
CHAPTER 1 - INTRODUCTION

1.1 PURPOSE OF DESIGN STANDARDS MANUAL

The purpose of this design standards document/manual is to provide guidelines and minimum design criteria for the design of wastewater systems in the City of Rio Rancho either as part of Capital Improvement Program projects or as private development projects that will construct and dedicated systems to the City. It is the intent of the City of Rio Rancho Department of Public Infrastructure to adhere to all applicable Federal, State, and local regulations and guidelines for wastewater systems design.

The design manual applies to existing systems that are being expanded, modified, upgraded, and/or rehabilitated. Additionally, the manual applies to the construction of all new facilities. It should be noted that this document is not intended to be used as a replacement to construction specifications. It is the design criteria for engineers, developers, etc., to use when designing water and wastewater infrastructure with the City of Rio Rancho.

All units of measurement used in this manual are U.S. customary standard units unless otherwise noted.

1.2 AUTHORITY

The design standards set forth in this manual are promulgated by the City Engineer or designee of the City of Rio Rancho pursuant to the authority granted to him/her in the City of Rio Rancho Code of Ordinances Title V: Public Works, Chapter 51 - Water and Wastewater Rules and Rates, Section 51.24 - Main Extension Policy, Including Subdivisions.

The administration of these standards including interpretation, enforcement, revision, waiver, and variance is hereby delegated to the City Engineer or designee or an appointed representative.

Standards included in this manual do not supersede applicable Federal and State requirements. In addition, these standards shall meet the requirements of all local and regional authorities such as the Southern Sandoval County Arroyo and Flood Control Authority (SSCAFCA).

1.3 EFFECTIVE DATE OF STANDARDS

These standards shall be effective immediately upon the City Engineer or designee's signature and shall supersede all former applicable engineering standards for utilities design and construction.

1.4 REVISIONS

These standards may be revised, amended, or added to periodically. Such revisions, amendments, and additions shall be binding and effective when published.

1.5 CITY OF RIO RANCHO DEPARTMENT OF PUBLIC INFRASTRUCTURE CONTROL

These standards shall apply to the design, installation, operation, and maintenance of all water and wastewater facilities under the control of the City of Rio Rancho Department of Public Infrastructure. Such control shall be exercised in accordance with all applicable ordinances of the City of Rio Rancho.

Adherence to these standards is required by any person, including any owner, operator, or agent of an owner or operator of any wastewater facility in regard to any wastewater system related improvements. Variation or deviation from the standards herein is not allowed without permission of the City Engineer or designee. All water and wastewater system construction (including connections, disconnections, repairs, new waterline and sewer line construction, or other such work) to the water and wastewater system operated by the City of Rio Rancho Department of Public Infrastructure, in direct violation of any standards herein is subject to the enforcement of corrective action.

1.6 ORGANIZATION AND INTERPRETATION OF MANUAL

The standards in this manual are composed of the following:

- Written engineering standards,
- References to established standards of other organizations and agencies, and
- Standard details of the Department of Public Infrastructure.

The City Engineer or designee, whose interpretation shall be binding and controlling in its application, shall make the interpretation of any section or of differences between sections.

1.7 DEFINITIONS

Definitions of terms used in this manual can be found in Appendix A.

1.8 ABBREVIATIONS

Abbreviations used in this manual can be found in Appendix B.

1.9 STANDARD SPECIFICATIONS AND DETAILS

The standard specifications and standard details relating to water and wastewater systems that are referenced in this manual include the following:

- A. New Mexico Standard Specifications and Details for Public Works Construction sponsored and distributed by the New Mexico Chapter – American Public Works Association (NMAPWA) Specifications Committee. These specifications and details are herein referred to as NMAPWA Specifications and Details. These specifications and details are revised and updated periodically and are available through the New Mexico Chapter of APWA.

- B. City of Rio Rancho Supplements to New Mexico Standard Specifications and Details for Public Works Construction. These specifications and details are herein referred to as Supplemental Details or Supplemental Standards. These specifications and details are updated and revised periodically and are available through the Department of Public Infrastructure.

- C. Uniform Standard Details and Drawings developed by the City of Rio Rancho Department of Public Infrastructure. These details and drawings are herein referred to as Standard Details and Standard Drawings. All Standard Drawings are included in Appendix C.

- D. American Water Works Association (AWWA) Standards sponsored and distributed by the AWWA Standards Committee. These standards are intended to represent a consensus of the water industry that the product described will provide satisfactory service. These standards are updated and revised periodically and are available through AWWA.

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- E. American National Standards Institute (ANSI) Standards sponsored and distributed by the ANSI Technical Committees. These standards are intended to serve as a guide to aid the manufacturer, the consumer, and the general public in the use of various products, processes, and/or procedures. These standards are updated and revised periodically and are available through ANSI.

 - F. American Society for Testing and Materials (ASTM) Standards sponsored and distributed by the ASTM Technical Committees. These standards are intended to provide a forum for producers, users, ultimate consumers, and those having a general interest to meet on common ground and write standards for materials, products, systems, and services. These standards are updated and revised periodically and are available through ASTM.

 - G. Code of Federal Regulations, 40 C.F.R. – Protection of Environment. The Code of Federal Regulations is a codification of the general and permanent rules published in the Federal Register by the Executive departments and agencies of the Federal Government.

 - H. All other related standard specifications and details that are applicable but not listed here.

1.10 GENERAL NOTES

The Water and Waste Water General Notes can be found on the City's General Notes sheet located on the website at:

<http://www.ci.rio-rancho.nm.us/index.asp?nid=539>

1.11 STANDARD PRODUCTS LIST

An approved standard products list for water and wastewater facility system components can be found in Appendix D.

1.12 AVAILABILITY STATEMENT PROCESS

Availability statements shall be obtained in accordance with the Utilities Commission Policy Statement, “Guidelines for Issuing Water & Wastewater Letters of Availability.” A copy of this document and a copy of the water and wastewater service availability information request form are included in Appendix E.