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## Commercial

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### Manassas Mall

Manassas, VA

Construction Cost: \$275,000 Size: 43,035 sq-ft

RAN Fire Protection Engineering performed fire protection engineering consulting services for the expansion project on the Manassas Mall. The scope of services included the development of design criteria for use in a performance specification for the development of contractor's bid basis and reviewing the working drawings to verify agreement with the design intent. The design of the fire protection systems had to be incorporated into existing systems.



### Burlington Coat Factory

Latham, New York

Construction Cost: \$75,000 Size: 40,000 sq-ft

RAN Fire Protection Engineering was retained to provide HVAC, mechanical, electrical, and plumbing, and fire protection engineering services for the building renovation. The fire protection system included a sprinkler and standpipe system. HVAC drawings showed all heating/ cooling unit locations, special exhaust systems, preliminary system layouts, and preliminary equipment selections. The scope of the electrical services included the design of electrical distribution, lighting, emergency power, and fire alarm systems.

### Sheraton Hotel

Boston, MA

Construction Cost: \$700,000 Size: 80,000 sq-ft

RAN Fire Protection Engineering has been the MEP & FP engineer for hotel space renovations. The renovations were completed adding more comfortable hotel accommodations, amenities and retail shopping conveniences for the hotel's patrons and clients. The space improvements help in maintaining client retention and attracting new customers.



### Ollie's Bargain Outlet

Plattsburgh, NY

Size: 32,200 sq-ft

RAN Fire Protection Engineering provided fire protection design services for 32,200 sq-ft of the Ollies Shell Space located in Champlain Centre. The Fire Protection Service included Fire Sprinkler Design for the upcoming building modifications as well as a redesign of the fire alarm system to withhold the future modifications of future tenant use.

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### Kay Jewelers

Yonkers, NY

Construction Cost: \$150,000 Size: 2,000 sq-ft

RAN Fire Protection Engineering has years of experience with planning and design for enclosed malls. Small tenant fit-out projects are our specialty. RAN provided fire alarm design services for the new mercantile occupancy. The new fire alarm system was integrated into the overall mall protection.



### Car-Freshener Corporation

Watertown, NY

Construction Cost: \$92,000 Size: 23,000 sq-ft

RAN Fire Protection Engineering provided complete fire protection engineered construction plans and consulting services for the addition to the Car-Freshener building. The fire protection design drawings included a hazard classification of the building space, a sprinkler and piping location plan, and hydraulic calculations. RAN responded to bidder's questions, issued the addenda, and processed the sprinkler ship drawings and submittal as a part of the construction administration services.

### Skyview Community Center

Rochester, NY

RAN Fire Protection Engineering helped with this renovation by providing fire protection engineering services for the tenant areas within the new community center. This took place during the design phase work for fire protection sprinklers, fire alarms, and any other additional items that required a qualified fire sprinkler contractor. RAN provided specified water supply, occupancy sprinkler performance, design criteria, etc., that met the codes and requirements for the new community center.



### Gulf Tower

Pittsburgh, PA

RAN Fire Protection is part of the repair process that is needed to reopen the Gulf Tower that involves the replacement of the existing fire pump, fire protection design, and code consulting services. RAN evaluated the fire pump system to identify the pressure needed to protect the building. The design requirements incorporated requests from the building and fire officials as well as include electrical emergency and standby power system requirements. As part of the fire pump design, RAN identified fire protection systems that may be impacted by the replacement of the fire pump.



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### Agora Multi-Purpose Space

Orange, CT

Size: 11,000 sq-ft

Agora Multi-Purpose Space can be used for a variety of different occasions. This function allows for diverse environments and utilizing space. RAN provided the design criteria information for Davis-Ulmer Sprinkler Co., Inc. to develop working drawings. RAN also reviewed the working drawings to verify agreement with the design intent and stamp them in compliance with State of Connecticut regulations for design delegation.



### Warehouse Distribution Center East Syracuse

Syracuse, NY

RAN was acquired to perform fire protection consulting services, which included reviewing and stamping two separate documents. Those two documents were drawings and specifications. The drawings only required a stamp of a professional engineer and not for the engineer of record, so RAN just reviewed those documents.

