



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 Assessments
- Roofing and Waterproofing

REGISTRATIONS

- Professional Engineer in TX

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers

CONTACT

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EXPERIENCE

Jessica Gonzalez is engaged in numerous investigations, honing her problem-solving skills in structural and building enclosure systems. Her experience spans 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 the 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 over childcare education center
- Blue Skies of Texas - San Antonio, TX: 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)
- I-35 Northeast Expansion Bridge - 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 CMU building using GPR

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 Assessments

- 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 at 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 Roof Repairs - 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