

SECTION 02475 - POTABLE WATER FITTING MATERIALS

(Follow all instructions. If there are no instructions above a subsection, paragraph, sentence, or bullet, then include them in the project. The specifications may be modified to include project specific specifications, but all additions, deletions, or modifications must be sent to the ODOT Technical Resource and Senior Specifications Engineer for review and approval.)

Comply with Section 02475 of the Standard Specifications modified as follows:

02475.00 Scope - Replace this subsection, except for the subsection number and title, with the following:

This Section includes the requirements for fittings, restrained joints, and couplings for ductile iron pipe, high density polyethylene (HDPE) pipe, and polyvinyl chloride (PVC) pipe for potable water systems.

02475.10 General - Replace the paragraph that begins "All materials in contact..." with the following paragraph:

All materials in contact with potable water shall conform to ANSI/NSF Standard 61, Drinking Water System Components - Health Effects or equivalent, and ANSI/NSF Standard 372, Drinking Water System Components - Lead Content.

(Use the following subsection .20 when ductile iron pipe fittings are required.)

02475.20 Ductile Iron Pipe Fittings - Replace the sentence that begins "Gaskets for flat faced or raised..." with the following two sentences:

Provide gaskets for ductile iron flanged joints that are composed of synthetic rubber, full faced, 1/8 inch thick, and conform to ANSI/AWWA C111/A21.1. Ring gaskets will be permitted only where specified or shown.

02475.30 Fittings for Steel Pipe 6 Inches and Larger - Delete this subsection.

(Use the following lead-in paragraph and subsection .31 when HDPE pipe fittings are required.)

Add the following subsection:

02475.31 High Density Polyethylene (HDPE) Pipe Fittings - Use HDPE pipe fittings meeting the requirements of ANSI/AWWA C906, Standard Code Designation of PE3408. Furnish all pipe fittings with a minimum dimension ratio (DR) of 17. Join pipe and fittings using a thermal butt fusion method that meets the requirements of ASTM D 3261. Fittings shall be of the same class as the HDPE pipe.

02475.35 Fittings for Steel Pipe Under 6 Inches - Delete this subsection.

(Use the following subsection .50 when restrained joints are required.)

02475.50 Restrained Joints - Replace the sentence that begins "Design the restraint system..." with the following sentence:

Design the restraint system to operate at a working pressure that is greater than the hydrostatic test pressure identified in 01140.51(a), unless otherwise shown.

(Use the following subsection .60 when bolted, sleeve-type couplings for plain-end pipe are required.)

02475.60 Bolted, Sleeve-Type Couplings for Plain-End Pipe - Replace this subsection, except for the subsection number and title, with the following:

Bolted, sleeve type couplings, reducing or transition couplings, and flanged coupling adapters used to join plain end pipe shall meet the requirements of AWWA C219. Buried couplings used for connecting ductile iron, gray cast iron, or PVC pipe shall be ductile iron.