

ITEM 03603.98 M - CULVERT-END BAR GRATE SYSTEM

DESCRIPTION:

This work shall consist of furnishing and installing a culvert-end bar grate.

MATERIALS:

The materials used for the fabrication of these units shall be a weldable steel conforming to ASTM A615 Grade 50 minimum, or desirably, 60. All individual bars shall be full length, i.e., no lap splices or butt welds will be permitted.

Refer to Section 709-01 for additional specifications concerning reinforcement bars.

Welding shall conform to the requirements of welding as specified in the New York Steel Construction Manual with the exception that radiographic inspection will not be required.

CONSTRUCTION DETAILS:

The grid shall be constructed of 25 mm diameter steel reinforcing bars spaced 300 mm on center and spot welded together at each intersection. The grates shall be galvanized in accordance with Section 719-01 Type I, unless otherwise indicated. The grate shall lay on the embankment slope and overlap the opening a minimum of 150 mm on each side and the top of the pipe as detailed in the contract documents.

Two "J" bar hooks shall be installed on each side, one near the top and one near the bottom of the grate as detailed in the contract documents. These "J" bar hooks shall be 13 mm diameter galvanized reinforcing bars bent into the shape of an inverted "J" with a 113 mm diameter hook and driven a minimum of 600 mm into the soil or as detailed in the contract documents. They shall be galvanized after bending in accordance with Section 719-01 Type I.

The culvert end bar grates shall be installed in accordance with the details shown on the contract documents.

METHOD OF MEASUREMENT:

The quantity to be measured under this work will be the number of square meters of grates finished and placed as detailed in the contract documents.

BASIS OF PAYMENT:

The unit price bid shall include all labor, materials, and equipment necessary to complete this work as specified in the contract documents.