

**- Water Standards -**

Standard Number: **W124**

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



**GENERAL CONSTRUCTION NOTES**

Originator: **RCS**

Standards Approval:  
**Ron Slabaugh**

Date: **3/12/2019**

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Rev #: Revision Description:

**1 2019 UPDATES**

GENERAL CONSTRUCTION NOTES:

1. ALL CONSTRUCTION AND RESTORATION ACTIVITIES SHALL FOLLOW THE MOST CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS UNLESS OTHERWISE STATED HEREIN OR REFLECTED IN STANDARD DETAILS.
2. CONTRACTOR SHALL SUPPLY LABOR, EQUIPMENT AND MATERIALS FOR INSTALLATION OF WATER MAIN AND CONNECTION OF SERVICES TO NEW MAIN, INCLUDING PIPE RESTRAINTS, TRENCH BACKFILL, SURFACE RESTORATION AND LANDSCAPING WHERE REQUIRED.
3. ALL COUNTY AND CITY ROAD STANDARDS SHALL BE FOLLOWED ACCORDING TO THE APPLICABLE FRANCHISE AGREEMENTS WITH THE DISTRICT.
4. POLYETHYLENE ENCASEMENT OF DUCTILE IRON PIPE IS REQUIRED. INSTALLATION SHALL FOLLOW THE DISTRICTS MOST CURRENT WATER STANDARD DETAIL.
5. ALL SHOULDERS AND DITCHES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION.
6. WATER LINES SHALL HAVE A MINIMUM DEPTH OF FORTY EIGHT INCHES (48") TO CROWN OF PIPE.
7. ALL WATER MAIN SHALL BE CLASS 50 DUCTILE IRON PIPE MORTAR LINED. ALL FLANGED PIPE SHALL BE CLASS 53 DUCTILE IRON MORTAR LINED.
8. PRIOR TO WATER SYSTEM DESIGN, THE DISTRICT MUST DETERMINE SYSTEM OPERATING PRESSURE FOR WATER SERVICES. IF WATER SERVICES ARE DEEMED TO BE IN A HIGH PRESSURE ZONE (GREATER THAN 150 PSI), WATER SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGH PRESSURE SERVICE DETAILS.
9. WATER SERVICE LINES SHALL BE HDPE SDR 9 ASTM D2737 CTS UNLESS SERVICE PRESSURE IS ABOVE 150 PSI, IN WHICH CASE TYPE K COPPER SHALL BE REQUIRED. SOLID CORE 12 GAUGE COPPER TRACING WIRE COATED BLUE SHALL BE REQUIRED ON ALL HDPE SERVICE LINES.
10. A HYDROSTATIC PRESSURE TEST SHALL BE PERFORMED PRIOR TO FINAL DISTRICT ACCEPTANCE AT A MINIMUM TEST PRESSURE OF 250 PSI IN SERVICE AREAS LESS THAN 150 PSI AND 300 PSI IN SERVICE AREAS GREATER THAN 150 PSI. 60 MINUTE TEST DURATION WITH NO MORE THAN 5 PSI DROP.
11. THE GRANULAR FORM METHOD OF DISINFECTION SHALL BE REQUIRED FOR ALL INSTALLED WATER MAINS. DISINFECTION SHALL MEET THE CURRENT EDITION OF THE AWWA SPECIFICATIONS.
12. SHORING AND SAFETY EQUIPMENT SHALL BE UTILIZED IN ACCORDANCE WITH OSHA AND WISHA REQUIREMENTS.
13. ALL CONNECTIONS TO THE EXISTING WATER INFRASTRUCTURE MUST BE SCHEDULED WITH THE DISTRICT AT LEAST 72 HOURS IN ADVANCE OF ACTUAL WORK. CONNECTIONS WILL NOT BE SCHEDULED UNTIL THE DISTRICT HAS APPROVED THE PRESSURE TEST(S) AND OBTAINED PASSING HEALTH SAMPLES.
14. ONLY DISTRICT PERSONNEL ARE ALLOWED TO OPERATE EXISTING WATER INFRASTRUCTURE.
15. APPROVED SUBMITTALS ARE REQUIRED PRIOR TO CONSTRUCTION.
16. VAULT HATCHES FOR LARGE VAULTS SHALL BE HINGED, SPRING ASSIST OPENING, RECESSED PADLOCK HASP, U-CHANNEL DRAINAGE FRAME, H20 RATED, ALUMINUM OR GALV STEEL, PLUMB FRAME DRAIN TO FLOOR DRAIN WITH PVC PIPE ROUTED NEATLY AND SECURELY.