

STAINLESS STEEL REINFORCING

****From Morristown STP F 029-1(2) C/1**

- xx. DESCRIPTION. This work shall consist of furnishing and placing stainless steel bar reinforcement.

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

- xx. MATERIALS.

(a) Stainless Steel. Stainless steel shall meet the requirements of ASTM A955 M and its designated grade, either 420 or 520, and the requirements of ASTM A 276 UNS 31653 or UNS 32304.

(b) Tie Wires and Supports. Tie wire used to tie stainless steel reinforcing bars to stainless steel reinforcing bars, reinforcing steel bars, and shear studs shall be Type 316LN or Type 316L stainless steel wire, 1.2 mm or 1.6 mm (17 or 14 gauge) in diameter. Tie wire used to tie stainless steel reinforcing bars to coated reinforcing steel bars shall be coated wire.

Bar chairs for supporting stainless steel reinforcing bars shall be non-metallic. Concrete chairs shall not be used.

- xx. QUALITY CONTROL. A minimum of thirty (30) days prior to delivery to the project site, the manufacturer shall provide a quality control plan for review and approval by the Materials and Research Engineer. The plan shall clearly demonstrate the ability to manufacture, test, certify, maintain, and assure the identity of bars from manufacture to placement.

The receipt of the manufacturer's quality control plan will serve as notification to the Agency of the manufacturer's intention to supply reinforcing bars to an Agency project.

- xx. SAMPLING AND TESTING. Samples of bar reinforcement a minimum of 1.5 m (60 inches) long shall be submitted to the Materials and Research laboratory for testing as specified in the Plans.

A Type D Certification shall be furnished in accordance with Subsection 700.02.

- xx. PROTECTION OF MATERIAL. Stainless steel reinforcement shall be stored separately from other reinforcing steel at all times (including being separated during transport so that there is no direct contact) to avoid contamination. The reinforcement shall be stored clear of the ground on timbers or other suitable protective cribbing spaced to prevent sags in the bundles. When placed in the work, stainless steel reinforcement shall be clean of all scale or other foreign substances.

xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Stainless Steel Reinforcing) to be measured for payment will be the total number of kilograms (pounds) of reinforcing bars used in the complete and accepted work except as otherwise provided, computed on the following basis:

- (a) The mass (weight) of bars will be measured as either:
 - (1) The product of length as shown on the approved shop bar lists and the standard mass per meter (weight per foot) of length as adopted by the CRSI, or
 - (2) If approved by the Engineer, the mass (weight) on a certified Bill of Lading from the reinforcement supplier. The Bill of Lading must be broken down and subtotaled based on individual bar marks and types of reinforcement.
- (b) Measurement for payment will not be made for any clips, wire, chairs, supports, or other material that may be used by the Contractor for keeping the reinforcing bars in their correct position.
- (c) Measurement for payment will be adjusted for any material accepted with an overall dimensional length less than or greater than the 25 mm (1 inch) CRSI tolerance.
- (d) When the substitution of bars of greater diameter than specified is permitted by written authorization of the Engineer, payment will be made for only the mass (weight) of steel that would have been required if the specified diameter had been used. In case short bars are used when full length bars are shown on the Plans, the mass (weight) to be measured will be only the equivalent of the mass (weight) of full length bars as if they had been used, with no allowance for laps.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Stainless Steel Reinforcing) will be paid at the Contract unit price per kilogram (pound). Payment will be full compensation for furnishing, handling, and placing the material and for furnishing all labor, fastening devices, supports, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.635 Special Provision (Stainless Steel Reinforcing)	Kilogram (Pound)