

Chapter 7: STANDARD DESIGN & CONSTRUCTION

STANDARDS

Introduction

The city requests an exception to WAC 214-290-110 and WAC 246-290-120 for new distribution system mains. The City agrees to maintain files for each exempt project including a construction completion report.

Water Division staff routinely install valves, hydrants, fittings, meters, and backflow prevention assemblies in addition to making repairs and minor pipeline replacements. They also may install short sections of piping to complete system looping as identified in the WSP.

For larger City sponsored projects, the City retains the services of an Engineering Consultant to design, inspect and provide a construction completion report. The City requires a developer to retain a professional engineer to design, inspection construction, and submit a construction completion report for projects related to the proposed development. Water Division staff oversees connection and disinfection and sampling process for contractor built facilities.

All projects must comply with applicable City Codes and Standard Design and Construction Standards Table 7-1 provides a summary of the City’s repair, replacement and construction procedures.

Table 7-1 City Constructions Procedures

| Requirement | City Staff Project | City Bid Project | Developer Project |
|--|-----------------------|---------------------|----------------------|
| City Standards | ✓ | ✓ | ✓ |
| Specifically Identified in WSP | ✓ | ✓ | |
| PE Design | | ✓ | ✓ |
| Construction Inspection | | ✓ | ✓ |
| As-build drawings | ✓ | ✓ | ✓ |
| Construction Completion Report (PE) | | ✓ | ✓ |

The City’s design standards are presented in Section 3 and were used to evaluate the system. The City has adopted standard specifications and drawings for roadways, sanitary sewer, storm water and water. The sections applying to water are presented in Appendix 10.

The City is initiating a process to review and upgrade all of the City standards including those pertaining to the water system. This project is scheduled to be completed in 2017.