SPECIFICATION FOR CORRUGATED METAL PIPE

Spiral Rib - Aluminized Steel Type 2 – Storm Sewers

GENERAL

1. This specification covers the manufacture and installation of the Aluminized Steel Type 2 spiral rib corrugated steel pipe or pipe-arch. TrueNorth Steel is the pre-approved manufacturer and supplier.

DESIGN STANDARDS

1. The spiral rib corrugated steel pipe or pipe arch meets the design parameters of the American Association of State Highway and Transportation Officials (AASHTO) Standard Specification for Highway Bridges, AASHTO LRFD Bridge Design, and/or the American Iron and Steel Institute (AISI).

MATERIAL

1. The Aluminized Steel Type 2 coils shall conform to the applicable requirements of AASHTO M 274 or ASTM A929 and shall be sourced from the United States.

PIPE

1. The spiral rib pipe or pipe arch shall be manufactured featuring ¾" X ¾" X 7 ½" external ribs in accordance with the applicable requirements of AASHTO M 36 or ASTM A760. The pipe sizes, gauges and corrugations shall be as shown on the project plans.
2. All fabrication of the product shall occur within the United States.

COUPLING BANDS

1. Coupling bands for the spiral rib pipe or pipe arch shall be made of the same base metal and coatings as the spiral rib pipe using a minimum of 18 gauge.
2. 5.2 Pipe ends of the spiral rib pipe or pipe arch shall be rerolled with annular corrugations for proper indexing.
3. 5.3 Connection fasteners (bolts and nuts) will be provided with the connecting band.

HANDLING & ASSEMBLY

1. Refer to the recommendations of the National Corrugated Steel Pipe Association's (NCSPA) and or the guidelines provided by TrueNorth Steel.

INSTALLATION

1. Installation of spiral rib pipe or pipe arch shall be in accordance with AASHTO Standard Specifications for Highway Bridges, LRFD Section 26, Division II, NCSPA, or ASTM A798 and in conformance with the project plans and specifications.
2. 7.2 Contractor is responsible for following OSHA and state and local safety guidelines for safe practices.

CONSTRUCTION LOADS

1. Construction loads may be greater than final design loads thus affecting the minimum allowable cover over the top of the spiral rib pipe. The contractor shall follow the recommendations for additional compacted cover material per manufacturer's or NCSPA guidelines.