



PERSONNEL QUALIFICATIONS

Matthew P. Carlton | Principal and Unit Manager



EDUCATION

- University of Texas at Austin
 - Bachelor of Science, Civil Engineering, 1993
 - Master of Science, Civil Engineering, 1995

PRACTICE AREAS

- Building Enclosure Consulting
- Peer Review
- Repair and Rehabilitation
- Collapses
- Historic Preservation
- Litigation Consulting
- Structural Assessment

REGISTRATIONS

- Professional Engineer in AR, CO, LA, MI, NM, OK, and TX

PROFESSIONAL AFFILIATIONS

- Building Enclosure Council (BEC), Austin Chapter, founding member
- Structural Engineers Association of Texas (SEAoT), former Austin Chapter president

TECHNICAL COMMITTEES

- ASTM Committee C11 - Gypsum and Related Building Materials and Systems

CONTACT

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EXPERIENCE

Joining WJE in 1995, Matthew Carlton has spent his career solving problems for a wide variety of structural and building enclosure systems. He has served as the project manager for numerous projects involving construction and design defects, materials failures, collapses, and aging and deterioration. His work has included evaluation and repair design for concrete, steel, masonry, and wood structures, as well as many types of architectural cladding and waterproofing. Mr. Carlton has worked on commercial and office buildings, low- and high-rise residential, civic and historic buildings, in addition to bridges, stadiums, and civil infrastructure.

Mr. Carlton's experience with building enclosures has included assessments, peer reviews, and repair designs for windows, curtain walls, stone cladding, brick masonry, precast concrete, stucco, and EIFS, as well as roofing and waterproofing for plazas and below-grade applications. He has also had the opportunity to work on several historic projects, gaining experience with load-bearing masonry, archaic materials, and historic preservation requirements.

REPRESENTATIVE PROJECTS

Building Enclosure Consulting

- Texas Law Center - Austin: Curtain wall assessment and repair design
- Robert D. Moreton State Office Building - Austin, TX: Assessment of distress in precast wall panels and consultation on recladding design
- University of Texas at Austin (UT Austin), Ernest Cockrell, Jr. Hall: Design of facade repairs to address brick cladding distress
- Joint Base-San Antonio, MacKown Dental Clinic - TX: Building enclosure commissioning

Peer Review

- Austin City Hall - TX: Peer review and consulting during design
- UT Austin, Dell Medical School: Peer review and consulting during construction
- Tomochichi Federal Courthouse Annex, Savannah, GA: Design peer review and consulting during construction

- Texas Capitol Complex - Austin, TX: Peer review and consulting for new underground garage and two new state office buildings

Repair and Rehabilitation

- Austin Radisson Ballroom Renovation - TX: Design of innovative approach to allow for removal of multiple interior columns
- Fort Bliss, 127th Aviation Support Battalion, Apache Maintenance Hangar - El Paso, TX: Assessment and repair design to address foundation settlement caused by inundation of subgrade soils
- Edinburg High School - TX: Design of repairs to load-bearing masonry walls

Collapses

- Miami-Dade College Parking Garage - Doral, FL: Investigation of precast concrete parking garage that collapsed during construction
- Thermon Manufacturing - San Marcos, TX: Investigation of pre-engineered steel building which collapsed during erection

Historic Preservation

- San Jacinto Museum of History - La Porte, TX: Assessment of stone cladding on monument's star and evaluation of repair repairs
- Texas Governor's Mansion - Austin: Assessment of fire damage to historic brick masonry
- Mission San Antonio de Valero (The Alamo) - San Antonio, TX: Independent evaluation of roof slab in the "Monk's Burial Room"
- French Legation - Austin, TX: Assessment and repair design of historic residence of French chargé d'affaires to the Republic of Texas to address foundation movement and wood framing distress

Litigation Consulting

- Benteler Pipe Mill - Shreveport, AR: Leakage investigation and litigation consulting for below-grade electrical vaults
- Hotel Van Zandt - Austin, TX: Investigation, expert testimony, and repair design for leakage and distress at windows and stucco cladding in high-rise hotel
- State Veterans Home - Amarillo, TX: Collapse investigation and replacement design for exterior light poles, as well as litigation consulting