



#### EDUCATION

- The Pennsylvania State University
  - Bachelor of Science, Civil Engineering, 2013
  - Master of Engineering, Civil Engineering (Structures) 2015

#### PRACTICE AREAS

- Structural Design
- Structural Analysis
- Precast/Prestressed/Post-Tensioned Concrete
- Reinforced Concrete Structures
- Instrumentation/Monitoring/Load Testing
- Repair and Rehabilitation
- Roofing and Waterproofing

#### REGISTRATIONS

- Professional Engineer in PA

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Structural Engineers Association

#### CONTACT

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#### EXPERIENCE

James Palmer joined WJE in 2018, and his prior experience includes new building design of mixed use, academic, residential, and hospitality buildings, as well as research in cold-formed aluminum for military applications. He has experience in the analysis, design, and construction of concrete (post-tensioned and mild reinforced), steel, masonry, and wood-framed structures. Since joining WJE, Mr. Palmer's experience includes structural analysis, structural monitoring and load testing, water infiltration testing, roofing and construction inspection.

#### REPRESENTATIVE PROJECTS

##### Structural Design

- District Wharf in Southwest Waterfront - Phase 1 and Phase 2 - Washington D.C.: Design, construction documents, and construction administration of over two million-square-foot mixed-use development\*
- District of Columbia Bar Association - Washington, D.C.: Design of, construction documents for, and construction administration of eight-story post-tensioned Class A office building with two-story below-grade garage\*
- Wheaton Town Center - Wheaton, MD: Design of, construction documents for, and construction administration of fifteen-story mixed-use building with four-story below-grade garage\*

##### Structural Analysis

- David L. Lawrence Convention Center - Pittsburgh, PA: Structural evaluation of composite deck slab subjected to point loading
- Manitowoc Cranes - Shady Grove, PA: Structural evaluation of existing steel monorail and mezzanine systems for expansion and additional loads\*
- Penn State Creamery Building - State College, PA: Structural evaluation of existing rooftop screen wall for new catwalk system\*

##### Instrumentation/Monitoring/Load Testing

- 11 Stanwix - Pittsburgh, PA: Load testing and visual inspection of facade access structure
- Distribution Center - Cleburne, TX and Baytown, TX: Weld inspection of critical roof joists in warehouse distribution centers
- King Edward Apartments - Pittsburgh, PA: Crack gage monitoring of concrete columns in historic apartment building
- Applied Research Laboratory, the Pennsylvania State University - State College, PA: Structural material testing of cold-formed aluminum for military applications, including tension and fatigue testing, thickness and residual stress measurement, and microscopic imaging\*

##### Repair and Rehabilitation

- 1001 Ardmore Boulevard - Pittsburgh, PA: Construction observations during roofing repairs at parapet wall coping
- City Vista Apartments - Pittsburgh PA: Construction administration and inspection of post-tensioned concrete slab crack repair of parking garages
- The Pennsylvanian - Pittsburgh, PA: Repair of structure supporting rooftop terra-cotta architectural feature of historic apartment building

##### Roofing and Waterproofing

- Allegheny Country Club - Sewickley Heights, PA: Water leakage investigation in basement of historic mansion
- First and Market Residences - Pittsburgh, PA: Water leakage investigation of roof/block wall interface of renovated condominium space
- Aransas County Independent School District, High School and Auditorium - Rockport, TX: Construction observations during replacement and upgrade of roofing system

*\*Indicates with previous firm*