PERSONNEL QUALIFICATIONS

Craig E. Quadrato | Associate Principal

EDUCATION

- US Military Academy at West Point
  - Bachelor of Science, Civil Engineering, 1991
- University of Missouri
  - Master of Science, Engineering Management, 1995
- Stanford University
  - Master of Science, Structural Engineering, 2001
  - Master of Science, Construction Engineering Management, 2001
- University of Texas at Austin
  - Doctor of Philosophy, Structural Engineering, 2010

PRACTICE AREAS

- Concrete Structures
- Masonry
- Structural Metals
- Wood Structures
- Litigation Consulting

REGISTRATIONS

- Professional Engineer in LA, MO, and TX

PROFESSIONAL AFFILIATIONS

- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE)
- Structural Stability Research Council (SSRC)

CONTACT

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EXPERIENCE

Craig Quadrato brings more than thirty years of experience as a civil/structural engineer in concrete structure assessment and repair design; analysis and design of wood, masonry, and steel structures; heavy civil and roadway design; and engineering education.

Prior to joining WJE, Dr. Quadrato served for more than twenty-five years as a United States Army Engineer Officer, serving his last six years as an academy professor in the US Military Academy's Department of Civil and Mechanical Engineering. He was deployed worldwide, supporting US and coalition forces by designing and managing the construction of roads, forward operating bases, and support facilities. Dr. Quadrato also led US Army engineering design and construction units engaged in numerous projects in the United States and served as a consultant for the US Department of Defense's industrial base modernization program.

REPRESENTATIVE PROJECTS

Concrete Structures

- Port San Antonio, Robot Warehouse - TX: Evaluation of existing concrete taxiway and overlay design for pre-engineered metal building foundation and roadway
- Tower of the Americas - San Antonio, TX: Concrete shaft assessment
- Alamo Visitors Center - San Antonio, TX: Nondestructive evaluation and documentation of existing reinforcement
- Ripley's Believe It or Not! - San Antonio, TX: Concrete floor vibration study
- Haven for Hope Resource Center - San Antonio, TX: Distress documentation, member strength analysis, and subsurface water infiltration investigation
- Rivera Apartments Parking Garage - San Antonio, TX: Distress documentation and repair design for post-tensioned concrete beams
- Lee County Annex Building - Giddings, TX: Assessment of foundation and water infiltration remediation plans

Masonry

- Coker Elementary School - San Antonio, TX: Chimney damage assessment and conceptual repair recommendations
- Lubrizol Pump House - San Antonio, TX: New pump house for fire protection system
- San Antonio Water Systems - TX: Lateral load resisting system analysis and reinforcement repair design for water distribution facility
- Pressure Swing Adsorption (PSA) Pump House - San Antonio, TX: New pump house design for wet and foam fire suppression systems

Structural Metals

- Fire Damage Assessment - San Antonio, TX: Industrial steel-framed building assessment and repair design for post-fire repairs
- Tower of the Americas - San Antonio, TX: Top house structural steel assessment and identification of primary structural system
- PSA Hangars/Buildings 1610 and 1612 - San Antonio, TX: Main truss and secondary member analysis; strengthening design for wet and foam fire protection retrofit
- Cool Crest Miniature Golf Course - San Antonio, TX: Steel sign frame with posts and foundation repairs
- US Nationwide Call Center - San Antonio, TX: Fall protection anchor certification

Wood Structures

- Texas Health and Human Services, All Faiths Chapel - Austin, TX: Glulam bent repair
- Residences at La Cantera - San Antonio, TX: Assessment and analysis of balcony truss plate connections
- Oscar Eason Senior Living Facility - San Antonio, TX: Strengthening of metal plate-connected trusses

Litigation Consulting

- Multiuse Complex - Alice, TX: Indoor and outdoor pool and concrete flatwork distress
- McKeever Elementary School - Alamo, TX: Site drainage at foundation and steel structural framing
- Rio Grande City High School - Rio Grande City, TX: Lateral load resisting system and cladding support
- Acelity Headquarters Building - San Antonio, TX: Foundation distress documentation, movement monitoring, and exterior perimeter drain design

TECHNICAL COMMITTEES

- ASCE UTSA Student Chapter, prac. advisor
- Structural Stability Research Council, chair