PERSONNEL QUALIFICATIONS

Brett Brunner-Caple | Associate II

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/Computer Applications
- Failure/Damage Investigations
- Instrumentation/Monitoring/ Load Testing
- Concrete Structures
- Steel Structures
- Wood Structures

REGISTRATIONS

- Professional Engineer in AZ and TX

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- American Concrete Institute (ACI)
- 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 as a civil/structural engineer in the areas of structural analysis and assessment, steel and concrete design, and engineering and construction management.

Prior to 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 aircrafts. Mr. Brunner-Caple also spent an additional year in Alaska planning and scoping renovation and modernization projects to maintain more than $8 billion of existing infrastructure on Eielson Air Force Base, and one summer in the Philippines serving as the construction team commander for a humanitarian mission to repair earthquake-damaged and aging schools.

REPRESENTATIVE PROJECTS

Structural Analysis/Computer Applications

- Port of San Antonio Hangars 1610 and 1612 Fire Protection Retrofit - San Antonio, TX: Analysis of existing hangars to determine ability to support new fire protection systems as well as the design of a new fire pump house facility
- Rich Products Facility - Missouri City, TX: Investigation to determine live load capacity of interstitial space floor suspended from open-web joist ceiling above warehouse
- University of Arkansas Medical Sciences - Little Rock, AR: Structural analysis of new loads and associated stresses on existing post-tensioned slab in parking garage

Failure/Damage Investigations

- Haven for Hope - San Antonio, TX: Structural investigation of damage and deterioration of a one hundred--year old concrete facility to determine necessary repairs to occupy the building
- Bohol School Classroom - Bohol Island, Philippines: Evaluation of seismic damage to unreinforced masonry classroom*

Instrumentation/Monitoring/Load Testing

- Nationwide Facility - San Antonio, TX: Roof anchor deflection investigation and testing
- Ripley's Believe It or Not! Odditorium - San Antonio, TX: Nondestructive evaluation and vibration monitoring of concrete structure to determine causes of cracking in floor

Concrete Structures

- Port of San Antonio Robot Warehouse - San Antonio, TX: Assessment and design of pre-engineered metal building foundation/slab and new roadway for aircraft paint-removing robot
- Satellite Dish Support Structure - Eielson Air Force Base (AFB), AK: Design and construction of a new concrete structure to support a satellite dish against Alaska wind loads*

Steel Structures

- F-35 Hangar/Squadron Operations/Aircraft Maintenance Unit Facility - Eielson AFB, AK: Design and construction project management for a new $38M facility, which includes a four-bay hangar, high security mission planning and operations space, and office/work space for an aircraft maintenance unit*
- F-35 Propulsion Maintenance Hangar - Eielson AFB, AK: Design and construction project management for a new $40M facility, which includes a four-bay hangar and jet engine maintenance space*

Wood Structures

- Aurora Club Ballroom - Eielson AFB, AK: Evaluation and repair design for damaged wooden floor joists supporting multipurpose and ballroom spaces in the Aurora Club Facility*

**Indicates with the U.S. Air Force*