

648-23-100 Upgrade Vancouver Fire Alarm to Voice

Scope of work

This project will require site investigation, construction activities, labor, materials, equipment, programming, training, commissioning and scheduling to Upgrade Vancouver Fire Alarm to Voice at the VA Portland Healthcare System, Vancouver campus. The specific detailed information and requirements are shown on the drawings, specifications and as follows:

This project will upgrade the fire alarm system on the Vancouver campus to modernize to a voice system. Edwards EST-3 Fire Alarm system installed in 2003.

- Project Location: 1601 E Fourth Plain Blvd, Vancouver, Washington
- Building(s): This project involves almost every building on the campus. (See drawings for specific buildings and locations)
- Upgrade Vancouver Campus fire alarm system to EST-4 and add voice.
 - Including, but not limited to:
 - Completing the campus fiber loop in a duct bank
 - Test network before integration
 - Main control equipment installation
 - Main control equipment shall be located at building 3 boiler plant
 - FACP with integrated Network Voice Command
 - FireWorks Station Computer, UL listed, with a built-in network card
 - Two monitors and printer
 - Cellular digital alarm transmitter
 - New FACPs in existing and non-existing locations.
 - New building annunciator panels
 - New power supply circuits, local disconnects, and distribution panels
 - New strobe power control equipment
 - Installation in Bldg. T1819
 - Upgrading all existing annunciators and panels
 - Sequential migration of buildings
 - Campus-wide synchronization
 - Programming
 - Commissiong
 - The primary objective of this project is to upgrade the existing temporal horn notification system to a speaker-based voice control system that incorporates Emergency Voice/Alarm Communication (EVAC) capabilities. For buildings that currently lack fire alarm coverage, new initiating devices have been designed for

installation as required. Smoke detection will also be placed as required by NFPA 72-2022 10.4.5 (See drawings and Specifications for further detail)

- each fire alarm control unit,
 - each notification appliance circuit power extender,
 - the supervising station transmitting equipment.
- At no point during construction will both the old and new fire alarm systems simultaneously drive notification in the same area, and that all occupant notification will be handled by a single system at any given time.
 - There shall be no instances where notification is handled concurrently by the existing and new systems during construction.
 - Redundant initiating devices in areas where both systems are installed must have the non-operational devices covered and clearly labeled as "Not in Service."
 - The construction schedule must prioritize transitioning all fire alarm notification to the new EST4 system as early as feasible. Subsequent system installations, demolition, and patching activities will proceed in a manner, aligned with the specific requirements of individual buildings and smoke compartments.
 - For specific safety, infection prevention, and security measures and deliverables, see drawings and specifications.
 - See drawings cover page for project working hours.
 - Period of Performance: 1 year from date of Notice to Proceed