



#### 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

tmcmullan@wje.com  
215.567.0703  
www.wje.com

#### EXPERIENCE

Thomas McMullan specializes in the design and investigation of various exterior building enclosure systems. These systems include 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 with architects, developers, construction managers, colleges/universities, government agencies, and healthcare institutions on hundreds of projects throughout the United States. He also 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 Building Enclosure 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 - 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