

## **PROCEDURE FOR SEWER AND/OR RECLAIMED CROSSINGS OF SAN DIEGO COUNTY WATER AUTHORITY PIPELINES**

Construction of all sewer and/or reclaimed water pipelines in proximity to Water Authority Aqueduct Pipelines shall meet the minimum separation criteria and will utilize materials as established by Waterworks Standards Title 22, chapter 16, section 64572. Projects that cannot meet the separation criteria shall propose an alternate design to the Water Authority in accordance with the requirements below. The proposed alternative will then be submitted to California's Division of Drinking Water(DDW) field operation branch for San Diego(District 14) for approval prior to the project moving forward.

### **Alternate gravity/force main sewer pipeline design shall utilize the following:**

- Piping material allowed for use shall include Class 200 PVC sewer pipe, ductile iron with hot dipped bituminous coating, or HDPE.
- Aqueduct piping should be crossed as close to perpendicular as possible.
- All portions of the sewer or reclaimed piping within the aqueduct easement must be enclosed in a continuous sleeve of fusion welded HDPE with spacers between the carrier and the sleeve pipe.
- In the event the Water Authority does not have easement or the easement is of insufficient width, the "no joint zone" shall provide not less than 10' of horizontal protection between the end of the sleeves and the outside walls of the aqueduct pipeline.
- The annular space between the carrier and sleeve pipe shall be backfilled with sand.
- Force main crossings must have isolation valves on each side of the crossing with proper air release and drain valves.
- Tracer wire shall be installed the length of the crossing with the ends being brought up to the surface and installed in valve cans or marker posts with junction boxes, one at each end of the crossing.

### **Alternate reclaimed water pipeline (4" or greater) design shall utilize the following:**

- Piping material allowed for use shall include Class 200 PVC pipe, ductile iron with hot dipped bituminous coating, or HDPE
- Piping and appurtenances shall be purple indicating a reclaimed water system Aqueduct piping should be crossed as close to perpendicular as possible



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- All portions of the sewer or reclaimed piping within the aqueduct easement must be enclosed in a continuous sleeve of fusion welded HDPE with spacers between the carrier and the sleeve pipe.
- In the event the Water Authority does not have easement or the easement is of insufficient width, the “no joint zone” shall not provide less than 10’ of horizontal protection between the end of the sleeves and the outside walls of the aqueduct pipeline.
- The annular space between the carrier and sleeve pipe shall be backfilled with sand
- Reclaimed water line crossings must have isolation valves on each side of the crossing with proper air release and drain valves.
- Tracer wire shall be installed the length of the crossing with the ends being brought up to the surface and installed in valve cans or marker posts with junction boxes, one at each end of the crossing.