CITY OF GASTONIA
DEPARTMENT OF PUBLIC WORKS & UTILITIES
APPROVED LIST OF BACKFLOW PREVENTION ASSEMBLIES

Approved Double Check Valve Assemblies:

AMES	2000	¾" – 10" (SS and DCA)
CONBRACO	40-100	¾" – 10"
FEBCO	805Y	¾" – 10"
	850	¾" – 8"
	870	2 ½" – 8"
WATTS	007QT	¾" – 2"
	007NRS	2 ½" – 3"
	709NRS	2 ½" – 10"
	774 NRS	4" – 8"
	774XNRS	6" & 8"
WILKINS	350	3" - 10"
	450	3, 4" & 6" (N Shape)
	950	3, 4" – 10"
	950XL	¾" – 2"
	(Wilkins A-Body Assemblies NOT Approved)	

Approved Reduced Pressure Principle Assemblies:

AMES	4000	¾" – 10" (SS and DCA)
FEBCO	825	¾" – 10"
	860	¾" – 8"
	880	2 ½" – 10" (N and Z Shape)
WATTS	009QT	¾" – 2"
	909QT	¾" – 2"
	009NRS	2 ½" – 10"
	994NRS	4" & 6"
WILKINS	375	3" – 8"
	975	3" – 10"
	975XL	¾" – 2"
	(Wilkins A-Body Assemblies NOT Approved)	

Note: Backflow prevention assemblies on metered fire services or combined domestic/fire services shall have FM approved OS&Y valves.

Approved Double Check Detector Assemblies – Fire Lines:

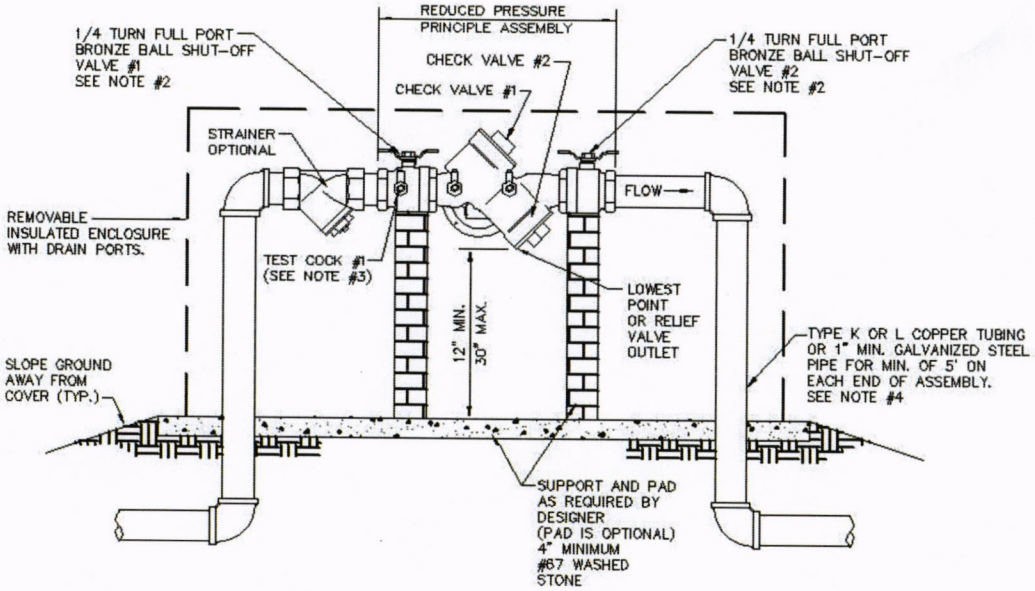
AMES	3000SS	2", 4" – 10"
CONBRACO	40-600	4" - 10"
FEBCO	806DDCA	4" – 10"
	856 DDCA	4" – 8"
	876DDCA	4" – 10" (N and Z Shape)
WATTS	007DCDA	2"
	709DCDA	4" – 10"
	774DCDA	4" – 10"
	774XDCDA	6" & 8"
WILKINS	350DA	4" - 10"
	450DA	4" & 6"
	950DA	4" – 10"
	(Wilkins A-body Assemblies NOT Approved)	

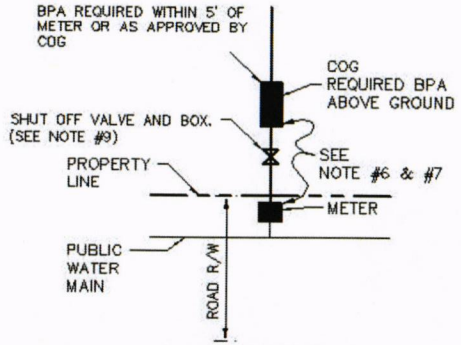
A double check detector assembly shall not be used on fire services with a booster pump or with chemical additives. The detector meter on all detector assemblies shall be in US Gallons. Backflow assemblies for fire lines shall have FM approved OS&Y valves.

Approved Reduced Pressure Detector Assemblies – Fire Lines:

AMES	5000SS	4" – 10"
CONBRACO	40-700	4" – 10"
FEBCO	826RPDA	4" – 10"
WATTS	909RPDA	4" – 10"
WILKINS	375DA	2" – 8"
	975DA	4" – 10"
	(Wilkins A-body Assemblies NOT Approved)	

Notes: The detector meter on all detector assemblies shall be in US Gallons.
Backflow assemblies for fire lines shall have FM approved OS&Y valves.
Fire Services with a booster pump or chemical additives must use a RPDA.





TYPICAL LOCATION REQUIREMENT
FOR ABOVE GROUND INSTALLATION
N.T.S.

NOTES:

1. REDUCED PRESSURE PRINCIPLE ASSEMBLIES (RP) MUST CONFORM TO COG SPECIFICATIONS. REFER TO COG APPROVED LIST OF BPA'S.
2. COG APPROVED RP INCLUDES SHUT-OFF VALVES #1 AND #2 AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
3. TEST COCK #1 SHALL BE UPSTREAM OF SHUT-OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
4. PIPE MATERIAL AND FITTINGS SHALL BE AS SPECIFIED IN COG STANDARDS & SPECIFICATIONS.
5. INSULATED ENCLOSURE SHALL BE AS SPECIFIED IN COG ENCLOSURE INFORMATION.
6. ALL LOCATIONS FOR BPA'S REQUIRE COG APPROVAL.
7. THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION POINTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS COG-REQUIRED BACKFLOW PREVENTER.
8. EACH COG-REQUIRED BPA IS REQUIRED TO BE TESTED BY A COG-APPROVED CERTIFIED TESTER PRIOR TO PLACING THE WATER SYSTEM IN SERVICE.
9. SHUT OFF VALVE REQUIRED BETWEEN METER AND BPA TO ALLOW REMOVAL OR SERVICE WITHOUT TURNING OFF METER.

REVISED	F.B.	PG.	DATE: JUNE 10, 2003
			SCALE: NONE
			DRAWN BY: TAJ
			CHECKED BY: MWB
			CITY ENGINEER: FAP

STANDARD DETAIL

REDUCED PRESSURE PRINCIPAL
ASSEMBLY (RP) 3/4"-2"
ABOVE GROUND

OFFICE OF THE
CITY ENGINEER
GASTONIA, N.C.

FILE NO. **71B-30**