
**VOLUME 0 INTRODUCTION AND
GENERAL
REQUIREMENTS**
**SECTION 1 PUBLICATION
PROCEDURE**

PART 1

**DESIGN MANUAL FOR ROADS AND
BRIDGES: VOLUME CONTENTS PAGES
AND ALPHA-NUMERIC INDEX**

SUMMARY

This document contains a current set of Volume Contents Pages and a current Alpha-Numeric Index that supersedes the Design Manual for Roads and Bridges: Volume Contents Pages and Alpha-Numeric Index dated February 2015. Updated lists of Addenda for Northern Ireland, Scotland and Wales, and a list of current Scottish Office Memoranda not included in the DMRB, are included with this Index for information.

INSTRUCTIONS FOR USE

1. Remove the existing Contents Pages from each Volume and archive as appropriate. Insert the new Contents Pages into each Volume.
2. Remove the existing Alpha-Numeric Index dated December 2014 from Volume 0, Section 1, Part 1 and archive as appropriate. Insert the new Alpha-Numeric Index in Volume 0, Section 1, Part 1.
3. Archive this sheet as appropriate.

Note: DMRB documents are now issued quarterly in February, May, August and November. A current set of Volume Contents Pages and an Index will be issued at the same time and will be available separately from The Stationery Office.

**Design Manual for Roads and
Bridges:**

**Volume Contents Pages and
Alpha-Numeric Index**

**VOLUME 0 INTRODUCTION AND
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PART 1

**DESIGN MANUAL FOR ROADS AND
BRIDGES: VOLUME CONTENTS PAGES
AND ALPHA-NUMERIC INDEX**

Contents

1. Set of Volume Contents Pages
2. Alpha-Numeric Index

**In addition the following are attached to the
Alpha-Numeric Index for Information:**

- a) List of Scottish Addenda
- b) List of Current Scottish Office Memoranda not included in the DMRB
- c) List of Welsh Addenda
- d) List of Northern Irish Addenda

**Design Manual for Roads and
Bridges:
Volume Contents Pages**

VOLUME 0
INTRODUCTION AND GENERAL REQUIREMENTS

Section 1 Index and Introduction

- Part 1 Design Manual for Roads and Bridges: Volume Contents Pages and Alpha-Numeric Index [Supersedes the Design Manual for Roads and Bridges: Volume Contents Pages and Alpha-Numeric Index dated August 2014]
- Part 2 GD 01/08 Introduction to the Design Manual for Roads and Bridges (DMRB)

Section 2 General Guidance

- Part 1 GD 02/08 Quality Management Systems for Highway Design
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VOLUME 1 (with Continuation Binder 1a)

HIGHWAY STRUCTURES: APPROVAL PROCEDURES AND GENERAL DESIGN

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Part 1 BD 36/92 Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures

Part 2 BA 28/92 Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures

Part 3 BD 95/07 Treatment of Existing Structures on Highway Widening Schemes

Section 3 General Design

Part 1 BD 24/92 The Design of Concrete Highway Bridges and Structures. Use of BS 5400: Part 4: 1990

Part 2 BD 15/92 General Principles for the Design and Construction of Bridges. Use of BS 5400: Part 1: 1988

Part 3 BD 49/01 Design Rules for Aerodynamic Effects on Bridges

Part 4 BA 40/93 Tack Welding of Reinforcing Bars

Part 5 BD 60/04 Design of Highway Bridges for Vehicle Collision Loads

Part 6 BA 59/94 Design of Highway Bridges for Hydraulic Action

Part 7 BD 57/01 Design for Durability

Part 8 BA 57/01 Design for Durability

Part 9 BD 58/94 Design of Bridges and Concrete Structures with External and Unbonded Prestressing

Part 10 BA 58/94 Design of Bridges and Concrete Structures with External and Unbonded Prestressing

Part 11 BA 41/98 The Design and Appearance of Bridges

Part 12 BA 42/96 The Design of Integral Bridges [Incorporating Amendment No.1 dated May 2003]

Part 13 BA 53/94 Bracing Systems and the Use of U-Frames in Steel Highway Bridges

Part 14 BD 10/97 Design of Highway Structures in Areas of Mining Subsidence

BD 9/81 Implementation of BS 5400: Part 10: 1980 - Code of Practice for Fatigue

BD 13/06 Design of Steel Bridges. Use of BS 5400-3:2000

BD 16/82 Design of Composite Bridges. Use of BS 5400: Part 5: 1979
[Incorporating Amendment No.1 dated December 1987]

BD 28/87 Early Thermal Cracking of Concrete
[Incorporating Amendment No.1 dated August 1989]

BD 37/01 Loads for Highway Bridges

BA 9/81 The Use of BS 5400 Part 10: 1980 - Code of Practice for Fatigue
[Incorporating Amendment No.1 dated November 1983]

BA 19/85 The Use of BS 5400: Part 3: 1982

BA 24/87 Early Thermal Cracking of Concrete
[Incorporating Amendment No.1 dated August 1989]

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- Part 15 BA 84/02 Use of Stainless Steel Reinforcement in Highway Structures
- Part 16 BD 84/02 Strengthening of Concrete Bridge Supports for Vehicle Impact Using Fibre Reinforced Polymers
- Part 17 BD 90/05 Design of FRP Bridges and Highway Structures
- Part 18 BD 85/08 Strengthening Highway Structures Using Externally Bonded Fibre Reinforced Polymer

Note. The application of the following Technical Memoranda (Bridges) to particular structures should be agreed with the TAA (see BD 2):

- BE 23 Shear Key Decks
[Incorporating Amendment No.1 to Annex dated June 1971]
- BE 5/75 Rules for the Design and Use of Freyssinet Concrete Hinges in Highway Structures
Scottish Addendum applicable for use in Scotland

VOLUME 2 (with Continuation Binder 2a)

