



ALL JOINTS TO BE RESTRAINED  
 BURIED FITTINGS: MEGALUG (OR EQUIVALENT) RESTRAINTS  
 EXPOSED FITTINGS: FLANGED, MEGALUG, OR VICTAULIC JOINTS

C900, DIP AND FITTINGS  
**ONLY** FROM WATER MAIN TO BACKFLOW DEVICE  
 FOR CONNECTION TO WATER MAIN, SEE W-4B & W-4C

ALTERNATE MATERIALS MUST BE APPROVED BY THE CITY OF NAPA WATER DIVISION PRIOR TO USE

**NOTES**

1. THE FIRE DEPARTMENT CONNECTION AND RELATED APPURTENANCES SHALL MEET THE CITY OF NAPA FIRE DEPARTMENT SPECIFICATIONS AND REQUIREMENTS. LOCATION OF THE FIRE DEPARTMENT CONNECTION SHALL BE APPROVED BY THE NAPA FIRE DEPARTMENT.
2. BACKFLOW DEVICE MUST BE PROTECTED FROM HAZARDS EITHER BY LOCATION OR BARRIERS.
3. NO CONNECTIONS ARE ALLOWED BETWEEN WATER MAIN AND THE BACKFLOW DEVICE OR DIRECTLY TO THE DEVICE.
4. ALL PARTS MUST BE EASILY ACCESSIBLE FOR INSPECTION BY THE UTILITIES - WATER DIVISION.
5. INSTALLATION MUST BE APPROVED BY THE UTILITIES - WATER DIVISION AND THE DEVICE TESTED BY A CITY APPROVED AWWA CERTIFIED BACKFLOW TESTER BEFORE WATER IS TURNED ON. ANY OTHER LOCATION OR METHOD OF INSTALLATION MUST BE APPROVED IN ADVANCE BY THE UTILITIES - WATER DIVISION.
6. BACKFLOW DEVICE CAN BE INSTALLED WITHIN A BUILDING IN A DEDICATED UTILITY CLOSET IF THE BUILDING IS LOCATED WITHIN 20 FEET OF THE PUBLIC RIGHT-OF-WAY, THE BACKFLOW DEVICE IS PLACED AT THE CORNER OF THE BUILDING CLOSEST TO THE PUBLIC RIGHT-OF-WAY WHERE THE CONNECTION IS MADE, AND WITH THE APPROVAL FROM THE UTILITIES - WATER DIVISION (SEE W-7D FOR INTERIOR INSTALLATION).
7. VERTICAL INSTALLATIONS SHALL HAVE A MINIMUM CLEARANCE OF 3- FEET FROM THE FRONT OF THE DEVICE AND 18-INCHES TO EACH SIDE OF THE DEVICE FROM ANY STRUCTURE, FEATURE UTILITY, ETC. FOR ACCESSIBILITY.
8. PIPE INSTALLATION TO THE BACKFLOW DEVICE SHALL MEET THE CITY STANDARD REQUIREMENTS FOR PUBLIC WATER MAINS (INCLUDING, BUT NOT LIMITED TO, CORROSION PROTECTION, SAND BEDDING, AND PRESSURE TESTING). CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITIES - WATER DIVISION FOR INSPECTION OF PIPE INSTALLATION AND TESTING FROM THE CONNECTION AT THE WATER MAIN TO THE BACKFLOW DEVICE.
9. NO TREES SHALL BE PLANTED WITHIN 10', OR LARGE SHRUBS WITHIN 5', OF DOUBLE CHECK VALVE AND WATER LATERAL.
10. 8. BACKFLOW DEVICES MUST BE APPROVED BY THE STATE WATER RESOURCES CONTROL BOARD AND THE UNIVERSITY OF SOUTHERN CALIFORNIA (USC) HYDRAULIC RESEARCH SECTION. FOR USC'S FOUNDATION LIST OF APPROVED DEVICES GO TO [HTTPS://FCCCHR.USC.EDU/LIST.HTML](https://fccchr.usc.edu/list.html). DEVICE MUST BE SPECIFICALLY APPROVED FOR VERTICAL INSTALLATION TO INSTALL VERTICALLY.
11. BACKFLOW DEVICES THAT SERVE ON-SITE PRIVATE FIRE HYDRANTS SHALL BE EQUIPPED WITH A FIRE SERVICE METER.
12. THE VISUAL IMPACT OF BACKFLOW DEVICES SHOULD BE CONSIDERED IF NOT PLACED WITHIN BOXES, VAULTS, OR UTILITY CLOSETS. BACKFLOW DEVICE SHALL BE PAINTED IN A COLOR APPROVED BY THE COMMUNITY DEVELOPMENT DEPARTMENT.

CITY OF NAPA

UTILITIES DEPARTMENT

TITLE  
**EXTERIOR INSTALLATION OF  
 DOUBLE CHECK VALVES FOR  
 4" TO 8" FIRE WATER SERVICES**

DRAWN BY: DF  
 APPROVAL DATE: 09/2021  
 SCALE: NTS  
 REVISED DATE: 09/2021

CHECKED BY: SL  
 APPROVED BY: DD  
 DRAWING NO. W-7C