

Nicholas Pineau, PE

Senior Structural Engineer

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EDUCATION

BS, Civil Engineering
University of Massachusetts Lowell
Lowell, MA
2016

MS, Structural Engineering
University of Massachusetts Lowell
Lowell, MA
2017

ACCREDITATIONS

Professional Engineer:
(MA)

Nicholas Pineau is a senior structural engineer with over a decade of experience in structural design, forensic investigations, and construction-phase evaluations across commercial, residential, and institutional buildings.

Nick's background includes investigation, analysis, and design of steel, concrete, timber, CMU, and light-gauge metal framing; field inspections and condition assessments; and preparation of technical reports and repair recommendations.

At Aperture (formerly CCA), in addition to design work, his work involves forensic matters regarding construction defects, structural performance, building envelope, and code-compliance. Responsibilities include review of project documentation, analysis of as-built conditions, site inspections, and development of clear, defensible findings for litigation and claims resolution.

Nick's combined design and construction administration experience enables evaluation of deviations from contract documents, improper installation, material deficiencies, and sequencing issues, with an emphasis on practical, code-informed remedies. He routinely collaborates with attorneys, insurers, owners, and design professionals to evaluate complex structural issues.

WORK EXPERIENCE

Aperture Consultants CCA, LLC (formerly CCA Construction Consultants, LLC) Burlington, MA
Jan. 2026 – Present
Senior Structural Engineer

LiRo-Hill Corp., Newton, MA
March 2022 – Jan. 2026
Structural Engineer

Roome and Guarracino, LLC, Woburn, MA
Sept 2020 – March 2022
Structural Designer

Souza, True & Partners, Inc., Waltham, MA
Sept 2017- September 2020
Structural Designer

Massachusetts Department of Transportation, Arlington, MA
June 2014 – January 2016
Engineering Design Intern

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REPRESENTATIVE PROJECT EXPERIENCE – PARTIAL LISTING

Goodnow Brothers Elementary School

Marlborough, MA: Served as one of the structural engineers for this 111,000 SF elementary school, an MSBA Model K–5 facility designed to accommodate approximately 610 students. The project consisted of a two-story composite steel structural system with light-gauge metal framing and steel bar-joist roof construction in select areas. The lateral force–resisting system incorporated steel moment frames in the main academic wings and reinforced CMU shear walls at the gymnasium. Responsibilities included the design and detailing of steel framing members, connection layouts, and foundation systems. Additional duties involved preparing structural drawings and coordinating with the architectural and civil design teams. Construction Administration services were provided throughout construction.

922 Massachusetts Avenue

Cambridge, MA: Served as Structural Engineer for this project involving substantial renovations to a four-story, 31-unit brick multifamily apartment building with approximately 22,000 SF of interior space. The renovations included a reconfiguration that altered the structural framing, a new elevator, reinforcing the existing framing to support a new lightweight concrete floor leveling topping, and reinforced roof framing to support a roof garden and assembly area. Significant structural detailing was required to upgrade the building seismically, and reinforcing the failing main timber support beams in the basement.

Lexington Ave Fire Station

Cambridge, MA: Performed structural engineering services for repairs and renovations for a two-story fire house. The exterior walls consisted of multi-wythe brick masonry that were supported on mortared stone foundation walls. The first-floor apparatus bay consisted of a damaged concrete waffle slab, portions of which were replaced with a new reinforced concrete slab.

52 West Emerson Street

Melrose, MA: Served as Structural Engineer for this project which consisted of a new three-story (6-unit) apartment building. The structural design consisted of engineered timber I-joist construction supported by steel and LVL beams on the first floor. The beam construction on the first floor allowed for below-grade parking in the basement. The lateral system consisted of timber shear walls with a timber-framed roof deck supported by the roof framing and extended above the roof membrane.

Richard Sugden Library

Spencer, MA: Served as Structural Engineer and Project Manager for this project which incldluded a water infiltration envelope study for the historic masonry building constructed in 1889. A capital improvement plan was developed to address water infiltration issues which ranged subsurface drainage issues to roofing. During the investigation, potential issues with the integrity of the roof framing were identified. The roof framing consisted of a timber hammer-beam truss system that was analyzed and found to cause excessive outward thrust on the exterior brick masonry walls, causing the walls to bow outwards, ceiling to deflect, and large cracks to form in the exterior walls. The trusses were reinforced at their connections and bottom chord steel tension rods were installed to resist the thrust loads.

Wayland CoA Community Center

Wayland, MA: Served as Structural Engineer for the renovation of an existing unfinished 13,000 SF single-story structure. The structure had been abandoned since circa 1990, and the architectural plan was to re-use the structure for a new community center. The structural design

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included a new front entry vestibule, a rear screen-enclosed patio area, and the reinforcement of the timber trussed roof framing for modern day snow loads and solar panels. Structural steel support beams were also designed to support multiple large folding partitions. The existing, partially complete, shear walls were reinforced to update the lateral system for modern code loads.

Cobble Hill Farm Foundation

Londonderry, VT: Conducted a forensic assessment of reported structural deficiencies in the concrete foundation of new residential construction. Work included a site inspection, review of drawings and construction documentation, and evaluation of materials and workmanship to determine causation and extent of damage.

Ocean Pointe Condominium Roof Damage

Long Beach, NJ: Performed a forensic review of storm-related roof damage following a high wind event. Assessed roof system performance through document review and site inspection, determining likely causes and required repair scope. Contributed to a written report and estimate outlining recommended corrective measures.

The Lofts – Litigation Expert Consulting

Stamford, CT: Provided engineering consulting for a dispute involving reported structural damage within a residential building complex. Reviewed technical documentation and cost evaluations to assess causes and extent of damage, with work performed in anticipation of litigation.

Stratus Condominiums v. Shawnlee Construction

Brighton, MA: Conducted an initial engineering review related to alleged construction defects at a multi-unit condominium property. Evaluated documentation and structural concerns to support early-stage dispute assessment. Assisted in developing technical interpretations of construction quality.

Solar Racking Failure

Shaftsbury, VT: Investigated unexpected failure of a solar racking system that resulted in structural damage. Reviewed design and installation documentation and conducted a site inspection to document failure modes and contributing conditions. Prepared written report outlining causation and scope of damage.

Stone Ridge Deck Replacement

Franklin, MA: Served as Structural Engineer to replace the exterior decks for this condominium complex. The decks consisted of various different sizes and elevations. Value engineering services were provided to assist the contractor in minimizing construction costs.

Miller Residence

Rehoboth, MA: Conducted an initial site visit and prepared a structural condition assessment per ASCE 11-99 guidelines. The existing structure consisted of a two-story building with wood-framing and concrete foundations. Aperture's assessment focused on inspection of the roof and upper-level framing associated with renovations to the project. This scope also included assessment of the newly installed second floor LVL transfer beams, and an evaluation of associated load paths to the basement. The complex roof geometry incorporates multiple slopes and several shed dormer

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structures, with rafters bearing on a mix of exterior walls and framed supports, creating an interconnected system of roof planes across the structure. The condition assessment identified multiple components installed by the contractor with non-prescriptive designs that required engineering evaluation.

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