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Part 2	BD 42/00	Design of Embedded Retaining Walls and Bridge Abutments
Part 3	BD 68/97	Crib Retaining Walls
Part 4	BA 68/97	Crib Retaining Walls
Part 5	BD 70/03	Strengthened/Reinforced Soils and other Fills for Retaining Walls and Bridge Abutments Use of BS 8006: 1995, incorporating Amendment No.1 (Issue 2 March 1999)
	BD 30/87	Backfilled Retaining Walls and Bridge Abutments
Part 6		Not yet in use
Part 7	BA 80/99	Use of Rock Bolts
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Part 2	Not In Use	<i>Users seeking BA 48/93 should refer to TD 19/06 – Volume 2 Section 2 Part 8</i>
Part 3	Not In Use	<i>Users seeking TD 32/93 should refer to TD 19/06 – Volume 2 Section 2 Part 8</i>
Part 4	BD 51/14	Portal and Cantilever Signs/Signal Gantries
Part 5	BD 65/14	Design Criteria for Collision Protection Beams
Part 6	BD 12/01	Design of Corrugated Steel Buried Structures with Spans Greater than 0.9 Metres and up to 8.0 Metres
Part 7	BD 67/96	Enclosure of Bridges
Part 8	BA 67/96	Enclosure of Bridges
	BD 29/04	Design Criteria for Footbridges
	BE 7/04	Departmental Standard (Interim) Motorway Sign/Signal Gantries <i>Not applicable for use in Scotland</i> <i>Northern Ireland Addendum applicable for use in Northern Ireland</i>
	TD 19/06	Requirement for Road Restraint Systems
Part 9	BD 78/99	Design of Road Tunnels
Part 10	BD 82/00	Design of Buried Rigid Pipes
Part 11	Not In Use	<i>Users seeking BD 83/01 should refer to BD 94/07 – Volume 2 Section 2 Part 1</i>
Part 12	BD 31/01	The Design of Buried Concrete Box and Portal Frame Structures
Part 13	Not In Use	<i>Users seeking BD 88/05 should refer to BD 94/07 – Volume 2 Section 2 Part 1</i>
Part 14	BD 91/04	Unreinforced Masonry Arch Bridges

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Section 3 Materials and Components

- Part 1 BD 20/92 Bridge Bearings. Use of BS 5400: Part 9: 1983
- Part 2 BA 37/92 Priority Ranking of Existing Parapets
- Part 3 Not In Use *Users seeking BD 52/93 should refer to TD 19/06 – Volume 2, Section 2, Part 8*
- Part 4 BD 47/99 Waterproofing and Surfacing of Concrete Bridge Decks
- Part 5 BA 47/99 Waterproofing and Surfacing Concrete Bridge Decks
- Part 6 BD 33/94 Expansion Joints for Use in Highway Bridge Decks
- Part 7 BA 26/94 Expansion Joints for Use in Highway Bridge Decks
- BA 36/90 The Use of Permanent Formwork
- BA 82/00 Formation of Continuity Joints in Bridge Decks
- Part 8 BD 7/01 Weathering Steel for Highway Structures
- Part 9 BA 92/07 The Use of Recycled Concrete Aggregates in Structural Concrete

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- Part 1 BD 35/14 Quality Assurance Scheme for Paints and Similar Protective Coatings
- Part 2 BD 43/03 The Impregnation of Reinforced and Prestressed Concrete Highway Structures using Hydrophobic Pore-Lining Impregnants
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Part 3	BA 50/93	Withdrawn <i>Users seeking BA 50/93 should refer to BD 54/15 - Volume 3, Section 2, Part 5</i>
Part 4	BD 63/07	Inspection of Highway Structures
Part 5	BA 93/09	Structural Assessment of Bridges with Deck Hinges
Part 6	BD 53/95	Inspection and Records for Road Tunnels
Part 7	BA 86/06	Advice Notes on the Non-destructive Testing of Highway Structures

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Part 3	BA 72/03	Maintenance of Road Tunnels
Part 4	BD 89/03	The Conservation of Highway Structures <i>English Addendum applicable for use in England</i> <i>Northern Ireland Addendum applicable for use in Northern Ireland</i> <i>Scottish Addendum applicable for use in Scotland</i> <i>Welsh Addendum applicable for use in Wales</i>
Part 5	BD 54/15	Management of Post-Tensioned Concrete Bridges

Section 3 Repair

Part 1	BA 30/94	Strengthening of Concrete Highway Structures Using Externally Bonded Plates
Part 2	BA 43/94	Withdrawn <i>Users seeking BA 43/94 should refer to BD 54/15 - Volume 3, Section 2, Part 5</i>
	BD 27/86	Materials for the Repair of Concrete Highway Structures <i>Not applicable for use in Scotland</i>
	BA 35/90	Inspection and Repair of Concrete Highway Structures <i>Not applicable for use in Scotland</i> <i>Northern Ireland Addendum applicable for use in Northern Ireland</i>
Part 3	BA 83/02	Cathodic Protection for Use in Reinforced Concrete Highway Structures
Part 4	BA 87/04	Management of Corrugated Steel Buried Structures
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Section 4 Assessment

Part 1	BD 46/92	Withdrawn <i>Users seeking BD 46/92 should refer to BD 101/11 – Volume 3, Section 4, Part 22</i>
Part 2	BD 50/92	Withdrawn <i>Users seeking BD 50/92 should refer to BD 101/11 – Volume 3, Section 4, Part 22</i>
Part 3	BD 21/01	The Assessment of Highway Bridges and Structures
Part 4	BA 16/97	The Assessment of Highway Bridges and Structures [Incorporating Amendment No. 1 dated November 1997 and Amendment No.2 dated November 2001]
Part 5	BA 38/93	Assessment of the Fatigue Life of Corroded or Damaged Reinforcing Bars
Part 6	BA 39/93	Assessment of Reinforced Concrete Half-joints
Part 7	BD 48/93	The Assessment and Strengthening of Highway Bridge Supports
Part 8	BA 54/94	Load Testing for Bridge Assessment
Part 9	BA 55/06	The Assessment of Bridge Substructures and Foundations, Retaining Walls and Buried Structures
Part 10	BA 52/94	The Assessment of Concrete Structures Affected by Alkali Silica Reaction
Part 11	BD 56/10	The Assessment of Steel Highway Bridges and Structures
Part 12	Not In Use	<i>Users seeking BA 56/96 should refer to BD 56/10 – Volume 3, Section 4, Part 11</i>
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Part 14	BD 44/95	The Assessment of Concrete Highway Bridges and Structures
Part 15	BA 44/96	The Assessment of Concrete Highway Bridges and Structures
Part 16	BD 61/10	The Assessment of Composite Highway Bridges and Structures
Part 17		<i>Users seeking BA 61/96 should refer to BD 61/10 – Volume 3 Section 4 Part 16</i>
	BD 34/90	Withdrawn <i>Users seeking BD 34/90 should refer to BD 101/11 – Volume 3, Section 4, Part 22</i>
	BA 34/90	Withdrawn <i>Users seeking BA 34/90 should refer to BD 101/11 – Volume 3, Section 4, Part 22</i>
	BE 13	Fatigue Risk in Bailey Bridges
Part 18	BD 79/13	The Management of Sub-standard Highway Structures
Part 19	BD 86/11	The Assessment of Highway Bridges and Structures For The Effects of Special Types General Order (STGO) and Special Order (SO) Vehicles
Part 20	BD 81/02	Use of Compressive Membrane Action in Bridge Decks
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Part 22	BD 101/11	Structural Review and Assessment of Highway Structures

