New Jersey Department of Transportation
1035 Parkway Avenue, PO Box 600, Trenton, New Jersey 08625-0600

Baseline Document Change Announcement

ANNOUNCEMENT: BDC21S-05

DATE: January 06, 2023

SUBJECT: Concrete Deck Repair
- **Revision to the 2019 Standard Specifications for Road and Bridge Construction, Subpart 507.02.01 and Subsection 507.04, & addition of Subpart 507.03.08**

Subpart 507.02.01 and Subsection 507.04 have been revised & new Subpart 507.03.08 has been added to the 2019 Standard Specifications for Road and Bridge Construction in order to allow the RE to direct if and where to apply BRIDGE DECK AND BRIDGE APPROACH SEALING.

The following revisions have been incorporated into the 2019 Standard Specifications via the 2019 Standard Inputs, SI2019:

507.02.01 Materials
THE FOLLOWING IS ADDED:

Provide and use a penetrating type of protective sealer as directed by the RE.

Ensure the protective sealer does not contain an aqueous solvent or carrier.

507.03 CONSTRUCTION
THE FOLLOWING SUBPART IS ADDED:

507.03.08 Bridge Deck and Bridge Approach Sealing

The RE will direct if and where to apply BRIDGE DECK AND BRIDGE APPROACH SEALING.

A. Instructions. At least 5 days prior to starting the sealing operation provide the RE with the manufacturer's instructions for application and use. Use only 1 brand and specific type of sealer on each deck or approach slab.

B. Surface Preparation. Ensure the concrete is air dry for 24 hours after saw cut grooving is completed. If the concrete is subjected to rain or moisture from other project operations, extend the drying time by 24 hours from the time that the concrete has stopped being wetted. Complete all work such as surface texturing, saw cut grooving, barriers, parapets, sidewalks and safety walks prior to the cleaning the concrete surface. After the drying period has ended, clean the concrete surface by vacuum methods, to remove loose particles.

After cleaning, ensure no laitance, standing water, oil, dirt or other foreign particles are present. Do not start sealer application until the RE approves the surface preparation.

C. Weather Limitations. Do not apply sealer materials during wet weather conditions or when adverse weather conditions are anticipated within 12 hours of completion of sealer application. Ensure ambient and surface temperatures, during application, and until the sealed concrete is dry to the touch, is maintained at a minimum of 40ºF. Spray application is not permitted during windy conditions, if in the opinion of the RE, unsatisfactory results will be obtained.

D. Sealer Application. Do not alter or thin the sealer. Ensure sealer equipment is free of foreign materials. Apply the sealer by means of brushing, spraying or rolling, as recommended by the manufacturer.

Apply a minimum of 2 coats of the sealer to achieve uniform coverage. Apply the sealer to an application rate as recommended by the manufacturer and to the satisfaction of the RE. Apply second and each additional coat perpendicular to the previous coat. Do not allow the sealer to run or puddle. Ensure each coat dries for a minimum of 2 hours before the next coat is applied. Ensure the final coat dries according to the manufacturer's instructions, prior to allowing traffic on the surface.

507.04 MEASUREMENT AND PAYMENT
THE FOLLOWING PAY ITEM IS ADDED:

Item	*Pay Unit*
BRIDGE DECK AND BRIDGE APPROACH SEALING	SQUARE FOOT

THE FOLLOWING IS ADDED:

The Department will not make payment for BRIDGE DECK AND BRIDGE APPROACH SEALING if it is determined by the RE that cracking occurred due to fault of the contractor.

Implementation Code R (ROUTINE)

Changes must be implemented in all applicable Department projects scheduled for Final Design Submission at least one month after the date of the BDC announcement. This will allow designers to make necessary plan, specifications, and estimate/proposal changes without requiring the need for addenda or postponement of advertisement or receipt of bids.

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