



CITY OF ROSWELL
 DEPARTMENT OF PUBLIC WORKS
 BACKFLOW-PREVENTION
 "A community-environmental
 Health protection program"

MINIMUM CONTAINMENT PROTECTION REQUIREMENT
NEW CONSTRUCTION and RETROFIT INSTALLATION
 (Non-hazardous)

FIRE LINE (DEDICATED) SERVICE CONNECTION

DOUBLE DETECTOR CHECK (DDC) BACKFLOW PREVENTER (BFP)

SPECIFICATIONS: The **CUSTOMER/OWNER** shall furnish and have installed a **Double Detector Check (DDC) Backflow Preventer (BFP) Assembly** in a size to match that of the required fire line service connection. The DDC-BFP assembly shall be provided with a flanged **resilient-seat OS&Y gate** valve near the inlet and outlet sides of the device. The DDC device shall be provided with three brass ball valve test cocks fitted with **brass or plastic threaded plugs**. A fourth test cock must be provided on the **up-stream** side of the inlet shut-off valve. The device and shut-off valve bodies shall be equivalent to cast iron, coated inside and out with **FDA-approved fused epoxy coating**; assembled with bolts that are resistant to electrolysis. All DCV device interior components are to be of materials equal to bronze and/or stainless steel, check valves shall have replaceable seats, and be accessible by top-entry for maintenance and repair. The detector bypass line on the DDC-BFP assembly shall be of 3/4 inch copper pipe and have a bronze detector meter and a 3/4 inch DCV-BFP complete with unions and shut-off valves.

NOTE: The DDC-BFP assembly shall be classified or listed by the Underwriters Laboratories and Factory Mutual Insurance. The DDC-BFP assembly shall have approvals of and conform to all current requirements of the University of Southern California, Foundation for Cross-Connection Control (USC-FCCC). The DDC-BFP **assembly** is to be individually factory **tested, shipped, and installed as a unit**.

INSTALLATIONS INSTRUCTIONS: The DDC-BFP assembly shall not be buried in earth but installed below ground as in a concrete vault, and as close as practical to the property line of premises.

NOTE: Under **NO** condition will any connection be allowed on the system other than for fire fighting or fire protection purposes.

DEVICE TESTING: All DDC-BFP Assemblies shall be tested at time of installation and annually thereafter. A copy of all test and maintenance reports must be submitted to:

City of Roswell
 DEPARTMENT of PUBLIC WORKS
 Backflow-Prevention section

Test forms and Certified List may be obtained through the
 Department of Public Works by calling:

770-641-3715

IMPORTANT: See instructions and illustration. Over >>>>

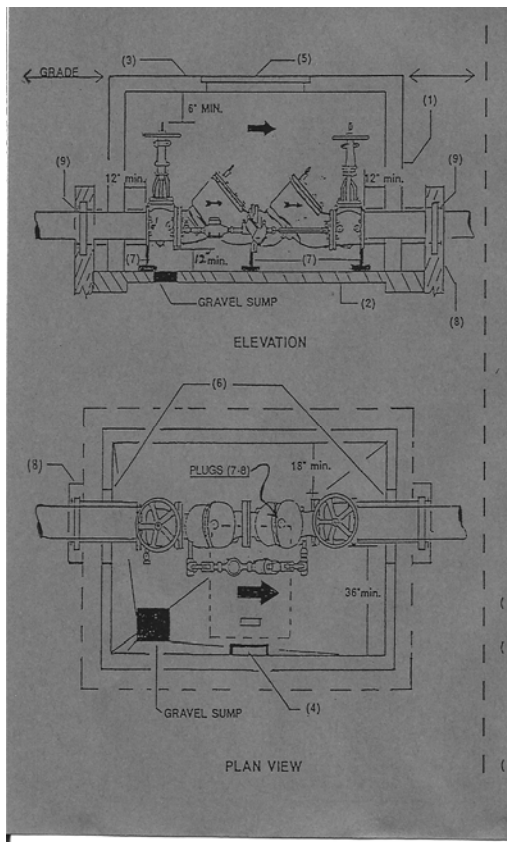
DDC-BFP Assembly – Fire Service Connection

APPROVED DEVICES: AMES - Model # 3000-DCDA
FEBCO - Model # 806YD-DCDA
HERSEY - Model # DDC II,
WATTS - Model # 709DDC-OSY-GPM-RW-A,
WILKINS - Model # 950-DAR; or approved equal

PERMITS, PLAN APPROVALS and INSPECTIONS: MUST be obtained and scheduled prior to work through the Department of Public Works, Backflow-Prevention Coordinator by Calling: (770) 641-3715.

TYPICAL VAULT INSTALLATION

(Minimum clearance dimensions.)



VAULT SPECIFICATIONS

- (1) Vault shall be pre-cast reinforced concrete.
- (2) Vault bottom 4" poured concrete slab, sloped to a 4" X 4" gravel sump. Slab to be on 4" of No. 57 compacted stone.
- (3) Vault top shall be reinforced concrete with 36" X 36" access opening, offset to ladder side.
- (4) Access ladder doweled to wall and centered at access opening.
- (5) Hatch cover: Bilco-aluminum single model #J-4AL; or equal.
- (6) Vault inlet/outlet pipe openings to be sealed with grout or mortar, pipe must not support vault.
- (7) BFP assembly to be supported at three (3) points with pipe stand.
- (8) Thrust blocking (as required) and in accordance With Dwg. No.A-1.
- (9) Thrust tie rods shall be bitumastic coated.
- (10) All pipe and pipe fittings shall be ductile iron.
- (11) Vault to be installed as close as practical to the Property line of the premises and Right of Entry form legally executed and forwarded to the BFP Coordinator.
- (12) The Customer/Owner shall furnish and have installed all materials.