

ANDREW BLASETTI, P.E.

Principal



Summary

Since joining Thornton Tomasetti in 2006, Andrew Blasetti has designed numerous buildings of varying types including commercial, education and residential projects. His expertise in structural design allows him to serve as the office Technical Coordinator. He is responsible for all aspects of design and management on large-scale, complex projects. He served as the project lead on the Comcast Technology Center which is currently the tallest building in Philadelphia and the tallest building in the U.S. outside of New York and Chicago.

Areas of Technical Expertise

- Tall Building Design

Education

- M.S.C.E., Emphasis in Structures, 2006, Villanova University
- B.S.C.E., 2004, Villanova University

Registrations

- Licensed Professional Engineer in PA

Professional Activities

- Adjunct Professor, Villanova University, Tall Building Design, 2019, 2021, 2023
- Adjunct Professor, Cornell University, Tall Building Engineering Concepts and Fundamentals, 2024, 2025

Select Project Experience

Tall Building Design

2222 Market, Philadelphia, PA. Structural engineering, façade engineering and acoustic/vibration services for a 19-story, 300,000-square-foot office space with a ground floor lobby and retail space, roof and terrace amenities and a below-grade parking garage. The structural design incorporates dramatic multi-level cantilevers and the façade features unitized glass curtainwall and a long spanning glazed atrium façade at the ground floor lobby. Project scope included environmental noise control, mechanical noise and vibration design and room acoustics of all common areas.

Riverwalk, Philadelphia, PA. Structural engineering services for two mixed-use towers on the Schuylkill River. The towers, consisting of 28 stories and 32 stories, respectively, will feature a total of 600 residential units with ground floor retail and rooftop amenities.

10 Hudson Yards, New York, NY. Structural design of a 52-story, 895-foot tall office tower. The 1.7-million-square-foot, award-winning structure consists of a high-strength concrete frame featuring a central concrete core, post-tensioned beams and filigree slabs. The building features a 200-foot-by-60-foot atrium cable wall and an 80-foot-by-200-foot lobby cable wall, as well as a 120-foot-tall exposed diagrid steel crown structure that tops the tower. One of the first major concrete high-rise office buildings in New York City, it is designed to meet LEED Gold certification.

Diamond of Istanbul, Istanbul, TUR. Structural design and seismic analysis of a 289-meter, 161,000-square-meter mixed-use tower consisting of office space, apartments and a luxury hotel above a podium structure with a retail mall and eight levels of below-grade parking. Designed to withstand severe seismic forces, the Y-shaped plan with a reinforced concrete core and secondary steel moment frames along each wing provide lateral force resistance.

*Denotes work performed with previous employer.

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Smilow Center for Translational Research, Philadelphia, PA. Structural design of a 531,000-square-foot research tower constructed above a four-story cancer treatment facility. The new tower provides two floors for vivariums and five floors for interdisciplinary research laboratories. The fast-track project meets industry-standard vibration criteria and is seeking a LEED Silver rating.

Children's Hospital of Philadelphia, University City Inpatient Expansion, Philadelphia, PA. Structural and vibration engineering services for a new 24-story, 1,512,500-square-foot bed tower constructed above a seven-story plinth that includes diagnostic and treatment facilities. Below grade parking comprising 250,000 square feet will be constructed under an open green space. Enabling projects include the demolition of the existing Wood Building, realignment of the pedestrian bridge that crosses Civic Center Boulevard and rerouting of utilities.

3201 Cuthbert, Philadelphia, PA. Structural engineering and floor vibration control for a 577,000-square-foot, 11-story life sciences laboratory and office building with 16-to-24-foot floor-to-floor heights and glass-boxed meeting rooms protruding from the facade. The project features best-in-class cGMP and laboratory spaces. Scope of work includes designing floor reinforcement to meet the vibration limit at sensitive spaces for VC-A criteria. The structural steel design incorporates several column transfer trusses to create column-free lobby space. We also provided structural and exterior enclosure consulting for the design of the rooftop canopy steel system and corrugated metal panel cladding.

Hotel Crescent, Baku, AZE. Structural and value engineering services for the redesign through contract documents and contract administration of a 33-story moon-shaped building totaling 128,930 square meters, with hotel, residential and convention spaces.

Comcast Technology Center, Philadelphia, PA. Structural design of a 59-story, 1,121-foot tower with 1.5 million square feet of space comprising office, hotel, retail and public concourse. Significant features include an asymmetrical split structural core, three-story atriums, two-story amenity spaces and a glass-enclosed hotel lobby located at the top of the building.

Alpha Tower, Peer Review, Mumbai, IND. Structural peer review of a 117-story, 450-meter residential tower with podium and multilevel basement.

Baha Mar Resort, Nassau, BHS. Structural design of a new 3.3-million-square-foot world-class resort development on a 600-acre beach-front property. The development includes four associated but separately branded hotels, a casino, spa, restaurants, retail and entertainment village, timeshare apartments, a convention center and ballroom.

evo Philly at Cira Centre South, Philadelphia, PA. Structural design of a 1,100-bed student housing tower that extends 120 feet over active rail lines. The 430-foot tower will have 30 residential floors, a rooftop pool and common space, retail at the Chestnut Street viaduct level and two levels of service area below the viaduct level. Transfer trusses at the viaduct level, used to relocate columns and avoid rail lines, have been incorporated into the design as a significant architectural feature.

EDGE, Brooklyn, NY. Structural design of a mixed-use development complex consisting of four buildings. The LEED Gold development includes a 30-story and 16-story market-rate condominium towers constructed with flat-plate concrete, and two eight-story masonry and precast rental buildings. The project scope included ground floor retail space, below-grade parking and an open promenade that leads to a marina, which is open to the public.

10 Rittenhouse Square, Residential Improvements, Philadelphia, PA. Structural engineering services for a new stair opening in a private residence of a 33-story residential tower. The new stair connects levels 31 and 32.

Lifescapes Altimo, Altamount Road, Mumbai, IND. Structural design services through design development for a 36-story luxury residential tower located above a 53-meter, 16-story robotic parking structure. The building features one apartment per floor and includes a gymnasium, spa and yoga center, garden and play areas, and a 24-hour multilevel security system.

Sworn Testimony

Trial, PMC Property Group v. PennDOT, regarding eminent domain. October 28-30, 2025

Deposition & Trial, Tutor Perini Bldg. Corp. v. Chestlen Dev., L.P. v. Thomas P. Carney, Inc.; Arch Ins. Co.; Ventana DBS; & Liberty Mutual Ins. Co, regarding floor levelness issues. October 16 & 17, 2023. February 26-28, 2025.

CONTACT

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