

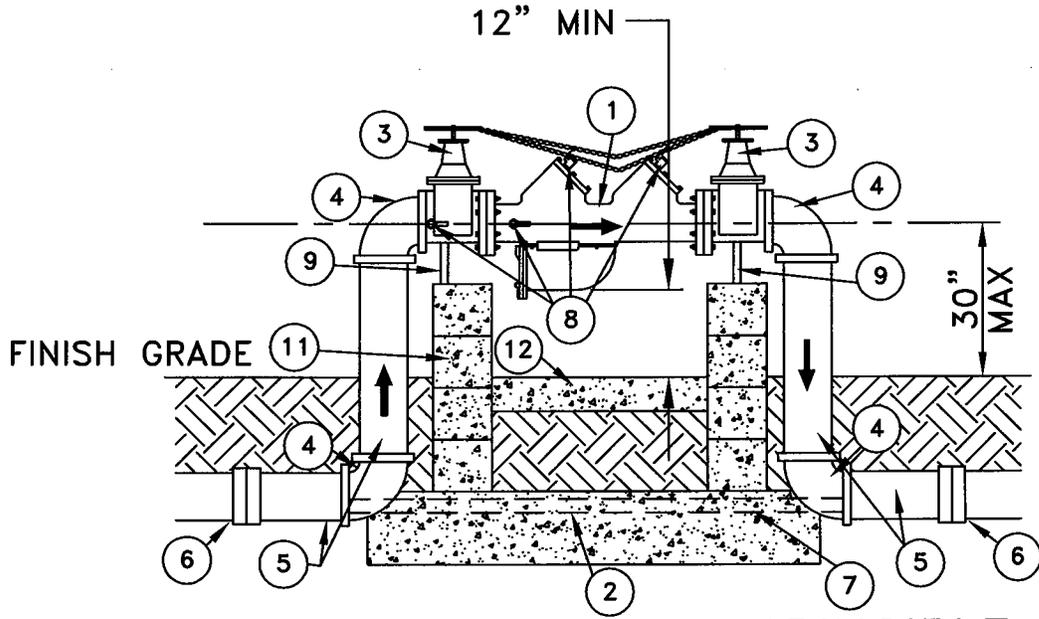
CITY OF PEORIA
STANDARD DETAIL PE-351-1
CROSS CONNECTION CONTROL 3 - INCHES &
LARGER REDUCED PRESSURE BACKFLOW PREVENTER



APPROVALS:

[Signature] 2/22/07
 CITY ENGINEER DATE

[Signature] 2/24/07
 UTILITIES DIRECTOR DATE



REDUCED PRESSURE PRINCIPLE

LIST OF MATERIALS:

1. APPROVED BACKFLOW ASSEMBLY.
2. COAT WITH COAL TAR EPOXY OR UTILIZE MANUFACTURER'S EPOXY COVERED SETTER.
3. RESILIENT SEATED GATE VALVE. (NON FIRE LINE) NON RISING STEM
4. 90° ELBOW (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
5. PIPE SPOOL (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
6. MECHANICAL JOINT
7. 3" X 3" X 1/4" STEEL ANGLE BOLT TO FLANGE AT EACH END OR UTILIZE MANUFACTURER'S SETTER (SUCH AS WILKINS, FEBCO, OR EQUIVALENT).
8. TEST COCK (4 REQUIRED).
9. ADJUSTABLE PIPE SUPPORT .
10. 8" X 8" X 16" CONCRETE BLOCK FILLED WITH MORTAR.
11. CONCRETE PAD FROM SUPPORT TO SUPPORT (4-INCHES DEEP X 12-INCHES WIDE).
12. CONSTRUCT 6" THICK CONCRETE BASE.

I:\GUIDE\DETAILS\CAD\PE-351-1

CITY OF PEORIA
STANDARD DETAIL PE-351-2
CROSS CONNECTION CONTROL 3 - INCHES &
LARGER REDUCED PRESSURE BACKFLOW PREVENTER



APPROVALS:

Donald H. ... 2/27/07
CITY ENGINEER DATE

Stephen ... 2/26/07
UTILITIES DIRECTOR DATE

NOTES:

