



## PERSONNEL QUALIFICATIONS

# Stephen Foster | Senior Associate and Associate Unit Manager



### EDUCATION

- University of Texas at Austin
  - Bachelor of Science, Architectural Engineering, 2008
  - Master of Science, Architectural Engineering, 2010

### PRACTICE AREAS

- Condition Assessment
- Repair and Rehabilitation Design
- Construction Documents and Specifications
- Construction Observation Services
- Corrosion Protection
- Failure Investigation
- Historic Preservation
- Litigation Consulting

### REGISTRATIONS

- NACE Certified Coating Inspector - Level 2
- NHI Course 130078 - Fracture Critical Inspection Techniques of Steel Bridges
- Professional Engineer in FL and TX

### CONTACT

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### EXPERIENCE

Since joining WJE in 2010, Stephen Foster has been involved in the evaluation, design, and rehabilitation of numerous engineering projects, including concrete, steel, wood, and masonry structures. He has performed assessments related to corrosion distress, design and construction deficiencies, foundation-related movement, and leakage distress. Mr. Foster is experienced with preparing construction documents and has performed construction administration work on several repair projects, including experience with numerous field testing and ASTM procedures. He also has experience and specialized NACE training for assessment, specification, and quality assurance inspection of concrete and steel coating systems.

Prior to joining WJE, Mr. Foster worked as a graduate research assistant investigating the optimization of bridge deck reinforcement for a research project sponsored by the Texas Department of Transportation. While at the University of Texas, he worked as a field engineer with a general contractor and as a structural designer with an architectural engineering firm.

### REPRESENTATIVE PROJECTS

#### Condition Assessment

- Cooling Tower Basin - Austin, TX: Condition assessment and nondestructive evaluation of corrosion-induced concrete distress
- Seabrook Station - Seabrook, NH: Condition assessment of cracking in equipment vault
- Turning Basin Terminal - Port of Houston, TX: Condition assessment and nondestructive evaluation of concrete docks
- IH 345 - Dallas, TX: Condition assessment of post-tensioned bridge deck

#### Repair and Rehabilitation Design

- Palo Verde Water Reclamation Facility - Tonopah, AZ: Design of repair and rebuild documents for comprehensive concrete repair and maintenance plan
- Regional Water Treatment Plant - Cedar Park, TX: Concrete and coating repairs for poor construction and water leakage
- Second Street Parking Garage - Austin, TX: Traffic coating repairs

### Construction Observation Services

- County Administration Building - Houston, TX: Quality control inspections and testing of carbon fiber repairs
- Army Medical Hospital - Killeen, TX: Construction observations of concrete column repairs
- Navajo Generating Station - Page, AZ: Inspection of boiler system scaffold installation

### Corrosion Protection

- Parking Garage - Houston, TX: Design and construction observation of thermal spray metalizing of chloride-induced corrosion
- Barbours Cut Terminal - La Porte, TX: Design and construction observation of cathodic protection jackets and thermal spray metalizing for piers

### Failure Investigation

- Organic Dairy Barn - Paul, ID: Investigation of steel roof truss failure
- Fertilizer Plant Explosion - West, TX: Assessment of various structures subject to blast wave
- Precast Plant - San Marcos, TX: Investigation of prestressing assembly failure

### Historic Preservation

- French Legation Museum (circa 1899) - Austin, TX: Structural evaluation and rehabilitation design of wood structural systems
- Lee County Courthouse (circa 1840) - Giddings, TX: Foundation stabilization and structural repairs
- Williamson County Courthouse (circa 1911) - Georgetown, TX: Condition assessment and rehabilitation design of historic masonry

### PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- International Concrete Repair Institute
- National Association of Corrosion Engineers