

REPRESENTATIVE PROJECTS

Structural Design - Representative Projects:

- Oceanview Developers, LLC. - Seaside Heights, New Jersey
Eight unit, four story residential condominium project. Steel frame superstructure with concrete plank floors featuring an eighteen foot cantilever of the building over the driveway. Project is situated in a coastal high hazard area and utilizes a driven timber pile foundation.
- Zozzaro Brothers, Inc. - Clifton, New Jersey
Conversion of an existing 3,200 square foot warehouse into two floors of office space. A new second floor was designed of steel framing within the existing building shell. The exterior block walls of the building were strengthened to meet seismic requirements and to accommodate new window openings. HVAC upgrade required a review of the existing roof framing to carry new/additional roof top mechanical units. Foundation modifications were creatively minimized.
- Clover, LLC. - Hackensack, New Jersey
Twelve unit, four story residential condominium with parking below the building at grade. The ground floor structural system consists of a steel moment frame and elevated concrete deck with the upper three floors of modular wood-framed construction.
- Signature Building Systems, Inc. - Bloomsburg, Pennsylvania
Review of existing building to support a proposed underhung crane/gantry system. Conducted a full field investigation and analysis of the existing building framing. The main gable frames span about 108 feet over the factory floor and are constructed of tapered steel members. The structural response of the frames was analyzed with loads prescribed by the current building code and the code in force at the time of the original design. A report was prepared along with calculations.
- Brimar, Inc. - Garfield, New Jersey
Investigated the floor load capacity of a 1920's era reinforced concrete mill building. The four-way reinforced flat slab system with drop panels and column capitals was analyzed under past and present building codes utilizing the results of a field investigation and material testing. The analysis assessed current and maximum allowed service loads and load combinations and provided the owner with a report and recommendations for the safe use of the building.
- Signature Building Systems, Inc. - Moosic, Pennsylvania
Designed an 880 square foot steel framed (knee-braced) mezzanine structure to function as a free standing storage system within an existing factory. Created framing and foundation plans.
- River Edge Volunteer Ambulance Corps, Inc., River Edge, New Jersey
Designed garage renovations to accommodate future emergency vehicle upgrade.
- Fort Dix Army Base - Fort Dix, New Jersey
Provided structural consulting and design services related to the renovation of several existing reinforced concrete barracks buildings as well as the replacement of an existing spillway at an amphibious training area.
- Signature Building Systems, Inc. – Numerous Project Locations Throughout New Jersey
Wind resistance analyses and designs for modular buildings in hurricane-prone regions.
- Tetra Tech EC, Inc. - Newark, New Jersey
Performed pre-demolition surveys for several low-rise buildings per OSHA guidelines.
- Appiah Residence - Hoboken, New Jersey
Existing three story residential dwelling of modular construction. Led the structural and geotechnical investigation and designed a helical pier underpinning system to re-support the failing foundation. New piles to extend thirty feet down to dense till/refusal.

- Marange Design & Printing, Inc. - Belleville, New Jersey
Two-story timber mill building built around 1915. Responsible for the structural analysis and construction drawing preparation for the removal and re-support of six interior columns. Structural modifications needed to allow the acquisition/installation of a larger printing press.

Site, Civil and Sanitary Design - Representative Projects:

- Property at Oaktree, Inc. - Edison, New Jersey
Prepared a full set of site plans for a 4,100 square foot, two-story office building with on-site parking and retaining walls. Provided expert testimony at township hearings. Project was sold prior to approval.
- Davey's Irish Pub & Restaurant - Montvale, New Jersey
Project involved combining the restaurant parking area with that of an adjacent bank property. Several vehicular circulation schemes and parking layouts were reviewed along with a new shared access drive to the site. Coordinated layout with fire department, planning board and county requirements. Provided expert testimony before planning board and environmental commission and won approval for project.
- Mamary Residence - Franklin Lakes, New Jersey
Developed a full set of site plans for a 6,200 square foot residential dwelling sited on a one acre lot. Design work included retaining wall layout, septic system design, pool layout, drainage design, soil movement calculations, and a steep slope disturbance analysis. Provided expert testimony at borough hearings.
- Einarsson Residence - Clifton, New Jersey
Investigated the flooding of a residential dwelling sited next to a stream. Researched state flood maps and stream profiles. Prepared a report to recommend available options in keeping with the regulations of the New Jersey Department of Environmental Protection.
- 123 Kindercare Center, Inc. - Fairfield, New Jersey
Enabled client to win approval for a childcare facility proposed within a former office building. Issues related to traffic circulation, parking and drop-off of children were creatively resolved.
- Clover, LLC. - Hackensack, New Jersey
Provided consulting services in conceptual phase of site development and brought project through to approval. Site features include an underground chamber system for stormwater detention and segmental retaining walls.