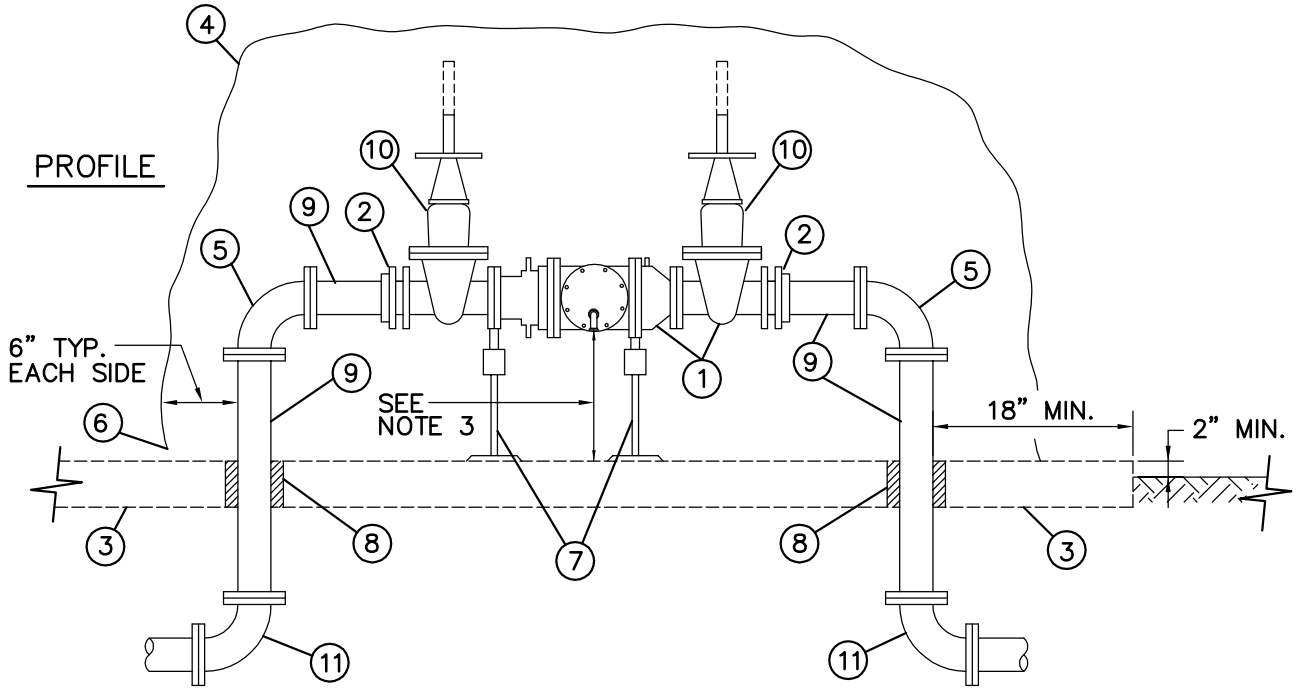
NOTICE: OUTSIDE-INSTALLED RPBA IS NOT ALLOWED IN BURIED VAULTS. DEVELOPER SHALL PROVIDE UTILITIES WITH A DESIGN FOR AN ABOVE-GROUND ENCLOSURE THAT DRAINS TO DAY LIGHT FOR APPROVAL. CLEARANCES SHOWN BELOW SHALL APPLY TO THE ENCLOSURE.



