

CHASE ANDERSON, P.E.

Associate Principal



Summary

Chase Anderson joined Thornton Tomasetti in 2019. He has more than 10 years of structural engineering experience in forensic investigation, property loss consulting, litigation support, and structural analysis and design. He has performed numerous hurricane-related structural and building envelope investigations throughout the coastal areas of every state from Texas to North Carolina. Chase has worked on high-profile investigations, including emergency response for the collapse of the FIU pedestrian bridge and CDMX Metro Line 12. He has experience testifying as an expert witness in depositions, and has investigated failures on hundreds of buildings. He has experience in design, analysis and investigation, including construction materials such as reinforced concrete, steel, masonry and wood. He has project experience in the residential, commercial and industrial sectors, including design and construction for multi-billion dollar petrochemical facilities.

Areas of Technical Expertise

- Forensic Engineering
- Property Loss Consulting
- Structural Engineering

Education

- M.S., Structural Engineering, 2010, The University of Texas at Austin
- B.S., Civil Engineering, 2009, Texas A&M University

Registrations

- Registered Professional Engineer in AL, FL, GA, LA, MO, MS, NC, SC, TN, and TX
- FAA Unmanned Aerial Pilot, UAS Part 107

Professional Activities

- Secretary, American Society of Civil Engineers, Committee on Forensic Investigations (ASCE)

Select Project Experience

Forensic Engineering

Confidential Adjacent Construction Evaluation, Sarasota, FL. Investigated alleged damage to a historic building due to construction of a neighboring high-rise residential tower.

James Rickards Middle School Collapse, Oakland Park, FL. Cause and origin investigation of a partial roof collapse.

Residential Sinkhole Damage Evaluations, FL. Investigated multiple litigation matters regarding damages due to foundation repairs to residences that suffered from sinkhole activity.

Multi-family Residential Stucco and Building Envelope Investigations, FL. Investigated multiple litigation matters regarding alleged construction defects due to the installation of stucco assemblies, fenestrations, framing, and exterior siding.

FIU Pedestrian Bridge Collapse, Sweetwater, FL.* Emergency response in the wake of a fatal pedestrian bridge collapse over a highly trafficked roadway. Assisted local authorities to gather evidence for further investigation. Utilized an unmanned aerial system, 3D laser scanner, and traditional photography to document the scene in the immediate hours after the collapse.

Condominium Construction Defect Investigation, 3315 Tower Condominium Association, Miami Beach, FL. Investigated alleged construction defects regarding waterproofing, tile flooring, guardrails, and stucco.

Condominium Construction Defect Investigation, Aria Condominium, Longboat Key, FL. Investigated alleged construction defects regarding rooftop paving systems, drains, waterproofing, stucco, and a pedestrian bridge.

Concrete Restoration Construction Defect Investigation, Coronado Condominium Association, Sunny Isles Beach, FL. Investigation of alleged construction deficiencies regarding a previously completed concrete rehabilitation project on a multi-level parking structure and pool deck.

*Denotes work performed with previous employer.

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Property Loss Consulting

Hurricane Ida, Confidential Building Envelope and Roof Assessment, LA. Investigated extent of hurricane-related damage to building envelope and roofing assemblies for multiple nursing home facilities throughout southern Louisiana.

Hurricane Sally, Condominium Building Envelope and Roof Assessments, Gulf Shores and Orange Beach, AL. Investigated extent of hurricane-related damage to exterior building envelope, fenestrations, and roofing assemblies for multiple condominium properties.

Hurricane Laura, Capital One Tower, Lake Charles, LA. Investigated extent of hurricane-related damage to the roofing systems and exterior glass curtain wall assemblies.

Hurricane Irma, Confidential Commercial Plaza Building Envelope and Roof Assessment, Miami Gardens, FL. Investigation to determine extent of hurricane-related damage to a 200,000+ square-foot commercial plaza consisting of multiple roof and exterior façade types.

Wind and Hail Evaluations, multiple locations, USA. Structural investigation to determine the extent of wind and/or hail damage to a variety of roof types for hundreds of structures.

Tornado Evaluations, FL, TX, OK and LA. Structural investigation of various types of commercial and residential structures to determine the extent of damage from tornado impact and suggested repair protocols.

Fire Evaluations, multiple locations, AL, FL, OK and TX. Evaluated damage from fire at residential and commercial properties. Evaluated the extent of fire damage to the steel and concrete structural elements at a sawmill facility in Alabama, and suggested repair protocols for damaged members.