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- Part 1 HA 44/91 Design and Preparation of Contract Documents
 [Paragraph 3.5 is superseded by paragraph 2.22 of SA 3/93 (MCHW 0.3.3)]
 [Incorporating Amendment No. 1 dated April 1995]
Scottish Addendum applicable for use in Scotland
Northern Ireland Addendum applicable for use in Northern Ireland
- Part 2 HD 22/08 Managing Geotechnical Risk
- Part 3 HD 41/03 Maintenance of Highway Geotechnical Assets
- Part 4 HA 68/94 Design Methods for the Reinforcement of Highway Slopes by Reinforced Soil and Soil Nailing Techniques
- Part 5 HA 70/94 Construction of Highway Earthworks
- Part 6 HA 74/07 Treatment of Fill and Capping Materials Using Either Lime or Cement or Both
- Part 7 HA 73/95 Site Investigation for Highway Works on Contaminated Land
- HA 43/91 Geotechnical Considerations and Techniques for Widening Highway Earthworks
- SH 7/83 Specification for Road and Bridge Works: Soil Suitability for Earthworking - Use of the Moisture Condition Apparatus
 [Incorporating Amendment No. 1 dated February 1989]
For use in Scotland only
- SH 3/84 Model Contract Document for Topographical Surveys
For use in Scotland only
- SH 4/89 Geotechnical Certification Procedures: Trunk Road Ground Investigations
 [Incorporating Amendment No. 1 dated March 1990]
For use in Scotland only
- SH 5/89 Topographical Surveys: Certification Procedures
 [Incorporating Amendment No. 1 dated November 1989]
For use in Scotland only
- Part 8 HA 120/08 Guidance on the Trenchless Installation of Services Beneath Motorways and Trunk Roads

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- Part 1 HA 71/06 Withdrawn
Users seeking HA 71/06 should refer to HD 45/09 – Volume 11, Section 3, Part 10
- HA 78/96 Design of Outfalls for Surface Water Channels
- HA 39/98 Edge of Pavement Details
- HA 103/06 Vegetative Treatment Systems for Highway Runoff
- HA 106/04 Drainage of Runoff from Natural Catchments
- Part 2 TA 80/99 Surface Drainage of Wide Carriageways
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- Part 3 TA 46/97 Traffic Flow Ranges for Use in the Assessment of New Rural Roads
TA 79/99 Traffic Capacity of Urban Roads
[Incorporating Amendment No.1 dated May 1999]
- Part 4 SH 1/97 The Traffic and Economic Assessment of Road Schemes in Scotland
TA 11/09 Traffic Surveys by Roadside Interview
TA 22/81 Vehicle Speed Measurement on All Purpose Roads
TD 11/82 Use of Certain Departmental Standards in the Design and Assessment of Trunk Road Schemes
Scottish Addendum applicable for use in Scotland
TA 30/82 Choice between Options for Trunk Road Schemes
Scottish Addendum applicable for use in Scotland
SH 4/91 Lane Rental
For use in Scotland only

Section 2 Preparation and Implementation

- Part 1 Not In Use *Users seeking HD 46/05 should refer to GD 02/08 – Volume 0, Section 2, Part 1*
- Part 2 HD 19/03 Road Safety Audits
- Part 3 Not In Use *Users seeking HA 42/94 should refer to HD 19/03 – Volume 5, Section 2, Part 2*
- Part 4 HA 12/81 Management of Contractual Claims
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HA 13/81 The Planting of Trees and Shrubs
Not applicable for use in Scotland
Northern Ireland Addendum applicable for use in Northern Ireland
HA 19/82 Engineer/Contractor Relationship on Trunk Road Contracts
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TA 91/05 Provision for Non-Motorised Users
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- Part 1 HD 34/03 Implementation and Use of the Standards Improvement System

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- Part 2 TD 54/07 Design of Mini Roundabouts
- Part 3 TD 16/07 Geometric Design of Roundabouts
TA 78/97 Design of Road Markings at Roundabouts
TD 50/04 The Geometric Layout of Signal-Controlled Junctions and Signalised Roundabouts
- Part 4 TD 39/94 The Design of Major Interchanges
- Part 5 TD 40/94 Layout of Compact Grade Separated Junctions
- Part 6 TD 42/95 Geometric Design of Major/Minor Priority Junctions
- Part 7 TD 41/95 Vehicular Access to All Purpose Trunk Roads
TA 23/81 Junctions and Accesses: Determination of Size of Roundabouts and Major/Minor Junctions
Scottish Addendum applicable for use in Scotland
- Part 8 TA 86/03 Layout of Large Signal Controlled Junctions

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- Part 1 TD 36/93 Subways for Pedestrians and Pedal Cyclists. Layout and Dimensions
- Part 2 TA 66/95 Police Observation Platforms on Motorways
- Part 3 TD 69/07 The Location and Layout of Lay-bys and Rest Areas
TA 57/87 Roadside Features
[Chapters 2 and 3 are superseded by TD 69/07]
Scottish Addendum applicable for use in Scotland
Northern Ireland Addendum applicable for use in Northern Ireland
- Part 4 TA 81/99 Coloured Surfacing in Road Layout (Excluding Traffic Calming)
- Part 5 TD 51/03 Segregated Left Turn Lanes and Subsidiary Deflection Islands at Roundabouts
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Part 2 Not In Use *Users should refer to Interim Advice Note 73/06*
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- Part 1 HD 28/04 Skidding Resistance
Part 2 HD 29/08 Data for Pavement Assessment
Part 3 HD 30/08 Maintenance Assessment Procedure

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- Part 1 HD 31/94 Maintenance of Bituminous Roads
[Incorporating Amendment No. 1 dated March 1995 and Amendment No. 2 dated February 1998]
Part 2 HD 32/94 Maintenance of Concrete Roads
SH 4/86 Scottish Routine Maintenance Management System
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 - TA 12/07 Traffic Signals on High Speed Roads
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 - TA 15/07 Pedestrian Facilities at Traffic Signal Installations
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 - TA 16/07 General Principles of Control by Traffic Signals
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 - TD 24/97 All-Purpose Trunk Roads Inspection and Maintenance of Traffic Signals and Associated Equipment
 - TD 7/07 Statutory Approval of Traffic Control Equipment
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 - SH 6/73 Criteria for Traffic Light Signals at Junctions
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 - TA 82/99 The Installation of Traffic Signals and Associated Equipment
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- TA 84/06 Code of Practice for Traffic Control and Information Systems for All-Purpose Roads [Incorporating Correction dated February 2007]

