

**NRA DMRB - Update Alert**

The March 2015 updates to the NRA DMRB are as follows:

***NRA DESIGN MANUAL FOR ROADS AND BRIDGES***

<b>Document</b>	<b>DMRB Part</b>	<b>Title</b>	<b>Nature of Document</b>
NRA GD 02	0.1.1	Volume Contents and Alpha-Numeric Index to the NRA Design Manual for Roads and Bridges	Amended contents list and index
NRA BD 86	3.4.19	The Assessment of Road Bridges and Structures for the Effects of Abnormal and Exceptional Abnormal Load Vehicles using SV and SOV Load Models	New Standard
NRA HD 78	4.2.1	Design of Outlets for Surface Water Channels	New Standard
NRA HD 139	4.2.1	Edge of Pavement Details	New Standard
NRA HD 103	4.2.1	Vegetated Drainage Systems for Road Runoff	New Standard
NRA HD 106	4.2.1	Drainage of Runoff from Natural Catchments	New Standard
NRA HD 45	4.2.1	Road Drainage and the Water Environment	New Standard
NRA HA 33	4.2.3	Design of Earthworks Drainage, Network Drainage, Attenuation & Pollution Control	New Standard
NRA HD 33	4.2.3	Drainage Systems for National Roads	New Standard
NRA HD 102	4.2.3	Spacing of Road Gullies	New Standard
NRA HD 137	4.2.4	Hydraulic Design of Road-Edge Surface Water Channels	New Standard
NRA HD 83	4.2.4	Safety Aspect of Road Edge Drainage Features	New Standard
NRA HD 140	4.2.5	Determination of Pipe and Bedding Combinations for Drainage Works	New Standard
NRA HD 107	4.2.7	Design of Outfall and Culvert Details	New Standard
NRA HD 118	4.2.8	Design of Soakaways	New Standard
NRA HD 119	4.2.9	Grassed Surface Water Channels for Road Runoff	New Standard
NRA HD 19	5.2.2	Road Safety Audit	Updated Standard
NRA HA 19	5.2.2	Road Safety Audit Guidelines	New Advice Note
NRA HD 23	7.1.1	Use of Volume 7	New Standard
NRA HD 300	7.2.6	Design of Bituminous Mixtures, Surface Treatments, and Miscellaneous Products and Processes	New Standard

<b>Document</b>	<b>DMRB Part</b>	<b>Title</b>	<b>Nature of Document</b>
NRA HD 30	7.3.3	Pavement Asset Repair and Renewal - Scheme Approval Procedure	New Standard
NRA HD 31	7.4.1	Pavement Assessment, Repair and Renewal Principles	New Standard
NRA HD 36	7.5.1	Surfacing Materials for New and Maintenance Construction, for Use in Ireland	New Standard
HA 78	4.2	Design of Outfalls for Surface Water Channels	Withdrawn
HA 39	4.2	Edge of Pavement Details	Withdrawn
HA 71	4.2.1	The Effects of Highway Construction on Flood Plains [and Amendment No. 1, August 1998]	Withdrawn
HA 103	4.2.1	Vegetative Treatment Systems for Highway Runoff	Withdrawn
HA 106	4.2.1	Drainage Run Off from Natural Catchments	Withdrawn
TA 80	4.2.2	Surface Drainage of Wide Carriageways	Withdrawn
HA 102	4.2.3	Spacing of Road Gullies	Withdrawn
HA 105	4.2.3	Sumplless Gullies	Withdrawn
HA 37	4.2	Hydraulic Design of Road Edge Surface Water Channels	Withdrawn
HA 83	4.2	Safety Aspects of Road Drainage Features	Withdrawn
HA 79	4.2.4	Edge of Pavement Details for Porous Asphalt Surface Courses	Withdrawn
HA 219	4.2.4	Determination of Pipe Roughness and Assessment of Sediment Deposition to Aid Pipe Design	Withdrawn
HA 41	4.2.4	A Permeameter for Road Drainage Layers	Withdrawn
HA 104	4.2.5	Chamber Tops and Gully Tops for Road Drainage and Services: Installation and Maintenance	Withdrawn
HA 40	4.2.5	Determination of Pipe and Bedding Combinations for Drainage Works	Withdrawn
HA 113	4.2.6	Combined Channel and Pipe System for Surface Water Drainage	Withdrawn
HA 118	4.2.8	Design of Soakaways	Withdrawn
HA 119	4.2.9	Grassed Surface Water Channels	Withdrawn
NRA Addendum to HD 35	7.1.2	Conservation and the use of Secondary and Recycled Materials	Withdrawn
NRA Addendum to HD 27	7.2.4	Pavement Construction Methods	Withdrawn

<b>Document</b>	<b>DMRB Part</b>	<b>Title</b>	<b>Nature of Document</b>
NRA Addendum to HD 38	7.5.3	Concrete Surfacing and Materials [and Amendment No. 1, February 1999]	Withdrawn

A summary of the changes in amended documents is contained within each individual document.

