



# CITY OF SNOHOMISH

Founded 1859, Incorporated 1890

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## FIRE SPRINKLER SUBMITTAL CHECKLIST

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### ALL SUBMITTALS **MUST** BE COMPLETE

- Building Permit** Application
- Fees** – Plan review and Fire Alarm fees are based on the value of work
- 3 sets of plans and specifications**  
Must include the following:
  - Floor plans, identifying the use of each room. Include locations of interior partitions and walls, beams (depth of projection), and HVAC equipment
  - Locations of automatic sprinklers and wet/dry standpipes; and/or other special types of automatic fire extinguishing systems, and any other fire protection systems and appurtenances
  - Location of water supply including hydrants
  - Indicate compliance with the 2006 International Fire Code as adopted by the City, applicable NFPA and the General Requirements listed below
- Sprinkler system hydraulic calculations, cut sheets of sprinkler equipment, and specifications for backflow assembly devices
- Copies of all valid contractor licenses as issued by the Washington State Department of Labor & Industries. Fire sprinkler licenses will be verified at the time of inspection.

### GENERAL REQUIREMENTS

1. All fire sprinkler systems shall be installed in accordance with the 2006 edition of the International Fire Code adopted under SMC 19.04 Buildings and Construction, applicable City of Snohomish Public Works Standards, and applicable NFPA standards.
2. The Fire Department Connection (FDC) is required to be a minimum of 50 feet from the structure or protected area, and within 50 feet of a fire hydrant, and shall have approved locking caps installed on the FDC. The location shall be approved by the Building/Fire Official and Snohomish County Fire District #4 (2006 IFC Section 903.3.7 as amended under SMC 19.04).
3. Fire Department Connections (FDC) shall be 2½" female threaded swivel fittings with National Standard threads, and located between 18 inches and 36 inches above grade.

### PLANS & CALCULATIONS

1. Plans and hydraulic calculations shall be prepared by an engineer, licensed by Washington State to perform such work. The engineer shall hold a valid Certificate of Competency, indicating their Level, issued by Washington State. All plans and calculation shall be "wet stamped" by the engineer.
2. Plans and calculations shall be submitted for review and approval and a permit issued **prior** to beginning any construction, including underground supply mains.

### INSTALLATION

1. Installation of the entire fire protection system, including underground supply mains, shall be installed by, or under the direction of, a Fire Protection Sprinkler System Contractor licensed to perform such work and in accordance with the approved plans.

## **BACKFLOW PREVENTION**

1. A minimum double check detector valve assembly (DCDVA) with an approved Bypass Meter is required for the fire sprinkler system. Fire Department Connections (FDC) not protected by the DCDVA at the riser requires a separate backflow assembly.
2. The backflow assembly and system riser shall be installed to provide all required clearances for testing and maintenance. The backflow assembly shall be installed horizontally unless specifically approved by Washington State Department of Health (DOH) for vertical installations.
3. The backflow assembly shall be inspected by Ann Ray, Cross Connection/Pre-Treatment Specialist.
4. Backflow assemblies shall be tested at the time of installation, repair, or plumbing changes, and on an annual basis thereafter. Testing shall be performed by an approved Backflow Assembly Tester (BAT). Test reports shall be submitted by mail or fax, to Ann Ray, Cross Connection/Pre-Treatment Specialist.

## **FLUSHING & SYSTEM TESTING**

1. All flushing and testing shall be witnessed by the installer, building owner, or representative, and either the City Building/Fire Official or SCFD #4 Fire Marshal.
2. **24-Hour advance notice required.** To schedule a specific time for inspection, contact the Building/Fire Official at 360-282-3158.

## **FINAL APPROVAL**

The contractor shall furnish Contractor's Materials and Test Certificates, and Statement of Compliance when the initial acceptance test is conducted.