- A. CONTACT CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USERS DIVISION FOR LIST OF APPROVED ASSEMBLIES.
- B. THE FOUR TEST COCKS SHALL BE FITTED WITH BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS. TEST COCKS SHALL BE USED FOR TESTING ONLY.
- C. INSTALLATION SHALL BE PROTECTED BY SAFETY POSTS (BOLLARDS) IF NEAR TRAFFIC AREAS PER M.A.G. STANDARD DETAIL 140.
- D. FINISHED MATERIAL UNDER BACKFLOW ASSEMBLY SHALL BE ADEQUATE TO PREVENT SUBSIDENCE OF ASSEMBLY.
- E. ASSEMBLY SHALL BE PAINTED TAN OR COLOR TO MATCH BACKGROUND. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY.
- F. INSPECTIONS REQUIRED FOR: PIERS, THRUSTBLOCKS, ANGLE STEEL AND/OR SETTER ASSEMBLY. (BY CITY OF PEORIA CROSS CONNECTION STAFF)
- G. BOTTOM OF LOWEST POINT ON ASSEMBLY TO BE 12-INCHES MIN. AND 30-INCHES MAX. TO ASSEMBLY CENTERLINE ABOVE GRADE.
- H. MINIMUM CLEARANCE FROM FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12-INCHES.
- I. ASSEMBLY MUST BE INSPECTED BY CITY OF PEORIA ENVIRONMENTAL DIVISION AND TESTED BY AN AUTHORIZED & CERTIFIED TESTER.
- J. PLUMBING PERMIT REQUIRED FOR INSTALLATION.
- K. THRUST BLOCK PER MAG STANDARD DETAIL 380 IF SETTER IS NOT USED.

CITY OF PEORIA STANDARD DETAIL PE-352-1

CROSS CONNECTION CONTROL 2 1/2 - INCHES &
SMALLER REDUCED PRESSURE BACKFLOW PREVENTER



APPROVALS:

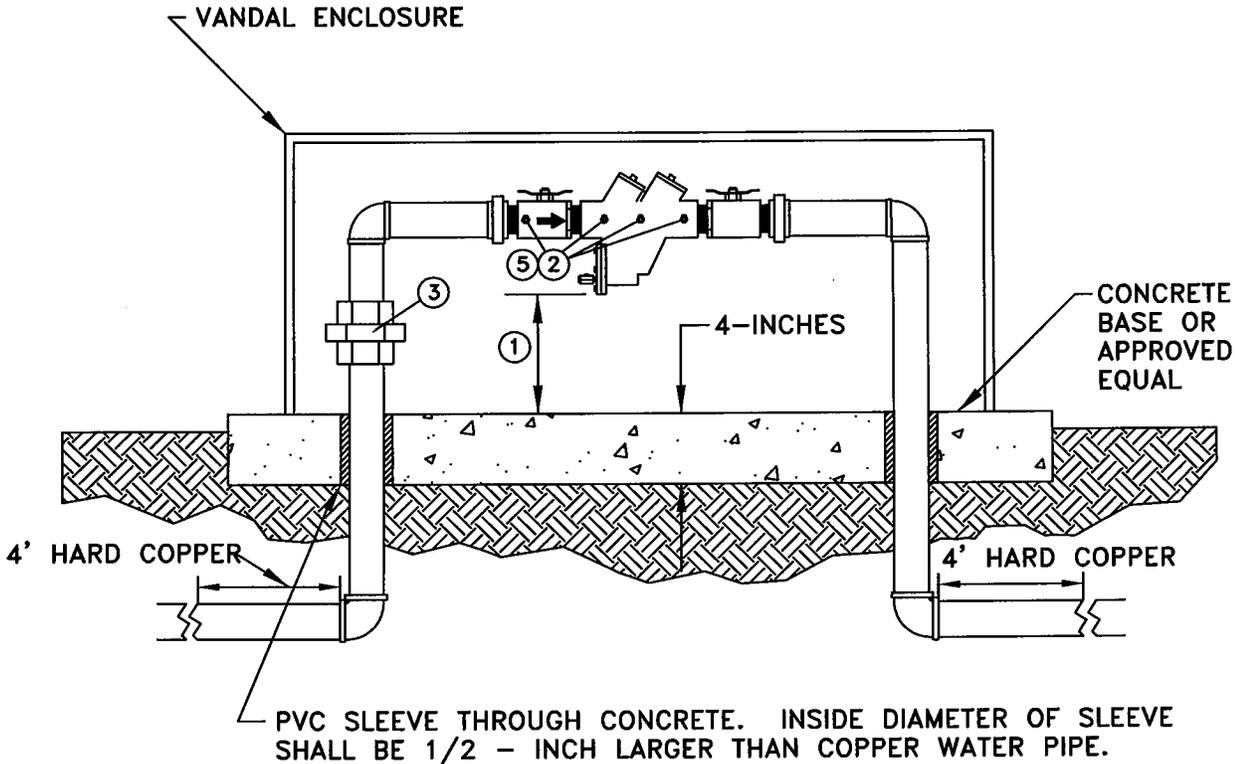
[Signature]
CITY ENGINEER

2/26/07
DATE

[Signature]
UTILITIES DIRECTOR

2/26/07
DATE

OUTSIDE INSTALLATION



NOTES:

