### PERSONNEL QUALIFICATIONS



# Zachary Gates | Associate III



### **EDUCATION**

- North Carolina State University
  - Bachelor of Science, Civil Engineering, 2011

### **PRACTICE AREAS**

- Building Enclosure Commissioning
- Building Science
- Design Review
- Failure/Damage Investigations
- Roofing and Waterproofing

### **REGISTRATIONS**

 Building Enclosure Commissioning Process Provider (BECxP)

## **PROFESSIONAL AFFILIATIONS**

- American Society of Civil Engineers
- American Society of Heating, Refrigeration, and Air Conditioning Engineers
- American Society of Hospital Engineers
- Building Enclosure Council -Dallas Chapter
- International Institute of Building Enclosure Consultants - North Texas Chapter

### **CONTACT**

zgates@wje.com 770.923.9822 www.wje.com

#### **EXPERIENCE**

Zachary Gates is an engineer-in-training working at the intersection of building science and construction. His practice includes investigation of failures and repair design for various facade and building enclosure systems, as well as new construction consulting.

Mr. Gates' experience includes a broad range of buildings, including high- and mid-rise multifamily, office, hospital, government, and education facilities. He is experienced with various cladding systems, including portland cement plaster (stucco), EIFS, masonry veneer, historic mass masonry, composite metal panels, glazed aluminum curtain wall and window systems, and panelized cladding systems.

Mr. Gates also designs repairs for existing roof installations and consults on the new design of various roofing systems. He has experience with multiple roofing systems, including single- and multi-ply and metal roofing. Mr. Gates also evaluates and designs below-grade waterproofing systems, having served as the warranty conformance observer for several large-scale projects.

### **REPRESENTATIVE PROJECTS**

### **Building Enclosure Commissioning**

University of Texas Southwestern Medical Center, Clements University Hospital, Third Tower - Dallas: Design review and Owner's field representative for below-grade waterproofing, curtain wall, punched windows, precast panels, air barrier, metal panels, and built-up roof assemblies

### **Building Science**

- 900 East Park Boulevard Plano, TX: Ongoing instrumentation, monitoring, and modeling of hygrothermal performance of county office building
- St. Francis Parish Church Oklahoma City,
  OK: Hygrothermal analysis of replacement roof assembly options
- Prestonwood Place Dallas, TX: Hygrothermal analysis of replacement wall assemblies for office building exterior rehabilitation

### **Design Review**

- Dallas County Records Complex TX:
  Enclosure peer review services and construction phase services for general contractor
- Pavilion Phase III Dallas, TX: Enclosure peer review services and construction phase services for medical office development
- Atelier Lofts Dallas, TX: Enclosure peer review services and construction phase services for high-rise residential development
- Reeves County Hospital District Midland, TX:
  Enclosure peer review services and construction phase services for new hospital
- Texas Health Denton Center for Women -Denton: Enclosure peer review services and construction phase services for hospital expansion

### Failure/Damage Investigations

- University of Houston TX: Hurricane damage roof and facade assessments of nine buildings on campus
- First Baptist Church Sulphur, LA: Investigation of roofing system failures from Hurricane Laura
- Aransas County Independent School District -Rockport, TX: Investigation of hurricane damage, repair design, and construction phase services for several buildings

### **Roofing and Waterproofing**

- Oklahoma State University Medical Center,
  Oklahoma Osteopathic Hospital Tulsa:
  Condition assessment, repair design, and
  construction administration for roof and
  facades of historic hospital
- Globe Life Field Arlington, TX: Design review and warranty conformance observations for waterproofing systems
- NorthPark Center Dallas, TX: Leak investigations, repair design, and construction observation for roof and facade replacement
- Parkland Health System Dallas, TX: Roof replacement design and construction administration for administrative building
- Market-Ross Place Dallas, TX: Construction phase services for historic masonry repair and window replacement

