



## PERSONNEL QUALIFICATIONS

### Thomas J. McMullan III | Principal and Unit Manager



#### EDUCATION

- The Pennsylvania State University
  - Bachelor of Architectural Engineering, Structures Option, 2002

#### PRACTICE AREAS

- Building Enclosure Consulting
- Design-Assist
- Building Enclosure Commissioning
- Building Science
- Facade Assessment
- Failure/Damage Investigations
- Repair and Rehabilitation
- Litigation Consulting

#### REGISTRATIONS

- Professional Engineer in MD and PA

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Architectural Engineering Institute
- ASTM International
- Building Enclosure Council - Philadelphia
- International Institute of Building Enclosure Consultants - Mid-Atlantic Chapter, past president

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2002, Thomas McMullan has specialized in the design and investigation of various exterior building enclosure systems. These systems include, but are not limited to windows, stick-built and unitized curtain wall, skylights, and sloped glazing assemblies; prefabricated wall panels; metal panel, terra cotta, stone, fiber-reinforced concrete, masonry and other types of rain screen cladding assemblies; architectural precast and mass masonry wall assemblies; EIFS; and roofing and waterproofing. From modern "high-performance" facades to historic structures, Mr. McMullan has worked directly with architects, developers, construction managers, colleges/universities, government agencies, and healthcare institutions on hundreds of projects throughout the United States. He also actively engages in the performance verification of the above referenced systems, both in a forensic capacity and in the context of new construction, using ASTM and AAMA voluntary guide specifications and test standards.

#### REPRESENTATIVE PROJECTS

##### Building Enclosure Consulting, Design-Assist, and Commissioning

- Penn Medicine Pavilion - Philadelphia, PA: Design-assist and building enclosure commissioning (BECx) of 1.5 million-square-foot, five hundred-bed clinical facility
- Perelman Center for Advanced Medicine, South Tower - Philadelphia, PA: Design peer review and quality assurance services during construction of hospital expansion for Penn Medicine
- Inova Fairfax Hospital - Fairfax, VA: Design peer review and quality assurance services during the renovation and new construction of several existing and new campus buildings
- Penn State HUB, Robeson Center Addition and Renovation - University Park, PA: Design review and quality assurance services during expansion of the center for student activity
- Fort Bliss Replacement Hospital - El Paso, TX: Design peer review and assistance for new replacement hospital under contract with the U.S. Army Corps of Engineers
- Celgene Headquarters - Summit, NJ: BECx for a 550,000-square-foot-expansion to global biopharmaceutical company's headquarters

- Toyota Production Engineering - Georgetown, KY: BECx for state-of-the-art automotive testing lab and administrative building
- Washington Headquarters Service (BRAC 133) - Alexandria, VA: BECx for 1.75-million-square-foot office building and auxiliary structures for the Department of Defense
- Constitution Center - Washington, D.C.: BECx for the largest privately owned office building in the District of Columbia during replacement of the existing facade with a unitized, structurally glazed curtain wall

##### Facade Assessment and Failure/Damage Investigations

- York Hospital, Patient Care Tower - York, PA: Water leakage and roofing failure investigation and repair/replacement design
- Baltimore County Public Safety Headquarters - Towson, MD: Sporadic glass breakage investigation and analysis
- Penn State Schwab Auditorium - University Park, PA: Historic plaster failure investigation and remediation
- NOAA Fisheries - Pascagoula, MS: Water leakage investigation and remediation

##### Repair and Rehabilitation

- Two Liberty Place - Philadelphia, PA: Condition assessment and repair design for 1990 vintage unitized glass and granite curtain wall and sloped glazing systems for iconic city skyscraper
- Penn State Old Main - University Park, PA: Condition assessment and design-build restoration of early 20th century administration building
- The Ellington - Philadelphia, PA: Stabilization and restoration of historic terra cotta cornice, limestone, and clay brick masonry facades of twenty-one-story high-rise
- Washington Harbour - Washington, D.C.: Comprehensive condition assessment, water leakage investigation, and repair design of masonry wall assemblies, waterproofing, roofing, and building fenestration