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12 - INCHES ABOVE THE SURFACE IMMEDIATELY BELOW THE RELIEF VALVE OPENING BUT NO MORE THAN 30 - INCHES ABOVE GRADE.
2. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12 - INCHES.
3. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED.
4. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA ENVIRONMENTAL DIVISION AND TESTED BY A CITY RECOGNIZED TESTER.
5. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY.
6. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION.
7. ASSEMBLIES MUST BE INSTALLED AS DESIGNED AND CONSTRUCTED BY THE MANUFACTURER.
8. VANDAL ENCLOSURE TO BE "LOCKBOX" OR APPROVED EQUAL.

CITY OF PEORIA
STANDARD DETAIL PE-352-2
CROSS CONNECTION CONTROL 2 1/2 - INCHES &
SMALLER REDUCED PRESSURE BACKFLOW PREVENTER

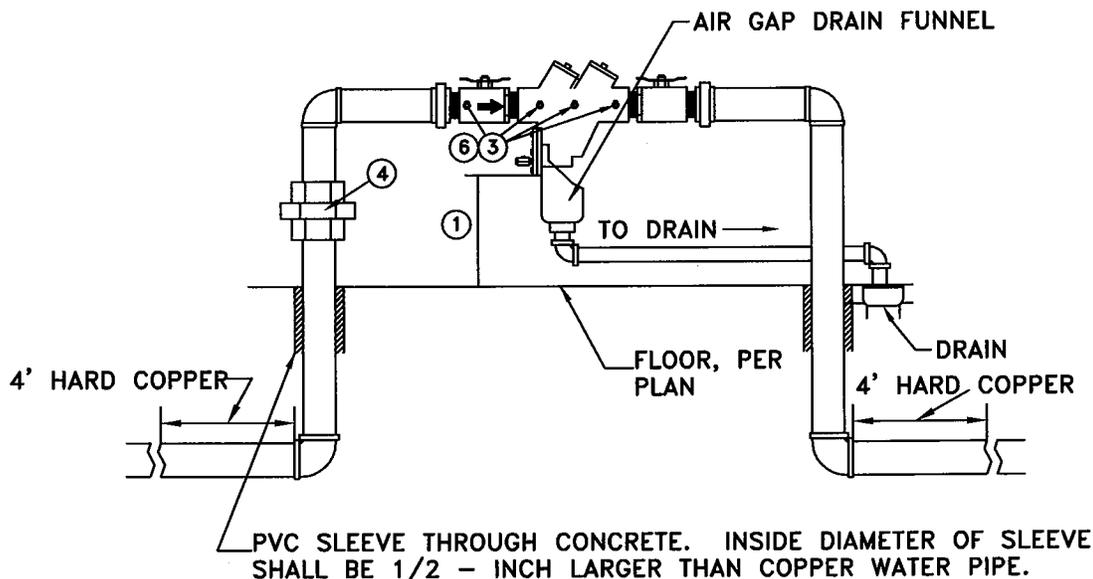


APPROVALS:

Daniel McCoy 2/27/07
 CITY ENGINEER DATE

Stephen Santiago 2/22/07
 UTILITIES DIRECTOR DATE

INSIDE INSTALLATION



MUST HAVE DRAIN IF INSTALLED INSIDE

NOTES:

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12 - INCHES ABOVE THE SURFACE IMMEDIATELY BELOW THE RELIEF VALVE OPENING.
2. ASSEMBLIES INSTALLED ABOVE 5-FEET FROM THE FLOOR MUST COMPLY WITH CURRENT CITY APPROVED UPC.
3. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12 - INCHES.
4. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED.
5. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USERS DIVISION AND TESTED BY A CITY RECOGNIZED TESTER.
6. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTORS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY.
7. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION.
8. CONTACT CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USERS DIVISION FOR LIST OF APPROVED ASSEMBLIES.
9. ASSEMBLIES MUST BE INSTALLED AS SHIPPED.
10. PIPING TO COMPLY TO CURRENT COP STANDARDS.

