



EDUCATION

- Oklahoma State University
 - Bachelor of Architectural Engineering, 1999

PRACTICE AREAS

- Repair and Rehabilitation Design
- Condition Assessment
- Failure Investigation
- Litigation Consulting
- Structural Evaluation
- Roofing and Waterproofing
- Stucco

REGISTRATIONS

- Professional Engineer in FL
- LEED Accredited Professional

PROFESSIONAL AFFILIATIONS

- Florida Structural Engineers Association (FSEA), Palm Beach Chapter secretary
- International Concrete Repair Institute (ICRI), South Florida Chapter director

CONTACT

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EXPERIENCE

Tricia Fitzgerald specializes in architectural and structural investigations and restoration of building envelope components and structural systems. In her sixteen years of experience, Ms. Fitzgerald has conducted condition assessments of structures and building envelope components, has performed investigations of failed and collapsed structures, and has designed building envelope repairs and structural concrete and waterproofing repairs. Her expertise also includes construction observation of concrete repairs, EIFS, stucco, waterproofing, and sealants.

Prior to joining WJE, Ms. Fitzgerald gained experience in the testing, evaluation, and specification of products used for windborne debris protection in hurricane-prone regions.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation Design

- Miami Marine Stadium - Virginia Key, FL: In-depth field investigation to prepare conceptual repair recommendations to address structural engineering, materials science and corrosion, historic preservation, and roofing and waterproofing concerns
- Mall of San Juan Parking Garage - San Juan, Puerto Rico: Evaluation of damaged precast concrete double tees, preparation of repair details, and construction observation of repairs
- Beach Club Tower One - Hallandale Beach, FL: Condition assessment and repair design for failed components, including stucco facade, masonry infill parapet walls, spalled and cracked concrete, sealants, and rooftop terrace drainage*
- Vi at Aventura - Aventura, FL: Design of overclad EIFS system to encapsulate failed stucco facade; detailed construction observation of two twenty-three-story towers and amenities building, construction observation of 60,000-square-foot waterproofing system installation at plaza deck*

Roofing and Waterproofing

- Ocean Residences at Boca Beach Club Condominium - Boca Raton, FL: Design of replacement waterproofing system and architectural finishes*

Structural Evaluation

- Biscayne Cove Condominium Parking Garage - Aventura, FL: Investigation and evaluation of structural failure of precast joists and beams
- Nuclear Generating Station - Tonopah, AZ: Analysis of cooling tower structure and deteriorated fan deck support columns
- Office Complex - Guadalajara, Jalisco, Mexico: Review of design and partial construction of precast concrete frame office buildings, steel-frame lab and warehouse, and cast-in-place concrete physical plant for compliance with gravity and seismic requirements of local codes ASCE 7-10 and IBC 2009*

Failure Investigation

- Low-Rise Hotels - Three Sites, South Florida: Determination of cause, origin, and scope of damage of building envelope systems, including EIFS and Portland cement stucco applied over metal lath and exterior gypsum sheathing*
- Warehouse Office - Jacksonville, FL: Determination of cause, origin, and scope of damage of an elevated floor structural collapse*

Litigation Consulting

- Two Twenty-Six-Story Condominium Buildings - Riviera Beach, FL: Construction defect litigation of alleged defects, including stucco delamination, structural cracks, water intrusion, balcony railings, post-tension cables, and planter and amenity deck waterproofing
- Fifty-One-Story Condominium - Sunny Isles Beach, FL: Construction defect litigation of alleged stucco defects
- Fifteen-Story Condominium - Coral Gables, FL: Investigation of alleged stucco and floor tile delamination due to fire sprinkler failure

* Indicates with previous firm