



BRIDGE MANUAL

Second Edition 2003

(Includes amendments

June 2004, September 2004, and July 2005)

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FOREWORD

The overall mission of Transit New Zealand is to promote policies and allocate resources to achieve a safe and efficient land transport system.

Our bridges are an important component of the land transport system. It is through good bridge design that Transit New Zealand can achieve safety and the economic use of resources. This manual for the design and evaluation of bridges carrying road and/or pedestrian traffic gives guidelines to meet that objective.

This manual has been produced for Transit New Zealand by Opus International Consultants Limited, Wellington, New Zealand. It incorporates the TNZ Bridge Manual first edition published in 1994 and the version reprinted in 2000 with amendment Nos; 1, 2 & 3. The subsequent amendment No.4, a new amendment to the Design Statement section, and requirements for aesthetics are also introduced in this second edition. Reformatting of the manual has been undertaken and allows for future publication on the internet.

Bridge technology is an area of ongoing research and refinement. It is expected that this manual will be reviewed and amended in whole or in part from time to time. Comments from practitioners will therefore be welcomed.

A handwritten signature in black ink, appearing to read "R J Dunlop".

R J Dunlop
Chief Executive

RECORD OF AMENDMENTS

Changes since the previous amendment are indicated by a vertical line in the margin. The date of issue or amendment of a page appears in the header on each page. This page will be updated and reprinted each time a new amendment is released.

Amendment Number	Effective Date	Description
1	23 July 2004	<p>June 2004 Amendment:</p> <ul style="list-style-type: none"> (a) page v dated June 2003 replaced by page v dated June 2004, (b) Chapter 3: Design Loading, pages 3-1 to 3-16 dated June 2003 replaced by pages 3-1 to 3-18 dated June 2004, (c) Appendix B: Side Protection, pages B-1 to B-25 dated June 2003 replaced by pages B-1 to B-25 June 2004 version.
2	27 Sept. 2004	<p>September 2004 Amendment:</p> <ul style="list-style-type: none"> (a) page <i>i</i>, <i>ii</i>, <i>v</i> and <i>ix</i> dated June 2004 replaced by page <i>i</i>, <i>ii</i>, <i>v</i> and <i>ix</i> dated September 2004, (b) Chapters: <ul style="list-style-type: none"> 2 Design – General Requirements 3 Design Loading 4 Analysis and Design Criteria 5 Earthquake Resistant Design 6 Evaluation of Bridges and Culverts replaced in their entirety by September 2004 version
3	29 July 2005	<p>July 2005 Amendment:</p> <ul style="list-style-type: none"> (a) Page <i>i</i>, <i>ii</i>, and <i>v</i> dated September 2004 replaced by page <i>i</i>, <i>ii</i> and <i>v</i> dated July 2005, (b) Chapter 1: Design Statement, page 1-4 dated June 2003 replaced by page 1-4 dated July 2005.

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AMENDMENT REGISTRATION

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