

**NRA ADDENDUM TO**  
**BA 42/96 AMENDMENT NO.1**  
**THE DESIGN OF INTEGRAL BRIDGES**

Advice Note BA 42/96 Amendment No. 1, dated May 2003 – The Design of Integral Bridges – is applicable in Ireland with the following amendments:

## **GENERAL**

1. Advice Note BA 42/96 Amendment No. 1, dated May 2003, supersedes BA42/96, dated November 1996, entirely.
2. This Advice Note provides advice on specification requirements for use in public purchasing contracts. It does not lay down legislation requirements for products and materials used in road construction in Ireland.
3. At several locations:  
  
For: “Specification for Highway Works”  
Read: “NRA Specification for Road Works”.

## SPECIFIC

1. Page 1/1, Paragraph 1.1, line 8:  
For: “(See BD 57, DMRB 1.3.7).”  
Read: “(See NRA BD 57).”
2. Page 1/1, Paragraph 1.1, line 9:  
For: “highway”  
Read: “road”.
3. Page 1/2, Paragraph 1.7:  
Delete Paragraph 1.7 and replace with:  
  
“1.7 This Advice Note should be used forthwith for all schemes for the construction and/or improvement of national roads. The Advice Note should be applied to the design of schemes already being prepared unless, in the opinion of the National Roads Authority, application would result in significant additional expense or delay progress. In such cases, design organisations should confirm the application of this Advice Note to particular schemes with the National Roads Authority.”
4. Page 2/1, Paragraph 2.4, line 6:  
For: “BA 57 (DMRB 1.3.8).”  
Read: “NRA BD 57.”
5. Page 2/1, Paragraph 2.6, line 3:  
For: “BD 24 (DMRB 1.3.1),”  
Read: “NRA BD 24.”
6. Page 2/2, Paragraph 2.10, line 2:  
For: “throughout the UK”  
Read: “throughout Ireland”.
7. Page 2/2, Paragraph 2.15, line 11:  
For: “BA 57 (DMRB 1.3.8).”  
Read: “NRA BD 57.”
8. Page 2/2, Paragraph 2.16:  
Delete Paragraph 2.16 and replace with:  
  
“2.16 In precast pre-tensioned concrete construction, it is often not possible to comply with Class 1 serviceability requirements of NRA BD 57 in hogging regions. At integral abutments and over continuous supports, the top face of precast pre-tensioned beams which are incorporated into a composite section with an in-situ reinforced concrete top slab in the hogging zone can be designed to Class 2 within the embedment length of the beam for the limiting tensile stresses defined in Table 4 of BS 5400: Part 4: 1990.”

9. Page 3/1, Paragraph 3.1, line 4:  
For: "in the U.K."  
Read: "in Ireland."

10. Page 4/1, Sections 1 and 2:  
Delete Sections 1 and 2 and replace with:

**"1. NRA Design Manual for Roads and Bridges**

NRA BD 24: Design of Concrete Road Bridges and Structures: Use of BS 5400: Part 4: 1990 (NRA DMRB 1.3.1).

BD 30: Backfilled Retaining Walls and Bridge Abutments (DMRB 2.1).

BD 31: The Design of Buried Concrete Box and Portal Frame Structures (DMRB 2.2.12).

BD 33: Expansion Joints for Use in Highway Bridge Decks (DMRB 2.3.6).

BD 37: Loads for Highway Bridges (DMRB 1.3.14).

NRA BD 57: Design for Durability (NRA DMRB 1.3.7).

**2. NRA Manual of Contract Documents for Road Works**

Volume 1, Specification for Roads Works."

11. Page 5/1, Chapter 5 Enquiries:  
Delete text and replace with:

"5.1 All technical enquiries or comments on this Standard should be sent in writing to:

Head of Project Management and Engineering  
National Roads Authority  
St Martin's House  
Waterloo Road  
Dublin 4"



.....  
E O'CONNOR  
Head of Project Management and  
Engineering"

