

CULVERT-END SAFETY GRATE

****From Brandon NH 019-3(495)**

- xx. DESCRIPTION. This work shall consist of furnishing and installing culvert-end safety grates of the sizes and at the locations indicated in the Plans and as directed by the Engineer.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Sections 507 and 601 of the Standard Specifications, as appropriate.

- xx. MATERIALS. Steel bar shall meet the requirements of Subsection 713.01. All bars in the final assembly shall be full length with no splices or butt welded pieces.

- xx. CONSTRUCTION REQUIREMENTS. Grates shall be fabricated to the sizes and bar spacing indicated in the Plans. Vertical bars (perpendicular to flow) shall be placed on top.

J-bar hooks shall be installed either vertically or perpendicular to the slope and with the long leg on the downhill side, at the locations indicated in the Plans or as directed by the Engineer.

Bars shall be welded at each intersection with 4 tack welds or a double flare bevel groove weld, at the Contractor's option.

Grates shall lay flat on the embankment slope or precast structure and overlay the opening on each side and at the top as indicated on the Plans. The Contractor shall perform any necessary final slope grading and shaping to ensure proper grate support and smooth uniform slopes in the area surrounding the grate.

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Culvert-End Safety Grate) to be measured for payment will be the number of square meters (square feet) installed in the complete and accepted work. The area of a culvert-end safety grate shall be computed as the product of its overall length and width.

- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Culvert-End Safety Grate) will be paid at the Contract unit price per square meter (square foot). Payment will be full compensation for furnishing, transporting, handling, fabricating, welding, and installing the materials specified; for furnishing and installing J-hooks; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.670 Special Provision (Culvert-End Safety Grate)	Square Foot
900.675 Special Provision (Culvert-End Safety Grate)	Square Meter