Section 2 Traffic Signs and Road Markings
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- Part 1
- TA 58/92 Traffic Signs and Road Markings for Lane Gains and Lane Drops on All Purpose Dual Carriageways and Motorway Trunk Roads
[Incorporating Amendment No.1 dated April 1994]
- Part 2
- TA 61/94 Currency of the Traffic Signs Manual
 - TA 19/81 Reflectorisation of Traffic Signs
[Clauses 7.6 and 7.7 are superseded by Ch.8 of TSM]
Scottish Addendum applicable for use in Scotland
Northern Ireland Addendum applicable for use in Northern Ireland
 - TD 25/01 Inspection and Maintenance of Traffic Signs on Motorway and All-Purpose Trunk Roads
 - TD 26/07 Inspection and Maintenance of Road Markings and Road Studs on Motorways and All-Purpose Trunk Roads
 - TD 33/05 The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads
Northern Ireland Addendum applicable for use in Northern Ireland
 - TA 56/87 Hazardous Cattle Crossings: Use of Flashing Amber Lamps
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 - TA 60/90 The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads
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 - SH 5/77 Implementation of Bus Priorities
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 - TD 89/08 Use of Passively Safe Signposts, Lighting Columns and Traffic Signal Posts to BS EN 12767

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- Part 3 TA 93/04 Traffic Signs to Tourist Attractions in England: Guidance for Tourist Signing – General Introduction
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- Part 3 TA 64/94 Narrow Lane and Tidal Flow Operations at Roads Works on Motorways and Dual Carriageway Trunk Roads with Full Width Hard Shoulders
- Part 4 Not In Use *Users seeking TD 49/97 should refer to TD 49/07 – Volume 8, Section 4, Part 7*
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- Part 2 TD 45/94 Motorway Incident Detection and Automatic Signalling (MIDAS)
- TD 18/85 Criteria for the Use of Gantries for Traffic Signs and Matrix Traffic Signals on Trunk Roads and Trunk Road Motorways
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- Part 1 TA 70/97 Motorways. Introduction
Welsh Addendum applicable for use in Wales

Section 3 Traffic Control and Surveillance – Standards of Provision

- Part 1 HD 20/05 Detector Loops for Motorways
- Part 1 TA 71/97 Motorways. Overview
Welsh Addendum applicable for use in Wales
- TD 17/85 Criteria for the Provision of Closed Circuit Television on Motorways
Northern Ireland Addendum applicable for use in Northern Ireland

Section 4 Systems Design

- Part 1 TA 72/97 National Motorway Communications Systems (NMCS)
Welsh Addendum applicable for use in Wales
- Part 2 TA 73/97 Motorway Emergency Telephones
Welsh Addendum applicable for use in Wales
- Part 3 TA 74/05 Motorway Signalling
Welsh Addendum applicable for use in Wales
- Part 4 TA 75/97 Motorway Transmission Design
Welsh Addendum applicable for use in Wales
- Part 5 TA 76/97 Motorway Control Offices
Welsh Addendum applicable for use in Wales
- Part 6 TA 83/05 Guide to the Use of Variable Message Signs for Strategic Traffic Management on Trunk Roads and Trunk Road Motorways
Scottish, Welsh and Northern Ireland Addenda applicable for use in Scotland, Wales and Northern Ireland

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- Part 1 TA 77/97 Motorways
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- Part 2 HA 87/01 Environmental Functions
- Part 3 HA 88/01 Landscape Elements
- Part 4 HA 89/01 Environmental Elements
- Part 5 HA 90/01 Planning and Policy Features
- Part 6 HA 91/01 Environmental Database System
[Users in England should refer to the latest version of Interim Advice Note 84]
- Part 7 HA 92/01 Scheme Development, Implementation and Management
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- Part 5 HA 60/92 New Roads Heritage

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- Part 2 HA 59/92 Mitigating Against Effects on Badgers
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Part 5 Landscape Effects

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[Incorporating Amendment No.1 dated August 2001]

Part 7 HD 213/11 Noise and Vibration
[Revision 1 dated November 2011]

Part 8 Pedestrians, Cyclists, Equestrians and Community Effects

Part 9 Vehicle Travellers

Part 10 HD 45/09 Road Drainage and the Water Environment

Part 11 Geology and Soils

Part 12 Impact of Road Schemes on Policies and Plans

Section 4 Assessment of Implications on European Sites

Part 1 HD 44/09 Assessment of Implications (of Highways and/or Roads Projects) on European Sites
(Including Appropriate Assessment)

VOLUME 12 (with Continuation Binder 12a)
TRAFFIC APPRAISAL OF ROADS SCHEMES

Section 1 Traffic Appraisal Manual

Part 1 The Application of Traffic Appraisal to Trunk Road Schemes
[Incorporating Amendment No.1 dated November 1997]

Section 2 Traffic Appraisal Advice

Part 1 Traffic Appraisal in Urban Areas

Part 2 Induced Traffic Appraisal
This guidance is now available on www.webtag.org.uk

Part 3 The National Trip End Model

VOLUME 13
ECONOMIC ASSESSMENT OF ROAD SCHEMES

Users of this guide for the computer program COBA (Cost Benefit Analysis) should refer to the Department of Transport website for a version of this document that is updated at more regular intervals. Please click on the following hyperlink:

<https://www.gov.uk/government/publications/coba-11-user-manual>

VOLUME 14
ECONOMIC ASSESSMENT OF ROAD MAINTENANCE

Users of this guide for the computer program QUADRO (Queues And Delays at Roadworks) should refer to the Department of Transport website for a version of this document that is updated at more regular intervals. Please click on the following hyperlink:

<http://www.dft.gov.uk/publications/quadro-4-manual/>

VOLUME 15
ECONOMIC ASSESSMENT OF ROAD SCHEMES IN SCOTLAND

Users of the NESA (Network Evaluation from Surveys and Assignments) should refer to the NESA website for a version of this document that is updated at more regular intervals. Please click on the following hyperlink:

<http://www.transportscotland.gov.uk/analysis/scottish-transport-analysis-guide>

**Design Manual for Roads and
Bridges:
Alpha-Numeric Index**

ALPHA-NUMERIC INDEX

This Index lists, in alpha-numeric order, the documents in the DMRB, their references and date of issue. All information is current at February 2015.

Series

BA	Advice Notes – Bridges and Structures
BD	Standards – Bridges and Structures
BE	Technical Memoranda – Bridges
GD	Standards – General Requirements
HA	Advice Notes – Highways
HD	Standards – Highways
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Volume 14 – Economic Assessment of Road Maintenance	
Volume 15 – Economic Assessment of Road Schemes in Scotland	

Note: 1) Part Numbers: Standards and Advice Notes issued before the compilation of the DMRB do not have Part numbers. They are identified by Volume and Section and are kept at the end of the relevant Section. All Standards and Advice Notes issued from 1992 onwards have Volume, Section and Part Numbers.

