

## Hart Theatre

Albany, NY

Client: NYS Office of General Services

Construction Cost: \$330,000 Size: 10,000 sq-ft

The EGG is a performing arts venue that has become one of New York's Capital District icons due to its unusual shape and central location in the Empire State Plaza. The Hart Theatre located inside the EGG, contains fifteen-tiered seating rows, and wraps around a dual hydraulic lift stage.

With many people gathering at the Hart Theatre, ensuring that fire protection needs, and requirements are met, it is important to increase occupant safety. RAN Fire Protection Engineering was retained to evaluate the existing proscenium fire curtain of the stage at Hart Theatre, the existing escalator fire shutter, and the associated fly cable system. RAN provided recommendations and code compliance design options to increase the performance levels of the existing systems and increase safety.



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## Catholic Charities

Binghamton, NY

Construction Cost: \$50,000 Size: 11,000 sq-ft

Catholic Charities is an organization dedicated to caring for and helping those in need. While doing this, they promote human development, collaboration, and the elimination of poverty and injustice.

RAN Fire Protection Engineering was retained to perform consulting and design services for the design of fire sprinklers for the additions to the Catholic Charities building. The

sprinkler system design included a classification of hazard to establish design criteria, sprinkler piping and sprinkler layout, and hydraulic calculations.

## Mission Church

Holmes, NY

Construction Cost: \$100,000 Size: 24,000 sq-ft

RAN performed fire protection engineering consulting and design services involving a sprinkler system design. The design included sprinkler piping and sprinkler layout, hydraulic calculations, and electric fire pump and sizing of the required water supply. The designs incorporated aesthetic aspects to blend into the existing structure and produced maximum safety for the church and occupants.





### Rainbow Wedding and Banquet Hall

Altona, NY

Size: 19,600 sq-ft

The Rainbow Wedding and Banquet Hall is a family owned and operated business that hosts several events. A few of those events hosted big names such as Eliot Spitzer and Hillary Clinton.

RAN Fire Protection Engineering provided preparation of final design documents for the design/build with All Safe Fire Sprinkler Services including coordinated fire protection drawings and a fire alarm system for the new

building. A fire alarm system design was requested as an additional service as part of a design/build installation.

### Colonie Elks Lodge Pavilion

Colonie, NY

Size: 4,942 sq-ft

The Colonie Elks Lodge is a part of The Benevolent and Protective Order of Elks of the United States of America. These Lodges are places for neighbors to come together, families to share meals, and kids to grow up.

RAN Fire Protection Engineering was employed to provide review and analysis of fire protection drawings for Colonie Elks Lodge Pavilion located in Colonie, NY. Additionally, RAN reviewed the working drawings to verify agreement with the design intent and stamp them in compliance with SED regulations for design delegation.



### House of Mercy

Rochester, NY

The House of Mercy was started in 1985 by Sister Grace Miller because of the homelessness she witnessed in Rochester, NY. Since then, the House of Mercy has blossomed into a place where anyone in need can go. A few of their services include food, shelter, clothing, treatments for substance abuse, spiritual services, advocacy assistance, and drop-in emergency services.

With the house of Mercy being a valuable resource and place for many within the community, RAN Fire Protection Engineering was retained by Passero Associates. RAN provided a code compliance and constructability review of the sprinkler system design and installation documents. Suggestions were recommended by RAN in order to maximize occupant safety and protection for the building.

### Ventfort Hall Elevator Renovation

Lenox, MA

Size: 9,500 sq-ft

Ventfort Hall Mansion and Gilded Age Museum is a historic building that was built in 1893 for Sarah Morgan, the sister of J.P. Morgan. This two-story building is kept alive through lectures, exhibits, performances, etc.

Fire protection engineering design services for the Ventfort Hall elevator renovation were performed by RAN Engineering. The scope of services included: Fire Protection Drawings to indicate the scope of work required for the installation of the new elevator system. Relocation of the basement sprinkler system was required to omit sprinkler protection within the elevator machine room and elevator pit per 780 CMR

requirements. On the second floor, one sprinkler was required in the elevator vestibule and one sprinkler in the adjacent corridor per AHJ direction. Fire Alarm Drawings were indicated in the scope of work required to connect smoke and heat detectors associated with elevator recall to the existing fire alarm panel. The fire protection services provided by RAN helped preserve the history written within those walls of Ventfort Hall.



