



Building & Property Standards

Bulletin 019**Version 042011****Fire Protection System Layout Documents****Purpose:**

The purpose of this bulletin is to inform permit applicants of shop drawing submittal requirements for fire protection systems.

Applicability:

The information presented herein is applicable to all projects, residential, commercial or mixed-use. This document may be updated periodically. Please check the department's web page to verify you have the current version of this document.

Background:

Illinois Public Act 096-0626 prohibits a building permit from being issued for a building that requires a fire protection system without the submission of a "technical submission" which has been prepared and sealed by a licensed design professional. The purpose of the technical submission is to establish the design intent of the fire protection system and is the basis from which the fire protection system layout documents (shop drawings) are to be prepared. The system layout documents shall not take the place of the technical submission.

Submittal Requirements:

The shop drawings shall either be prepared by a licensed design professional or a NICET Level 3 or 4 certified technician. If the system layout documents are prepared by a licensed design professional, they shall bear an original signature and seal of the preparer on each page. If the documents are prepared by a NICET certified technician, they shall have the preparer's name, signature and NICET certification number on each page. At a minimum, the shop drawings shall include the following information:

1. **Scaled plans** prepared in accordance with NFPA 13 and NFPA 24, as applicable, indicating the size and location of risers, cross mains, branch lines, sprinkler heads, piping per applicable standard, hanger locations, etc. as required for a complete installation of the fire protection system
2. **Technical data sheets** of all system components and hardware
3. **Supplemental hydraulic calculations** prepared in accordance with the approved technical submission and NFPA 13

The system layout documents shall bear a certification from the design professional of record that the system layout documents are in conformance with the approved technical submission requirements established for the project.