

CITY OF LAWRENCEVILLE

P.O. Box 2200
Lawrenceville, Georgia 30046
770/963-2414

**MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION and RETROFIT
(Nonhazardous)**

SERVICE METER SIZES: 3-inch and larger

DOUBLE CHECK (DC) BACKFLOW PREVENTER (BFP)

SPECIFICATIONS: The customer/owner shall provide a Double Check Valve Backflow Preventer Assembly in a size to match that of the required service meter. The DC-BFP Assembly shall be provided with a flanged resilient seated OS&Y gate valve near the inlet and outlet sides of the device. The Double Check device shall have three brass ball valve test cocks fitted with brass or plastic threaded plugs and be readily accessible for testing. A fourth test cock shall be provided upstream of the inlet shut-off valve. The Double Check device and shut-off valve bodies shall be equivalent of cast iron, coated inside and out with FDA approved fused epoxy coating; and assembled with bolts that are resistant to electrolysis and corrosion. All Double Check assemblies' interior/exterior components including ball valve handles, assembly bolts, etc. shall be of materials equal in corrosion resistance to bronze and/or stainless steel, to resist electrolysis and corrosion. Access to both checking devices shall be by top or side entry only, for maintenance and repair of all interior parts, and shall have replaceable seats.

NOTE: The Double Check BFP assembly shall have current approval from the University of Southern California, Foundation for Cross-Connection Control and Hydraulic Research (USC, FCCC & HR). The Double Check BFP assembly to be tested by a nationally recognized testing laboratory in accordance with ASSE Standard 1015, and bear the ASSE seal; be individually factory tested, shipped, and installed as a unit.

INSTALLATION INSTRUCTIONS: The Double Check BFP assembly shall not be buried in earth but installed below grade in a concrete vault adjacent to and as close as practical to, the downstream side of the meter installation; or with prior approval, in the meter vault.

ASSEMBLY TESTING: All Double Check BFP assemblies shall be tested at time of installation and at least ANNUALLY thereafter, by a certified tester. A copy of each test and maintenance report must be submitted to:

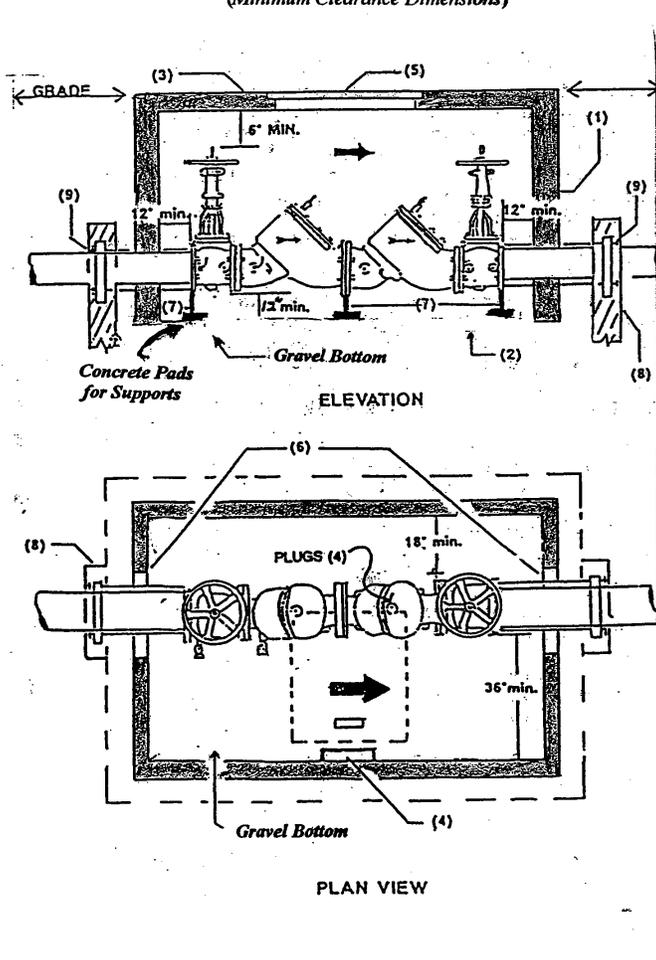
City of Lawrenceville
Attn: Water Dept./Backflow Program
70 South Clayton Street
Lawrenceville, GA 30046

Certified Testers list may be obtained through the water department by calling: 678-442-9256.

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SUGGESTED DEVICES: Ames # DCDA, Febco 856, Hersey DDC II, Wilkins 950 DA, Watts 709 (or approved equal with OS & Y valves).

TYPICAL VAULT INSTALLATION
(Minimum Clearance Dimensions)



VAULT SPECIFICATIONS

- (1) Vault shall be pre-cast reinforced concrete. If in sections, each section shall be sealed to prevent intrusion of backfill.
- (2) Vault bottom shall be open and seated on a minimum of 8" of #57 Stone.
- (3) Vault top shall be reinforced concrete with a minimum 36" X 36" access opening offset to ladder side. Holes 1/4-inch in diameter shall be cored for each meter in the top of the vault.
- (4) Access ladder shall be doveled to wall and centered at access opening.
- (5) Hatch cover: Bilco-aluminum single model #J-4AL; or pre-approved equal.
- (6) Vault inlet/outlet openings shall be sealed with non-shrink grout or mortar, pipe must not support vault.
- (7) DC-BFP Assembly shall be supported at three (3) points only, with pipe stands placed on concrete pads.
- (8) Thrust blocking (as required) shall be in accordance with FCDPW Drawing #A-1.
- (9) Thrust tie rods shall be bitumastic coated.
- (10) All pipe and pipe fittings shall be ductile iron.
- (11) Vault shall be installed as close as practical to the property line of the premises and a *Right of Entry Form*, legally executed and forwarded to the BFP Section.
- (12) CUSTOMER/CONSUMER/OWNER shall furnish all needed materials, labor, etc.

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