



## Steve Grelle

PE, SE

### Senior Project Manager

#### Department

Engineering Services

**Tel:** (636) 236-1897

**Email:** [stephen.grelle@yaeservices.com](mailto:stephen.grelle@yaeservices.com)

#### Locations

Dallas, TX

## Biography

Stephen Grelle is a licensed engineer with over 12 years of engineering and construction experience in various structural repair, rehabilitation, and investigation projects. His investigative work has included structural damage and collapse assessments, condition assessments, and construction and material defect investigations. He has also observed structures during original construction and repair work. While Stephen's work has included many modern and historical structural systems, many of his projects have included investigation, analysis, and repair of concrete structures. His background also includes research and testing of repairs to concrete structures using fiber-reinforced polymer (FRP) laminates at Missouri S&T. Additionally, Stephen has worked extensively on parking garage waterproofing and structural systems. He has provided litigation support for construction defect claims on behalf of building owners, contractors, and engineers.

## Credentials

- PE | Professional Engineer
- SE | Structural Engineer
- ICRI Certified Concrete Surface Repair Technician

## Representative Consulting Assignments

- Joule Hotel Expansion | Dallas, TX | Investigation and rehabilitation of corrosion-induced deterioration of structural concrete; structural load testing
- Bishop Dunne Catholic School | Dallas, TX | Investigation and rehabilitation of corrosion-induced deterioration of concrete pan joist structure
- UT Southwestern Medical Center Parking Garages | Dallas, TX | Investigation, rehabilitation design, and construction observations for structural and waterproofing systems on over fifteen campus parking garages
- Argyle High School Training Facility | Argyle, TX | Investigation of collapse of steel building during erection
- Exall Dam Pedestrian Bridge Rehabilitation | Highland Park, TX | Investigation, rehabilitation design, and construction observations for repairs to a 1940s-era steel truss pedestrian bridge
- Remington Tower | Tulsa, OK | Investigation of structure and cladding of tornado-damaged high-rise office tower
- AMLI Addison | Addison, TX | Design of shoring and modifications to increase the clear height of loading dock doors
- JP Morgan Chase Parking Garage | Plano, TX | Load test of repaired precast concrete double-tee beam
- Skyline Drive Warehouse | Irving, TX | Investigation of distress to building structure and slab-on-ground following large water release after Winter Storm Uri
- Office Building Parking Garage | Dallas, TX | Investigation of collapses during erection of a precast double-tee parking garage

## Professional Experience

- 2023 - Current | Senior Project Manager | YA Engineering Services
- 2011 - 2023 | Associate / Senior Associate | Wiss, Janney, Elstner, Inc. (WJE)

## Area of Practice

- Condition Assessment
- Construction Administration
- Damage Assessment
- Failure Analysis
- Litigation Support
- Repair and Rehabilitation Design
- Structural Analysis
- Building Envelope
- Roofing

## Publications and Presentations

- Grelle S and Sneed L., 01/01/2013, International Journal of Concrete Structures and Materials, Review of Anchorage Systems for Externally Bonded FRP Laminates, 1, 17-33
- He R, Grelle S, Sneed LH, Belarbi A., 07/01/2013, Composite Structures, Rapid repair of a severely damaged RC column having fractured bars using externally bonded CFRP, 101, 225-242

## Education

- Missouri S&T - Bachelor of Science - Architectural Engineering - Rolla - Missouri
- Missouri S&T - Bachelor of Science - Civil Engineering - Rolla - Missouri
- Missouri S&T - Master of Science - Civil Engineering - Rolla - Missouri

## Affiliations

- American Concrete Institute (ACI)
- International Concrete Repair Institute (ICRI)
- Structural Engineers Association of Texas (SEAoT)

## Licenses

- 21811 - Arkansas - Professional Engineer
  - 44976 - Louisiana - Professional Engineer
  - 2023012615 - Missouri - Professional Engineer
  - 30156 - Oklahoma - Professional Engineer, Structural Engineer
  - 122385 - Texas - Professional Engineer
  - 96492 - Florida - Professional Engineer
  - 29383 - New Mexico - Professional Engineer
  - PE-20768-0 - Hawaii - Structural Engineer
-