

**- Water Standards -**

Standard Number: **W111**

**CHELAN COUNTY  
PUBLIC UTILITY DISTRICT**  
*Owned By The People We Serve*



**1" COMBINATION AIR VALVE ASSEMBLY**

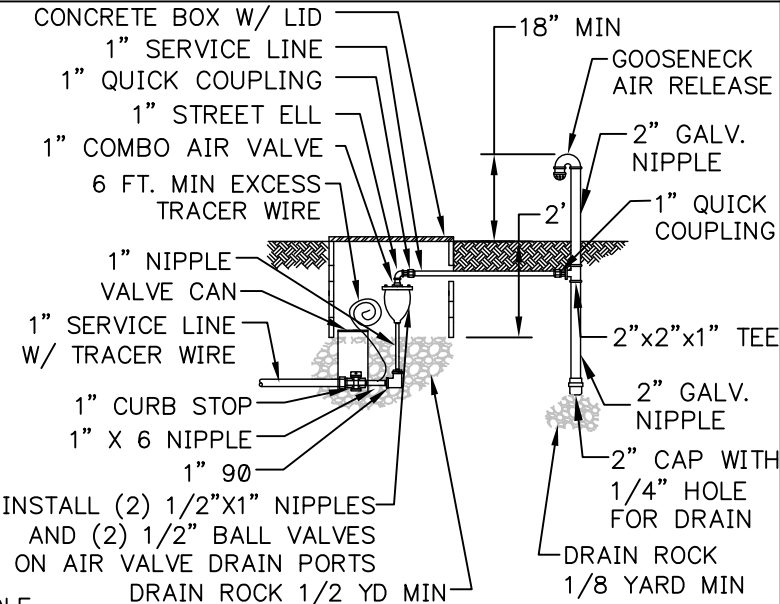
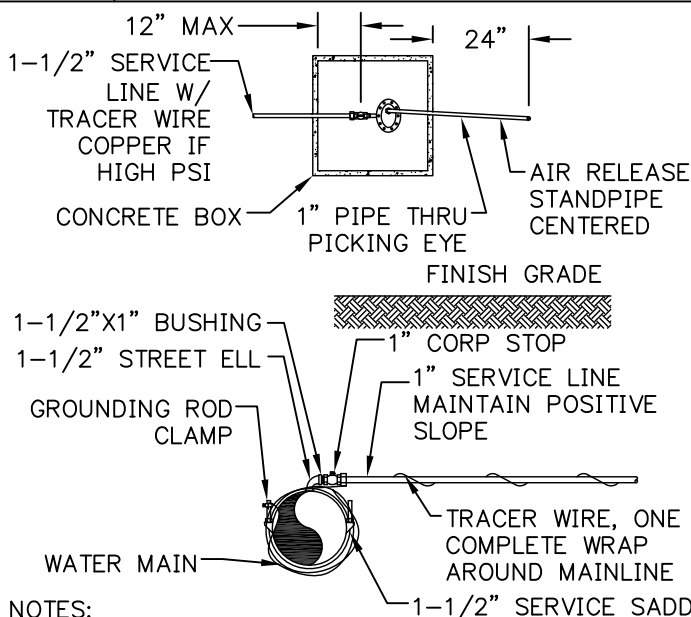
Originator: **RCS**

Standards Approval:  
**Ron Slabaugh**

Date: **3/12/2019**

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Rev #: **3**      Revision Description:  
**2019 UPDATES**



