

SECTION 13500- AUTOMATIC FIRE PROTECTION

PART 1 – GENERAL

1.01 DESCRIPTION OF WORK

- A. The work covered by this Section of the specifications includes the furnishing of labor, materials, equipment, transportation, permits, inspections and incidentals and the performing of operations required to design, install and test a pressurized, fully supervised, wet or dry pipe fire protection system for full building protection in accordance with NFPA, IBC and Owner's insurance underwriter. Areas subject to freezing shall have a dry pipe system, dry pendent or sidewall heads, or glycol-and-water loop per NFPA. Provide with Manual Wet standpipe systems in stairwells Class 1. Design in accordance with Portland Fire Department.
- B. The sprinkler systems design shall be based on NFPA13 and NFPA 14 Requirements.

1.02 QUALIFICATIONS

- A. The Fire Protection Work shall be performed by a qualified Contractor primarily engaged in the design and installation of Fire Protection Systems. The fire protection system design shall be performed under the direction of, and sealed by, a Nicet Level III.

1.03 SUBMITTALS

- A. Items for which the submittal requirements of section 13500, apply area as follows:
1. System components.
 2. hydraulic calculations
 3. Piping layout, details and control diagram.
 4. Sprinkler heads.
 5. Alarm valves wet & dry and components.
 6. Fire department connections.
 7. Fire stopping materials and methods.
 8. Hanger material.

1.04 SPRINKLER COVERAGE

- A. Sprinkler head coverage shall conform with NFPA requirements for the use of the building. Coverage shall be increased accordingly where required by the Authority having jurisdiction.

1.05 PIPING LAYOUT AND DESIGN

- A. System requirements, installation requirements, design, plans, and calculations:
Conform to NFPA-13 & 14.
- B. Architect shall review proposed system layout and reserve the right to general review of final layout for components visible in occupied spaces.

1.06 SYSTEM ACCEPTANCE

- A. Approval, flushing, hydrostatic testing, instructions, and certificates of installation:
Conform to NFPA-13 & 14.
- B. Cover up or enclose work after it has been properly and completely reviewed.
- C. Instructions: On completion of the project, provide a technician familiar with the system to thoroughly instruct the Owners representative in the care and operation of the system, The total period of instruction shall not exceed four hours. The time of instruction shall be arranged with the Owner.

1.07 FIRE STOPPING

- A. Fire stopping shall be performed in accordance with specification section 07 84 00.

ISSUED FOR CONSTRUCTION 10-16-07

* END OF SECTION *

