

## REVISIONS

Users of DSRSD's Standard Procedures, Specifications and Drawings and Approved Materials List shall be responsible for confirming they are using the most recent versions. To confirm the most recent versions of the Standard Procedures, Specifications and Drawings and Approved Materials List, please visit [www.dsrds.com](http://www.dsrds.com), or contact the DSRSD Engineering Department at (925) 828-0515 (press 2 for Departments and then 1 to reach Engineering).

Previous revisions can be found at [www.dsrds.com](http://www.dsrds.com). Revisions shown in this section are for the most recent version of this document.

Section or Drawing Reference	DESCRIPTION
I-A2 Definitions	Added definition for "As-Built"
I-B6. Project Approval Process	Added under item #1, "Cathodic Protection Plan, Plumbing Plan, Landscape Irrigation Plan." Added under item #2, "Construction Phasing Schedule and Corrosive Soils Analysis."
I-B6-1 Improvement Plans	Replaced #11, "In addition" with "Upon request,"
I-B9-1 Record Drawings and As-builts	Defined As-built requirements and updated type of record drawing submittal
I-C3-1 Other Pipes and Structures	Added, "Water mains, sewer mains and related appurtenances shall not be placed through traffic circles but will be constructed around the outside of the landscaping within traffic circles."
II-A1-6 Potable Water Main Pressures	Added, "Minimum Pressure – Normal Operating Conditions shall meet the Water Master Plan at an Average Day Demand of fifty (50) psi at customer service connection and Maximum Day Demand and Peak Hour Demand at forty (40) psi at customer service connection."
II-A1-8 Service Connections and Water Meters	Clarify water service size for single family homes.
II-A5 Horizontal and Vertical Curves	Removed, "by pulling the joints"
II-A7. Hydrant Placement	Added, "Intersection curves and sidewalk bump outs," for minimum distance away for a hydrant to a roadway curve.
II-A9 Blowoffs and II-B2-6 Blowoffs	Removal of reference to low point blow offs.
II-A10. BACKFLOW PREVENTION	Added, "All backflow prevention devices shall be lead-free."
II-A11. Connections to Existing Potable Mains	Removed, "Wet tapping shall be made with a tapping sleeve when the branch is greater than two (2) inches." And moved the dry tap reference higher in the section.
II-A12 Fire Lines	Updated the first paragraph second sentence to, "The detector meter shall be supplied with a radio read Sensus meter. The meter interface units shall be touch read meters for the AMI system using encoded registers"
II-A13 Combined Domestic and Fire Sprinkler Services	Removed, "1/2 inch" from fourth sentence.

II-B1-2.07 Tracer Wire, Warning Tape, and Electronic Marker	Added, "Electronic Marker shall be an Omni Marker II Electronic Marker or equal and installed per the manufacturer specification. Installation shall be coordinated with the DSRSD Inspector."
II-B1-2.08 Service Taps and Connections	Added, "lead" to the second paragraph.
II-B2-5.02 Position of Nozzles	Clarified angle of pumper nozzle to be perpendicular to the curb.
II-B2-8. Tracer Wire, Warning Tape, and Electronic Markers	Added, "Electronic Markers shall be placed at any horizontal or vertical bends on the pipe."
II-B3-2. Testing	Changed, "allowable leakage" to "make-up water."
II-B3-2.01 PVC Plastic Pipe Makeup Water and Pressure Test	Added reference to AWWA C605, adjusted the test duration from six to four hours and changed "leakage" to "makeup water".
II-B3-2.02 Ductile Iron Pipe Pressure Test	Added reference to AWWA C600, adjusted the test duration from six to four hours and changed, "leakage" to "makeup water". Updated the table to Table 5A from AWWA C600.
II-B3-2.05. Disinfection	Changed "leakage" to "make up water" and added, "If a pipeline is not promptly returned to service, the situation should be evaluated to determine if the water quality may have been impacted and if additional testing is warranted. Test results should confirm that the water quality is appropriate for distribution. Although this assessment is unique for each system, parameters considered for testing include disinfectant residual, total coliform bacteria, HPC, turbidity, pH, alkalinity, total chlorine, odor, and specific conductance."
II-B3-2.05.01 Method of Disinfection	Added, "AWWA C651 Section 4.3 Tablet/Granule Method of Chlorination is not allowed on District mains" and "Appendix D – Disinfection Plan shall be submitted for approval to DSRSD. "
III-A2-2. Building and Other Above-ground Structure Set Back from Mains	Added, "(including curb and gutter)"
III-A4. Horizontal and Vertical Curves	Removed the last four sentences regarding pipe curvature.
III-A5-3. Slope of Manhole Channels	Removed, "In sewers that change slope, the slope of the incoming sewer(s) shall be carried through to the outlet and the invert elevations at the inlet(s) and the outlet shall be given. "
III-A7-3. Location	Removed, "of hillside lots (3 percent + slope) or.... In relatively level terrain". And added "a minimum of ten (10) feet from the inside property corner..."
III-A7-4 Connection Angle and Maximum Deflection	Second paragraph removed. "The maximum deflection at any one point in a side sewer, not including fittings at saddle or wye connection to main sewer or at angle points having cleanouts, shall be twenty-two and one-half degrees (22-1/2) (1/8 bend) and any two (2) consecutive deflections (bends) shall not be less than two (2) feet apart. "
III-B2-4.01 Deep Lateral Sewers	Removed "Long radius ninety (90) degree elbows" and replaced with "Two forty-five (45) degree fittings separated by a minimum of 24-inches"

