Addison Fire Department
Pre-action Fire Sprinkler Installation

The purpose of this document is to establish acceptable installation practices for pre-action fire sprinkler systems in Addison. These standards can be found in detail in NFPA 13 & local ordinance.

- All steel piping shall be internally galvanized steel.
- Extended coverage heads are not permitted in pre-action systems.
- Double interlock systems are disallowed. Only single interlock and non-interlock systems will be approved.
- The automatic water control valve shall be provided with a hydraulic, pneumatic, or mechanical manual means for operation that is independent of detection devices and of the sprinklers.
- System water control valves and supply pipes shall be protected against freezing and mechanical damage.
- Valve rooms shall be properly lighted and heated. Heat tape shall not be used.
- No more than 1000 heads are allowed on a single pre-action valve.
- Only dry pendants or return bends shall be installed on pre-action systems.
- Single Interlock systems with more than 20 heads shall be automatically supervised. Minimum air supervising pressure of 7 psi.
- Upon activation of the pre-action valve, an alarm signal must be received at the FACP within 60 seconds.
- All pre-action systems shall be equipped with a trip test (inspector's test) connection not less than 1-inch in diameter with a smooth bore corrosion resistant orifice to provide flow equivalent to one sprinkler of the smallest orifice on the system. The discharge shall be piped to a safe location capable of accepting the full flow from the system being tested for the duration of the test.
- All pre-action systems shall be equipped with an alarm bypass test connection per NFPA 13 5-15.1.3 (1999)

It is the responsibility of the fire sprinkler contractor to recognize, understand and practice the installation standards prescribed in NFPA 13 and elsewhere. Any error or omission by the Fire Department should not be misinterpreted as permission to install a system incorrectly.

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