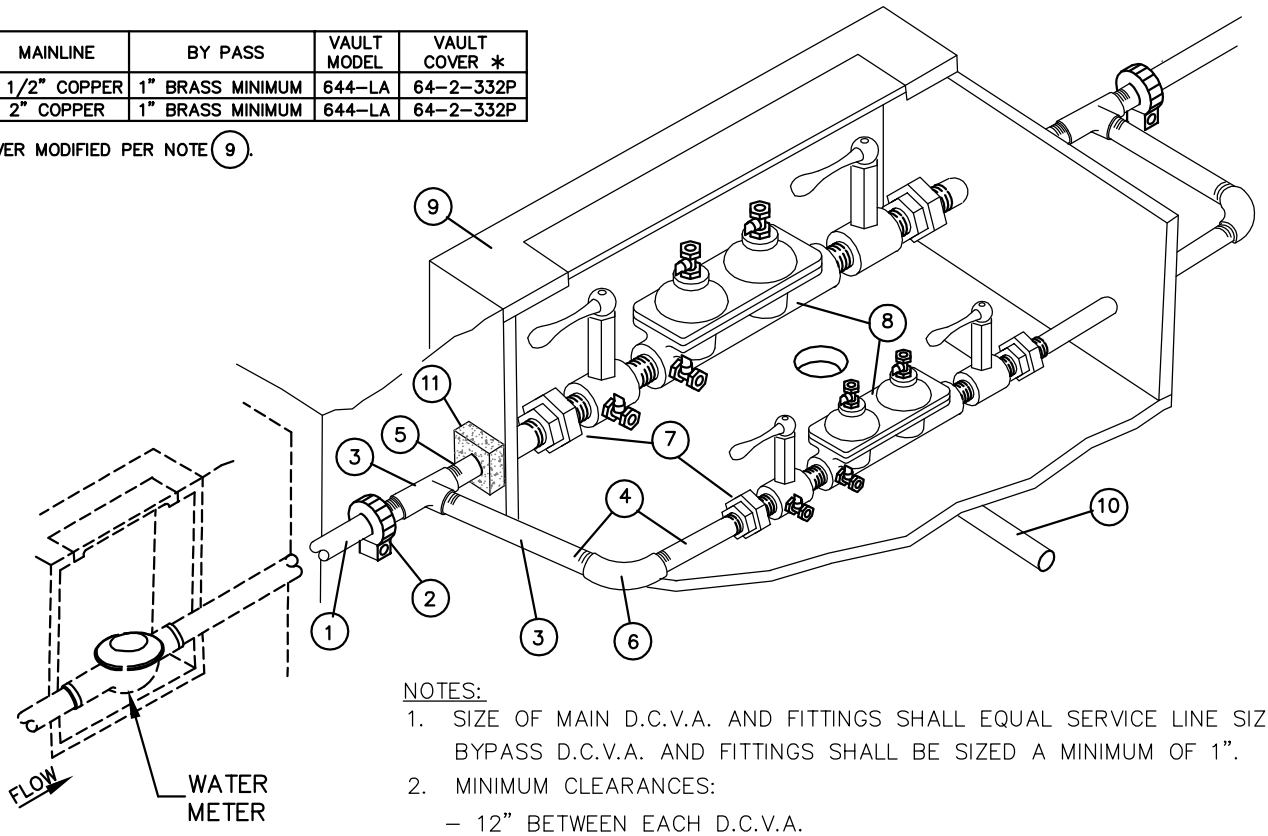
METER SIZE	MAINLINE	BY PASS	VAULT MODEL	VAULT COVER *
1 1/2"	1 1/2" COPPER	1" BRASS MINIMUM	644-LA	64-2-332P
2"	2" COPPER	1" BRASS MINIMUM	644-LA	64-2-332P

* COVER MODIFIED PER NOTE 9.



NOTES:

1. SIZE OF MAIN D.C.V.A. AND FITTINGS SHALL EQUAL SERVICE LINE SIZE. BYPASS D.C.V.A. AND FITTINGS SHALL BE SIZED A MINIMUM OF 1".
2. MINIMUM CLEARANCES:
   - 12" BETWEEN EACH D.C.V.A.
   - 12" BETWEEN D.C.V.A. AND SIDE OF VAULT.
   - 12" BETWEEN D.C.V.A. AND VAULT FLOOR.
   - 24" SOIL COVER OVER SERVICE LINE.
3. INSTALL PLUGS IN ALL TEST COCKS.
4. 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.
5. BRASS FITTINGS.
6. WHERE ACCESS OPENING DOES NOT EXPOSE SHUT OFF VALVES, MIN. 18" CLEARANCE SHALL BE REQUIRED BETWEEN TOP OF VALVE AND UNDERSIDE OF VAULT COVER.

1. COPPER TUBING, TYPE K. *
2. COUPLING, MALE IRON PIPE THREAD BY PACK JOINT (COMPRESSION FITTING) FOR COPPER, MUELLER NO. H-15428 OR EQUAL. *
3. BRASS TEE, MAIN LINE SIZE x 1", FEMALE IRON PIPE THREAD. *
4. BRASS NIPPLE, LENGTH TO FIT, 1", MALE IRON PIPE THREAD. *
5. BRASS NIPPLE, MAIN LINE SIZE, LENGTH TO FIT, MALE IRON PIPE THREAD. *
6. BRASS ELBOW, 1", FEMALE IRON PIPE THREAD. *
7. BRASS UNION, MALE x FEMALE IRON PIPE THREAD. *
8. WASHINGTON STATE APPROVED DOUBLE CHECK VALVE ASSEMBLY. MUST BE INSTALLED IN APPROVED ORIENTATION.
9. CONCRETE VAULT WITH 2 LOCKING ALUMINUM LW HATCH DOORS (PART NO. HHD-36"x72"), RATED FOR H-30 LOADING, WITH SLIP RESISTANT TREATMENT PER SECTION W4-17 OF THE ENGINEERING STANDARDS. COVER TO READ "WATER". SIZE VAULT TO PROVIDE MINIMUM CLEARANCES LISTED IN NOTE 2.
10. DRAIN, SLOPE TO DAYLIGHT OR STORM DRAINAGE SYSTEM (DO NOT CONNECT TO SANITARY SEWER). WIRE MESH RODENT SCREEN OVER DRAIN.
11. VAULT PENETRATION THRUST BLOCK SEE STANDARD DETAIL W-56.

* TYPICAL, EACH SIDE OF D.C.V.A.

City of Bellevue

WATER UTILITY

TITLE

1 1/2" AND 2" DOMESTIC DOUBLE CHECK VALVE ASSEMBLY FOR CONTINUOUS SUPPLY (OUTSIDE INSTALLATION)

NO. W-41

JANUARY 2014

NO SCALE