4.0 Inspections

All water main and water appurtenance construction activities shall be subject to inspection by PWD and shall be left uncovered until approved by the PWD Inspector. The Contractor shall not proceed with any subsequent phase of work until the previous phase has been inspected and approved by PWD.

The contract shall notify the PWD Inspector at least four (4) working days before construction begins and 24 hours prior to any work through the duration of the project.

4.1 Water System Inspections - General

Inspection and approval shall be obtained during and/or at the completion of the following portions of work, as determined by PWD:

A. Inspection of material
B. Trench excavation and pipe bedding installation
C. Hot tap
D. Placing pipe, fittings, and structures, including identification tap on non-domestic water main, service lines, and thrust blocks
E. Placing of all concrete anchors, thrust blows, and restrained joints
F. Placing and compacting the pipe zone backfill
G. Backfilling balance of trench to grade. Compaction test to be performed by private soils consultant retained by contractor and approved by PWD. Copies of test results shall be given to PWD by contractor for approval before final acceptance of work
H. Pressure testing of all mains and services
I. Disinfecting, sampling, and flushing of pipelines
J. Repaving trench cuts
K. Raising valve box covers to finished grade
L. Installation of service lines, meter boxes, water meters, and backflow prevention devices.

4.2 PWD Staff Authority

PWD Engineering Staff shall have access to the work at all times during construction and shall be furnished with every reasonable facility for ascertaining full knowledge of the progress, workmanship, and character of materials used and employed in the work. No pipe, fittings, or other material shall be installed or backfilled until inspected and approved by the PWD Inspector. The contractor shall give due notice in advance of backfilling to the PWD Inspector so that proper inspection may be provided.

Inspection of the work shall not relieve the contractor of any obligations to complete the work as prescribed by PWD Standards. Any defective work shall be corrected before testing or final

inspection. Unsuitable materials may be rejected even if these materials have been previously overlooked by the PWD Inspector.

The PWD Inspector shall have the authority to suspend the work completely or in part for such time as it may deem necessary if the contractor fails to provide a safe work zone, carry out inspections given by the PWD Inspector, or to perform any required provisions of the plans and specifications. The contractor shall immediately comply with a written order from the PWD Inspector to suspend the work completely or in part. The work shall resume when improper methods or defective work are corrected as ordered and approved in writing by the PWD Inspector.

4.3 Water Service Prior to Acceptance

New water facilities installed in phased tract developments (more than one phase) will not be accepted and approved for operation until each phase of the development's water system is properly looped and approved for operation by the PWD Inspector. Subsequent phases of the water system cannot be started for construction until the above conditions are met.

PWD may approve putting newly installed water facilities into service after compaction has been approved by the PWD Inspector and the portions have been pressure tested, flushed, and potable water mains have passed the bacteriological tests. This partial acceptance shall be granted only upon written request from the developer and subsequent approval by PWD. Upon this written approval for partial acceptance of facilities, the developer shall be relieved of the duty to maintain the portions so used or placed into operation provided; however, that nothing in this section shall be construed as relieving the developer of full responsibility for completing the work in its entirety, for making good of any defective work and materials, for protecting the work from damage, and for being responsible for damage and for work as set forth in the Agreement, and other contractual documents; nor shall such action by PWD be deemed completion and acceptance, and such action shall not relieve the developer of the guarantee provisions of the Agreement with PWD.

4.4 Final Water Facilities Inspection

Before final acceptance, the PWD Inspector will make a final inspection of all work, accompanied by the contractor's superintendent or foreman, to verify that:

A. All phases of the job are complete in accordance with plans and specifications.
B. Valve boxes are raised to finish grade and that all repairs are complete
C. Service lateral locations have been marked on curbs and the PWD Inspector has been given all reference measurements
D. Right-angle meter stops, meters, and customer service valves are properly positioned, and meter boxes are positioned and raised to proper grade and meters installed

E. Backflow devices have been inspected and tested
F. Fire hydrants are raised to proper grade, are in a vertical position, painted, and concrete pads are properly installed
G. Backfill has passed all compaction testing
H. System valves are turned and left open (except those specifically required to be normally closed), turns required for complete open/close cycle are recorded on the as-built drawings
I. Domestic water lines have been chlorinated, bacteriologically sampled, pressure tested and flushing have been completed

4.5 Interpretation of Specifications and Standard Drawings

Figure dimensions of the drawings shall govern but work not dimensioned shall be directed in this section. Work not particularly shown or specified shall be the same as similar parts that are shown or specified or as directed. Full size details shall take precedence over scale drawings as to shape and details of construction. Specifications shall govern as to material. Scale drawings, full-size details, and specification are intended to be fully cooperative and to agree; but should any discrepancy or apparent difference occur between the plans and specifications or should errors occur in project being constructed by others affecting the work, and the contractor proceeds with the work affected without instruction from PWD, the contractor shall be fully responsible for any resultant damage, defect, and replacement of facilities affected. The contractor is advised to report any discrepancy between plans and specifications to the PWD Inspector.

4.6 Release Given to Public Works Department

After final inspection requirements have been fulfilled, PWD will work with the City of Palmdale to facilitate the release of the developer's bonds for water improvement. A single unit of the development, to be agreed upon by the developer and the PWD Inspector, shall be held and not released for occupancy until all items on the punch list for final acceptance have been completed to the satisfaction of the PWD Inspector.