

MODIFIED BY EI 93-035  
EFFECTIVE 12/31/93

# ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

**SUPERSEDED BY EI 96-010**  
**EFFECTIVE 3/18/96**

SUBJECT: BRIDGE DESIGN MANUAL, DESIGN CRITERIA  
FOR BRIDGES-DISTRIBUTION OF NEW BDD SHEETS  
84-100, 84-101, 84-102, 84-105 AND 84-106  
Subject Code: 7.35-2

Distribution:

31  Main Office 33  Regions 34  Special

Code: EI 84- 46

Date: 9/10/84

Supersedes:

See Below

APPROVED:



E.V. HOURIGAN, Deputy Chief Engineer (Structures)

Effective immediately, BDD Sheets 79-41A and 79-41C issued by EI 79-36 and BDD 81-41B issued by EI 81-1 are superseded by BDD Sheets 84-100, 84-105 and 84-106, attached hereto. New BDD Sheets 84-101 and 84-102 are also attached.

These sheets all deal with the transition from box beam guide railing to concrete bridge barrier.

The major changes on the revised sheets are:

1. BDD 84-100

- a). The lower tube has been made parallel to the upper tube. This revision is necessary because the highway mounting height for box beam has been lowered.
- b). The end detail of the Concrete Safety Shape has been revised to simplify forming.
- c). The wash on the top of the Concrete Safety Shape was directed toward the roadway to agree with other BDD Sheets.
- d). The recesses on the back of the barrier have been eliminated to simplify forming.
- e). The welding shown in the Splice Tube Detail has been revised.

2. BDD 84-105

- a). The reinforcement in Sections C-C and D-D has been revised to ease field operations.
- b). The shape of Section D-D has been changed to reflect changes on BDD 84-100.
- c). The reinforcement shown in the plan labeled "Concrete Barrier Section At Mid-height" has been revised.

3. BDD 84-106

- a). Detail of Stone Curb-Type A added.
- b). Alternate Curb Joint Detail added.

BDD Sheet 84-101 and 84-102 show new details for off end attachments and for Flared Wingwall cases.

Questions on these details should be referred to the Special Design Unit, in the Structures Division at 453-6113.