



PERSONNEL QUALIFICATIONS

Phillip T. Elgin | Senior Associate



EDUCATION

- The Pennsylvania State University
 - Bachelor of Architectural Engineering (Structural), 2001

PRACTICE AREAS

- Facade Assessment
- Litigation Consulting
- Parking Structures
- Plazas and Terraces
- Repair and Rehabilitation
- Structural Analysis
- Structural Design
- Wood Structure Assessment

REGISTRATIONS

- Professional Engineer in OH and PA

PROFESSIONAL AFFILIATIONS

- International Concrete Repair Institute (ICRI) - Pittsburgh chapter, secretary
- Structural Engineers Association of Ohio (SEAoO)

CONTACT

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EXPERIENCE

Phillip Elgin joined WJE in 2015 to expand WJE's presence in Pittsburgh, Pennsylvania. Mr. Elgin's experience includes new structural design and renovation for projects for K-12 schools, universities, hospitals, banks, and commercial properties. Projects have been comprised of facade assessment and repair, parking garage evaluation and repair, structural design and various assessments, surveys, and evaluations. He has completed numerous repair projects involving repair of deteriorated concrete, rebuilding of masonry wall construction, and installation of sealants and coatings. Mr. Elgin is familiar with various materials, including masonry (terra cotta, stone, brick, concrete masonry units), concrete (reinforced, precast, post-tensioned), structural steel, wood, fiberglass, glass-fiber-reinforced concrete, traffic-bearing membranes, waterproofing, and sealants.

REPRESENTATIVE PROJECTS

Facade Assessment

- Stephen Foster Memorial - Pittsburgh, PA: Water infiltration investigation for a steel-framed memorial with brick infill walls faced with Indiana limestone
- The Pennsylvanian - Pittsburgh, PA: Evaluation of terra cotta facade and rotunda arch construction
- Trimont Condominiums - Pittsburgh, PA: Evaluation and consultation regarding facade involving an exposed cast-in-place reinforced concrete structural framing system
- WVU Ruby Hospital - Morgantown, WV: Water infiltration investigation and hygrothermal analysis for a steel-framed operating room with brick, precast panels, and aluminum ribbon windows

Litigation Consulting

- California University of Pennsylvania, Convocation Center - California, PA: Evaluation of claims associated with erection of long-span steel joists

Parking Structures

- California University of Pennsylvania Parking Garage - California, PA: Evaluation of precast double-tee flange collapse
- North Shore Garage - Pittsburgh, PA: Construction phase services for garage repair project involving concrete, sealant, and traffic-bearing membrane repairs

Plazas and Terraces

- Tribute to Children Monument - Pittsburgh, PA: Repair project involving waterproofing remediation and cast-in-place topping slab replacement
- Pasquerilla Spiritual Center, Eisenhower Chapel Frizzell Room - University Park, PA: Water infiltration investigation involving existing sheet membrane waterproofing installed over cast-in-place concrete
- May Building - Pittsburgh, PA: Assessment and replacement of deteriorated sidewalk construction including structural steel, reinforced concrete, and waterproofing

Repair and Rehabilitation

- PNC Park - Pittsburgh, PA: Construction phase services for waterproofing repairs to stadium seating areas and concourses including sealant, surface sealer, and expansion joint repairs

Structural Analysis

- David L. Lawrence Convention Center - Pittsburgh, PA: Structural condition assessment of ballroom slab construction
- 915 Brinton Road - Pittsburgh, PA: Structural evaluation of precast plank flooring (Celdex) system for increased loads due to change in occupancy
- King Edward 4601 - Pittsburgh, PA: Structural evaluation of conventionally reinforced concrete-frame apartment building

Wood Structure Assessment

- First United National Bank - Fryburg, PA: Structural assessment and repair of metal-plate-connected wood trusses for additional load from overbuild framing