



Otay Water District, Public Services Division  
2554 Sweetwater Springs Blvd  
Spring Valley, CA 91978-2004

## **DESIGN REQUIREMENTS FOR FIRE SERVICE 3-INCH AND LARGER AND BACKFLOW ASSEMBLY INSTALLATION**

1. Installation shall be in accordance with the Water Agencies' Standards (WAS)
2. A pre-construction meeting with the District is required prior to installation
3. Any installation of District facilities without the benefit of District inspection is subject to rejection and removal
4. Water Loss for fire flow testing purposes must be paid for prior to the acceptance of the project
5. Provide a plan view drawing on 8.5 X 11 sheet showing the following:
  - ✓ Pipe layout including pipe size, type, and class  
If steel pipe is used, additional submittals may be required
  - ✓ Location and degree of angle for all bends  
Thrust/anchor blocks required for all bends, reducers, etc.
  - ✓ Location and size of all thrust/anchor blocks. Design thrust/anchors per WAS

### [DESIGN GUIDELINES](#)

#### **SECTION 5.0 WATER PIPELINE DESIGN**

##### 5.2 Thrust Restraint and Anchor Blocks

### [STANDARD SPECIFICATIONS](#)

#### **DIVISION 03 CONCRETE**

##### Section 03000 Cast-in-Place Concrete

- ✓ Right-of-Way/Property Lines and Assessor Parcel Number (APN)
  - ✓ Location of assembly in relation to RW/PL, sidewalks, driveways, etc
  - ✓ Registered Engineer Stamp
  - ✓ If pipe installation requires changes in vertical alignment, provide a profile view showing the above bulleted items
  - ✓ A profile view may be required at the District engineer's discretion
6. Use and call out the following WAS standard drawings
    - [STANDARD DRAWINGS - WATER](#)
    - BACKFLOW PREVENTION DETAILS**
    - WR-01 19mm through 50mm (3/4" through 2")  
Reduced Pressure Backflow Prevention Device
    - WR-02 75mm (3") and Larger  
Reduced Pressure Backflow Prevention Device
    - FIRE HYDRANT AND FIRE SERVICE DETAILS**
    - WF-05 100mm (4") and Larger Fire Service Installation (1 of 2)  
100mm (4") and Larger Fire Service Installation Notes (2 of 2)

If you have any questions please call Public Services at (619) 670-2241 or e-mail [pscounter@otaywater.gov](mailto:pscounter@otaywater.gov).