

MH Professional Engineering, PLLC



COMMERCIAL & RETAIL PROJECT EXPERIENCE

RITE AID PHARMACY

Various locations throughout NY, CT, MA, VT and NJ

- MH Professional Engineering possesses extensive experience with regard to engineering state-of-the-art pharmacy/drug store facilities.
- Our firm has completed Rite Aid Pharmacies in Greece, Canastota, Binghamton, Troy, Sidney, Auburn, Geneva, Syracuse, Horseheads, West Sand Lake, Clifton Park, Canton, Chestertown, Baldwinsville, and Saratoga Springs, NY; Ledyard, East Hartford, New Haven, and Monroe, CT; Lee and Southwick, MA; Fair Haven, VT, and Lake Hiawatha, NJ.
- The average Rite Aid building is 14,000 ft².
- MH Professional Engineering implemented the standard Rite Aid design criteria for all buildings. Incorporation of criteria design changes during the design and construction phases were also addressed with the projects.



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WALGREENS PHARMACY

Various locations throughout NY

- MH Professional Engineering has served as the lead Mechanical, Electrical, Plumbing & Fire Protection Engineers on Walgreens Pharmacies in Gloversville, Troy, and Amsterdam, NY.
- Design of the Walgreens Pharmacies utilized the standard design criteria; however, each building had major deviations from the typical architectural layout.
- MH Professional Engineering had to design the building systems to meet customized architectural layouts while maintaining the intent of Walgreens' design criteria.



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GOLUB CORPORATION

Schenectady, NY

- Lead Mechanical engineer for system upgrades to various specialty areas in Price Chopper stores, including pharmacy, bakery, seafood, sushi bar, coffee kiosk and loading docks.
- Project locations include Glenmont, Colonie, Queensbury, Albany and Cooperstown, NY, and Shrewsbury, MA.

CONSUMERS COOPERATIVE

Niskayuna, NY

- Lead Mechanical and Electrical engineer for renovations to the facility.
- Upgrades included the replacement of faulty HVAC equipment and distribution ductwork, as well as the addition of accent lighting at various product areas.



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NEDLOH BREWERY

Rochester, NY

- Served as the lead HVAC and Electrical Engineers.
- Facility is a microbrewery and tasting room. Spaces include a two-story brewery area, grain storage area, large general storage area, product cooler, offices, and a tasting and merchandising area for customers.
- Design included refrigeration for product cooler, VRV heat pump system for all office areas, rooftop unit for general heating/cooling/ventilation of tasting room, and a steam boiler for brew process.
- Electrical design included new service, emergency power, generator, VESDA fire detection system, and power coordination with brew equipment.
- Lighting design included several unique features:
 - Brew House needed bright lighting for working, but dimmable with areas highlighted for viewing effect for customers.
 - Tasting Room included several custom fixtures to blend in with local flavor and ambience of space.
 - Merchandising Area required tight coordination of display lighting with display casework.
 - Several areas received cove uplighting to highlight 35-foot open truss roof height.



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RENSSELAER TRAIN STATION PARKING LOT EXPANSION

Rensselaer, NY

- Lead Electrical Engineer.
- Designed relocation of 5KV power line.
- Designed site lighting and power for the new parking lot area.
- Coordinated powered gate equipment for relocation.
- Coordinated with Amtrak and National Grid.
- Completed a code/standards review.



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SHOPS 4U, PRICE CHOPPER

Queensbury, NY

- Existing coffee kiosk was removed and space was reconfigured to provide Shops 4U area.
- Scope of work included modifications to sanitary waste, domestic water, electrical, and HVAC system.

LYONS DENTAL CARE

Rochester, NY

- Lead Mechanical and Electrical Engineer for rehabilitation and reconfiguration of general office space to a dental office.
- Spaces included operatories, lab space and Panorex X-ray.
- Design of systems included upgrades to meet Article 28 requirements (FGI 2010).

