



## PERSONNEL QUALIFICATIONS

### Brian M. Calderone | Senior Associate



#### EDUCATION

- Case Western Reserve University
  - Bachelor of Science, Civil Engineering, 2009
  - Master of Science, Structural Engineering, 2009

#### PRACTICE AREAS

- Failure/Damage Investigations
- Fire Damage
- Repair and Rehabilitation
- Facade Assessment
- Nondestructive Evaluation
- Water Retaining Structures
- Litigation Consulting
- Construction Troubleshooting

#### REGISTRATIONS

- Professional Engineer in NY, OH, and PA

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI)
- American Society of Civil Engineers (ASCE)

#### CONTACT

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#### EXPERIENCE

Since joining WJE, Brian Calderone has been involved in the forensic investigation, evaluation, and repair of hundreds of projects, including concrete, steel, wood, and masonry structures. These projects include structural failure and leakage investigations of water retaining concrete structures; fire damage assessment of concrete and wood structures; condition assessment and repair of structural and waterproofing elements of conventional and prestressed reinforced concrete parking garages and stadiums; system assessments and material investigations of EIFS and masonry facades; and collapse investigations of concrete, steel, and masonry structures. He is also experienced in preparing construction documents for concrete, steel, waterproofing, and masonry repairs, and the management and oversight of active repair projects. Mr. Calderone has also provided engineering consulting services for insurance claim and litigation projects.

#### REPRESENTATIVE PROJECTS

##### Failure/Damage Investigations

- The Ohio State University, Wooster Campus - Columbus, OH: Campus-wide assessment for building envelope and structural damage resulting from an EF2 tornado
- Pierre's Ice Cream Co. - Cleveland, OH: Structural and building envelope damage assessments following partial roof collapse
- Ursuline College, O'Brien Athletic Center - Pepper Pike, OH: Structural and building envelope condition assessments following tornado damage
- Land O'Lakes Purina Feed Plant - Caldwell, ID: Investigation of fire damage to reinforced concrete bulk storage tower
- Port of Los Angeles - Los Angeles, CA: Assessment of fire damage to wood and reinforced concrete dock

##### Facade Assessment

- Aronoff Center, The University of Cincinnati, - Cincinnati, OH: Assessment of EIFS distress and associated water leakage
- Lasch Football Building, The Pennsylvania State University- University Park, PA: Investigation of water infiltration through masonry cavity wall and glazed aluminum frame windows

##### Repair and Rehabilitation

- Huntington Park Garage - Cleveland, OH: Investigation and repair design for precast concrete structure and waterproofing
- West General Robinson Garage - Pittsburgh, PA: Precast concrete condition assessment and repair
- PNC Park at North Shore - Pittsburgh, PA: Stadium-wide replacement of seating bowl and concourse waterproofing elements

##### Nondestructive Evaluation

- PNC Park at North Shore - Pittsburgh, PA: Ground penetrating radar (GPR) assessment of voids below slab-on-grade sidewalks
- Easterly Tunnel Dewatering Pump Station - Cleveland, OH: Impact-echo and ultrasonic pulse velocity (UPV) evaluation of reinforced concrete pump bases and columns
- David L. Lawrence Convention Center - Pittsburgh, PA: Ground penetrating radar (GPR) evaluation of double-tee bearing connection

##### Water Retaining Structures

- Scioto County Regional Water District No. 1 Water Treatment Plant - Lucasville, OH: Investigation of a reinforced concrete water retaining tank failure and repair design
- City of Austin Water Treatment Plant No. 4 - Austin, TX: Peer review and design services related to water-stop and expansion joint details in multiple waste water treatment structures
- Palo Verde Nuclear Power Plant and Water Reclamation Facility - Tonopah, AZ: Visual and materials condition assessment for a large waste water treatment plant that included a comprehensive assessment and repair plan
- Brushy Creek Regional Utility Authority Water Treatment Plant - Cedar Park, TX: Investigation of concrete cracking and water leakage at multiple structures at newly constructed water treatment plant

##### TECHNICAL COMMITTEES

- ACI 350-0C - Environmental Engineering Concrete Structures - Reinforcement and Development