PERSONNEL QUALIFICATIONS

Michael F. Suarez | Senior Associate

EDUCATION

- Cornell University
  - Bachelor of Science, Civil Engineering, 2018
  - Master of Engineering, Structural Mechanics and Materials, 2018

PRACTICE AREAS

- Concrete Structures
- Failure/Damage Investigations
- Structural Analysis/Computer Applications
- Nondestructive Evaluation
- Steel Structures
- Pavement Investigation

REGISTRATIONS

- Professional Engineer in TX

PROFESSIONAL AFFILIATIONS

- Structural Engineers Association of Texas

CONTACT

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EXPERIENCE

Michael Suarez joined WJE in 2019 and has worked on a variety of projects involving concrete structures, such as parking garages, commercial buildings, and multistory residential buildings. His projects concentrate on the investigation and assessment of concrete structures. His investigations have included structural analysis, nondestructive testing, load testing, and laboratory study. While working on structural investigative projects, Mr. Suarez has gained valuable experience in nondestructive evaluation and structural analysis software.

Prior to joining WJE, Mr. Suarez completed his graduate degree with a focus on concrete structures and materials, as well as structural analysis.

REPRESENTATIVE PROJECTS

Concrete Structures

- Warehouse - Fort Worth, TX: Investigation of slab movement
- Corporate Office Parking Garage - Dallas, TX: Structural condition assessment
- Office/Warehouse - Irving, TX: Structural evaluation of building/slab movement and repair design
- USCIS Service Center - Irving, TX: Investigation of paint adhesion on concrete tilt-up wall panels
- Moises Molina High School - Dallas, TX: Investigation of insulated concrete formed wall

Failure/Damage Investigations

- Mid-Rise Building - New Orleans, LA: Structural analysis of a steel frame that collapsed during construction
- Apartment Complex - Dallas, TX: Assessment of damage to cantilevered wood-framed balconies and in-place guardrail load testing
- Tuesday Morning Distribution Center - Dallas, TX: Investigation of floor damage on an elevated composite metal deck over steel frame
- Condominium Complex - Irving, TX: Investigation of structural insurance claims for residential complex
- Flatiron District at Austin Ranch - The Colony, TX: Evaluation of existing retaining walls
- First Baptist Church - Stephenville, TX: Investigation of historic cast stone

Nondestructive Evaluation

- Parking Garage - Salt Lake City, UT: Investigation of air voids in cast-in-place concrete beams using ultrasonic tomography and ground-penetrating radar
- Harwood No. 12 - Dallas, TX: Investigation of cold joint in elevated concrete slab and beams using ultrasonic tomography, ground-penetrating radar, and impact echo testing
- 3200 Olympus - Dallas, TX: Evaluation of concrete drilled shaft foundations using impact echo and impulse response testing

Steel Structures

- Multistory Residential Parking Garage - Dallas, TX: Condition assessment of concrete and metal deck on steel-frame parking structure
- Sono Collection Mall - Norwalk, CT: Investigation of failed steel transfer girder

Pavement Investigation

- Hackberry Creek - Irving, TX: Pavement assessment, repair design, and construction administration
- The Shops at Abilene Village - Abilene, TX: Review of pavement distress
- Southlake Methodist Hospital - Southlake, TX: Investigation of building slab distress