on-site construction observations during repair implementation.

REPRESENTATIVE PROJECTS

Failure/Damage Investigations

- Wood Truss Failure Investigation - College Park, MD: Investigation and structural analysis of existing metal plate connectors and wood truss members
- Precast Parking Garages - Various Locations, VA: Investigation of concrete cracking
- File Storage Warehouse - Landover, MD: Structural analysis and investigation of progressive collapse
- Flower Branch Apartments - Silver Spring, MD: Investigation of wood-framed apartment building after partial collapse
- St. Charles at Olde Court - Milford Mill, MD: Evaluation of roof trusses after deflection due to snow load
- Glass Breakage - Washington, D.C.: Investigation of glass breakage during construction of curtain wall

Repair and Rehabilitation

- Washington National Cathedral - Washington, D.C.: Post-earthquake facade assessment, development of repair documents, and on-site quality assurance of repairs
- 7799 Leesburg Pike - Fairfax, VA: Evaluation and design of supplemental steel anchors for precast panel facade elements
- Saint Elizabeths Hospital - Washington, D.C.: Assessment and design of repairs to exterior envelope (roofs, masonry, windows, blast resistant upgrades) as part of an adaptive reuse of the campus

Facade Assessment

- Hotel Monaco - Washington, D.C.: Engineering services and observations of marble facade repairs
- Draper Elementary School - Washington, D.C.: Condition assessment of composite concrete masonry unit and brick masonry facade

Concrete Structures

- Airport Roadway Tunnels - Buffalo, NY: Condition assessment and materials testing of tunnels located beneath airport runway
- 11320 Random Hills Garage - Fairfax, VA: Condition assessment and development of repair documents for below-grade concrete garage repairs
- Vantage at Merrifield - Fairfax, VA: Condition assessment and development of repair documents for post-tensioned concrete balconies
- Silver Spring Transit Center - MD: Field investigation related to the performance of a post-tensioned concrete structure
- LNG Reservoir Assessment - Cameron, LA: Condition assessment of concrete tanks and support structure

Bridges

- Steel Rail Bridges - Washington, D.C.: Visual inspection and magnetic particle testing of welds and ultrasonic testing of welds
- Nottoway Reservoir Bridge - Nottoway County, VA: Condition assessment, instrumentation, materials testing, and service life modeling of concrete substructure and steel superstructure

Structural Analysis

- Georgetown University - Washington, D.C.: Investigation and structural capacity evaluation of below-grade concrete roof slabs for construction loads
- Edison Place - Washington, D.C.: Feasibility study and structural analysis of existing post-tensioned concrete roof for installation of solar panels
- Planet Fitness - Alexandria, VA: Condition assessment and structural analysis of steel joists
- University of the Potomac - Falls Church, VA: Investigation and structural capacity evaluation of concrete floor slabs