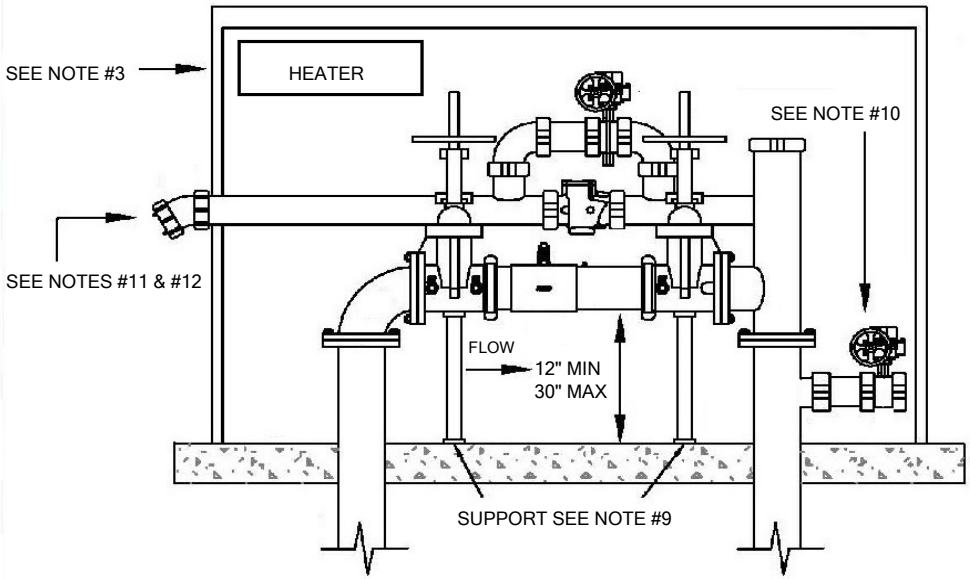
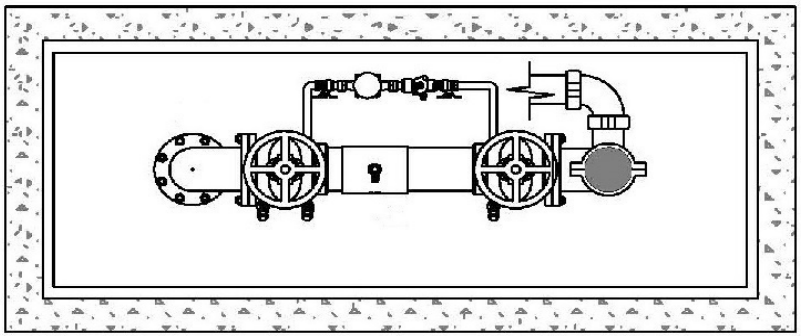
DOUBLE CHECK DETECTOR ASSEMBLY
OUTDOOR





