

WATER AGENCIES' STANDARDS

Design Guidelines for Water and Sewer Facilities

SECTION 3.1 AGENCY CAPITAL IMPROVEMENT PROJECTS

3.1.1 PURPOSE

The purpose of this section is to provide an overview and general information regarding Agency Capital Projects.

3.1.2 GUIDELINE

Capital projects are those that construct, repair, maintain or replace Agency facilities, which have a regional benefit and either totally or partially funded by the Agency. In some cases, a Developer project may include agreements for payment (Reimbursement Agreement), worked out between the Developer and the Agency, for the construction of one or more capital projects.

Design of capital projects as well as preparation of project plans and contract documents are either performed in-house, by a Agency approved Design Consultant, or a combination thereof.

3.1.3 STANDARD TERMS AND DEFINITIONS

Wherever technical terms or pronouns occur in these guidelines or in related documents, the intent and meaning shall be interpreted as described in Standard Terms and Definitions.

3.1.4 DEVELOPMENT OF CAPITAL PROJECTS

Capital projects are identified from master plans, maintenance and rehabilitation needs, regulatory action, city and county facility conflicts and public response. Capital projects include, but are not limited to the following types of projects:

- A. Distribution, Transmission and Collection Systems for potable water, recycled water, raw water or sewer:
 - 1. Metallic mains
 - 2. Pump Stations
 - 3. Storage Reservoirs
 - a. Seismic analysis and retrofit
 - b. Maintenance and rehabilitation
 - c. Corrosion protection
 - d. Coatings
 - 4. Pressure Reducing Stations

- 5. Large Meters
- 6. Structures
- B. Treatment Plants
- C. Pavement Maintenance and Rehabilitation
- D. Corrosion protection
- E. Fencing and Security Systems

After a capital project is identified and prioritized, staff will proceed with a feasibility study, design and construction. Staff will usually present the design or study to the agencies Governing Board for its review and approval.

3.1.5 APPROVAL PROCESS

Each agency has capital projects approved on an annual basis by its Governing Board. Each year, staff will develop a capital project request that describes need, scope and estimated cost. Each agency has its own constraints and policies for available funding and approval process.

3.1.6 DESIGN AND CONSTRUCTION OF CAPITAL PROJECTS

Design and construction of capital projects can either be performed by staff or require the services of an outside consultant or contractor. Use of consultants or contractors will follow the policies for consultant and contractor selection as established by each agency. Consultants and contractors are directed to use the Water Agencies' Standards Design Guidelines (WASDG) and the agencies respective policies regarding the design of capital projects.

It is the responsibility of the user of these documents to make reference to and/or utilize industry standards not otherwise directly referenced within this document. The Engineer of Work may not deviate from the criteria presented without prior written approval of the Agency's Engineer.

3.1.7 REFERENCE

- A. Should the reader have any suggestions or questions concerning the material in this section, contact one of the member agencies listed.
- B. The publications listed below form a part of this section to the extent referenced and are referred to in the text by the basic designation only. Reference shall be made to the latest edition of said publications unless otherwise called for. The following list of publications, as directly referenced within the body of this document, has been provided for the users convenience. It is the responsibility of the user of these documents to make reference to and/or utilize industry standards not otherwise directly referenced within this document.

END OF SECTION