3247 CORRUGATED POLYETHYLENE PIPE

SCOPE

Provide corrugated polyethylene (CP) dual-wall pipe for use as culverts or pipe sewers.

REQUIREMENTS

Provide corrugated polyethylene (CP) dual-wall pipe with couplings and fittings meeting the requirements of the following:

(1) AASHTO M 294 Type "S" pipe; and
(2) Section 12 of the AASHTO LRFD Bridge Design Specifications.

Provide corrugated polyethylene (CP) pipe with watertight joints that meet a 10.8 psi laboratory test per ASTM D3212 and utilize a bell and spigot design with a gasket meeting ASTM F477.

Provide corrugated polyethylene (CP) pipe and fittings manufactured from high-density polyethylene (HDPE) virgin compounds. May use clean, reworked polyethylene materials from the manufacturer's own production, if the pipe and fittings produced meet the requirements of this section.

Submit a laboratory certification that the pipe connection for each size pipe meets or exceeds the requirements in this section.

Submit the shop drawings of each pipe coupler provided by the pipe manufacturer and any additional mechanical connections required by the plans.

Store and handle corrugated polyethylene (CP) pipe as recommended by the manufacturer. Provide pipe manufactured no more than six months prior to installation. Do not use damaged pipe.

SAMPLING AND TESTING

Approved manufacturers of corrugated polyethylene (CP) are listed on the Approved Products List.

Corrugated High Density Polyethylene (HDPE) pipe manufacturing facilities are required to participate and be in compliance with AASHTO's National Transportation Product Evaluation Program (NTPEP) for producers of AASHTO M 294 HDPE plastic pipe. If a plant has a compliant NTPEP audit for AASHTO M 294 pipe at the time the pipe is manufactured, then the plant has met requirements. Compliant plants are listed on the NTPEP website and can also be accessed through the Approved Products List.

Submit a manufacturer's Certificate of Compliance with each pipe shipment including date manufactured.