



EDUCATION

- University of Texas at San Antonio
 - Bachelor of Science, Civil Engineering, 2020
 - Master of Science, Civil Engineering, 2022

PRACTICE AREAS

- Failure/Damage Investigations
- Nondestructive Evaluation
- Civil Infrastructure
- Building Enclosure Consulting
- Water Leakage Assessment
- Roofing and Waterproofing

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers

CONTACT

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EXPERIENCE

Jessica Gonzalez conducts investigations of structural and building enclosure systems. Her experience comprises residential and commercial buildings, parking structures, and industrial facilities.

Before joining WJE, Ms. Gonzalez was a graduate research assistant at the University of Texas at San Antonio. Her work involved investigating fatigue properties of reinforced steel bars. She collaborated with metallurgists and manufacturers to identify optimal chemistries and production methods that yield the most desirable mechanical properties for use in concrete structures subjected to seismic loading.

REPRESENTATIVE PROJECTS

Failure/Damage Investigations

- La Petite Academy - San Antonio, TX: Evaluation and repair design for partially collapsed wood truss roof Blue Skies of Texas - San Antonio: Repair design for damaged wood structural members of four-story building
- Joint Venture Office Building - San Antonio, TX: Roof truss shoring and repair design

Nondestructive Evaluation

- Semiconductor Plant - Taylor, TX: Investigation of misaligned coupler sleeves using ground penetrating radar (GPR) scanning
- I-35 Northeast Expansion - San Antonio, TX: Condition and quality assessment of cast-in-place concrete columns using ultrasonic pulse velocity technology
- Port San Antonio Building -TX: Structural as-built drawings of existing concrete masonry unit building with the use of ground penetrating radar scanning

Civil Infrastructure

- Liquefied Natural Gas (LNG) Tank Foundations - Cameron, LA: Investigation of reinforced concrete damage due to cryogenic LNG exposure
- Salitrillo Wastewater Treatment Plant - San Antonio, TX: Structural condition assessment of reinforced concrete structures

Building Enclosure Consulting

- Bulverde Middle School - Bulverde, TX: Design review of drawings, installation observations, and field testing of enclosure systems
- Canyon Lake High School - Fischer, TX: Design review of drawings and installation observations

Water Leakage Assessment

- 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 ribbon windows
- Island Retreat Condominiums - Port Aransas, TX: ASTM water testing of new windows and sliding glass doors

Roofing and Waterproofing

- San Antonio Central Library - TX: Roof assessment, localized roof repair design, and construction administration services
- North East Independent School District) - San Antonio, TX: Annual roof condition assessments
- Comal Discipline Center - New Braunfels, TX: Roof replacement design and construction administration services