These guidelines are to be followed when a fire alarm system within the City of Rockwall is to be installed or modified. These guidelines are not to be interpreted as containing all data required for proper design, installation, or approval.

All fire sprinkler monitoring systems shall conform to the 2021 International Fire Code and current edition of NFPA 72 as adopted and amended by the City of Rockwall. These guidelines are not intended to replace, nor supersede any codes and/or ordinances adopted by the City of Rockwall, or determinations and positions of the Rockwall Fire Prevention Education and Investigation (FPE&I) Division.

Fire Sprinkler Monitoring Panel / Notification Power Supplies

- 1) Only one fire sprinkler monitoring panel is allowed per building.
- 2) Fire Alarm System shall identify the specific initiating device address, location, device type, floor level where applicable and status including indication of normal alarm, trouble and supervisory status, as appropriate.
- 3) Fire sprinkler monitoring panel or an annunciator panel is required in the fire riser room and at the main entry unless otherwise approved.
- 4) Fire sprinkler monitoring panel shall be labeled "FIRE SPRINKLER MONITORING PANEL"
- 5) Systems shall be resettable without any special knowledge or the use of an access code.
- 6) Primary power shall be a dedicated circuit that is labeled both in the fire alarm panel / notification power supply (panel A circuit 2) and the circuit breaker in the electrical panel is indicated in red and labeled "Fire Sprinkler Monitoring Circuit" and locked or otherwise secured from unauthorized access.

Wiring

- 7) All initiating device circuits shall be Class "A" with a minimum of 4-feet separation horizontal and one foot vertical between supply and return circuit conductors
- 8) All notification device circuits shall be Class "B"
- 9) The initiating device circuit from an addressable device used to monitor the status of a suppression system may be wired Class B, provided the distance from the addressable device is within 10-feet of the suppression system device.
- 10) Wiring may not be supported by the ceiling grid support wires.
- 11) Suspended wires added to support the fire sprinkler monitoring wiring must be painted red and attached to the above structure and not to the ceiling grid.

Devices

- 12) Waterflow switches must activate an alarm within 45-90 seconds and shall be non-silenceable.
- 13) Sprinkler and standpipe system water-flow detectors shall be provided for each floor tap to the sprinkler system.
- 14) Manual dry standpipe systems shall be supervised with a minimum of 10 psig and a maximum of 40-psig air pressure with a high/low air supervisory alarm.
- 15) A smoke detector is required over all fire alarm control panels, notification power supplies, and monitoring transmitting equipment.
- 16) A pull station is required to be located near the fire sprinkler riser and shall be a double action type.
- 17) Duct detectors shall not be tied into the fire sprinkler monitoring system.
- 18) Kitchen hood systems shall be tied into the sprinkler monitoring system.

- 19) Tamper switches shall be individually addressed and labeled to match the description that is programmed in the fire alarm control panel. (Example: Tamper 1)
- 20) All valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels and temperatures, critical air pressures, and water-flow switches except for fire department hose connection valves on all sprinkler systems shall be electronically supervised.
- 21) Provide a weatherproof horn strobe minimum 75-candela strobe rating, installed as close as practicable to the fire department connection.

Documentation

- 22) An installation certificate shall be provided
- 23) Operating, testing and maintenance instructions and record drawings ("as-builts") and equipment specifications shall be provided at an approved document box location adjacent to alarm panel.

Fire Pumps

24) Fire pumps shall be monitored in accordance with NFPA 20 and NFPA 72.

Inspection Requirements

- 25) Rough Wiring/ above ceiling: All fire sprinkler monitoring wiring will be inspected for proper installation and penetration of any firewalls. Fire sprinkler monitoring wiring shall not be tied to ceiling grid wire.
- 26) Audible / Visual Device Test: test all audible/ visual devices.
- 27) Initiating Device Test: Test all fire alarm initiating devices for alarm conditions.
- 28) Waterflow: The waterflow alarm will be tested by opening the inspectors test connection. The time delay feature on the flow switch switches must be 45-90 seconds.
- 29) Central Station Monitoring: Verify contact I.D. Standard response to contact Fire Department shall be within 3 minutes.
- 30) Device Address Test: Verify address and description of all devices.
- 31) Final: Final inspection.

Fire sprinkler monitoring system modification requirements-

33) Plan submittal is only required for modifications or additions involving the addition of a power supply. All other work shall be covered by the scope of work letter and modified acceptance test. Scope of work letter should be emailed to fireinspections@rockwall.com.

Submittal Requirements

- 34) An APS signature and stamp, or signed and sealed by a registered Fire Protection Engineer (PE), is required on all plan drawings and calculations.
- 35) Plans shall be designed and will be reviewed based on the requirements in the International Fire Code,



2021 Edition and NFPA 72, most recent edition, and shall be indicated on the plan drawings as the code and standard or record.

- 36) Plans shall be clear, legible and in a common and appropriate scale.
- 37) Plans shall indicate all walls and rooms. Ceiling tiles shall not be shown unless needed for clarity.
- 38) Plans shall contain sufficient detail to enable the plan reviewer to accomplish a complete review
- 39) Point ID/Addressable device list. Shall indicate how the devices will report to the monitoring company.
- 40) Specification booklet shall contain the following;
 - a. A minimum of one (1) set of data specifications sheets for all devices and equipment.
 - b. Listing of the system design, operation and reset functions.
 - c. Specific materials are to be identified by an arrow or highlighter.
 - d. Battery discharge curves.
 - e. Wire specifications.
- 41) Please upload the following documents when submitting your permit online:
 - a. Plans including 3rd party stamp
 - b. Scope of Work.
 - c. Sequence of Operations.
 - d. Equipment List.
 - e. Point ID/Addressable device list. f. Specifications Booklet
 - g. Third Party Review Letter
 - h. State License(s)