



Salvation Army Fire Alarm Replacement

88 Preble Street, Portland, ME

SCOPE OF WORK:

Tyco Integrated Security, at the direction and with the approval of the building owner, intends to replace and upgrade the existing Notifier System 5000 fire alarm system with a new UL-listed, addressable fire alarm system in a manner that will provide both notification and detection within the building.

The existing system includes minimal fire alarm initiating zones. The existing sprinkler connections and elevator recall equipment will be transferred to the new system.

Most existing audio/visual notification devices including horn/strobes, etc. will be replaced with the exception of rest room strobes, sleeping room horns, and first floor ceiling-mounted horn/strobes. These devices seem to be in working order and will be replaced only if found to be non-functioning.

The new control will include a transmitter to send alarm signals to the existing municipal alarm box via connections provided at the new control panel by the Portland fire department.

The fire alarm system will also be monitored via a 2-line DACT integral to the FACP by the Tyco Integrated Security monitoring center, a UL-listed central station. This service will include central station monitoring and annual testing & inspection of the system per NFPA code.

Existing smoke detectors (including elevator recall detectors), a boiler room heat detector, and all manual pull stations will be replaced with new addressable devices.

New manual pull stations will be added in the basement and the first floor rear area.

A new horn/strobe will also be added in the rear first floor area. The second floor dining area horn will be replaced with a new horn/strobe.

Any non-functioning devices not previously covered, wiring, or additional requirements of the "Authority Having Jurisdiction" will be provided by Tyco and the building owner.

Tyco will provide plans showing the location of all alarm initiating and alarm notification devices.

BUILDING DESCRIPTION:

The building is of mixed occupancy. It is primarily Residential (Group R**) with small areas of assembly - Dining area and chapel for worship (GroupA-3**)

**International Building Code 2006.

The three-story building is primarily of brick, cement block, and steel beam construction throughout the facility. There is also a single story rear area used primarily for receiving and storage of the same construction. The main three story area is 35 feet in height. The building is fully sprinklered. The existing control panel is non-functioning.

The Elevator is cable-driven and the elevator shaft is sprinklered. The elevator travels from the street level, which is considered the "Primary Level", and travels to the second and third levels. The elevator control room is located on the rooftop at the rear corner of the building opposite from Preble Street.

APPLICABLE LAWS:

The proposed fire alarm system is designed to meet all known elements of the 2010 versions of NFPA 72, NFPA 70, and NFPA 101 for the intended use and The City of Portland Fire Department Rules and Regulations dated 10/11/2012.

FIRE PROTECTION TO BE INSTALLED:

A Firelite 9200 Intelligent Addressable Fire Alarm Control Panel will be installed to replace the existing Notifier 5000 control inside the main building entrance at 88 Preble Street. The system will provide protection of the entire tenant space as specified by applicable codes. All devices and thier installation will conform to all applicable codes such as NFPA, UL, and PFD regulations.

The system is designed to notify all tenant space occupants via the use of strategically placed (NFPA) horn/ strobe, horn-only, and strobe-only units throughout the space.

These devices and all new addressable alarm initiating devices are listed as compatible with the new system. Some existing cable that is verified to be in good working order may be utilized in the new system.

SEQUENCE OF OPERATION:

Supervisory and Trouble alarms will be silent (tone at the control panel). Fire Alarms (either manually or automatically actuated) shall sound all audible and visual notification devices.

Signals will be transmitted to the existing municipal box and to the Tyco monitoring center which will re-transmit directly to the Portland Fire Department.

Upon arrival, firefighters will enter the main building entrance and will find the fire alarm control panel to their left which will lead them to the point that tripped the alarm.

Standby capacity of the system is calculated for 24 hours of standby operation followed by 5 minutes at full load operation.

In an alarm event, the elevator recall system will send the elevator car to the Primary Level (circuit 1). If smoke is detected on the primary level, the car will be recalled to an alternate level. If smoke is detected on an alternate level (circuit 2), the car will be recalled to the Primary Level. Detection or waterflow in the elevator hoistway will activate a shunt-trip to remove operating power to the elevator car.

TESTING CRITERIA:

Tyco will perform a complete system pre-test prior to the lead installer (the professional in charge of the installation) arranging for and scheduling the final acceptance test with a Portland Fire Department inspector. Tyco technicians will have all necessary equipment available to perform a complete test of the system and all system devices. The building owner has contracted with Tyco to perform annual fire alarm inspections of the system which will be performed and acknowledged by the Portland Fire Department through thier current inspection program.

SUMMARY AND CONCLUSION:

We take our position and responsibilities concerning fire alarm systems very seriously. Please make us aware of anything that we may have omitted from this narrative. We will do anything we can to fulfill all requests for information.

Sincerely,

Greg Gladstone CET
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