



PERSONNEL QUALIFICATIONS

Kelly E. Cronin | Senior Associate



EDUCATION

- Carnegie Mellon University
 - Bachelor of Science, Civil Engineering, 2006
- University of California, Berkeley
 - Master of Engineering, Structural Engineering, 2008
 - Minor, Geotechnical Engineering, 2008

PRACTICE AREAS

- Repair and Rehabilitation
- Collapses
- Design-Assist
- Construction Troubleshooting
- Facade Failure and Leakage
- Historic Preservation
- Structural Analysis
- Corrosion

REGISTRATION

- Professional (Civil) Engineer in DC
- Professional Engineer in MD and VA

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers, president of National Capital Section Younger Members Forum
- Washington Building Congress

CONTACT

kcronin@wje.com
703.641.4601
www.wje.com

EXPERIENCE

Kelly Cronin joined WJE as a summer intern with the San Francisco office in 2007 and joined the Washington, D.C. office as a full-time associate in 2008.

Ms. Cronin has extensive experience on a broad range of projects related to construction observation, field quality assurance, condition surveys, structural investigations, and evaluations of new and existing structures. She has performed structural analyses of most construction materials, including concrete, steel, timber, and masonry. Her work has also included clay brick masonry facade rehabilitation; the investigation and repair design for various building types to address bulk rainwater penetration, condensation, and moisture-related deterioration of above- and below-grade building enclosure materials, components, and systems. These systems have included steel, concrete, timber, brick masonry, cast stone, exterior insulation finishing system (EIFS), and aluminum/glass curtain walls. Ms. Cronin has also performed construction observation services for several high-rise multifamily residential buildings, including preconstruction mock-up performance testing, design refinement, and field quality assurance services.

REPRESENTATIVE PROJECTS

Repair and Rehabilitation

- American Academy of Orthopedic Surgeons - Washington, D.C.: Evaluation and design of supplemental steel framing and horizontal waterproofing
- 1909 K Street Parking Garage - Washington, D.C.: Development of repair documents and construction period services for below-grade concrete garage repairs
- Four Seasons Royal Suite Terrace - Washington, D.C.: Water penetration investigation, development of repair documents, and onsite quality assurance of terrace waterproofing assembly

Collapses

- From The Heart Church - Suitland, MD: Collapse investigation and documentation of failed member deconstruction

Construction Troubleshooting

- Arlington County Courthouse - VA: Onsite observation and quality assurance of horizontal waterproofing assembly installation
- DuPont DC Residential Tower - Washington, D.C.: Onsite observation and quality assurance of unitized curtain wall installation
- One Loudoun - Ashburn, VA: Onsite observation and quality assurance of building envelopes for several buildings in new town center development

Facade Failure and Leakage

- Howard Hughes Medical Institute Janelia Farms Campus - Ashburn, VA: Facade and low-roof water penetration investigation
- 1660 International Drive - McLean, VA: Water penetration investigation of multistory curtain wall

Historic Preservation

- Virginia State Supreme Court - Richmond: Evaluation and water testing of historic steel windows and limestone facade
- Marine Corps Home of the Commandants - Washington, D.C.: Evaluation of historic timber and masonry framing

Structural Analysis

- Blair East and House Apartments - Silver Spring, MD: Development of entrance canopies, retrofit design, and stabilization of concrete balconies
- Chesapeake Bay Foundation - Annapolis, MD: Design of temporary bracing and structural members prior to and during timber replacement project

Corrosion

- Mass Transit Aerial Rail Structures - Washington, D.C.: Weld and anchor bolt assessment of steel-box girders
- Oklahoma Department of Transportation: GPR and structural evaluation of post-tensioned concrete box girders
- Chalk Point Cooling Tower Units 3 and 4 - Aquasco, MD: Delamination and crack survey of 400-foot-tall reinforced concrete hyperbolic cooling towers