

New Jersey Department of Transportation

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Baseline Document Change Announcement

**Standard Roadway Construction - Traffic Control -
Bridge Construction Details Booklet, 2001 English Units**

BDC00D-1

August 24, 2001

**Subject: Release of the Standard Roadway Construction - Traffic Control - Bridge Construction
Details Booklet, 2001, in U.S. Customary English Units.**

This Release of the Standard Roadway Construction - Traffic Control - Bridge Construction Details Booklet, 2001, in U.S. Customary English Units is a continuation of the Departments conversion of documents from metric to English units.

The details in the attached booklet are similar in content to the metric 1996 Standard Roadway Construction - Traffic Control - Bridge Construction Details Booklet issued under BDC96D-001 dated October 25, 1996. The differences between the new booklet and the 1996 metric booklet are indicated below.

General:

1. All the dimensions, with one exception, have been converted from metric to U.S. Customary English Units. The exception is due to the steel industry producing and marking/designating reinforcing bars in metric units only. Therefore, all reinforcing bar sizes indicated on the details are in metric units. The note "REINFORCING BARS ARE IN METRIC UNITS.", has been added on all sheets that include reinforcing bars.
2. The attached booklet has been updated to include all construction details that were issued via BDC Announcements subsequent to the 1996 booklet. The following BDCs were included:

a.	BDC98D-001	dated	02/16/99
b.	BDC98D-005	dated	10/09/98
c.	BDC98D-004	dated	08/20/98
d.	BDC97D-004	dated	05/28/98
e.	BDC97D-003	dated	06/04/98
f.	BDC97DS-001	dated	03/18/99
g.	BDC98DS-001	dated	02/11/99
3. The revisions include corrections to spelling, grammar and drafting errors, as well as changes to sequencing of notes and the removal of redundant information. Notes have been added to clarify intent.
4. All known details, which are no longer used, have been eliminated.
5. The detail booklet is produced in half scale for convenience. For legibility, the font and general presentation has been revised.
6. The note N.T.S., "Not to Scale", was indicated on each sub-detail in the 1996 booklet. However, the N.T.S. is indicated only once on each sheet, above the title block.

7. The details indicating “white concrete” as the concrete for curb and sidewalk have been revised to allow both gray and white by stating “concrete/white concrete” in the detail title and changing the reference “white concrete, class B” to “concrete class B”.
8. The TCDs that included letters in the sheet designation, such as TCD-14A and TCD-14B have been renumbered to eliminate the letters.
9. References to bituminous concrete have been changed to Hot Mix Asphalt. This was accomplished by replacing the words “bituminous concrete” with “HMA” throughout the details and indicating **HMA = HOT MIX ASPHALT** in the vicinity of the title block on every sheet that the material is shown.
10. The Table of Contents has been revised to include the title of each construction detail sheet.

Specific Changes:

1. CD-306-1, Contraction Joints in Concrete Base Course
The previous CD-306-1 was outdated. Therefore, the detail has been revised to be consistent with current construction practices
2. CD-405-1, Concrete Surface Course
This detail has been revised to clarify the application of options for thickness of slabs and type of reinforcement.
3. CD-602-1, Pipe End Sections
The dimensions of the various sizes of pipe end sections indicated on the previous details were not consistent with what is currently manufactured. Therefore, the details have been revised to the current manufactured dimensions. In addition, the “dimension chart” has been revised to include only the dimensions that are required for quality control.
4. CD-605-1, Concrete and Granite Curb
This detail has been revised to compliment the details in number 1, under New Construction Detail Sheets, below.
5. CD-607-1, Public Sidewalk and Curb Ramps
The detail has been revised to be more comprehensive by adding curb ramp types and associated dimensions as well as, modifying and adding general notes.
6. CD-610-1, Concrete Headwalls and Aprons
The depth of the headwalls and aprons below the ground line has been changed to 36 inches to be consistent with NJDEP standards. The volumes of the concrete have revised to reflect the change. A view entitled “End View of Outlet End” has been added to CD-610-1.2.
7. CD-612-12, Thrie Beam and W Beam Terminal Connector
This detail has been revised to compliment the details in number 1, under New Construction Detail Sheets, below.
8. CD-813-1, Planting
This detail has been modified due to changes in standard horticultural practices, to address safety and maintenance issues as well as include details that were frequently used in the past but never standardized.
9. BCD-8A, Bridge Chain Link Fence (Curved Top)
BCD-8B, Bridge Chain Link Fence (6’ – 3” High)
In the previous booklet, these details were numbered BCD-8 and BCD-9, respectively.

New Construction Detail Sheets:

1. CD-612-13, Beam Guide Rail Attachments
CD-612-14, Beam Guide Rail Attachments
CD-612-15, Beam Guide Rail Attachments
CD-612-16, Beam Guide Rail Attachments
These details are required to provide for NCHRP 350 compliance relative to bridge guide rail attachments.
2. TCD-10, 4 Lanes, Undivided, 2 Lanes & Shoulder One Direction Closing
This Traffic Control Detail has been added.

3. BCD-9 Stay In Place Forms

This has been added to standardize detailing of SIP forms. This information was previously included in the Bridges and Structures Design Manual as guide plates.

Instructions to Designers

The English version of the Standard Roadway Construction - Traffic Control - Bridge Construction Details Booklet, dated 2001, shall be used on all future projects in English units. These details shall be used in conjunction with Department standard documents, such as the design manual, standard specifications, electrical details and EB specifications that have been or are in the process of being converted to English units. The actual implementation plan for the English projects will be announced when all the standards have been issued.

Distribution and Announcement Access Information

This announcement is being distributed electronically to our in-house staff and various public agencies based on our *Standard Details* booklet distribution list maintained by the Engineering Documents Unit.

Internet access to this BDC Announcement can be downloaded and viewed from the following New Jersey Department of Transportation Web Page:

<http://www.state.nj.us/transportation/cpm/BaselineDocuments/bdcdownload.htm>.

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Attachment: English version of the Standard Roadway Construction – Traffic Control – Bridge Construction Details Booklet, dated 2001 available upon request

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