1. STATE APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY, COMPLETE WITH (2) RESILIENT SEATED O.S.&Y. GATE VALVES (2" AND SMALLER: FULL FLOW RESILIENT SEATED BALL VALVES) AND (4) RESILIENT SEATED TEST COCKS.
2. MEGAFLANGE. (2" AND SMALLER: BRASS UNION, M.I.P.T.xF.I.P.T.).
3. 4" CONC. (2,000 PSI) SLAB EXTENDED 6" BEYOND ENCLOSURE (ALL DIRECTIONS). REINFORCED W/ 6x6 W2.9xW2.9 WWF.
4. APPROVED ENCLOSURE. CONTRACTOR TO VERIFY REQUIRED SIZE.
5. 90° BEND, FL (2" AND SMALLER: BRASS, F.I. P.T.).
6. ENCLOSURE DRAIN, SIZED IN ACCORDNCE WITH PNWS-AWWA CROSS CONNECTION CONTROL MANUAL (7TH ADDITION) FIGURE 6-1.
7. TWO ADJUSTABLE PIPE STANCHIONS, BOLTED TO SLAB.
8. PVC SLEEVE THROUGH SLAB.
9. CL. 52 D.I., PExFL (2" AND SMALLER: BRASS NIPLE, M.I.P.T.)
10. EACH VALVE SHALL BE MARKED WITH MODEL NUMBER WITH DESIGNATION OF RESILIENT SEAT: SUCH AS "RS" OR "R", WHICH MUST BE CAST, MOLDED, OR AFFIXED ONTO THE BODY OR BONNET OF THE VALVE. ALL FERROUS BODIED VALVES SHALL BE COATED WITH A MINIMUM OF 4MLS. OF EPOXY OR EQUIVALENT POLYMERIZED COATING.
11. 90° BEND, RESTRAINED JOINT (2" AND SMALLER: BRASS, COMPRESSION x F.I.P.T.).

NOTES:
1. PROVIDE ELECTRICAL HEAT TAPE FREEZE PROTECTION.
2. WHEN THE REDUCED PRESSURE ASSEMBLY IS LOCATED INSIDE A BUILDING A SIZED DRAIN LINE SHALL BE PROVIDED FOR RELIEF PORT. THERE MUST BE AN APPROVED AIR GAP BETWEEN THE RELIEF PORT AND DRAIN.
3. ALLOW 12"+ NOMINAL DIAMETER OF ASSEMBLY CLEARANCE BELOW RELIEF PORT FOR REPAIR. ALSO PROVIDE 12" MIN. AIR GAP CLEARANCE FROM TOP OF DRAIN PIPE.
4. REDUCED PRESSURE BACKFLOW ASSEMBLY WILL BE ALLOWED TO BE INSTALLED IN VAULTS ONLY IN CASES WHERE NO OTHER MEANS OF INSTALLATION IS AVAILABLE AND AS APPROVED BY A CITY OF BELLEVUE WATER QUALITY TECHNICIAN.
5. TESTING IS REQUIRED BY A WASHINGTON STATE DEPARTMENT OF HEALTH CERTIFIED BACKFLOW ASSEMBLY TESTER UPON INSTALLATION AND ANNUALLY THEREAFTER. ASSEMBLY TO BE MAINTAINED BY OWNER.
6. ALL CLEARANCES SHOWN ARE MINIMUM.
7. ENCLOSURES SHALL NOT BE INSTALLED IN AREAS WITH VEHICULAR TRAFFIC.
8. TEE AND GATE VALVES REQUIRED ON MAIN.
9. IN CENTRAL BUSINESS DISTRICT, 3" THROUGH 6" ASSEMBLIES SHALL CONNECT TO WATER MAIN WITH 8" PIPE.
10. MINIMUM 2' OF LEVEL, UNOBSTRUCTED AREA AROUND ENCLOSURES.
11. RPBA INSTALLATIONS THAT DIFFER FROM THE STANDARD DETAIL MUST BE APPROVED BY THE CROSS CONNECTION PROGRAM ADMINISTRATOR (425-452-5208) AND WILL BE REVIEWED ON A CASE-BY-CASE BASIS TO ENSURE THEY MEET CURRENT MINIMUM REQUIREMENTS FOR INSTALLATION AND FREEZE PROTECTION.

City of Bellevue

WATER UTILITY

TITLE

REDUCED PRESSURE BACKFLOW ASSEMBLY FOR DOMESTIC AND IRRIGATION SERVICE (OUTSIDE INSTALLATION)

NO. W-46A

JANUARY 2014

NO SCALE