

SECTION 026204
POLYVINYL CHLORIDE PIPE
(ASTM D 2241 Pressure Pipe for Wastewater Force Mains,
Irrigation Systems and Water Transmission Lines)

1. DESCRIPTION

This specification shall govern all work necessary for furnishing all PVC pipe (ASTM D 2241) required to complete the project.

2. MATERIALS

PVC pipe shall be made of Class 12454-A or Class 12454-B virgin compounds as defined in ASTM D 1784 with an established hydrostatic design base of 4000 psi for water at 73.4° F.

3. DIMENSIONS

Pipe shall be manufactured to standard steel pipe O.D. (IPS), with dimensions and tolerances in accordance with ASTM D 2241.

4. JOINTS

Pipe shall have a gasket bell end with a thickened wall section integral with the pipe barrel in accordance with ASTM D 3139. The use of solvent weld pipe shall not be allowed.

5. GASKETS

Gaskets for jointing pipe shall be in accordance with ASTM F477 (for High Head).

6. PIPE PRESSURE RATING AND STANDARD DIMENSION RATIO

The pressure rating and SDR for PVC pipe (ASTM D 2241) shall be as indicated on the drawings. Pressure rating shall be based on the ISO equation in Section 4.5 of ASTM D 2241 with a maximum allowable hydrostatic design stress of 2000 psi (Safety Factor of 2.0).

7. CAUSE FOR REJECTION

Pipe shall be clearly marked in accordance with Section 9 of ASTM D 2241. Unmarked or scratched pipe shall be rejected.

8. CERTIFICATION

The Contractor shall furnish, in duplicate to the Engineer, a copy of the manufacturer's affidavit of compliance with this specification. Certification shall accompany each delivery of materials, to include gaskets.

9. MEASUREMENT AND PAYMENT

Unless otherwise specified on the Bid Form, PVC pipe (ASTM D 2241) will be measured by the linear foot along the centerline for each size installed. Measurement of pipe shall be up to, but not include, the fittings.

Payment shall include all labor, pipe, and equipment for hauling, bracing, trench excavation, testing, backfilling, and for all cleaning up and other incidentals necessary to install the pipe complete in place, per linear foot.