WATER MAIN

MATERIALS

Water main and fittings shall be cement-mortar lined and bituminous coated. Pipe shall be ductile iron, class 53 (minimum), AWWA C151, push-on or mechanical joint. Restrained or flanged joints may be required for specific applications.

Fittings shall be ductile iron AWWA C153 compact fittings three (3) inch through sixteen (16) inch.

Joints shall be push on or mechanical joints, AWWA C110 and AWWA C111. If required, flanged joints shall be AWWA C110 and AWWA C115.

Restrained joints shall be positively restrained, push-on type joint that allows for deflection following assembly, US Pipe "TR Flex", Field Lok Gasket, or approved equal.

Cement mortar lining shall comply with AWWA C104.

Polyethylene encasement, when required by the Water Works Superintendent, shall comply with AWWA C105 (8 mil).

INSTALLATION

Water mains and appurtenances shall be installed in accordance with AWWA C 600 "Installation of Ductile Iron Water Mains and Appurtenances."

Minimum cover over water mains shall be four (4) feet.

The bedding and backfill around the pipe shall consist of gravel crushed stone, or sand meeting the requirements of O.D.O.T. 310, Grading A.

There shall be a minimum six (6) inches bedding below the water mains, a minimum of twelve (12) inches backfill above the mains, and a minimum of twelve (12) inches backfill between the pipe and the sides

Granular backfill meeting the specifications above is required for all trenches excavated within the street right-of-way.