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| SUPERSEDED BY EB 97-047 EFFECTIVE 7/18/97 |  | <i>New York State</i> <i>Department of</i> <i>Transportation</i> ENGINEERING INSTRUCTION | EI 96-043 |
| Title: BRIDGE DETAIL (BD) SHEETS RC1 THROUGH RC7 CONCRETE BARRIERS AND PARAPETS | | | |
| Distribution: <input type="checkbox"/> Manufacturers (18) <input type="checkbox"/> Surveyors (33) <input checked="" type="checkbox"/> Main Office (30) <input checked="" type="checkbox"/> Consultants (34) <input checked="" type="checkbox"/> Local Govt. (31) <input type="checkbox"/> Contractors/AGC (39) <input checked="" type="checkbox"/> Regions/Agencies (32) <input type="checkbox"/> _____ () | | Approved:  JAMES M. O'CONNELL Deputy Chief Engineer (Structures)  Date | |

This EI modifies EB 96-032 which lists current BDD, GLD and BD sheets.

The following BDD sheets are superseded:

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| BDD 95-70 | BDD 95-M70 |
| BDD 95-71 | BDD 95-M71 |
| BDD 96-100 | BDD 96-M100 |
| BDD 96-101A | BDD 96-M101A |
| BDD 96-101B | BDD 96-M101B |
| BDD 96-101C | BDD 96-M101C |
| BDD 96-102 | BDD 96-M102 |
| BDD 96-105 | BDD 96-M105 |
| BDD 96-110 | BDD 96-M110 |
| BDD 96-110A | BDD 96-M110A |
| BDD 96-110B | BDD 96-M110B |
| BDD 96-111 | BDD 96-M111 |

The following BD sheets are added:

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| BD-RC1 | Permanent Concrete Traffic Barrier for Structures (Half Section) |
| BD-RC2 | Vertical Faced Concrete Parapet |
| BD-RC3 | Box Beam Guide Rail Transition to Concrete Barrier |
| BD-RC4 | Common Details for Box Beam Guide Rail Transition to Concrete Barrier |
| BD-RC5 | Concrete Barrier Transition to Highway Box Beam End Connection Details |
| BD-RC6 | Vertical Faced Concrete Parapet Transition to Highway Box Beam |
| BD-RC7 | Vertical Faced Concrete Parapet Flared Transition to Highway Box Beam |

PURPOSE

This Engineering Instruction issues Bridge Detail (BD) sheets that establish new metric standard details for permanent concrete traffic barriers and vertical faced concrete parapets to be used in the preparation of contract plans for bridges. The details depicted on BD sheets should be followed in normal situations.

BACKGROUND

These BD sheets reflect a consolidation and simplification of the details shown in the existing BDD sheets. There are two noteworthy changes in these details from the previous standards.

The first change is an increase in the vertical reinforcement in both the permanent concrete traffic barrier and the vertical faced concrete parapet. This has been done to bring the New York barrier and parapet into conformance with requirements under National Cooperative Highway Research Program (NCHRP) 350. Because of the change in reinforcement, the English version BDD sheets are also being superseded at this time.

The second change involves the adoption of a single transition detail to be used in all cases of transitions from concrete traffic barrier to box beam railing. This has been done to standardize and simplify transition details.

GUIDELINES ON USE

BD sheets BD-RC1 and BD-RC2 issue the new standard dimensions and reinforcement arrangement for permanent concrete traffic barrier and vertical faced concrete parapet. BD sheets BD-RC3 through BD-RC7 issue the new standard for permanent concrete traffic barrier and vertical faced parapet transitions to Highway Box Beam off the structure.

Designers that are preparing PS&E's using English designs will have to convert the details in these metric BD sheets to English units.

This EI becomes effective with the letting of March 13, 1997, but designers are encouraged to use these details earlier, if possible.

Questions and comments can be directed to Arthur Yannotti, (518) 485-1148, of the Structures Design and Construction Division.