PERSONNEL QUALIFICATIONS

Travis P. Green | Principal

EDUCATION

- University of Kansas
  - Bachelor of Science, Architectural Engineering, 1998
- Georgia Institute of Technology
  - Master of Science, Civil Engineering, 2000

PRACTICE AREAS

- Collapses
- Structural Analysis
- Instrumentation/Monitoring/ Load Testing
- Precast/Prestressed/Post-Tensioned Concrete
- Repair and Rehabilitation
- Nondestructive Evaluation

REGISTRATIONS

- NHI Course 130055 - Safety Inspection of In-Service Bridges
- NHI Course 130078 - Fracture Critical Inspection Techniques for Steel Bridges
- Professional Engineer in DC, FL, GA, MD, NC, VA, and WV
- Structural Engineer in GA

PROFESSIONAL AFFILIATIONS

- American Institute Steel Construction
- American Welding Society

CONTACT

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EXPERIENCE

Since joining WJE in 2000, Travis Green's experience has included structural investigations, evaluations, load tests, and repair designs for low- and high-rise commercial buildings and parking structures. His work has involved post-tensioned, precast, and conventionally reinforced concrete structures; wood-framed, aluminum, and light-gauge metal structures; structural steel structures; pre-engineered buildings and building components; and concrete and brick masonry wall systems. Mr. Green's analytical work includes extensive use of computer models for research and analysis of new and existing structural systems.

Prior to joining WJE, Mr. Green worked for an architect, at a precast concrete plant, and as a research assistant at the University of California at Los Angeles. He was awarded a year-long scholarship to study architecture at Heriot-Watt University in Edinburgh, Scotland. While a research assistant at the Georgia Institute of Technology, he performed large-scale experimental testing on partially restrained composite, beam-to-column connections. Mr. Green is a certified Bridge Construction Inspection Instructor.

REPRESENTATIVE PROJECTS

Collapses

- City of Snellville Billboards - GA: Structural investigation and repair recommendations for steel billboards
- Fisher's Place Parking Garage - Rockville, MD: Structural investigation and analysis of precast concrete parking garage collapse
- R.L. Sutton Water Reclamation Facility - Smyrna, GA: Structural investigation and analysis of concrete formwork collapse
- Watergate Parking Garage - Washington, D.C.: Structural investigation of two-way pan joist system

Structural Analysis

- Precast Rail Bridge - Alexandria, VA: Analysis to determine construction sequencing
- Concrete Structure - Washington, D.C.: Finite element analysis using shells, frames, solid elements, post-tensioning, and moving loads

Instrumentation/Monitoring/Load Testing

- FHWA, Turner-Fairbank Highway Research Center - McLean, VA: Load testing of seventy-foot-long, deteriorated, prestressed concrete box beam from NYSDOT
- Lowe's Motor Speedway - Concord, NC: Structural analysis, load testing, repair design, and construction observation of grandstand beams
- Herbert C. Bonner Bridge - Oregon Inlet, NC: Visual inspection, nondestructive testing, instrumentation, and load testing

Precast/Prestressed/ Post-Tensioned Concrete

- Leonard P. Zakim Bridge - Boston, MA: Detailed inspection and finite element analysis of stay-cable bridge
- Oklahoma Bridges - Oklahoma City: Specialized inspection of eighteen post-tensioned bridges and remedial grouting repair installation

Repair and Rehabilitation

- Raleigh-Durham International Airport Parking Garage 3 - NC: Structural investigation and analysis, repair design, and construction observation of post-tensioned beam and floor slab systems
- SWFLANT Vertical Missile Processing Facility - King's Bay, GA: Structural investigation and analysis, repair design, and construction observation
- University Arena - College Park, MD: Structural investigation and analysis, repair design, construction observation, and load testing of cantilevered concrete beams

Nondestructive Evaluation

- Steel Rail Bridges - Washington, D.C.: Visual inspection and magnetic particle testing of welds and ultrasonic testing of anchor rods
- Calvert Cliffs Storage Building - Lusby, MD: Ultrasonic pulse velocity testing to identify concrete voiding and honeycombing
- Steamboat Hills Bridge - Reno, NV: Ultrasonic survey to delineate post-tensioning related spall

TECHNICAL COMMITTEES

- AWS D1.8 Seismic Supplement Advisor
- AWS D1.1 Design Task Group, vice chair
- AWS D1.7 Strengthening and Repair, chair