I:\GUIDE\DETAILS\CAD\PE-352-2

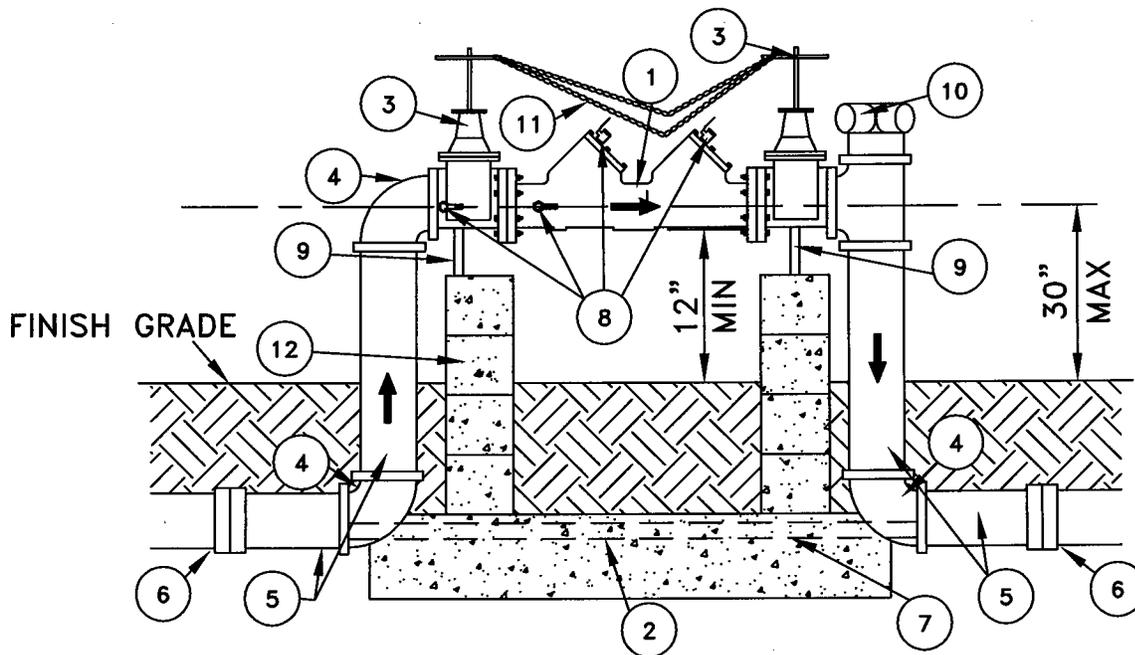
CITY OF PEORIA
 STANDARD DETAIL PE-353-1
 CROSS CONNECTION CONTROL 3 - INCHES &
 LARGER DOUBLE CHECK VALVE ASSEMBLY



APPROVALS:

David M. ... 2/27/07
 CITY ENGINEER DATE

Stephen ... 2/27/07
 UTILITIES DIRECTOR DATE



LIST OF MATERIALS

1. APPROVED BACKFLOW ASSEMBLY.
2. COAT WITH COAL TAR EPOXY OR UTILIZE MANUFACTURER'S EPOXY COVERED SETTER.
3. RESILIENT SEATED GATE VALVE. O.S. & Y. (FIRE LINE CONNECTION)
4. 90° ELBOW (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
5. PIPE SPOOL (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
6. MECHANICAL JOINT
7. 3" X 3" X 1/4" STEEL ANGLE BOLT TO FLANGE AT EACH END OR UTILIZE MANUFACTURER'S SETTER (SUCH AS WILKINS, FEBCO, OR EQUIVALENT).
8. TEST COCK (4 REQUIRED)
9. ADJUSTABLE PIPE SUPPORT
10. SIAMESE FIRE CONNECTION (CONTACT PEORIA F.D. FOR SPECIFIC REQUIREMENTS)
11. CHAIN & LOCK (FIRE LINE MAY BE REQUIRED TO BE ELECTRONICALLY MONITORED, SEE P.F.D. FOR DETAILS, VALVES. CONTACT PEORIA FIRE DEPARTMENT FOR SPECIFIC REQUIREMENTS.)
12. 8" X 8" X 16" CONCRETE BLOCK FILLED WITH MORTAR

I:\GUIDE\DETAILS\CAD\PE-353-1

CITY OF PEORIA
STANDARD DETAIL PE-353-2
CROSS CONNECTION CONTROL 3 - INCHES &
LARGER DOUBLE CHECK VALVE ASSEMBLY



APPROVALS:

[Signature] 2/22/07
CITY ENGINEER DATE

[Signature] 2/26/07
UTILITIES DIRECTOR DATE

NOTES:

