

RAILROAD BRIDGE WATERPROOFING SYSTEM

****From New Haven WCRS(18)**

- xx. DESCRIPTION. This work shall consist of the application of reinforced asphalt, synthetic resin, or coal-tar based preformed sheet membrane to bridge decks to serve as a waterproof barrier between the concrete deck and the ballast material as shown in the Plans. The system shall include the application of joint sealant, the use of a prime coat over the horizontal slab surface, and asphalt plank protection over the membrane.

The work under this Section shall be performed in accordance with these provisions, the Plans, and Section 519 of the Standard Specifications.

- xx. GENERAL. Quality assurance and methods of execution shall be completed in accordance with the American Railway Association Maintenance-of-Way Association (AREMA) Manual for Railway Engineering Chapter 8, Section 29.6 Applicable ASTM Designations.

- xx. MATERIALS. All materials shall be in accordance with the AREMA Manual Chapter 8, Section 29.6 unless otherwise noted.

Waterproofing membrane shall be capable of field splicing with appropriate adhesive, cement, and splice material.

Asphalt plank board shall be one of the products listed below or an approved equal Type 1 or Type 2 protective asphaltic plank.

APOC-AP 5720 Bridge-Dek
Gardner Asphalt Corporation
P.O. Box 5449
Tampa, FL 33675-5449
Tel: (813)248-2101
Fax: (813)248-6768
www.apoc.com

Bridgemate Protection Course Plank
ELSRO, Inc.
114 37th Street
Evans, CO 80620
Tel: (970)330-4844
Fax: (970)330-5123
www.elsroinc.com

VIBRAFLEX Asphaltic Panel Bridge Deck Protection Course
W.R. Meadows, Inc.
P.O. Box 338
Hampshire, IL 60140-0338
Tel: (847)214-2100
Fax: (847)683-4544
www.wrmeadows.com

- xx. SURFACE PREPARATION. The concrete surfaces that are to be waterproofed shall be reasonably smooth and free from projections or holes and shall be cleaned of dust and loose material.

xx. METHOD OF MEASUREMENT. The quantity of Special Provision (Railroad Bridge Waterproofing System) to be measured for payment will be the number of square meters (square yards) of the specified type used in the complete and accepted work. Measurement will be based on the horizontal distance between the ballast retainers and the horizontal length of membrane installed. Any material specified to be lapped up the face of ballast retainer will not be included in the measured quantity.

xx. BASIS OF PAYMENT. The accepted quantity of Special Provision (Railroad Bridge Waterproofing System) will be paid for at the Contract unit price per square meter (square yard). Payment will be full compensation for furnishing, transporting, handling, and placing the waterproofing system specified, including primer, mastic, polyurethane membrane sealant, and surface preparation, and for furnishing all materials, labor, tools, equipment, and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
900.675 Special Provision (Railroad Bridge Waterproofing System)	Square Meter (Square Yard)