STANDARDS AND ADVICE NOTES WITHDRAWN SINCE FEBRUARY 2015

Document Reference	Title	Date of Issue	Decimal Reference
	Design Manual for Roads and Bridges: Volume Contents Pages and Alpha-Numeric Index	December 2015	0.1.1
BD 54/93	Post-tensioned Concrete Bridges. Prioritisation of Special Inspections	April 1993	3.1.2
BA 43/94	Strengthening, Repair and Monitoring of Post-tensioned Concrete Bridge Decks	December 1994	3.3.2
TA 44/92	Capacities, Queues, Delays and Accidents at Road Junctions Computer Programs ARCADY/3 and PICADY/3 (TRLL)	July 1992	5.1.1
BA 50/93	Post-tensioned concrete Bridges: Planning, Organisation and Methods for Carrying Out Special Inspections	July 1993	3.1.3

STANDARDS AND ADVICE NOTES ISSUED SINCE FEBRUARY 2015

Document Reference	Title	Date of Issue	Decimal Reference
	Design Manual for Roads and Bridges: Volume Contents Pages and Alpha-Numeric Index	February 2015	0.1.1
BD 54/15	Management of Post-tensioned Concrete Bridges	February 2015	3.2.5

ADVICE NOTES – BRIDGES AND STRUCTURES (BA SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
BA 9/81	The Use of BS 5400: Part 10: 1980. Code of Practice for Fatigue Amendment No. 1	Dec 1981 Nov 1983	1.3
BA 16/97	The Assessment of Highway Bridges and Structures. Amendment No. 1 Amendment No.2	May 1997 Nov 1997 Nov 2001	3.4.4
BA 19/85	The Use of BS 5400: Part 3: 1982	Jan 1985	1.3
BA 24/87	Early Thermal Cracking of Concrete Amendment No. 1	Jul 1987 Aug 1989	1.3
BA 26/94	Expansion Joints for Use in Highway Bridge Decks	Nov 1994	2.3.7
BA 28/92	Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures	Aug 1992	1.2.2
BA 30/94	Strengthening of Concrete Highway Structures Using Externally Bonded Plates	Feb 1994	3.3.1
BA 35/90	Inspection and Repair of Concrete Highway Structures	Jun 1990	3.3
BA 36/90	The Use of Permanent Formwork	Feb 1991	2.3
BA 37/92	Priority Ranking of Existing Parapets	Oct 1992	2.3.2
BA 38/93	Assessment of the Fatigue Life of Corroded or Damaged Reinforcing Bars	Oct 1990	3.4.5
BA 39/93	Assessment of Reinforced Concrete Half-joints	Apr 1993	3.4.6
BA 40/93	Tack Welding of Reinforcing Bars	Apr 1993	1.3.4
BA 41/98	The Design and Appearance of Bridges	Feb 1998	1.3.11
BA 42/96	The Design of Integral Bridges [Incorporating Amendment No.1 dated May 2003]	Nov 1996	1.3.12
BA 44/96	Assessment of Concrete Highway Bridge and Structures	Nov 1996	3.4.15
BA 47/99	Waterproofing and Surfacing Concrete Bridge Decks	Aug 1999	2.3.5

ADVICE NOTES – BRIDGES AND STRUCTURES (BA SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
BA 51/95	The Assessment of Concrete Structures Affected by Steel Corrosion	Feb 1995	3.4.13
BA 52/94	The Assessment of Concrete Highway Structures Affected by Alkali Silica Reaction	Nov 1994	3.4.10
BA 53/94	Bracing Systems and the Use of U-Frames in Steel Highway Bridges	Dec 1994	1.3.13
BA 54/94	Load Testing for Bridge Assessment	Apr 1994	3.4.8
BA 55/06	The Assessment of Bridge Substructures and Foundations, Retaining Walls and Buried Structures	May 2006	3.4.9
BA 57/01	Design for Durability	Aug 2001	1.3.8
BA 58/94	Design of Bridges and Concrete Structures with External Unbonded Prestressing	Nov 1994	1.3.10
BA 59/94	Design of Highway Bridges for Hydraulic Action	May 1994	1.3.6
BA 67/96	Enclosure of Bridges	Aug 1996	2.2.8
BA 68/97	Crib Retaining Walls	Feb 1997	2.1.4
BA 72/03	Maintenance of Road Tunnels	May 2003	3.2.3
BA 80/99	Use of Rock Bolts	Feb 1999	2.1.7
BA 82/00	Formation of Continuity Joints in Bridge Decks	Nov 2000	2.3.7
BA 83/02	Cathodic Protection for Use in Reinforced Concrete Highway Structures	Feb 2002	3.3.3
BA 84/02	Use of Stainless Steel Reinforced in Highway Structures	Feb 2002	1.3.15
BA 85/04	Coatings for Concrete Highway Structures and Ancillary Structures	May 2004	2.4.3
BA 86/06	Advice Notes on the Non-destructive Testing of Highway Structures	Aug 2006	3.1.7
BA 87/04	Management of Corrugated Steel Buried Structures Correction No.1 Correction No.2	Aug 2004 Feb 2006 Nov 2009	3.3.4
BA 88/04	Management of Buried Concrete Box Structures	Aug 2004	3.3.5
BA 92/07	The Use of Recycled Concrete Aggregates in Structural Concrete	May 2007	2.3.9
BA 93/09	Structural Assessment of Bridges with Deck Hinges	Feb 2009	3.1.5

STANDARDS – BRIDGES AND STRUCTURES (BD SERIES)