NOTES

1. DOUBLE CHECK DETECTOR ASSEMBLY (DCDA), SIZE, MAKE, MODEL AND INSTALLATION ORIENTATION APPROVED BY USC FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
2. ASSEMBLY MUST BE INSTALLED ABOVE GROUND IN HEATED ENCLOSURE. ENCLOSURE AND HEATER CERTIFIED TO AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARD 1060, CLASS I (FREEZE PROTECTION).
3. ELECTRICAL WIRING FOR HEATING MUST BE IN CONDUIT THROUGH CONCRETE PAD. GFI PROTECTED ELECTRICAL OUTLET MUST BE AFFIXED TO BACK OF ENCLOSURE ABOVE ASSEMBLY. HEATER MUST BE OF TYPE AND SIZE AS RECOMMENDED AND APPROVED BY ENCLOSURE MANUFACTURER. HEATERS MUST BE MOUNTED ABOVE ASSEMBLY ON STATIONARY WALL. SAFE-T-COVER SLAB-MOUNTED HEATER.
4. ACCESS DOORS MUST BE INSTALLED ON TEST COCK SIDE OF ASSEMBLY AND FOR DETECTOR ASSEMBLIES, ON DETECTOR LOOP SIDE. ENCLOSURE DOORS MUST BE EASY TO REMOVE AND REINSTALL WITHOUT BINDING. ONE ENCLOSURE DOOR KEY MUST BE PROVIDED TO APPROVING AUTHORITY, UPON REQUEST.
5. ALL TEST COCKS SHALL BE IN PLACE WITH SHUT-OFF VALVES. ASSEMBLY MUST BE COMPLETELY TESTABLE, TO INCLUDE DETECTOR LOOP ASSEMBLY.
6. ASSEMBLY ENCLOSURE MUST BE AFFIXED TO 6-INCH THICK CONCRETE PAD OF 3,000 PSI MIX CONCRETE WITH AT LEAST (1) LAYER OF WELDED WIRE MESH. PAD SHALL BE PITCHED TO DRAIN AT SLOPE OF 1%TOWARDS DRAIN PORT END OF VALVE ENCLOSURE. ENCLOSURE MUST SET FLUSH WITH PAD SURFACE. PAD SHALL EXTEND A MINIMUM 6-INCHES BEYOND ENCLOSURE ON ALL SIDES. FOR 4-INCH AND SMALLER ASSEMBLIES 4-INCH THICK PAD MAY BE USED.
7. ASSEMBLY MUST BE INSTALLED IN A MANNER THAT PROVIDES EASY ACCESS FOR TESTING, MAINTAINING, REPAIRING AND REPLACING ASSEMBLY.
8. LOWEST POINT OF ASSEMBLY SHALL BE AT LEAST 12 INCHES BUT NOT MORE THAN 30 INCHES ABOVE CONCRETE PAD.
9. ADEQUATE SUPPORT, EXCLUDING WATER LINES, SHALL BE PROVIDED UNDER ASSEMBLY VALVES FOR ASSEMBLIES THAT ARE 3-INCHES OR LARGER. ADJUSTABLE PIPE STAND SUPPORTS SHALL BE CONSTRUCTED OF MINIMUM 2-INCHES DIAMETER PIPE AND SHALL HAVE FLOOR FLANGE FOR FASTENING STAND TO CONCRETE SLAB. PIPE STANDS SHALL BE FASTENED TO SLAB USING CONCRETE EXPANSION ANCHORS. FOR ASSEMBLIES 10-INCHES OR LARGER THREE PIPE STAND SUPPORTS REQUIRED. THIRD BEING UNDER CENTER OF ASSEMBLY.
10. APPROVED BLOW-OFF SHALL BE INSTALLED IN WATER LINE IMMEDIATELY AFTER ASSEMBLY, TO ALLOW FOR FLUSHING. ASSEMBLIES 2-INCH INCH THROUGH 8-INCH SHALL HAVE BLOW-OFF NOT LESS THAN 2 INCHES IN DIAMETER. ASSEMBLIES LARGER THAN 8-INCHES SHALL HAVE MINIMUM 4-INCH BLOW-OFF. ASSEMBLIES LESS THAN 2-INCH RECOMMENDED MINIMUM DIAMETER BLOW-OFF SAME AS ASSEMBLY OR PIPE SIZE.
11. FIRE DEPARTMENT CONNECTION FIVE INCH STORZ WITH 30 DEGREE TURN DOWN MUST BE LOCATED ON ENCLOSURE AND 30 TO 100 FEET FROM APPROVED HYDRANT. ADDRESS OF BUILDING(S) SERVED MUST BE CLEARLY SHOWN ON ENCLOSURE.
12. FIRE DEPARTMENT CONNECTION TO FACE STREET. ENCLOSURE TO HAVE IDENTIFICATION PLATE LOCATED NEAR FDC IDENTIFYING ADDRESS OF BUILDING(S) SERVED. LETTERING SHALL BE 2" HIGH, BLOCK STYLE, BLACK ON WHITE BACKGROUND SO FIRE DEPARTMENT CAN READILY RECOGNIZE LOCATION FDC IS SERVING. LETTERING MECHANICALLY FASTENED TO BASE PLATE. ADHESIVE BACKING NOT ACCEPTABLE.
13. UPON COMPLETION OF INSTALLATION INSTALLER MUST CONTACT WATER UTILITIES DEPARTMENT AT (479) 494-3913 FOR SCHEDULING OF FINAL INSPECTION OF ASSEMBLY TO VERIFY CONFORMANCE TO APPROVED INSTALLATION PLANS AND DIVISION 8 OF CITY OF FORT SMITH'S CROSS-CONNECTION CONTROL PROGRAM.

NO SCALE

CITY OF FORT SMITH STANDARD DRAWINGS - CROSS CONNECTION CONTROL

STANDARD NO. 4

VERSION NO. 1

VERSION DATE 02/25/2025

DOUBLE CHECK DETECTOR ASSEMBLY (DCDA)
FIRE PROTECTION WATER SERVICES
(OUTDOOR)

The City of Fort Smith ARKANSAS