The specification documents were different. RAN reviewed and stamped those because the design-build contractor is responsible for all required seals necessary to secure a construction permit.

### Greenfield Parking Garage

Greenfield, MA

Size: 4 Stories

RAN was retained to perform construction design services, as well as construction administration services. RAN designed a Class I manual dry standpipe system for the Greenfield Parking Garage. RAN also reviewed submittals and held a site visit at the end of construction to verify that the project was completed correctly.



### Burke Dunkin Donuts

Malta, NY

RAN provided fire protection engineering consulting services for the Burke Dunkin Donuts project at 9 Round Lake Road in Malta, NY. Services included a review of the proposed building plans, site information, and correspondences with the Town. Development of a code analysis to identify the code required fire protection,

specifically site access. Lastly, supplied a memo report on the required level of protection based on the developed code analysis.

### Mennen Arena Sprinkler Assessment

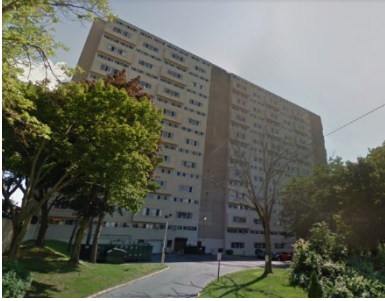
Morristown, NJ

Size: 20,000 sq-ft

RAN provided fire protection engineering consulting services to review and analyze the existing sprinkler systems within the Mennen Arena in Morristown, NJ. The intent of the study was to review the existing sprinkler system installations and document the hydraulically remote areas as needed to allow for performance of hydraulic calculations per current NFPA-13 requirements.



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### Rip Van Winkle Building

*Poughkeepsie, NY*

*Size: 15,900 sq-ft*

RAN Fire Protection Engineering was retained to observe the existing fire sprinkler and standpipe systems within the Rip Van Winkle Building. As a result of the system assessment a memo was written outlining the conclusion that the existing fire protection systems was not provided with adequate means of cross connection control per NYS Department of Health Requirements. This caused a concern when the fire department

attempts to supply the standpipe system through the fire department connection (FDC) during a fire event. The fire department asked that the system be reviewed to determine the impact of installing a backflow preventer on the fire protection water service entrance line.

### Eastern Bank

*Dedham, MA*

Lead Fire Protection Engineer performed consulting services, as well as a sprinkler system design sketches showing preliminary head layout, pipe sizing and its water service. In addition, this project involved the design of fire alarm horn strobe, pull station and initiating device layout with the appropriate interlocks to mechanical HVAC equipment and security system for building egress code compliance. Hydraulic calculations were performed for NFPA 13 compliance. Lastly, a due diligence report was constructed to document and explain the existing conditions.



### Schenectady Hibernians

*Schenectady, NY*

*Size: 6,473 sq-ft*

RAN was retained to document the existing conditions of the sprinkler system, which includes layout of the heads and piping. To perform hydraulic calculations to determine if the existing system will meet NFPA 13 requirements. Finally, to provide a draft memo on the findings for use.

### Graybar Halfmoon FA

*Halfmoon, NY*

The scope of services performed by RAN included reviewing the working drawings, calculations, and product submittals to verify agreement with the design intent and stamp them in compliance with SED regulations for design delegation.



### 65 Print Works Drive Office Reconfiguration

*Adams, MA*

RAN was tasked with the development of architectural background files in AutoCAD format. Architectural backgrounds were limited to the area of work and will contain only the information relevant to the sprinkler system design. Additionally, sprinkler heads were laid and hydraulic calculations of the sprinkler system for NFPA 13 compliance were calculated.





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### Mohawk Harbor Office & Retail

Schenectady, NY

RAN Fire Protection Engineering provided their consulting services on a sprinkler system project. RAN was provided drawings of a fire sprinkler system, which they assessed to check for code compliance and requirements. They also made suggestions for improving the sprinkler design and layout.



### Media Tech Center 1025 Old Country

Westbury, NY

Size: 6,000 sq-ft

Services provided by RAN for the data center build out for Media Tech Center included design drawings, construction administration, and construction documents.

