

New Jersey Department of Transportation

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



Baseline Document Change Announcement

Concrete Bridge Approach

BDC10D-01

March 30, 2010

SUBJECT: Revision to BCD-507-5 and BCD-507-6 of the *Standard Bridge Construction Details - 2007*

**REFERENCE: Revision to Subsection 507.04 and Subpart 905.03.03 of the *2007 Standard Specifications*
BDC10S-01, Dated March 29, 2010**

The bridge construction detail sheets BCD-507-5 and BCD-507-6 for bridge approach slabs adjoining HMA pavement and concrete pavement respectively; have been combined in to one sheet BCD 507-5 entitled, "Concrete Bridge Approach". Consequently, sheet BCD-507-6 has now been marked "obsolete", table of contents sheet No. 2, and index sheet No. 1 have been revised.

The Department has determined to discontinue the embedded beam design, and adopt the simply supported concrete slab design. Additionally, the slab configuration has been revised to provide a straight line connection with the adjoining pavement in-lieu of the "stepped" connection. It is expected that these revisions will result in lower fabrication, labor and maintenance costs.

A summary of revisions is as follows:

1. The minimum length of the approach is changed from 45 feet to 25 feet on the shorter side for all projects which are not on a new alignment.
2. The 18" Thick reinforced concrete surface course adjacent to the Bridge Approach is eliminated and an expansion joint is provided at 40' maximum distance from the abutment header instead of 45 feet as shown in the previous detail.
3. #19 x 30" long tie bars @ 30" spacing for longitudinal joints is changed to #19 x 36" long tie bars @ 12" spacing.
4. The reinforcement details have changed; Embedded Beam type reinforcement arrangement is replaced with Concrete Deck type arrangement (two mats).
5. Additional 7, #19 rebars are provided in fanned arrangement for approach corner with an angle less than 65 degrees.
6. Longitudinal Joints are provided at a distance not less than 12 feet center to center and not more than 24 feet center to center.

This BDC Announcement must be read in conjunction with the referenced BDC Announcement for the corresponding changes to Subsection 507.04.

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 an addenda or postponement of advertisement or receipt of bids.

Recommended By:

Original signed by

Walter McGrosky
Director,
Capital Program Support

Approved By:

Original signed by

Richard T. Hammer
Assistant Commissioner,
Capital Program Management

WM: YB: FA

Attachments: Bridge construction details sheet numbers: BCD 507-5 & BCD 507-6
Table of contents sheet No. 2.
Index sheet No. 1