



**LEGEND**

- ① DOUBLE-CHECK DETECTOR VALVE ASSEMBLY CAPABLE OF METERING WATER USAGE UNDER LOW FLOW CONDITIONS. 10.0 PSI HEAD LOSS AT 1600 GPM FOR 8" SIZE. ASSEMBLY TO BE STATE DOH APPROVED. SIZE AS SPECIFIED ON PLANS.
- ①A DCDA OR RP BACKFLOW PREVENTER WITH DETECTOR
- ①B 1-BY-PASS METER 5/8" X 3/4" NEPTUNE READING METER SUPPLIED AND INSTALLED BY THE CITY OF BONNEY LAKE COMPLETE WITH SPUD NUT ON BOTH ENDS.
- ①C 1-DOUBLE CHECK VALVE ASSEMBLY, 3/4" FOR 8" DDCV
- ①D 2-GATE VALVES, (FL) W/HAND WHEEL; RISING STEM, RESILIENT SEATED AS PER STATE REQUIREMENTS.
- ①E 2-GATE VALVES, (FL) W/HAND WHEEL; RISING STEM, RESILIENT SEATED AS PER STATE REQUIREMENTS.
- ② 2-FLANGED COUPLING ADAPTER, SIZE AS SPECIFIED ON PLANS. (LOCATE MINIMUM 6" FROM INNER WALL).
- ③ 2-PIPE SPOOLS, PLAIN END. SAME SIZE AS SPECIFIED ON PLANS.
- ④ 1-REDUCER (MJ X MJ), IF REQUIRED. SIZE AS SPECIFIED ON PIPE SUPPORT PLANS.
- ⑤ WATER MAIN CL50, SIZE AS SPECIFIED ON PLANS.
- ⑥ SEE W9 FOR LADDER SPECIFICATIONS.
- ⑦ SEE W9 FOR VAULT AND PIPE RESTRAINT SYSTEMS SPECIFICATIONS.
- ⑧ PROVIDE GRINNELL PIPE SUPPORTS, TO INCLUDE STEEL YOKE, BOLT TO VAULT FLOOR USING MANUFACTURER RECOMMENDED CONNECTION AND SIZES.
- ⑨ MECHANICALLY SEAL, TYPICAL FOR ALL VAULT PENETRATIONS.
- ⑩ CONCRETE THRUST BLOCK PER DETAIL W4 AS APPLICABLE.

**NOTES:**

1. PAINT ALL PIPING WITH SHERWIN WILLIAMS INDUSTRIAL ENAMEL VOC B54Z SERIES IN BONNEY LAKE COLOR 8610-14514 T/M WATER BLUE.
2. PROVIDE GRINNELL PIPE SUPPORTS, WHERE REQUIRED (3 MINIMUM).
3. ALL PIPE JOINTS SHALL BE RESTRAINED. CONCRETE BLOCKING REQUIRED AT CHANGES IN DIRECTION.
4. PROVIDE 6 INCH CLEARANCE BETWEEN VALVES, FITTINGS, AND WALLS.

Approved:  March 16, 2018  
 City Engineer Date  
**WATER STANDARD DETAIL**



Dwg No: **W17**  
**DOUBLE-CHECK DETECTOR WITH FIRE CONNECTION**