### Northway Church

Clifton Park, NY

RAN was asked to provide the following scope of services including: reviewing all contract drawings and current installation conditions for compliance with design intent, reviewing applicable codes and standards to develop a code path to allow for the use of Haze within the experience hall during church services, reviewing drawings and specifications of fire protection installation and modifications, and Arbitration with Authorities Having Jurisdiction to make sure that proposed for protection measures

address their concerns as required. RAN developed a written report summarizing RAN's findings, conclusions, and recommendations.

### Sisters of St Joseph

Watertown, NY

RAN Fire Protection Engineering performed fire protection engineering consulting services for the evaluation of the Sisters of St. Joseph building located in Watertown, NY. The intent of the consulting services was to determine the level of fire protection required within the building (i.e., sprinklers required throughout or only within the proposed addition), determine if the existing water service entrance could support the demand of a potential sprinkler system, and determine fire hydrant location requirements within the vicinity of the building.





### Darien Lake Performing Arts Center *Darien Center, NY*

The Darien Lake Performing Arts Center or PAC is an outdoor venue, primarily music, located at Six Flags Darien Lake in Darien, NY. The venue was opened up in 1993 in order to replace the Lakeside Amphitheater concert venue. The PAC is now a widely known venue and is operated by live nation, an American global entertainment company. The amphitheater has a capacity of 21,600 people and holds 6,410 seats under the pavilion.

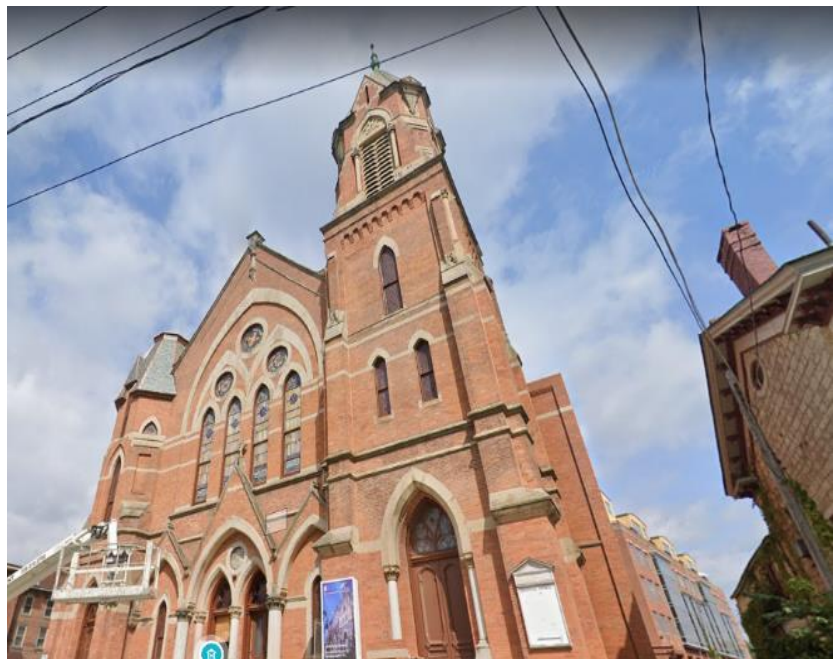
RAN Fire Protection Engineering was brought on as a consultant for the life safety review at the Darien Lake Performing Arts Center. RAN's third-party quality control review included all aspects of the fire protection design, including devising a

holistic approach to assessing the probable performance of the mass notification and emergency response systems for the 21,600-person capacity venue. RAN also performed a mass evacuation egress analysis for the facility which discussed placement of gates, security barriers and existing flow paths during an emergency.

### UPH Universal Preservation Hall

*Saratoga Springs, NY*  
Size: 31,500 sq-ft

The Universal Preservation Hall is a year-round arts and community events venue. The building was built in 1871 and was originally used as a Methodist Church. In 1976 the building was sold to Universal Baptist Church, but it slowly fell apart and had to be condemned. The community members could not bear to see the building be demolished, so they dedicated their time to repairing this historical building. Finally in 2015 the Universal Preservation Hall became a part of Proctors Collaborative. The mission of this historical building was to give back to the community through arts, education, sustainable economic development, and rich civic engagement.



RAN Fire Protection Engineering performed fire protection engineering services for the proposed renovation of Universal Preservation Hall in Saratoga Springs, NY. The scope of services included both sprinkler and fire alarm design for the proposed building, as well as construction administration. These services provided by RAN helped preserve the building that the community fought so hard to save.