



5.0 DESIGN & PERFORMANCE PROVISIONS

This section of the SSMP discusses the District’s design and construction standards. This section fulfills the Design and Construction Standard SSMP requirement for the RWQCB (Element 7) and the Design and Performance Provisions SSMP requirement for the SWRCB (Element 5).

5.1 Regulatory Requirements and Plan for Design & Construction Standards Element

The requirements and District’s plan for the Design and Construction elements of the SSMP are summarized below.

5.2 Installation, Rehabilitation and Repair

5.2.1 RWQCB Requirement

The District must demonstrate that minimum design and construction standards and specifications are in place for the installation of new sewer systems and for the rehabilitation and repair of existing sewer systems.

5.2.2 SWRCB Requirement

The District must have design and construction standards and specifications for the installation of new sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sewer systems.

5.3.3 Installation, Rehabilitation and Repair

The design and installation of sanitary sewer collection and conveyance facilities for the District are governed by the WBSD Standard Specifications for the Design and Construction of Sanitary Sewer Collection and Conveyance Facilities document, which is included in Appendix 5A.

Part A - General Information: This section includes a general description of the intent and purpose of the District’s Standard Specifications, a brief description of the District’s Collection System Sustainability Plan, and definitions of terms used within the document.

Part B – Design Standards: This section describes standards to be used in the design of all sewerage facilities for the District.

- Section B1 covers the general design requirements and design criteria applicable to the sewerage system as a whole.
- Section B2 covers basic design criteria and standards relating to gravity sewers, force mains, and pressure systems.



Part C – Construction Standards: This section, written in the form of typical specifications, covers the District’s construction standards. These standards must be followed in any work constructed for the District’s acceptance, and may be included by reference in construction contracts.

- Section C1: Special Conditions and Construction Requirements
- Section C2: Earthwork
- Section C3: Concrete Work
- Section C4: Metalwork
- Section C5: Pipelines and Sewers
- Section C6: Painting
- Section C7: Resurfacing
- Section C8: Sewer Line Cleaning
- Section C9: Smoke Testing
- Section C10: Sewer Flow Control
- Section C11: Television Inspection
- Section C12: Pressure Systems

Part D – Standard Drawings: This section consists of standard drawings and details which must be followed where applicable, in any work done for the District’s acceptance.

5.3 Inspection and Testing of New and Rehabilitated Facilities

5.3.1 RWQCB Requirement

The District must demonstrate that procedures and standards are in place for the inspection and testing of new sewers, pump stations, and other appurtenances, as well as for rehabilitation and repair projects.

5.3.2 SWRCB Requirement

The District must have procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

5.3.3 Inspection and Testing of New and Rehabilitated Facilities

As described in Section 5 of this SSMP, Section 403. Inspection of Construction, of the District’s Code requires inspection and testing of new and rehabilitated facilities. Section 403 reads, in pertinent part, “After approval of the plans by the District Board, actual construction may be started and all work shall be performed under the inspection of, and in accordance with the standard specifications of the District. All work shall be inspected by the District when construction is completed but before use is made of the facilities constructed.”



In addition, Section 707. Wastewater Discharge Permits (08 Inspection and Sampling) of the District’s Code authorizes further inspection under required permits, as follows, “The District Manager is hereby authorized to inspect the premises at all reasonable times to ascertain whether the provisions of this Code or the provisions of any permit issued pursuant to this Code are being complied with.”

These requirements are repeated in the District’s Standard Specifications for the Design and Construction of Sanitary Sewer Collection and Conveyance Facilities that are included in Appendix 5A.

5.4 Element 5, Appendix 5A & 5B

Supporting information for Element 5 is included in Appendix 5A & 5B. These appendices include the following documents:

WBSD Standard Specifications for the Design and Construction of Sanitary Sewer Collection and Conveyance Facilities (June 2015) Appendix 5A

WBSD Standard Details (June 2015) Appendix 5B