III-B3-8. Television Inspection	Added, "TV inspection operators are to be Pipeline Assessment Certification Program (PACP) – certified by National Association of Sewer Service Companies (NASSCO)."
V-B2. New Water Mains and Extensions	Corrected reference to section 1-2.05 and changed it to V-B4.
Approved Materials List: Meter Equipment	Section removed.
Approved Materials List: Hydrants	Added, "Clow Model 950 for residential" and clarified, "Clow Model 960 for commercial"
Approved Materials List: Note under Water Meter Box Schedule	Added, "The checker plate lids shall be treated with a non-slip coating that is durable and resistant to the elements."
Approved Materials List: Hardware/Gaskets/Miscellaneous - Electronic Markers	Added, "Omni Marker II Electronic Marker"
Approved Materials List: Hardware/Gaskets/Miscellaneous - Outdoor Plumbing Schematic Flow Restrictor	Added, "Flo-Trol Model CDX 1" 10 gpm"
Approved Materials List: Hydrant Paint	Updated: For potable water system (Yellow): Federal Government 595 Paint Color - Yellow 13655 and UV protected For recycled water system (Purple): Purple Rust Preventative Enamel and UV protected
Approved materials list: Manhole Frame and Covers	Phoenix Iron Works P1090 no longer manufactured and removed from the list.
Standard Drawings S-07	Added graphical clarification to match S-2, added note that mortar is to be commercial strength non-shrink grout.
Standard Drawings S-10	Removed reference to cast iron cleanout.
Standard Drawings S-12A	Replaced grease and sand trash for trash enclosure with Trash Enclosure Detail.
Standard Drawings W-07 and W-08	Add notes #5 Tracer wire tie into the water main tracer wire using a split bolt connector #6 Warning tape (3") shall follow the service lines
Standard Drawings W-19	Updated graphic with meter outline. Added note #11 Meters to be installed by DSRSD only.
Standard Drawings W-21 and W-23	Added notes #9 Concrete Pads shall be formed to nearest curb or sidewalk elevation with a fine broom finish. #10 Inlet and outlet pipe risers shall be wrapped with 10 mil PVC tape or foam closet flange wrap within concrete pad.
Standard Drawings W-22	Added notes #7 Concrete Pads shall be formed to nearest curb or sidewalk elevation with a fine broom finish #8 Inlet and outlet pipe risers shall be wrapped with 10 mil PVC tape or foam closet flange wrap within concrete pad.

Standard Drawings W-23A	Added notes #11 Concrete Pads shall be formed to nearest curb or sidewalk elevation with a fine broom finish #12 Inlet and outlet pipe risers shall be wrapped with 10 mil PVC tape or foam closet flange wrap within concrete pad.
Standard Drawings W-24D	New drawing for 2" Water service with two 1" meter manifold.
Standard Drawings W-33	Specifies a 10 gpm flow restrictor.
Standard Drawings CP-24	Removed this detail is no longer in use.