

BASIC SEPARATION STANDARDS:

CASE 1. PARALLEL CONSTRUCTION

WHEN RECYCLED WATER MAINS ARE AT LEAST 5 FEET (MEASURED FROM EDGE OF PIPE-TO-EDGE OF PIPE) FROM POTABLE WATER AND/OR SANITARY SEWER MAINS OR STORM DRAINS, RECYCLED WATER MAIN CAN BE INSTALLED WITH STEEL PIPE (SP), DUCTILE IRON (DIP), AND PLASTIC PIPE (PVC) WITHOUT JOINT CONTROL. WHEN LOCATED NEAR A SEWER FORCE MAIN, RECYCLED WATER MAIN IS TO BE CONSTRUCTED MAINTAINING THE 10 FEET MINIMUM SEPARATION REQUIREMENT AND ONLY SP AND DIP ARE ACCEPTABLE MATERIALS (SEE PARALLEL DETAIL ON CITY STD DETAIL RW-2A).

CASE 2. CROSSING CONSTRUCTION

2A. (SEE CROSSING #1 DETAIL ON CITY STD DETAIL RW-2A) AT CROSSING WHERE RECYCLED WATER MAINS ARE TO BE CONSTRUCTED. MAINTAIN 1 FOOT MINIMUM VERTICAL CLEARANCE (MEASURED FROM EDGE-OF-PIPE TO EDGE-OF-PIPE) FROM ANY UNDERGROUND UTILITIES, INCLUDING POTABLE WATER LINES, SANITARY SEWERS, STORM DRAINS, GAS LINES, ELECTRICAL DUCTBANKS, ETC. WHEN RECYCLED WATER MAINS ARE 1 FOOT BELOW THE POTABLE WATER MAINS AND/OR 1 FOOT ABOVE THE SANITARY SEWER MAINS, THE PIPE JOINTS MUST BE LOCATED AT LEAST 5 FEET FROM THE EXISTING PIPE (MEASURED FROM CENTERLINE OF EXISTING PIPE TO THE JOINT). SP, DIP, AND PVC ARE ALL ACCEPTABLE PIPE MATERIALS.

2B. (SEE CROSSING #2 DETAIL ON CITY STD DETAIL RW-2A) WHEN CROSSING A SANITARY SEWER FORCE MAIN, THE RECYCLED WATER MAIN MUST BE LOCATED AT LEAST 1 FOOT ABOVE THE EXISTING FORCE MAIN. ONLY SP WITH DOUBLE WELDED JOINTS AND DIP WITH MECHANICALLY RESTRAINED JOINTS ARE ACCEPTABLE. RECYCLED WATER PIPE JOINTS MUST BE LOCATED AT LEAST 10 FEET FROM THE CENTERLINE OF EXISTING SANITARY SEWERS FORCE MAIN.

2C. (SEE CROSSING #3 DETAIL ON CITY STD DETAIL RW-2A) WHEN THE RECYCLED WATER MAINS ARE 1 FEET ABOVE THE POTABLE WATER LINES AND/OR 1 FOOT BELOW THE SANITARY SEWER MAINS, SP SHALL BE CONSTRUCTED WITH DOUBLE WELDED JOINTS, DIP USED SHALL HAVE MECHANICAL RESTRAINED JOINTS. BOTH SP AND DIP JOINTS MUST BE LOCATED AT LEAST 10 FEET FROM THE CENTERLINE OF EXISTING SANITARY SEWERS AND/OR EXISTING WATER LINES. IF PVC IS USED FOR RECYCLED WATER PIPELINE AT CROSSING, IN ADDITION TO THE JOINT THRUST RESTRAINT DEVICES, A CONTINUOUS SLEEVE FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF CROSSING SHALL BE INSTALLED.

GENERAL NOTES

1. ALL SP USED FOR PIPING SHALL MEET A MINIMUM INTERNAL PRESSURE OF 200 PSI. NO MINIMUM PIPE WALL THICKNESS REQUIRED. (PIPE WALL THICKNESS SHALL BE CHOSEN BASED ON THE INTERNAL PRESSURES AND EXTERNAL LOADS EXERTED ON THE PIPE, THE MOST CONSERVATIVE DESIGN FOR PIPE WALL THICKNESS MUST BE SPECIFIED).
2. DIP USED FOR PIPING, THE STANDARD PIPE WALL THICKNESS SHALL BE DETERMINED BY THE STANDARD PIPELINE DESIGN, THERE IS NO MINIMUM INTERNAL PRESSURE REQUIREMENT.
3. PVC USED FOR PIPING, A DIMENSION RATIO (DR) OF 14 AND PRESSURE CLASS OF 200 MUST BE SPECIFIED. ALSO REFER TO AWWA C900 REQUIREMENTS.
4. PROPER CORROSION PROTECTION TO PIPELINES IS REQUIRED WHICH INCLUDES BUT IS NOT LIMITED TO OUTSIDE COATING, INSIDE LINING, DIELECTRIC TREATMENT, AND OTHER CATHODIC PROTECTION.
5. ANY EXCEPTIONS TO THE REQUIREMENTS OF THIS DETAIL REQUIRE A SPECIAL REVIEW AND APPROVAL SHALL BE GRANTED BY THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH.

**RECYCLED WATER
SEPARATION REQUIREMENTS - 2**



[Signature]
APPROVED BY:

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REVISED : -

DWG.

RW-2B