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BD 2/12	Technical Approval of Highway Structures	May 2012	1.1.1
BD 7/01	Weathering Steel for Highway Structures	Nov 2001	2.3.8
BD 9/81	Implementation of BS 5400: Part 10: 1980. Code of Practice for Fatigue	Dec 1981	1.3
BD 10/97	Design of Highway Structures in Areas of Mining Subsidence	May 1997	1.3.14
BD 12/01	Design of Corrugated Steel Buried Structures with Spans Greater than 0.9 Metres and up to 8.0 Metres	Nov 2001	2.2.6
BD 13/06	Design of Steel Bridges. Use of BS 5400-3: 2000	May 2006	1.3.14
BD 15/92	General Principles for the Design and Construction of Bridges. Use of BS 5400: Part 1: 1988	Dec 1992	1.3.2
BD 16/82	Design of Composite Bridges. Use of BS 5400: Part 5:1979 Amendment No.1	Nov 1982 Dec 1987	1.3
BD 20/92	Bridge Bearings. Use of BS 5400: Part 9: 1983	Oct 1992	2.3.1
BD 21/01	The Assessment of Highway Bridges and Structures	May 2001	3.4.3
BD 24/92	Design of Concrete Bridges. Use of BS 5400: Part 4:1990	Nov 1992	1.3.1
BD 27/86	Materials for the Repair of Concrete Highway Structures	Nov 1986	3.3
BD 28/87	Early Thermal Cracking of Concrete Amendment No. 1	Jul 1987 Aug 1989	1.3
BD 29/04	Design Criteria for Footbridges	Aug 2004	2.2.8
BD 30/87	Backfilled Retaining Walls and Bridge Abutments	Aug 1987	2.1
BD 31/01	The Design of Buried Concrete Box and Portal Frame Structures	Nov 2001	2.2.12
BD 33/94	Expansion Joints for Use in Highway Bridge Decks	Nov 1994	2.3.6
BD 35/14	Quality Assurance Scheme for Paints and Similar Protective Coatings	Aug 2014	2.4.1
BD 36/92	Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures	Aug 1992	1.2.1
BD 37/01	Loads for Highway Bridges	Aug 2001	1.3.14

STANDARDS – BRIDGES AND STRUCTURES (BD SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
BD 41/97	Reinforced Clay Brickwork Retaining Walls of Pocket Type and Grouted Cavity type Construction Use of BS 5628: Part 2: 1995	May 1997	2.1.1
BD 42/00	Design of Embedded Retaining Walls and Bridge Abutments	May 2000	2.1.2
BD 43/03	The Impregnation of Reinforced and Prestressed Concrete Highway Structures using Hydrophobic Pore-Lining Impregnants	Feb 2003	2.4.2
BD 44/95	The Assessment of Concrete Highway Bridges and Structures	Jan 1995	3.4.14
BD 45/93	Identification Marking of Highway Structures	Aug 1993	3.1.1
BD 47/99	Waterproofing and Surfacing of Concrete Bridge Decks	Aug 1999	2.3.4
BD 48/93	The Assessment and Strengthening of Highway Bridge Supports	Jun 1993	3.4.7
BD 49/01	Design Rules for Aerodynamic Effects on Bridges	May 2001	1.3.3
BD 51/14	Portal and Cantilever Signs/Signal Gantries	May 2014	2.2.4
BD 53/95	Inspection and Records for Road Tunnels	Jul 1995	3.1.6
BD 54/15	Management of Post-tensioned Concrete Bridges	Feb 2015	3.2.5
BD 56/10	The Assessment of Steel Highway Bridges and Structures	June 2010	3.4.11
BD 57/01	Design for Durability	Aug 2001	1.3.7
BD 58/94	The Design of Concrete Highway Bridges and Structures with External and Unbonded Prestressing	Nov 1994	1.3.9
BD 60/04	Design of Highway Bridges for Vehicle Collision Loads	May 2004	1.3.5
BD 61/10	The Assessment of Composite Highway Bridges and Structures	June 2010	3.4.16
BD 62/07	As Built, Operational and Maintenance Records for Highway Structures	Feb 2007	3.2.1

STANDARDS – BRIDGES AND STRUCTURES (BD SERIES)

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BD 63/07	Inspection of Highway Structures	Feb 2007	3.1.4
BD 65/14	Design Criteria for Collision Protector Beams	Dec 2014	2.2.5
BD 67/96	Enclosure of Bridges	Aug 1996	2.2.7
BD 68/97	Crib Retaining Walls	Feb 1997	2.1.3
BD 70/03	Strengthened/Reinforced Soils and Other Fills for Retaining Walls and Bridge Abutments Use of BS8006: 1995, incorporating Amendment No.1 (Issue 2 March 1999)	May 2003	2.1.5
BD 74/00	Foundations	May 2000	2.1.8
BD 78/99	Design of Road Tunnels	Aug 1999	2.2.9
BD 79/13	The Management of Sub-standard Highway Structures	Feb 2013	3.4.18
BD 81/02	Use of Compressive Membrane Action in Bridge Decks	May 2002	3.4.20
BD 82/00	Design of Buried Rigid Pipes	Aug 2000	2.2.10
BD 84/02	Strengthening of Concrete Bridge Supports Vehicle Impact Using Fibre Reinforced Polymers	Aug 2002	1.3.16
BD 85/08	Strengthening Highway Structures Using Externally Bonded Fibre Reinforced Polymer	Nov 2008	1.3.18
BD 86/11	The Assessment of Highway Bridges and Structures For The Effects of Special Types General Order (STGO) and Special Order (SO) Vehicles	Nov 2011	3.4.19
BD 87/05	Maintenance Painting of Steelwork	May 2005	3.2.2
BD 89/03	The Conservation of Highway Structures	Nov 2003	3.2.4
BD 90/05	Design of FRP Bridges and Highway Structures	May 2005	1.3.17
BD 91/04	Unreinforced Masonry Arch Bridges	Nov 2004	2.2.14
BD 94/07	Design of Minor Structures	Feb 2007	2.2.1
BD 95/07	Treatment of Existing Structures on Highway Widening Schemes	Aug 2007	1.2.3
BD 97/12	The Assessment of Scour and Other Hydraulic Actions at Highway Structures	May 2012	3.4.21
BD 101/11	Structural Review and Assessment of Highway Structures	Nov 2011	3.4.22

TECHNICAL MEMORANDA – BRIDGES (BE SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
BE 13	Fatigue Risk in Bailey Bridges	Apr 1968	3.4
BE 23	Shear Key Decks Amendment No. 1 to Annex	Nov 1970 Jun 1971	1.3
BE 5/75	Rules for the Design and Use of Freyssinet Concrete Hinges in Highway Structures	Mar 1975	1.3
BE 7/04	Departmental Standard (Interim) Motorway Sign/Signal Gantries	Aug 2004	2.2

STANDARDS – GENERAL REQUIREMENTS (GD SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
GD 01/08	Introduction to the Design Manual for Roads and Bridges (DMRB)	May 2008	0.1.2
GD 02/08	Quality Management System for Highway Design	May 2008	0.2.1
GD 04/12	Standard for Safety Risk Assessment on the Strategic Road Network	Nov 2012	0.2.3

ADVICE NOTES – HIGHWAYS (HA SERIES)

