PERSONNEL QUALIFICATIONS

Brett Brunner-Caple | Senior Associate

EDUCATION

- U.S. Air Force Academy
  - Bachelor of Science, Civil Engineering, 2013
- University of Florida
  - Master of Science, Structural Engineering, 2014

PRACTICE AREAS

- Structural Analysis
- Failure/Damage Investigations
- Repair and Rehabilitation
- Facade Assessment and Repair
- Leakage Investigation
- Construction Troubleshooting
- Litigation Consulting

REGISTRATIONS

- Professional Engineer in AZ, FL, and TX
- Texas Department of Insurance, Qualified Windstorm Inspector

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Society of American Military Engineers

CONTACT

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EXPERIENCE

Brett Brunner-Caple joined WJE in 2018, bringing with him five years of experience in the areas of structural analysis and assessment, steel and concrete design, and engineering and construction management. Before joining WJE, Mr. Brunner-Caple served five years as a United States Air Force Civil Engineer Officer. In his last two years in the Air Force, he served as the F-35 Project Management Chief at Eielson Air Force Base in Alaska, overseeing design and construction projects for infrastructure needed to support a fleet of new F-35 aircraft. He also spent a summer in the Philippines serving as the construction team commander for a humanitarian mission to repair earthquake-damaged and aging schools.

Since joining WJE, Mr. Brunner-Caple has been engaged with forensic investigations and building assessments that include evaluation and analysis of structural and building enclosure systems. His project experience also includes leakage investigations, condition assessments, construction administration services, litigation support, and repair design.

REPRESENTATIVE PROJECTS

Structural Analysis

- Port of San Antonio, Hangars 1610 and 1612 Fire Protection Retrofit - TX: Analysis of existing hangars to determine ability to support new fire protection systems and design of a new fire pump house facility
- University of Arkansas, Medical Sciences - Little Rock: Structural analysis of new loads and associated stresses on existing post-tensioned slab in parking garage

Failure/Damage Investigations

- La Petite Academy - San Antonio, TX: Evaluation and repair design for partially collapsed wood truss roof over childhood education center
- Port San Antonio Warehouse - TX: Analysis and shoring design for roof truss collapse over industrial warehouse
- Blue Skies of Texas - San Antonio: Structural evaluation and piezometer/inclinometer monitoring of differential foundation movement and structural distress in four-story, wood-framed structure
- Zurich House Fire - Odessa, TX: Structural evaluation and petrographic analysis of concrete slab in fire-damaged house to determine suitability of salvaging

Repair and Rehabilitation

- Merchants Ice House - San Antonio, TX: Restoration of 100-year-old mass masonry structure previously used to store ice into Class A office space
- Haven for Hope - San Antonio, TX: Structural investigation of damage and deterioration of 100-year-old concrete facility to determine necessary repairs for building occupancy

Facade Assessment and Repair

- First Community Bank - Corpus Christi, TX: Assessment and repair design for stucco cladding detachment on twelve-story structure
- Vista Verde Plaza - San Antonio, TX: Repair design for brick facade with construction defects after detached brick fell from wall

Leakage Investigation

- Sandpiper Condominiums - Port Aransas, TX: ASTM water testing of existing and new windows and sliding glass doors
- First Community Bank - Corpus Christi, TX: Leakage investigation on existing windows

Construction Troubleshooting

- Lackland Air Force Base, Airmen Training Complex 5 - San Antonio, TX: Assessment and repair design for constructability issues regarding the placement of precast concrete wall panels
- Fort Sam Houston, Troop Readiness Facility - San Antonio, TX: Assessment and repair design for various constructability issues relating to FRP strengthening of concrete slabs and installation of concrete anchors