**Summary of March 2015 Amendments**

The March 2015 updates to the NRA MCDRW are as set out in the table below:

<b>Document</b>	<b>Description of Changes</b>
Contents Lists	<p>NRA SD 2 is updated in March 2015 to refer to the correct date for all updated parts of the NRA MCDRW.</p> <p>Volume 3 – Section 1 Contents for the Method of Measurement is updated in March 2015 to refer to the correct list for all updated parts of the Method of Measurement.</p> <p>Volume 3 – Section 2 Contents for the Notes for Guidance to the Method of Measurement is updated in March 2015 to refer to the correct list for all updated parts of the Notes for Guidance to the Method of Measurement.</p>
Series 000 Introduction	<p>Series 000 is amended in March 2015 with the issue of the following amended document;</p> <p>Volume 1      Specification for Road Works, Series 000; and          Volume 2      Notes for Guidance to the Specification for Road Works, NG Series 000.</p> <p>These parts have been amended to reflect the general requirements for CE marking and Declaration of Performance for products.</p>
Series 100 Preliminaries	<p>Series 100 is updated in March 2015 with the issue of;</p> <p>Volume 2      Notes for Guidance to the Specification for Road Works, Series 100. Changes to Table NG 1/1 to accommodate updates to Series 900 Pavements - Bituminous Bound Materials.</p> <p>Volume 4      Road Construction Details, Series 100, RCD/100/1 to 12</p>
Series 400 Road Restraint Systems	<p>Series 400 is updated in March 2015 with the issue of the following updated Road Construction Detail;</p> <p>Volume 4      Road Construction Details, Series 400, RCD/400/7          Central Reserve Detail of Type 1 Dual          Carriageway/Standard Motorway with in-situ concrete barrier</p>

<b>Document</b>	<b>Description of Changes</b>
Series 500 Drainage and Service Ducts	<p>Series 500 is amended in March 2015 with the issue of the following amended document;</p> <p>Volume 1 Specification for Road Works, Series 500;            Volume 2 Notes for Guidance to the Specification for Road Works, NG Series 500;            Volume 3 Method of Measurement, MM Series 500;            Volume 3 Notes for Guidance to the Method of Measurement, MMNG Series 500; and            Volume 4 Road Construction Details, RCD Series 500.</p> <p>A significant update of each of the volumes of the Series 500 has been undertaken.</p>
Series 700 Road Pavements - General	<p>Series 700 is amended in March 2015 with the issue of the following amended document;</p> <p>Volume 1 Specification for Road Works, Series 700, where clause 702.3 has been rewritten and clause 709 has been moved into Series 900;            Volume 2 Notes for Guidance to the Specification for Road Works, NG Series 700, where significant amendments have been made to the sample appendices;            Volume 3 Method of Measurement, MM Series 700, where significant amendments have been made across this part;            Volume 3 Notes for Guidance to the Method of Measurement, MMNG Series 700 where significant amendments have been made across this part; and            Volume 4 Road Construction Details, RCD Series 700, where updates have been made to RCD/700/1 and RCD/700/6.</p>
Series 900 Road Pavements - Bituminous Bound Materials	<p>Series 900 is amended in March 2015 with the issue of the following amended document;</p> <p>Volume 1 Specification for Road Works, Series 900; and            Volume 2 Notes for Guidance to the Specification for Road Works, NG Series 900.</p> <p>A fundamental rewrite of each of volumes 1 and 2 of the Series 900 has been undertaken.</p>
Series 1000 Road Pavements, Concrete and Cement Bound Materials	<p>Series 1000 is updated in March 2015 with the issue of the following updated Road Construction Detail;</p> <p>Volume 4 Road Construction Details, Series 1000, RCD/1000/28 Gullies in Continuously Reinforced Concrete Pavement</p>

<b>Document</b>	<b>Description of Changes</b>
Series 2500 Special Structures	<p>Series 2500 is updated in March 2015 with the issue of the following new Road Construction Details;</p> <p>Volume 4      Road Construction Details, Series 2500, RCD/2500/4 Mammal Underpass General Layout, and RCD/2500/5 Mammal Underpass Long section.</p>

**NRA IAN - Update Alert**

The March 2015 update to the NRA IANs is as follows:

***NRA INTERIM ADVICE NOTES***

<b>Document</b>	<b>NRA Part</b>	<b>Title</b>	<b>Nature of Document</b>
NRA IAN 01/11	NRA IAN	Low Energy Pavements	Withdrawal of NRA IAN
NRA IAN 04/13	NRA IAN	Specification for Microsurfacing, Surface Dressing and Bond Coat	Withdrawal of NRA IAN
NRA IAN 05/13	NRA IAN	Update to HD 36 Surfacing Materials for New and Maintenance Construction, for Use in Ireland	Withdrawal of NRA IAN
NRA IAN 06/13	NRA IAN	Procedures for Use of Permanent Repair Material Systems on National Roads	Withdrawal of NRA IAN
NRA IAN 07/13	NRA IAN	Monitoring Phase Procedures for Permanent Repair Material System	Withdrawal of NRA IAN
NRA IAN 08/13	NRA IAN	Specification and Notes for Guidance on the Use of Permanent Repair Materials	Withdrawal of NRA IAN

**NRA TB Series - Update Alert**

The March 2015 update to the NRA Technical Bulletin Series is as follows:

***NRA TECHNICAL BULLETIN SERIES***

<b>Document</b>	<b>NRA Part</b>	<b>Title</b>	<b>Nature of Document</b>
NRA TB 13	TB	Revised Road Drainage Standards	New NRA Technical Bulletin