













Maintenance?





## 2010 CRC Requirements

R313.1 Townhouse automatic fire sprinkler systems. An automatic residential fire sprinkler system shall be installed in townhouses.

**Exception:** An automatic residential fire sprinkler system shall not be required when additions or alterations are made to existing townhouses that do not have an automatic residential fire sprinkler system installed.

# 2010 CRC Requirements

## **Design Standards**

**R313.1.1 Design and installation.** Automatic residential fire sprinkler systems for townhouses shall be designed and installed in accordance with Section R313.3 or NFPA 13D.

**R313.2.1 Design and Installation.** Residential fire sprinkler systems shall be designed and installed in accordance with Section R313.3 or NFPA 13D.

### Design Standards R313.3.1 General. Where installed, residential fire sprinkler systems, or portions thereof, shall be in accordance with NFPA 13D or Section R313.3, which shall be considered equivalent to NFPA 13D. Section R313.3 shall apply to stand-alone and multipurpose wet-pipe sprinkler systems that do not include the use of antifreeze. A multipurpose fire sprinkler system shall supply domestic water to both fire sprinklers and plumbing fixtures. A standalone sprinkler system shall be separate and independent from the water distribution system. A backflow flow preventer shall not be required to separate a stand-alone sprinkler system from the water distribution system.



# Fire Sprinkler Installation Sprinklers installed in all areas of the dwelling unit Excluded areas: Attics, crawl spaces and normally unoccupied concealed spaces, unless these spaces contain a fuel-fired appliance Clothes closets, linen closets and pantries where: Wall and ceiling surfaces are of gypsum board, and The space ≤24 ft<sup>2</sup> and The smallest dimension ≤3'















## **Toilet Connection???**

- Passive purge concept
- Toilet is connected remote end of fire sprinkler piping
- Toilet flush operation moves water through the piping system
- Eliminates need for backflow prevention to separate fire sprinkler piping from domestic piping