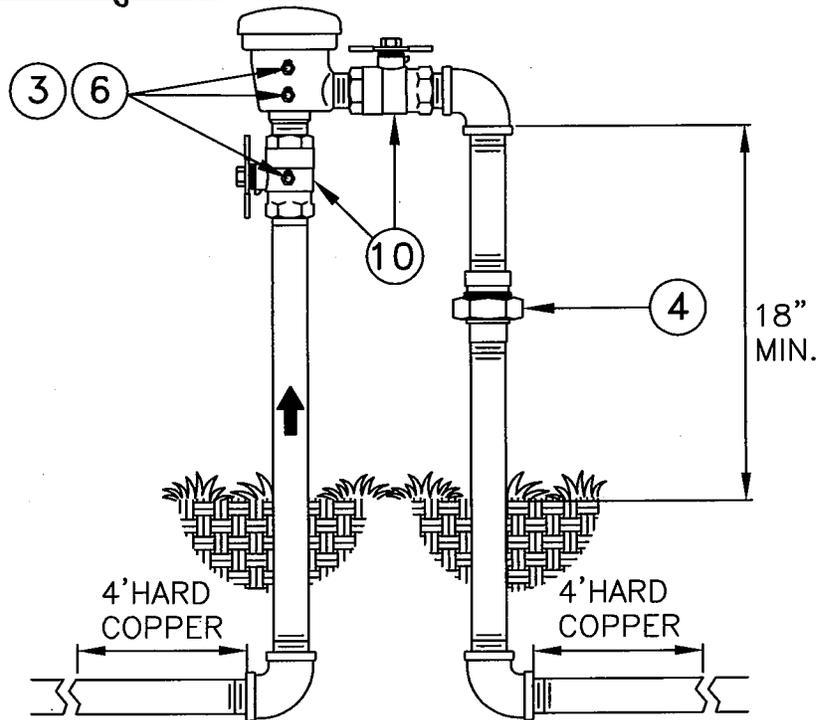
- A. CONTACT CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USERS DIVISION FOR LIST OF APPROVED ASSEMBLIES.
- B. THE FOUR TEST COCKS SHALL BE FITTED WITH BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS. TEST COCKS SHALL BE USED FOR TESTING ONLY.
- C. INSTALLATION SHALL BE PROTECTED BY SAFETY POSTS (BOLLARDS) IN TRAFFIC AREAS PER M.A.G. STANDARD DETAIL 140.
- D. FINISHED MATERIAL UNDER BACKFLOW ASSEMBLY SHALL BE ADEQUATE TO PREVENT SUBSIDENCE OF ASSEMBLY.
- E. ASSEMBLY SHALL BE PAINTED TAN OR COLOR TO MATCH BACKGROUND. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY.
- F. INSPECTIONS REQUIRED FOR: PIERS, THRUSTBLOCKS, ANGLE STEEL AND/OR SETTER ASSEMBLY. (BY CITY OF PEORIA CROSS CONNECTION STAFF)
- G. BOTTOM OF LOWEST POINT ON ASSEMBLY TO BE 12-INCHES MIN. AND 30-INCHES MAX. TO ASSEMBLY CENTERLINE ABOVE GRADE.
- H. MINIMUM CLEARANCE FROM FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12-INCHES.
- I. ASSEMBLY MUST BE INSPECTED BY CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USERS DIVISION AND TESTED BY A CITY RECOGNIZED TESTER.
- J. PLUMBING PERMIT REQUIRED FOR INSTALLATION.
- K. THRUST BLOCK PER MAG STANDARD DETAIL 380 IF SETTER IS NOT USED.

CITY OF PEORIA
STANDARD DETAIL PE-355
PRESSURE VACUUM BREAKER ASSEMBLY
RESIDENTIAL



APPROVALS: *Dan Hoff* 2/27/07
 CITY ENGINEER DATE

Stephen Santoro 2/26/07
 UTILITIES DIRECTOR DATE



NOTES:

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12 - INCHES ABOVE ALL DOWNSTREAM PIPING . IF THIS DISTANCE EXCEEDS 24-INCHES A REDUCED PRESSURE PRINCIPAL ASSEMBLY MUST BE USED(SEE STANDARD DETAIL PE-352-2).
2. ASSEMBLIES INSTALLED ABOVE 5 - FEET FROM THE FLOOR MUST COMPLY WITH CURRENT CITY APPROVED UPC.
3. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12 - INCHES.
4. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED.
5. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA ENVIRONMENTAL/ INDUSTRIAL USERS DIVISION AND TESTED BY A CITY RECOGNIZED TESTER.
6. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY.
7. PRESSURE VACUUM BREAKERS SHALL NOT BE USED FOR COMMERCIAL IRRIGATION SYSTEMS.
8. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION.
9. ASSEMBLIES MUST BE INSTALLED AS DESIGNED AND CONSTRUCTED BY THE MANUFACTURER.
10. BALL VALVES ARE REQUIRED UPSTREAM AND DOWNSTREAM OF THE ASSEMBLY.