



- BIG SKY COUNTY WATER & SEWER DISTRICT 363 REQUIREMENTS FOR INSTALLATION OF REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY**
- The FIRST fitting inside of the building shall be a UL listed flanged gate or ball valve the same size as the fire service line.
 - All Double Check Valve Assemblies shall be:
 - Reduced Pressure Principal Assemblies (RPZ)
 - UL or FM listed
 - Approved by the University of Southern California Foundation for Cross Connection Control and Hydraulic Research (USCFCCCHR) for operation in the proposed position (vertical or horizontal) as shown on approved plans.
 - Installed as shown on the approved plans
 - A flow detection device shall be installed immediately following the Double Check Valve Assembly (alarm check valve, flow sensor/alarm, meter, etc.) as shown on the approved plans. Paddle-type flow alarms not permitted on dry systems.
 - Horizontal installations must be a minimum of 2' above the finished floor.
 - The fire service riser must be a minimum of 2' from any outside wall, and a minimum of 1' from any interior wall.
 - The incoming fire service line shall be a minimum of 7.0', and a maximum of 8.0' below the finished grade.
 - All service line appurtenances shall have a minimum pressure rating of 200 PSI up to PRV then 175 PSI.
 - All fire service line appurtenances shall have a minimum pressure rating of 175 PSI.
 - All fire service lines 4" and larger shall be Class 51 Ductile Iron Pipe.
 - Line sizing: The Double Check Valve Assembly shall be equal in size to both the incoming pipe diameter (upstream) and outgoing pipe diameter (downstream). For example, a 4" fire service line shall have a 4" Double Check Valve Assembly.
 - A drain is required with sufficient capacity to accommodate flow through the RPZ should it fail.
 - Assembly must be accessible at all times.
 - Floor penetration must be perpendicular to floor.
 - Wall penetration must be perpendicular to wall.
 - If water service line comes in through the floor, a sleeve may be installed to allow the first fitting (ball valve) to be installed in a mechanical room.
 - If more than one unit will be served, refer to meter configuration drawing BSWSD 26-40.
 - For alternate configurations please contact BSWSD 363 for approval.

DETAIL NO.:
BSWSD:
26-32

**BIG SKY WSD 363
STANDARD DRAWING**

SCALE:
NONE

**SHARED FIRE AND
DOMESTIC SERVICE LINE
FOR SIZES 2" AND SMALLER**

DATE: DECEMBER 2019
LAST REVISION: JANUARY 2020
CROSS REFERENCE WITH: SIMILIAR TO: COB: 02660-12