

CATHERINE WANG, ASSOCIATE AIA

Senior Associate



Summary

Catherine Wang joined Thornton Tomasetti in 2014 and brings over 18 years of experience in the architecture, engineering, and construction industry. She began her career as a structural engineer, gaining expertise in design, inspection, project management, and construction administration. After eight years in structural engineering consulting, she transitioned to architectural practice, where she developed a specialization in building envelope consulting. Ms. Wang has experience in numerous building envelope investigations, including water infiltration investigations, condition assessments, and design recommendations for repair and remediation. Her experience spans new construction, façade restoration, roof replacement, and both above- and below-grade waterproofing. She draws on her structural and construction background to inform her envelope consulting work, for new and existing buildings.

Areas of Technical Expertise

- Building Envelope
- Building Envelope Investigation and Repair
- Forensic Architecture
- Condition Assessments
- Technical Architecture

Education

- M.Arch., 2012, University of Illinois
- B.Eng., Civil Engineering, 2008, University of New Haven

Professional Activities

- Member, Chi Epsilon (Civil Engineering Honor Society)
- Member, American Institute of Architects (AIA)
- Member, International Institute of Building Enclosure Consultants (IIBEC)

Select Project Experience

Building Envelope Investigation and Repair

222 North LaSalle St, Chicago, IL. Existing roofing condition assessment for roof levels 5, 12, 17, 22, 26, penthouse and mechanical to develop targeted scope of repair and roof replacement for each roof level.

Starrett-Lehigh 601 West 26th St, New York, NY. Existing roofing condition assessment and roofing and waterproofing services for a 44,000-square-foot commercial building conversion, including the roof and north and south terraces.

Building Envelope and Technical Architecture

333 West Wacker, Chicago, IL. Roofing waterproofing consulting services.

St. Clements Church, Chicago, IL. Copper roof dome roofing and waterproofing consulting services to investigate water infiltration and provide repair detailing.

NYPL Castle Hill Branch Renovation, Bronx, NY. Envelope consulting services.

Eagle + West, Brooklyn, NY. Roofing and below-grade waterproofing design for two residential towers totaling 850,000 square feet. A 30 story and 40 story tower seated on a shared seven story podium.

Bushwick District Health Center, Building Envelope

Rehabilitation, Brooklyn, NY. Building envelope services for the repair and renovation of a 3-story, T-shaped building constructed in 1957 and renovated in 1992. The building features a curtain wall surrounded by granite and has six separate flat roofs with built-up membranes. The exterior walls are constructed of brick, with aluminium windows, limestone and granite sills, and glass block panels.

*Denotes work performed with previous employer.

CATHERINE WANG

Solomon R. Guggenheim Museum Tower Restoration, New York, NY. Building envelope investigation and fast-track repair of the 1992 addition to the landmarked Frank Lloyd Wright building. Repairs to the limestone veneer included dutchman and patching and the sealant was entirely replaced. Upon learning that façade conditions varied from area to area, the façade team called upon our structural engineers and architects to specify cost-effective repairs that would meet an ambitious schedule.

601 Lexington Avenue, New York, NY. Roofing and below-grade waterproofing consulting services for the renovation of the existing south podium of the building and the gut renovation of the existing sunken plaza, including new roofing on all existing roof and terrace areas, investigation and repair of areas of existing water infiltration, waterproofing of new sunken plaza and existing vaults, and waterproofing of new fountain.

399 Park Avenue, New York, NY. Roofing and below-grade waterproofing design services for a 41-story building.

100 Barrow Street, New York, NY. Roofing and below-grade waterproofing design for a new 11-story building.

545 Broadway, Brooklyn, NY. Façade and roofing design, waterproofing and energy modeling services for the renovation and expansion of a 327,000 square foot mixed-use development in Williamsburg. The project includes a new 27-story residential tower, a 40,000 square foot covered parking garage accommodating 272 spaces, new community facilities and the renovation and expansion of the existing office and retail space.

Forensic Architecture

Graceline Condominium, New York, NY. Façade investigation and repairs for a 16-story condominium suffering from leaks.

University Campus, KSA. Investigation of claims related to the development's design and construction; and proposal to carry out necessary remedial work.

River Terminal Development, South Kearny, NJ. Damage assessment of the façades, roofs and interiors of 23 buildings on three campuses that experienced flood and wind damage from CAT-90 Sandy.

Confidential Project, Dubai, UAE. Assessment of structural, façade, interiors, and MEP systems after major fire event in a hotel. MEP scope included evaluation of fire protection and plumbing systems.

Sworn Testimony

Deposition, National Union Fire Ins. Co. of Pittsburgh v. Board of Managers of the Aurora Condo. & Fashion Wear Realty Co., regarding an investigation of alleged roof damage associated with falling ice from neighboring building. New York, NY. November 7, 2016.

Litigation

Rialto Capital, concerning alleged water filtration issues and standard of care dispute.

CONTACT

Catherine Wang
600 W. Fulton, Suite 705 Chicago, IL 60661
312.596.2000
CWang@ThorntonTomasetti.com
www.ThorntonTomasetti.com