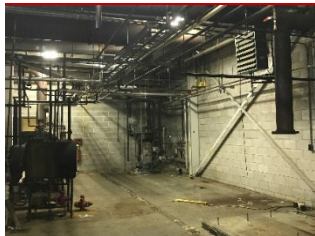
Furthermore, the fire protection design drawings included modifying the existing pre-action sprinkler system for the data center and a sprinkler and piping location plan in

compliance with NFPA 13. As well as modifying the existing fire detection system for the data center, design of notification appliance for the data center, and design of monitoring by the existing building fire alarm system.

### Quincy Hancock Parking Facility

Quincy, MA

RAN Fire Protection Engineering provided fire protection system designs and construction administration. The systems that RAN designed included standpipes, fire extinguishers, sprinklers, and fire alarms. After the client was satisfied with the design, RAN continued their services by providing construction administration.



### 53 Smith Road Middletown

Middletown, NY

RAN provided fire protection engineering consulting services to review and analyze the storage area located at 53 Smith Road in Middletown, NY. The intent of the study was to review the existing storage arrangements and commodities and existing sprinkler system layout to determine applicable NFPA-13 design criteria and to perform preliminary hydraulic

calculations to determine the maximum allowable storage height as well as potential design modification options which will allow for an increase in storage height.

### Windsor Village Plaza

Clifton Park, NY

RAN Fire Protection Engineering provided fire protection engineering design services for the tenant fit up of Windsor Village Plaza. There were two tenants, Blaze Pizza and Core. The installation of a complete wet type, automatic sprinkler system with all piping, riser, distribution grid sprinkler heads and materials that comply with state, local NFPA and authorities having jurisdiction codes and requirements was designed for Blaze Pizza. Additionally, a fire riser shall be located outside the tenant space. Core required fire sprinkler services, backflow device, lateral lines, and distribution of heads per RAN's plans. Additionally, fire alarms were required.



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### Champlain Center Escape Room

Plattsburgh, NY

Size: 3,400 sq-ft

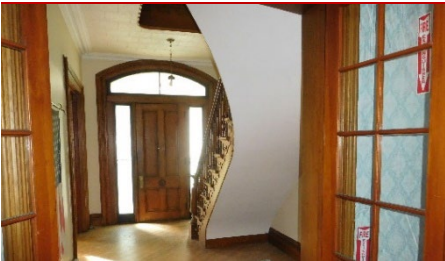
RAN Fire Protection Engineering provided construction documents and construction administration services to the Champlain Center Escape Room in Plattsburgh, NY. RAN designed sprinkler and piping drawings, as well as performed hydraulic calculations. They classified hazards within the building area and included them in the drawings. After the drawings were completed, RAN provided their construction administration services.

### Akwesasne Mohawk Casino

Hogansburg, NY

Size: 20,00 sq-ft

RAN Fire Protection Engineering was retained for fire protection engineering services designed for a 20,000 square foot total project consisting of the Sprung Structure renovated area and the Micro-Brewery addition, located in Hogansburg, NY. The scope of services included fire sprinkler design and fire alarm design for the proposed buildings.



### Malone HHAP

Malone, NY

RAN Fire Protection Engineering was retained to provide construction documents and construction administration services to one of the HHAP locations. RAN designed fire protection drawings, as well as performed hydraulic calculations. They classified hazards within the building area and included them in the drawings. Fire alarm system drawings were designed with automatic and manual fire alarm

device initiation layout in compliance with NFPA 72, including carbon monoxide monitoring device layout, alarm notification appliance location layout in compliance with NFPA 72 and ADA, and device monitoring of the sprinkler system.

### Northeast Carpenters Union

Albany, NY

Pursuant a request, the following proposal for design/build engineering services was provided for the existing fire sprinkler system at 14 Corporate Circle. RAN Fire Protection Engineering performed fire protection engineering services for the design of a sprinkler system at Northeast Carpenters Union. Further scope of the service included: the design criteria information for SRI Fire Sprinkler, LLC to develop working drawings, confirmation, and review of the working drawings to verify agreement with the design intent and stamp them in compliance with SED regulations for design delegation, And a site visit for field observation.

