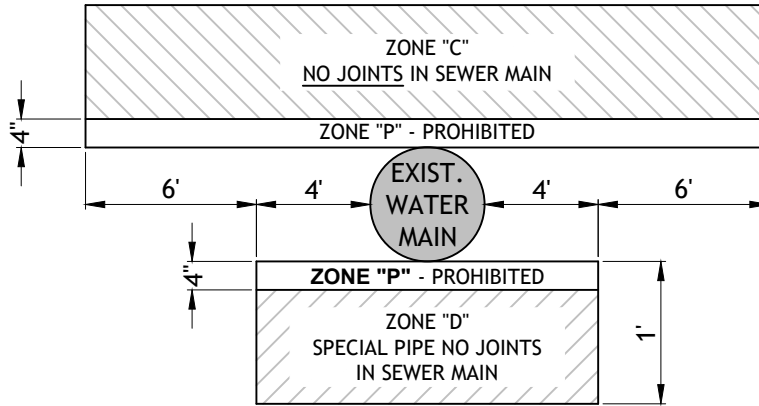
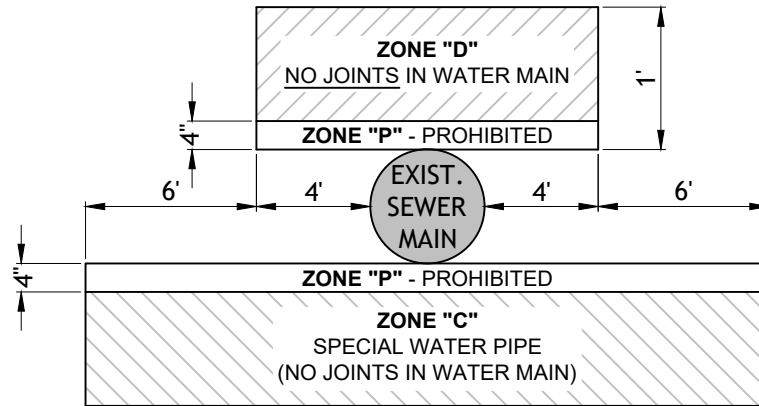


CASE 1 - NEW SEWER MAIN



CASE 2 - NEW WATER MAIN



SPECIAL CONSTRUCTION REQUIRED FOR NEW SANITARY SEWER MAIN: CASE 1

ZONE "C"

IF THE WATER MAIN CROSSING ABOVE THE SANITARY SEWER MAIN DOES NOT MEET THE CASE 2, ZONE "C" REQUIREMENTS, THE SANITARY SEWER MAIN SHOULD HAVE NO JOINTS IN ZONE "C" AND BE CONSTRUCTED OF ONE OF THE FOLLOWING:

1. HDPE PIPE WITH FUSION-WELDED JOINTS (PER AWWA C906-99);
2. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING AND MECHANICAL JOINTS (GASKETED, BOLTED JOINTS);
3. A CONTINUOUS SECTION OF CLASS 200 (DR 14 PER AWWA C900-97) PVC PIPE OR EQUIVALENT, CENTERED OVER THE PIPE CROSSED;
4. A CONTINUOUS SECTION OF REINFORCED CONCRETE PRESSURE PIPE (PER AWWA C302-95) CENTERED OVER THE PIPE BEING CROSSED; OR
5. ANY SANITARY SEWER MAIN WITHIN A CONTINUOUS SLEEVE.

ZONE "D"

IF THE WATER MAIN CROSSING BELOW THE SANITARY SEWER MAIN DOES NOT MEET THE REQUIREMENTS FOR CASE 2, ZONE "D" THE SANITARY SEWER MAIN SHOULD HAVE NO JOINTS WITHIN FOUR (4) FEET FROM EITHER SIDE OF THE WATER MAIN AND SHOULD BE CONSTRUCTED OF ONE OF THE FOLLOWING:

1. A CONTINUOUS SECTION OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING;
2. ONE OF ZONE "C" OPTIONS 1,3,4, OR 5 ABOVE.

SPECIAL CONSTRUCTION REQUIRED FOR NEW WATER MAIN: CASE 2

ZONE "C"

IF THE SANITARY SEWER MAIN CROSSING ABOVE THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE "C" REQUIREMENTS, THE WATER MAIN SHOULD HAVE NO JOINTS IN ZONE "C" AND BE CONSTRUCTED OF ONE OF THE FOLLOWING:

1. HDPE PIPE WITH FUSION WELDED JOINTS (PER AWWA C906-99);
2. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING;
3. DIPPED AND WRAPPED ONE-FOURTH INCH (1/4") THICK WELDED STEEL PIPE;
4. CLASS 200, TYPE II, ASBESTOS-CEMENT (A.C.) PRESSURE PIPE;
5. CLASS 200 PRESSURE RATED PVC WATER PIPE (DR 14 PER AWWA C900-97) OR EQUIVALENT; OR
6. REINFORCED CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE, PER AWWA (C300-97 OR C302-99 OR C303-95).

ZONE "D"

IF THE SANITARY SEWER MAIN CROSSING BELOW THE WATER MAIN DOES NOT MEET THE REQUIREMENTS FOR ZONE "D", CASE 1, THE WATER MAIN SHOULD HAVE NO JOINTS WITHIN FOUR (4) FEET FROM EITHER SIDE OF THE SANITARY SEWER MAIN AND SHOULD BE CONSTRUCTED AS FOR ZONE "C".

VERTICAL PROTECTION ZONES FOR SEWER AND WATER



EAST VALLEY WATER DISTRICT, ENGINEERING DEPARTMENT

APPROVED BY:

Jeff Noelte
 JEFF NOELTE, P.E. 67924
 DIRECTOR OF ENGINEERING & OPERATIONS

APRIL 2022
 REVISION

EVWD
 STD. DWG.
 W-107

SHEET 1 OF 1

REV: 3/29/2022
 J.WOLF
 M:\ENGINEERING - SECURED\STANDARDS\DWG\2022 UPDATE\WATER\W-107 VERT PROT ZONE FOR SEWER AND WATER.DWG