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HA 13/81	The Planting of Trees and Shrubs	Feb 1981	5.2
HA 37/97	Hydraulic Design of Road Edge Surface Water Channels	Aug 1997	4.2
HA 39/98	Edge of Pavement Details	Aug 1998	4.2
HA 40/01	Determination of Pipe and Bedding Combinations for Drainage Works	Nov 2001	4.2.5
HA 41/90	A Permeameter for Road Drainage Layers	Apr 1990	4.2
HA 43/91	Geotechnical Considerations and Techniques for Widening Highway Earthworks	Feb 1991	4.1
HA 44/91	Design and Preparation of Contract Documents Amendment No. 1	Jun 1991 Apr 1995	4.1.1
HA 55/92	New Roads Landform and Alignment	Dec 1992	10.1.1
HA 56/92	New Roads Planting, Vegetation and Soils	Dec 1992	10.1.2
HA 57/92	New Roads Integration with Rural Landscapes	Dec 1992	10.1.3
HA 58/92	New Roads The Road Corridor Amendment No.1	Dec 1992 Feb 1997	10.1.4
HA 59/92	Mitigating Against Effects on Badgers	Feb 1997	10.4.2
HA 60/92	New Roads Heritage	Dec 1992	10.1.5
HA 63/92	Improving Existing Roads Improvement Techniques	Dec 1992	10.2.2
HA 65/94	Design Guide for Environmental Barriers	Jul 1994	10.5.1
HA 66/95	Environmental Barriers Technical Requirements	Sep 1995	10.5.2
HA 67/93	The Wildflower Handbook	Jun 1993	10.3.1
HA 68/94	Design Methods for the Reinforcement of Highway Slopes by Reinforced Soil and Soil Nailing Techniques	Feb 1994	4.1.4
HA 70/94	Construction of Highway Earthworks	Dec 1994	4.1.5
HA 73/95	Site Investigation for Highway Works on Contaminated Land	May 1995	4.1.7
HA 74/07	Treatment of Fill and Capping Materials Using Either Lime or Cement or Both	May 2007	4.1.6
HA 75/01	Trunk Roads and Archaeological Mitigation	Feb 2001	10.6.1
HA 78/96	Design of Outfalls for Surface Water Channels	Jan 1996	4.2.2
HA 79/97	Edge of Pavement Details for Porous Asphalt Surface Cones	Feb 1997	4.2.4

ADVICE NOTES – HIGHWAYS (HA SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
HA 80/99	Nature Conservation Advice in Relation to Bats	May 1999	10.4.3
HA 81/99	Nature Conservation Advice in Relation to Otters	May 1999	10.4.4
HA 83/99	Safety Aspects of Road Edge Drainage Features	Nov 1999	4.2.4
HA 84/01 (1)	Nature Conservation and Biodiversity	Feb 2001	10.4.1
HA 85/01	Road Improvement within Limited Land Take	Feb 2001	10.2.1
HA 86/01	Principles and Guidance	Feb 2001	10.0.1
HA 87/01	Environmental Functions	Feb 2001	10.0.2
HA 88/01	Landscape Elements	Feb 2001	10.0.3
HA 89/01	Environmental Elements	Feb 2001	10.0.4
HA 90/01	Planning and Policy Features	Feb 2001	10.0.5
HA 91/01	Environmental Database System	Feb 2001	10.0.6
HA 92/01	Scheme Development, Implementation and Management	Feb 2001	10.0.7
HA 93/01	Contract Performance Requirements	Feb 2001	10.0.8
HA 94/01	Glossary of Terms	Feb 2001	10.0.9
HA 97/01	Nature Conservation Management Advice in Relation to Dormice	Feb 2001	10.4.5
HA 98/01	Nature Conservation Management Advice in Relation to Amphibians	Feb 2001	10.4.6
HA 99/01	Policy and Guidance	Feb 2001	10.7.1
HA 102/00	Spacing of Road Gullies	Nov 2000	4.2.3
HA 103/06	Vegetative Treatment Systems for Highway Runoff	May 2006	4.2.1
HA 104/09	Chamber Tops and Gully Tops for Road Drainage and Services: Installation and Maintenance	Nov 2009	4.2.5
HA 105/04	Sumpleless Gullies	Feb 2004	4.2.3
HA 106/04	Drainage of Runoff from Natural Catchments	Feb 2004	4.2.1
HA 107/04	Design of Outfall and Culvert Details	Nov 2004	4.2.7
HA 108/04	The Landscape Management Handbook	Nov 2004	10.3.2
HA 113/05	Combined Channel and Pipe System for Surface Water Drainage	Feb 2005	4.2.6

(1) Supersedes the section in HA59/92 (Nature Conservation). Mitigating Against Effects on Badgers is extant in 10.4.2

ADVICE NOTES – HIGHWAYS (HA SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
HA 115/05	The Establishment of An Herbaceous Plant Layer In Roadside Woodland	Feb 2005	10.3.3
HA 116/05	Nature Conservation Advice in Relation to Reptiles and Roads	May 2005	10.4.7
HA 117/08	Cultural Heritage Asset Management Plans	Aug 2008	10.6.2
HA 118/06	Design of Soakaways	May 2006	4.2.8
HA 119/06	Grassed Surface Water Channels for Highway Runoff	May 2006	4.2.9
HA 120/08	Guidance on the Trenchless Installation of Services Beneath Motorways and Trunk Roads	Aug 2008	4.1.8
HA 200/08	Aims and Objectives of Environmental Assessment Correction No. 1	Aug 2008 Aug 2009	11.1.1
HA 201/08	General Principles and Guidance of Environmental Impact Assessment	Aug 2008	11.2.1
HA 202/08	Environmental Impact Assessment	Aug 2008	11.2.2
HA 204/08	Scoping of Environmental Impact Assessments	Aug 2008	11.2.4
HA 205/08	Assessment and Management of Environmental Effects	Aug 2008	11.2.5
HA 207/07	Air Quality	May 2007	11.3.1
HA 208/07	Cultural Heritage	Aug 2007	11.3.2
HA 217/08	Alternative Filter Media and Stabilisation Techniques for Combined Surface and Sub-Surface Drains	Aug 2008	4.2.4
HA 218/08	Glossary of Terms Used in The Design Manual for Roads and Bridges Volume 11 Sections 1 and 2	Aug 2008	11.2.7
HA 219/09	Determination of Pipe Roughness and Assessment of Sediment Deposition to Aid Pipeline Design	Nov 2009	4.2.4

STANDARDS – HIGHWAYS (HD SERIES)

