

05-20

**SPECIFICATIONS FOR PRESTRESSED CONCRETE PRESSURE PIPE**

**STEEL CYLINDER TYPE**

**REVISED DECEMBER 2011**

1. **SCOPE**

This specification covers prestressed reinforced-concrete water pipe with a steel cylinder and wire reinforcement in sizes 20 inches and larger.

2. **GENERAL REQUIREMENTS**

- a) Except as otherwise modified or supplemented herein AWWA Standard C301, "Prestressed Concrete Pressure Pipe - Steel Cylinder Type, for Water and Other Liquids" shall govern the design, component materials, manufacture, and testing of all concrete-steel cylinder pipe furnished under this specification.
- b) Unless otherwise specified, all pipe shall be AWWA Class 150 and shall be designed for an internal working pressure of 150 psi and a minimum external load equivalent to 6 feet of earth cover. Where the depth of bury of the pipe is indicated to be greater than 6 feet in the contract specifications or on the drawings the design of the pipe shall be suitable for the earth loads indicated.
- c) All data submitted by the contractor shall include a tabulated lay-out schedule with reference to the stationing and grade lines shown on the job plans. A design summary for each size of pipe furnished shall be provided for each pressure and depth of bury.
- d) Each special and length of straight pipe shall have plainly marked on the inside of the bell end the class of pipe and identification marks sufficient to show the proper location of the pipe by reference to layout drawings.
- e) Pipe 20 inches through 42 inches in size shall be furnished in nominal lengths of 20 to 32 feet; pipe 48 inches through 72 inches in size shall be furnished in nominal lengths of 16 feet except as this requirement shall be modified by design requirements of the particular job.
- f) Each joint of pipe shall be furnished with a rubber gasket and a 12" diaper.