Structural Damage due to Vehicle Impacts, FL, SC, and TX. Evaluated the extent of damage resulting from vehicle impacts to residential and commercial property.

Structural Engineering

Queensland Curtis LNG, Curtis Island, Australia. * Performed steel and concrete design on a multi-billion dollar industrial facility. Oversaw the entire life cycle of the project including design, on-site construction assistance, and startup of the facility. Responsible for coordinating and resolving the field-related issues in the civil and structural scope for entire project.

ExxonMobil Beaumont Refinery – SCANFiner Expansion, Beaumont, TX. * Performed preliminary civil/structural design for an expansion project at one of the largest refineries in the USA. The expansion project utilized proprietary technology to improve environmental impacts by removing sulfur from produced fuels. Responsibilities included creating the project specifications and standard drawings, as well as regular site visits to determine requirements for the expansion project.

Southeastern Grocers, Multiple Locations in FL and AL. Performed condition assessments for the structural components and roof surfaces at multiple locations of the commercial grocery stores. Identified hazardous conditions and provided repair recommendations. For select properties, prepared construction documents to replace the deficient roofing systems.

Sworn Testimony

Arbitration, Dale & Cindy Barber v. Nova Eng'g & Env't, LLC, regarding the standard of care for a third-party inspector of a monolithic foundation for alleged defects in a residential foundation. November 20, 2024.

Deposition, Venetian Bay Vill. Condo. Ass'n Inc. v. Wilhelm Constr., Inc., regarding alleged construction defects against a roofing contractor for 57 condominium buildings. October 25, 2024.

Deposition, 4431 Estero v. Certain Underwriters at Lloyd's, regarding the extent of wind and flood related damage sustained to a residence located on Fort Myers Beach, FL from the named storm Ian. August 1, 2024.

Deposition, Fairway Woods at the Forest I Condo. Ass'n, Inc. v. American Costal Ins. Co., regarding the extent of damages sustained to the tile roofs, windows, and doors of a multi-building condominium property in Fort Myers, FL from the named storm Irma. July 10, 2024.

Deposition, Venetia Gardens S. Condo. Ass'n, Inc. v. Everest Nat'l Ins. Co., regarding the extent of damages sustained to the tile roof systems of a multi-building condominium property in Homestead, FL from the named storm Irma. November 13, 2023.

Arbitration and Deposition, Kronlage Fam. Ltd. P'ship v. Indep. Specialty Ins. Co. & Certain Underwriters, regarding the extent of damages sustained to the roof systems of a commercial property in Baton Rouge, LA from the named storm Ida. December 6, 2023. November 27, 2023. September 8, 2023.

Deposition, Lisenby Prop., LLC v. Cymbal Prop., LLC regarding the evaluation of existing fire damage to a wood-framed apartment structure in Thomasville, AL. March 1, 2022.

Alternative Dispute Resolution

Insurance Appraisal for J.W. Mariner Corp., Panama City, FL. Testimony regarding an insurance dispute between a commercial building owner and an insurance company. The matter involved the determination of alleged damage to a roof deck and store front glazing due to Hurricane Michael.

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Select Papers, Lectures and Publications

"Evaluating Structural Damage to Wood-Framed Structures from Long-Term Deterioration: Determining Repair vs. Replacement Scope," ASCE Forensics Engineering 10th Congress, Seattle, WA, November 2024 (co-author)

"Recovery on the Rooftop: Nothing But (Mostly) Clear Skies," 2024 NASP Annual Conference, Phoenix, AZ, October 28, 2024 (co-presenter)

"Wind, Flood, and Building Code Considerations," GRS 2024, Carrier CE Conference, Bradenton, FL, June 13, 2024 (presenter)

"Late Reporting Claims with Prior Damage," PLRB Claims Conference & Insurance Services Expo, Orlando, FL, March 2023 (co-presenter)

"Aluminum Interaction with Cementitious Materials in a Coastal Environment," ASCE Forensic Engineering 9th Congress, Denver, CO, November 2022 (co-author)

"Short Course - Guidelines for Failure Investigations, Volume 2," ASCE Forensic Engineering 9th Congress, Denver, CO, November 4, 2022 (co-presenter)

"Complex Engineering for Property Cases," Florida Bar RPPTL Insurance and Surety Committee webinar, March 2021 (co-presenter)

"Guidelines for Failure Investigation," Second Edition, ASCE Press (contributor)

"Washed Away: What Hurricanes Have Wrought and What Is Left Behind," Federation of Defense & Corporate Counsel, 2019 Winter Meeting, Austin, TX, March 2019 (co-presenter)

CONTACT

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