

FURNISH AND INSTALL TIE PLATES

****From Rutland - Leicester FRT11(024)
Rutland-Burlington VTRY(5)**

- xx. DESCRIPTION. This work shall consist of removing existing defective tie plates and furnishing and installing tie plates on the ties indicated in the Contract Documents or where directed by the Engineer.
- xx. MATERIALS. Tie plates, of the specified size and type, are to be relay plates meeting the requirements of the Specification entitled: Chapter 5, Section 1.1 Specifications for Steel Tie Plates, AREMA Manual - current edition.

Relay tie plates shall be punched to fit the base of the rail on which they will be used. Each plate shall have at least eight (8) holes punched for five eighths (5/8)" track spikes. Four (4) of the holes shall be punched so that they allow a rail holding spike to be placed on the gage and field side of the rail. There shall also be at least four (4) holes punched for the use of plate holding spikes.

Relay tie plates shall be a minimum 7-3/4" x 13".

Relay tie plates shall be subject to inspection and acceptance by the Engineer. In addition to being judged defective due to improper fit, they may be judged defective for any of the following reasons:

- (a) Rounded or worn shoulders.
- (b) Rounded or otherwise excessively worn spike holes.
- (c) A crack, bend, or other flaw in the plate.
- (d) Excessive deterioration from rust, scale, or brine.

Track spikes shall be new five eighths (5/8)" reinforced throat. They shall meet the dimensional requirements of the detail entitled: Chapter 5, Section 2.2 Design of Cut Track Spikes, AREMA Manual - current edition. The material requirements of the spikes shall be in accordance with the specification entitled: Chapter 5, Section 2.1 Specifications for Soft-Steel Track Spikes, AREMA Manual - current edition.

Tie plugs shall be treated wood or chemical compound meeting the requirements of the Specification entitled: Chapter 30, Section 3.1.5 Specification for Tie Plugs, AREMA Manual - current edition.

- xx. CONSTRUCTION REQUIREMENTS. Removed tie plates and spikes not reinstalled shall become property of the Contractor.

Tie plates shall be installed centered about the width of the tie with the shoulders bearing firmly against the edges of the base of the rail. Under no circumstances shall the shoulder be allowed under any portion of the rail. The cant of the plate shall be downward to the gage side of the rail.

Tie plates with a different amount of cant or flat plates are not to be intermixed except as directed by the Engineer.

Where a replacement tie plate is to be placed on an existing tie, the spike holes are to be plugged and, when necessary, the tie adzed to provide full plate bearing. The adzed surface shall be treated with an approved preservative.

Spiking of rail holding spikes shall be performed with the head pointed toward the rail and driven vertically and square with the rail, and so driven as to allow a one-eighth (1/8)" space between the underside of the head of the spike and the top of the base of the rail.

- xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Furnish and Install Tie Plates) to be measured for payment will be the actual number of tie plates furnished and installed in the complete and accepted work.
- xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Furnish and Install Tie Plates) will be paid for at the Contract unit price per each. Payment will be full compensation for furnishing and installing the tie plate and for furnishing all labor, tools, equipment, and incidentals, including track spikes and tie plugs, necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.620 Special Provision (Furnish and Install Tie Plates)	Each