**NOTES:**

1. TAP FOR THE AIR VALVE ASSEMBLY SHALL BE INSTALLED AT HIGHEST POINT IN WATER MAIN.
2. ALL PIPING TO AND FROM THE COMBINATION AIR VALVE SHALL MAINTAIN A POSITIVE SLOPE.
3. LOCATE CONCRETE BOX WITH OUTSIDE EDGE 2 FT FROM RIGHT-OF WAY AND SET LID 2" ABOVE FINISH GRADE (IF NOT IN WALK OR DRIVE). SET AIR RELEASE STANDPIPE ON RIGHT-OF WAY.
4. INSTALLATION OF TRACER WIRE IS REQUIRED FOR ALL HDPE SERVICE LINES. TRACER WIRE SHALL BE SECURED TO THE HDPE SERVICE PIPE BY ELECTRICAL TAPE OR INDUSTRIAL ZIP-TIES AT 3 FT. INTERVALS AND WRAPPED AROUND SERVICE SADDLE TWICE BEFORE CONNECTING TO SERVICE SADDLE ROD WITH 5/8" GROUNDING ROD CLAMP. TRACER WIRE SHALL BE EXTENDED INTO THE CHAMBER AND COILED WITH MINIMUM 6 FT. EXCESS.
5. ABOVE GROUND GALVANIZED PIPE SHALL BE PAINTED SAFETY YELLOW.
6. ALL BRASS FITTINGS TO BE DOMESTIC BRASS.

**MATERIALS LIST**

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| <ul style="list-style-type: none"> <li>(1) H2 PRECAST VAULT 444 OPEN BOTTOM(OR EQUAL) W/COVER 440-13</li> <li>(1) 1-1/2" SERVICE SADDLE - ROMAC 202S</li> <li>(1) 1-1/2" STREET ELL - BRASS</li> <li>(1) 1" CORPORATION STOP - BRASS MIPT X COMP, FORD FB1100-6-Q, OR EQUAL</li> <li>(1) 1" CURB STOP - BRASS COMP X FIPT, FORD B41-666-Q, OR EQUAL</li> <li>(1) 1" X 6" NIPPLE, BRASS</li> <li>(1) 1" 90, BRASS</li> <li>(1) 1-1/2" X 1" BUSHING, BRASS</li> <li>(1) 1" BRASS NIPPLE, LENGTH AS NEEDED TO SET AIR VALVE HEIGHT</li> <li>(2) 1/2" X 1" NIPPLES</li> <li>(2) 1/2" BALL VALVES</li> <li>(1) VALVE CAN, POLY</li> <li>(1) 1" NPT COMBINATION AIR VALVE, APCO SERIES 143C, OR EQUAL</li> <li>(1) 1" STREET ELL, BRASS</li> <li>(2) QUICK JOINT COUPLING, BRASS COMP X MIPT, FORD C84-44-Q, OR EQUAL</li> <li>(1) 2" X 2" X 1" TEE, GALVANIZED</li> </ul> | <ul style="list-style-type: none"> <li>(2) 2" x 24" NIPPLES, GALVANIZED</li> <li>(1) 2" BRASS BEEHIVE STRAINER</li> <li>(1) GOOSENECK AIR RELEASE, GALVANIZED</li> <li>(1) 2" CAP WITH 1/4" HOLE DRILLED TO DRAIN, GALVANIZED</li> <li>(1) 5/8" GROUNDING ROD CLAMP - ERITECH HDC58</li> <li>(2) 1" POLY INSERTS - CTS STAINLESS STEEL MIN 2-3/8" LENGTH</li> <li>(2) 1" POLY INSERTS - CTS STAINLESS STEEL MIN 2-3/8" LENGTH</li> <li>(FT) 1-1/2" AND 1" HDPE SDR 9 OR 1-1/2" AND 1" TYPE K COPPER (WHEN SERVICE PRESSURE IS GREATER THAN 150 PSI) SERVICE LINE W/ 12 GAUGE SOLID CORE BLUE COATED COPPER TRACER WIRE.</li> <li>(1/2 YARD) DRAIN ROCK FLUSH TO 6" BELOW BASE OF COMBO AIR VALVE ASSEMBLY</li> <li>(1/8 YARD) DRAIN ROCK FOR STANDPIPE DRAIN</li> </ul> |
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