

## **Division 21 – Fire Suppression**

### 21.1. General

- a. Refer to **CPSM 4.5 FIRE PROTECTION INFORMATION PLAN AND FIRE SAFETY SYSTEMS, 4.6 FIRE SAFETY REVIEW OF SHOP DRAWINGS** and throughout **CHAPTER 5 – PROJECT SUBMITTAL STANDARDS** for detailed requirements which must be incorporated into all projects. In the case of a conflict between these Design Standards and the CPSM, the CPSM shall take precedence.
- b. Fire department building and riser connections shall be coordinated through ODU's Risk Management office and the University's Fire Prevention Manager. Ultimate approval of connections and design will be by BCOM for capital projects and the State Fire Marshall for all others.

### 21.2. Miscellaneous

- a. Provide a fire alarm input module to monitor the AC power of the sprinkler air compressor.
- b. Bolt down all incoming sprinkler lines from thrust block to flange with approved fasteners.
- c. Install placards at sprinkler riser with engraved hydraulic data, not permanent marker.
- d. Copper compression fittings shall not be used on sprinkler air compressor feeds.
- e. All dry valves to be manually resettable without removing face bolts.
- f. Provide floor drain and associated pit, in all sprinkler valve rooms, capable of handling the discharge at full flow or discharging the full flow to the exterior of the building. If discharged to the exterior, coordinate the landscape to accommodate the force of the discharge, without destroying planting, turf, etc. Consider heavy river rock or other material that can withstand the force of the discharge. Discharging to the exterior is preferred.
- g. Provide single action fire alarm pull stations.

### 21.3. Knox Box

- a. Locate the Knox Box adjacent to main entrance and coordinate location with ODU Project Manager, the ODU Fire Prevention Manager and the Fire Marshall. Location of the Knox Box shall be shown on the exterior elevations in the Preliminary Design Submittal for review and maintained as part of the working drawings.
- b. Knox-Boxes shall be 3200 series and recessed into masonry construction.

### 21.4. Fire Hose Cabinets

- a. Renovations of spaces that have fire hose cabinets shall remove hoses.
- b. In new construction, where fire hose cabinets are

- b. Provide floor drain, capable of handling the discharge at full flow or to the exterior of the building.

- b. At all locations that ITV's are concealed above ceilings or behind access doors, a sign shall be provided on the ceiling below the valve or on the access door indicating the location of the ITV.
- c. Inspector test valves shall not be installed, above or below ceilings, in classrooms, offices, conference rooms or in Residence Hall living quarters or in any area requiring entry through a classroom, office,

- a. In renovation and or addition projects, where the building is to remain occupied during construction, the following measures shall be included in the Contract Documents:
  - 1. All existing fire protection systems shall remain operational during construction. If temporary shutdown is necessary, the system shall be returned to operational condition as soon as possible and no later than the end of each working day prior to the Contractor leaving the job site.
  - 2. The Contractor is to notify the University Fire Prevention Manager, 48 hours in advance of any necessary shutdowns. Any necessary shutdowns shall not affect other areas not involved with the construction project.
  - 3. All operational standpipes are to be maintained at all times.
  - 4. Sprinkler systems in areas being renovated shall be operational when the Contractor leaves the site each day.
  - 5. A contractor provided fire watch shall be provided at all times that a sprinkler system and/or fire alarm system is inactive.
- b. Specifications shall indicate that following the completed installation, ODU's Fire Prevention Manager and their independent consultant will inspect