ST. VINCENT DE PAUL CHURCH RENOVATIONS

Albany, NY

- Lead HVAC, Electrical and Plumbing Engineer.
- Plumbing design included a new bathroom and connections to a new baptismal font.
- A small sewage ejector was provided to service the new bathroom along with a dedicated instantaneous water heater.
- Provided new power distribution to the baptismal font bubbler and heater, new lighting Lutron dimming system, and relocated altar and choir area equipment.
- An air conditioning system was provided for sanctuary area using high efficiency, quiet console units.

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22 CORPORATE WOODS, NEW FIRE ALARM SYSTEM

Albany, NY

- Lead Electrical Engineer.
- Provided electrical engineering design services for the replacement of the existing fire alarm system within this sprinklered 5-story 250,000 ft² building.
- The existing fire alarm system was completely removed upon completion of the new fire alarm system.

REPLACE BOILERS, ADMINISTRATION BUILDING AND LINCOLN BATHS, SARATOGA SPA STATE PARK

Saratoga Springs, NY

- Lead Mechanical and Electrical Engineer.
- Replaced 2 - 2800 MBH boilers serving the administration building utilizing existing utilities and control systems.
- Replaced 2 - 2700 MBH boilers serving the Lincoln Baths utilizing existing utilities.
- Provided new direct digital control system to control the boilers, primary and secondary pumps.
- Replaced primary and secondary pumps and valves for both buildings.
- Provided new direct digital control system to control the boilers, primary and secondary pumps in the Lincoln Baths.
- Provided modifications to electric power distribution for the new boilers and pumps.



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STATE UNIVERSITY OF NEW YORK HEADQUARTERS

Albany, NY

- Lead Mechanical, Electrical, Plumbing and Fire Protection Engineer for the renovation of four floors on the south tower of the SUNY headquarters.
- HVAC system consisted of replacing fan coil units, VAV boxes, constant volume boxes and duct distribution system. Hot water and chilled water piping distribution system was also replaced.
- Plumbing systems included the installation of new water and sanitary systems for new toilet rooms, replacement of storm water drainage, and extension of chilled water drinking system.
- The fire sprinkler system was replaced for each floor renovated.
- Electrical power distribution was upgraded to meet new office layouts for each of the four floors.
- Building management system was expanded to include all equipment provided.



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SOUTHERN ADIRONDACK ARTS AND FAMILY RETREAT CENTER

Mayfield, NY

- Lead Mechanical, Electrical and Plumbing Engineer.
- Design of kiln exhaust and makeup air system for pottery room.
- Modifications to existing HVAC systems for modified floor plan.
- Design of makeup air system and hood exhaust for new teaching kitchen.
- Renovation included the design of a new elevator, expansion of existing fire alarm system, reuse of some light fixtures, replacement of some light fixtures to provide higher light output to accommodate new room use, and power to new kitchen equipment.
- Design of two new work sinks with plaster traps for pottery room and art studio. The installation included the provision of individual waste pumps to allow the sinks to discharge into the building's existing sanitary system.
- The building's hot water recirculation system was modified to accommodate the installation of the sinks.
- Design of plumbing systems for new teaching kitchen including domestic water heater and grease trap.

251 STATE STREET, BUILDING EVALUATION, FIRST NIAGARA

Schenectady NY

- Lead Mechanical and Electrical Engineers for a feasibility study and upgrade of an existing office building.
- Existing mechanical system (1965) was a dual duct air handling system. Over time, major portions of the distribution system were removed from this system as renovations took place due to a lack of understanding of how the system worked.
- MH Professional Engineering provided a planned approach to the new building owner regarding how to complete HVAC and electrical system upgrades to keep the building operational during renovations and make it desirable for future tenants.

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BATH HOUSE, CAMP IS-SHO-DA, GIRL SCOUTS OF NORTHEASTERN NEW YORK

East Greenbush, NY

- Lead Mechanical, Electrical, and Plumbing Engineers for a new bath house at a Girl Scout camp.
- Designed new exhaust system to accommodate the restroom and bathing areas.
- Designed new plumbing systems with the ability to fully drain the system in winter.
- Provided electrical design sketches showing power distribution from existing pump house to proposed bath house.
- Investigated the existing campus power distribution system.
- Provided electric power distribution to lighting, receptacles, exhaust fan, water heater and circulation pump.

