

### Casey R. Jones | Associate III



#### EDUCATION

- Purdue University
  - Bachelor of Science, Civil Engineering, 2013
- Texas A&M University
  - Master of Science, Civil Engineering, 2015

#### PRACTICE AREAS

- Bridges and Civil Infrastructure
- Nondestructive Evaluation
- Repair and Rehabilitation
- Construction Troubleshooting
- Failure/Damage Investigations
- Structural Analysis
- Instrumentation/Monitoring/Load Testing

#### REGISTRATIONS

- ASBI Grouting Training
- NACE Certified Coating Inspector - Level 1 (with Bridge Specialty)
- NHI Course 130055 - Safety Inspection of In-Service Bridges
- NHI Course 130078 - Fracture Critical Inspection Techniques for Steel Bridges
- Professional Engineer in AZ and TX

#### PROFESSIONAL AFFILIATIONS

- NACE International
- Structural Engineers Association of Texas (SEAoT)

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2015, Casey Jones has performed assessments, evaluations, and rehabilitations of a variety of existing bridges, buildings, and other infrastructure. His projects include investigations and repair design of distressed concrete structures, corroded steel structures, and foundation settlement problems. Mr. Jones' experience also includes both destructive and nondestructive field testing of structural systems.

Prior to joining WJE, Mr. Jones worked as a graduate research assistant investigating the use of several nondestructive evaluation (NDE) techniques to perform condition assessment of bridge post-tensioning and stay cable systems. NDE methods evaluated by Mr. Jones in this research included ground penetrating radar, infrared thermography, ultrasonic tomography, and magnetic flux leakage.

#### REPRESENTATIVE PROJECTS

##### Bridges and Civil Infrastructure

- Austin Avenue Bridges - Georgetown, TX: Condition assessments of two steel girder bridges
- Port of Houston Wharves - Houston, TX: Structural assessment of multiple ship wharves
- SH 99 Overpass - Houston, TX: Investigation of prestressed concrete girder damaged during construction
- Various Bridges - Houston, TX: Initial safety inspections

##### Nondestructive Evaluation

- Compressor Support Structure - Freeport, TX: Evaluation of potential voiding in concrete tabletop structure
- CHI St. Luke's Health - The Woodlands, TX: Evaluation of distressed slabs
- Ship Mooring Structure - Port Arthur, TX: Evaluation of potential voiding in concrete structure

##### Repair and Rehabilitation

- Multibuilding Condominium - Orlando, FL: Assessment of water damage in fifteen-building condominium complex

- Texas Children's Hospital - Houston, TX: Design of structural bracing for existing curtain wall systems
- U.S. Bank Parking Garage - Milwaukee, WI: Assessment of flange connections between precast double-tee elements
- Washington University Parking Garage - St. Louis, MO: Development of garage repair drawings and specifications

##### Construction Troubleshooting

- Mustang Cat Facility - Houston, TX: Concrete tilt-up wall panel repairs incorporating cathodic protection
- White Creek Apartments - College Station, TX: Structural repairs of five-story wood-framed buildings
- Staybridge Suites - Houston, TX: Structural repairs of metal-plate connected wood trusses
- Various Buildings - Denver, CO: Repairs of precast column and wall panel joints

##### Structural Analysis

- 1801 Main Parking Garage - Houston, TX: Analysis of garage deck, superstructure, and vehicular barrier system
- Federal Reserve Bank - Phoenix, AZ: Analysis of existing roof structure for installation of photovoltaic solar panels
- One Oakbrook Terrace - Chicago, IL: Development of shoring plan during concrete repairs
- Parc IV & V Condominiums - Houston, TX: Evaluation of existing steel support structures for rooftop cooling tower units

##### Instrumentation/Monitoring/Load Testing

- 1801 Main Parking Garage - Houston, TX: Instrumentation and load testing of garage deck to determine code compliance
- Capitol Tower Parking Garage - Houston, TX: Tension testing of prestressed vehicular barrier cables
- Edwards Elementary School - Chicago, IL: Instrumentation and load testing of roof structure
- Palo Verde Nuclear Generating Station - Tonopah, AZ: Load testing of precast deck anchors on cooling towers