

GROVELAND CORRECTIONAL FACILITY

Sonyea, NY

Client: NYS Office of General Services

RAN Engineering provided plumbing design services for 3 buildings at the Groveland Correctional Facility. RAN was in charge of designing the removal and replacement of the hot and cold water piping from the mechanical rooms to the bathrooms. A phasing plan was developed for the facility to remain functional while construction was in progress.



Elmira, NY

Client: NYS Office of General Services

Standpipe Design Master Planning

Elmira Correctional Facility is a maximum security state prison holding approximately 1,800 inmates. RAN Fire Protection Engineering replaced Elmira's existing standpipe system with a new Class III standpipe system in 11 of the facility's buildings. A standpipe supply loop was installed, which supplied water from a new centrally located electric fire pump. A variance was obtained to incorporate the unique features of this historic construction and to meet code requirements.

C Block Plumbing Upgrade

Elmira Correctional Facility had existing plumbing that dated back to the late 1930s in Building 20. The facility had reported failures with fixtures, plumbing vent piping, soil piping, and cold water supply to the cells. RAN engineers designed a new integrated plumbing system that allowed the facility to remain open while construction was in progress, since the facility was fully occupied and had limited swing space. All supply piping, waste piping, and vent piping were removed and replaced. All Soil piping in the facility was replaced with no-hub cast iron. All water closets and lavatories in all the cell areas were removed and replaced with water effcient, stainless steel fixtures.



Construction Cost: \$1,057,000 Size: 20,000 sq-ft



Construction Cost (phase 1): \$3.5 million Size: 11 Bldgs



Construction Cost: \$3.7 million Size: 52,000 sq-ft



OGDENBURG CORRECTIONAL FACILITY

Ogdensburg, NY Client: NYS Office of General Services

RAN Fire Protection Engineering was the project engineer on the renovation of the Flower Building bathrooms. The building was originally constructed after the conclusion of World War II. RAN engineers facilitated the design for the removal and replacement of wall showers and thermostatic mixing valves. Low voltage shower controls were provided from Correctional Officers desk to wall showers. Floor drains were removed and replaced in shower and toilet areas to comply with current shower drain Department of Health code requirements. Institutional sprinklers were also replaced in the shower rooms. A phasing plan was developed in this fully occupied area.



Construction Cost: \$400,000 Size: 10,000 sq-ft

WOODBURNE CORRECTIONAL FACILITY

Woodbourne, NY Client: NYS Office of General Services

RAN Engineering was retained to design a new bathroom building next to the facility's ball field. The new building provided adequate facilities for the population of inmates in the facility. RAN provided plumbing engineering services to this facility.





Construction Cost: \$433,000 Size: 128,000 sq-ft



Construction Cost: \$350,000 Size: 5,000 sq-ft

ATTICA CORRECTIONAL FACILITY

Attica, NY

Client: NYS Office of General Services

Attica Correctional Facility is a maximum security prison constructed in the 1930's. Attica needed their fire suppression system to be upgraded in the building15 kitchen. RAN Fire Protection Engineering designed a fire suppression system as well as a sprinkler system. A phasing plan needed to be developed for this project to keep the kithchen fully operating throughout construction.



Youth Detention Centers

TABERG RESIDENTIAL CENTER

Taberg, NY

Client: NYS Office of General Services

The New York State Office of Children and Family Services has multiple residential centers throughout New York State. The residential centers are multi-building institutional type campuses where residents have limited access.RAN Fire Protection Engineering was retained to design the fire alarm system at the Taberg Residential Center. The design consisted of implementing a detection, alarm, and fire protection system that interface across 5 buildings of various occupancy types. Additionally, the system was designed to connect with the existing fire alarm system at a nearby sister residential center: Annesville Residential Center.



Construction Cost: \$188,000 Size: 30,880 sqft



Construction Cost: \$284,000 Size: 42,000 sqft

BROOKWOOD SECURE CENTER

Lansing, NY

Client: NYS Office of General Services

Brookwood Secure Center is a fully secure detention facility for boys. RAN Fire Protection Engineering was retained to evaluate the existing conditions of the fire alarm system and to provide options for combining the multiple systems into one existing system. Due to the nature of the facility any manual fire alarm boxes were installed at the staff offices in the residential wings. New Fire alarm systems were installed in four buildings and all of the existing fire alarm systems were networked.

Other Youth Detention Centers RAN has provided services for include:

New Jersey Training School Lansing Juvenile Residential Center Allen Residential Center Brentwood Residential Center Red Hook Residential Center YLA City Challenge Adirondack Residential Center Parker Training Acadamy Columbia Residential Center

RAN has experience working with 84% of the currently open Youth Detention Centers in New York



Youth Detention Centers

YLA, CITY CHALLENGE

New York, NY

Client: NYS Office of General Services

The scope of service for this project involved the replacement of the existing fire alarm and detection system with a new protected premises system to enhance operational benefits and reduce risk of loss. The new system is a conventional zoned system connected to the existing central station monitoring service. The project scope also included the monitoring of the kitchen hood suppression system.



Construction Cost: \$239,000 Size: 8 Buildings



Construction Cost: \$81,000 Size: 34,000 sq-ft

ALLEN RESIDENTIAL CENTER

South Kortright, NY

Client: NYS Office of General Services

RAN Fire Protection Engineering designed the replacement of the existing fire detection and alarm system with systems to enhance operational benefits and reduce the risk of loss. New fire alarm control units were installed in each building that are fully-addressable and network capable. A master fire alarm control panel was installed to monitor all fire alarm systems at both Allen Residential and the Youth Leadership Academy. The Project included the design of a campus wide signal conduit system and fiber cable network.

NEW JERSEY TRAINING SCHOOL

Jamesburg, NJ

Client: State of New Jersey

The New Jersey Training School is a boys juvenile detention center. RAN Fire Protection Engineering designed a wet, a dry, and a pre-action sprinkler system to meet the needs of different areas of the building. Fire-rated walls, smoke partitions, and fire-stopping details were coordinated with the fire-suppression piping drawings. The double interlock preaction system in particular was designed to serve the boys living facilities, providing a suicide and tamper proof sprinkler system.



Construction Cost: \$90,000 Size: 26,000 sq-ft