These guidelines are to be followed when an NFPA 13D automatic fire sprinkler system is designed to be installed within the City of Rockwall. These guidelines are not to be interpreted as containing all data required for proper design, installation, or approval.

All 13D Fire Sprinkler Systems shall conform to the 2021 International Fire Code, as adopted and amended by the City of Rockwall, and current edition of NFPA 13D. 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 Department.

Designs

1. Double Check/Backflow Preventer is required and shall be installed inside a meter vault or "can" in the front yard of the structure and be able to be secured.
2. A 1-inch meter will be used on all 13D systems.
3. The system shall be designed with 5 psi safety factor at 20 psi residual on City mains.
4. The water supply test used for design of the sprinkler systems will be witnessed by the Rockwall Fire Department. The results of the flow test shall be within one year of the sprinkler plan submittal. The exact location of the static/residual hydrant and the flow hydrant shall be indicated on the design drawings. All fire protection plan submittals shall be accompanied by a water flow test report provided by the Rockwall FPE&I Division.

Inspection Requirements

5. **Do not connect the riser until the underground flush has been completed**.
6. Visual: All overhead piping and joints must be uncovered, exposed, and be visible with labeling of the pipe legible from the floor. All hangers will be visually inspected and must be uncovered, exposed, and visible from the floor.
7. Overhead Hydrostatic Test: Overhead piping will be visually inspected with all joints exposed and labeling of the pipe turned downward. The test will be at 200 psi for a minimum of two hours. No pressure drops or gain allowed.
8. A hydrostatic test is required for all new installations.
9. A tenting/ insulation inspection is required after the insulation has been installed.
10. A functional flow test, bucket test, shall be performed to verify that the water supply delivers the required gallons per minute (GPM) to the most remote sprinkler heads.
11. Fire Sprinkler Final: Final sign-off at completion of all inspections and the receipt of all State require paperwork and a complete and signed appropriate contractor's material and test certificate(s). The inspection shall be conducted when all sheet rock and millwork is completed and approved sign has been installed in the water meter box.

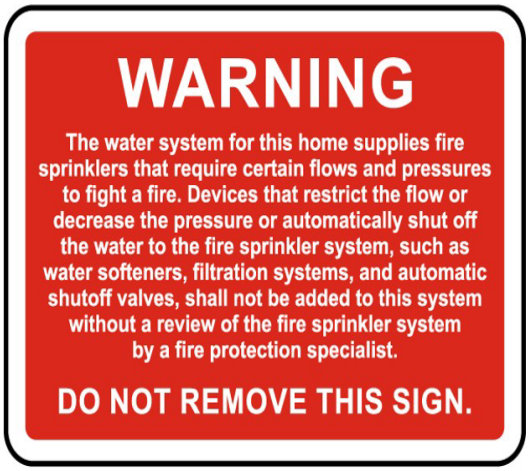
Submittal Requirements

12. Please upload the following documents when submitting your permit online:
    (1) Design plans with underground fire line diagram.
    (2) Hydraulic calculations forms, where systems are required to be calculated
    (3) Data sheets for the system components
    (4) Signed owner's certificate
    (5) Third Party Review Letter
    (6) State License(s)

Required signage in water meter box.

A warning sign, with minimum 1/4 in. (6 mm) letters, shall be affixed adjacent to the main shutoff valve and shall state the following:

WARNING: THE WATER SYSTEM FOR THIS HOME SUPPLIES FIRE SPRINKLERS THAT REQUIRE CERTAIN FLOWS AND PRESSURES TO FIGHT A FIRE. DEVICES THAT RESTRICT THE FLOW OR DECREASE THE PRESSURE OR AUTOMATICALLY SHUT OFF THE WATER TO THE FIRE SPRINKLER SYSTEM, SUCH AS WATER SOFTENERS, FILTRATION SYSTEMS, AND AUTOMATIC SHUTOFF VALVES, SHALL NOT BE ADDED TO THIS SYSTEM WITHOUT A REVIEW OF THE FIRE SPRINKLER SYSTEM BY A FIRE PROTECTION SPECIALIST. DO NOT REMOVE THIS SIGN.



Approved underground fire line arraignment.