SECTION 528 POLYMER COATED CORRUGATED STEEL PIPE CULVERTS

528.1 Description

(1) This section describes furnishing and installing polymer coated corrugated steel culvert pipe and pipe arch.

528.2 Materials

(1) Furnish polymer coated corrugated steel culvert pipe and pipe arch fabricated from zinc coated sheet steel conforming to AASHTO M218. Before fabrication, coat the sheets on both sides with polymer protective coating grade 250/250 according to AASHTO M246. Fabricate the pipe according to AASHTO M245 and plan details.

(2) If the contract requires apron endwalls, use steel apron endwalls, sloped steel endwalls for cross drains, or sloped steel apron endwalls conforming to 521.2.

528.3 Construction

(1) Construct as specified in 520.3 for pipe culverts.

(2) During all work stages, including hauling, storing, and installation, avoid damage to the polymer coating. Store polymer coated pipe and pipe arch on padded supports and protect them from other objects placed against them by using padding at touch points. Use padded slings and other devices to handle and install polymer-coated objects. Repair damaged polymer coating with a polymer coating similar to and compatible with the original coating, or with a tar base material or asphaltic mastic conforming to AASHTO M243.

528.4 Measurement

(1) The department will measure the Culvert Pipe Corrugated Steel Polymer Coated and Pipe Arch Polymer Coated Corrugated Steel bid items acceptably completed as specified in 520.4.

528.5 Payment

(1) The department will pay for measured quantities at the contract unit price under the following bid items:

ITEM NUMBER	DESCRIPTION	UNIT
528.0100 - 0299	Culvert Pipe Corrugated Steel Polymer Coated (size)	LF
528.0300 - 0499	Pipe Arch Polymer Coated Corrugated Steel (size)	LF

(2) Payment for the Culvert Pipe Corrugated Steel Polymer Coated and Pipe Arch Polymer Coated Corrugated Steel bid items is full compensation for providing, hauling, and placing the pipe or pipe arch, including bands; for all excavating, including foundation or bed; and any associated dewatering; for providing and placing granular backfill or graded aggregate for granular foundation or cushion; for backfilling unless granular backfill is specified; for maintaining temporary drainage; and for replacing damaged installations. The department will pay separately for cast-in-place concrete and alternate endwall installations under the Concrete Masonry Endwalls bid item as specified in 504.5 and other associated bid items.

(3) The department will pay for backfilling with granular backfill as specified in 520.5.

(4) The department pay separately for steel apron endwalls, sloped steel endwalls for cross drains, or sloped steel apron endwalls under the appropriate bid items provided in section 521.