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HD 19/03	Road Safety Audits	Nov 2003	5.2.2
HD 20/05	Detector Loops for Motorways	Nov 2005	9.3.1
HD 22/08	Managing Geotechnical Risk	Aug 2008	4.1.2
HD 23/99	General Information	Feb 1999	7.1.1
HD 24/06	Traffic Assessment Correction No.1	Feb 2006 Nov 2006	7.2.1
HD 26/06	Pavement Design	Feb 2006	7.2.3
HD 27/04	Pavement Construction Methods	Feb 2004	7.2.4
HD 28/04	Skidding Resistance	Aug 2004	7.3.1
HD 29/08	Data for Pavement Assessment	May 2008	7.3.2
HD 30/08	Maintenance Assessment Procedure	May 2008	7.3.3
HD 31/94	Maintenance of Bituminous Roads Amendment No. 1 Amendment No. 2	Jan 1994 Mar 1995 Feb 1998	7.4.1
HD 32/94	Maintenance of Concrete Roads	Jan 1994	7.4.2
HD 33/06	Surface and Sub-surface Drainage Systems for Highways	May 2006	4.2.3
HD 35/04	Conservation and The Use of Secondary and Recycled Materials	Nov 2004	7.1.2
HD 36/06	Surfacing Materials for New and Maintenance Construction	Nov 2006	7.5.1
HD 37/99	Bituminous Surfacing Materials and Techniques Amendment No.1	Feb 1999 May 1999	7.5.2
HD 38/97	Concrete Surfacing and Materials Amendment No.1	Aug 1997 Feb 1999	7.5.3
HD 39/01	Footway Design	May 2001	7.2.5
HD 40/01	Footway Maintenance	May 2001	7.4.3
HD 41/03	Maintenance of Highway Geotechnical Assets	Feb 2003	4.1.3
HD 42/05	Non-Motorised User Audits	Feb 2005	5.2.5
HD 43/04	Drainage Data Management System for Highways	Nov 2004	4.2.4
HD 44/09	Assessment of Implications (of Highways and/or Roads Projects) on European Sites (Including Appropriate Assessment)	Feb 2009	11.4.1

STANDARDS – HIGHWAYS (HD SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
HD 45/09	Road Drainage and the Water Environment	Nov 2009	11.3.10
HD 47/08	Screening of Projects for Environmental Impact Assessment	Aug 2008	11.2.3
HD 48/08	Reporting of Environmental Impact Assessments	Aug 2008	11.2.6
HD 213/11	Noise and Vibration Revision 1	Feb 2011 Nov 2011	11.3.7

SCOTTISH TECHNICAL MEMORANDA – HIGHWAYS (SH SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
SH 6/73	Criteria for Traffic Light Signals at Junctions	Jul 1973	8.1
SH 5/77	Implementation of Bus Priorities	May 1977	8.2
SH 7/83	Specification for Road and Bridge Works Soil Suitability for Earthworking Use of the Moisture Condition Apparatus Amendment No. 1	Dec 1983 Feb 1989	4.1
SH 3/84	Model Contract Document for Topographical Surveys	Oct 1984	4.1
SH 4/86	Scottish Routine Maintenance Management System	May 1986	7.4
SH 5/88	Damage to Bridges by Road Vehicles Traffic Signs at Bridges	Nov 1988	8.2
SH 4/89	Geotechnical Certification Procedures: Trunk Road Ground Investigations Amendment No. 1	Oct 1989 Mar 1990	4.1
SH 5/89	Topographical Surveys – Certification Procedures Amendment No. 1	1989 Nov 1989	4.1
SH 4/91	Lane Rental	Feb 1991	5.1.4
SH 1/97	The Traffic and Economic Assessment of Road Schemes in Scotland	May 1997	5.1.4

ADVICE NOTES – TRAFFIC ENGINEERING AND CONTROL (TA SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
TA 11/09	Traffic Surveys by Roadside Interview	Nov 2009	5.1.4
TA 12/07	Traffic Signals on High Speed Roads	May 2007	8.1.1
TA 15/07	Pedestrian Facilities at Traffic Signal Installations	May 2007	8.1.1
TA 16/07	General Principles of Control by Traffic Signals	May 2007	8.1.1
TA 19/81	Reflectorisation of Traffic Signs	Sep 1981	8.2
TA 22/81	Vehicle Speed Measurement on All-Purpose Roads	Nov 1981	5.1
TA 23/81	Junctions and Accesses Determination of Size of Roundabouts and Major/Minor Junctions	Dec 1981	6.2
TA 30/82	Choice Between Options for Trunk Road Schemes	Jul 1982	5.1
TA 46/97	Traffic Flows Ranges for Use in the Assessment of New Rural Roads	Feb 1997	5.1.3
TA 49/07	Appraisal of New and Replacement Lighting on the Strategic Motorway and All Purpose Trunk Road Network	Aug 2007	8.3
TA 56/87	Hazardous Cattle Crossings: Use of Flashing Amber Lamps	Nov 1987	8.2
TA 57/87	Roadside Features [Chapters 2 and 3 are superseded by TD 69/07]	Jan 1989	6.3
TA 58/92	Traffic Signs and Road Markings for Lane Gains and Lane Drops on All Purpose Dual Carriageways and Motorway Trunk Roads	Jun 1992	8.2.1
TA 60/90	The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads	Aug 1990	8.2
TA 61/94	Currency of the Traffic Signs Manual	Feb 1994	8.2.2
TA 64/94	Narrow Lanes and Tidal Flow Operations at Roadworks on Motorways and Dual Carriageway Trunk Roads with Full Width Hard Shoulders	Apr 1994	8.4.3
TA 66/95	Police Observation Platforms on Motorways	Jan 1995	6.3.2
TA 68/96	The Assessment and Design of Pedestrian Crossings	Nov 1996	8.5.1

ADVICE NOTES – TRAFFIC ENGINEERING AND CONTROL (TA SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
*TA 70/97	Motorways. Introduction	Feb 1997	9.2.1
*TA 71/97	Motorways. Overview	Feb 1997	9.3.1
*TA 72/97	National Motorway Communications Systems (NMCS)	Feb 1997	9.4.1
*TA 73/97	Motorway Emergency Telephones	Feb 1997	9.4.2
*TA 74/05	Motorway Signalling	Nov 2005	9.4.3
*TA 75/97	Motorway Transmission Design	Feb 1997	9.4.4
*TA 76/97	Motorway Control Offices	Feb 1997	9.4.5
*TA 77/97	Motorways	May 1997	9.5.1
TA 78/97	Design of Road Markings at Roundabouts	Nov 1997	6.2.3
TA 79/99	Traffic Capacity of Urban Roads Amendment No.1	Feb 1999 May 1999	5.1.3
TA 80/99	Surface Drainage of Wide Carriageways	Feb 1999	4.2.2
TA 81/99	Coloured Surfacing in Road Layout (Excluding Traffic Calming)	Feb 1999	6.3.4
TA 82/99	The Installation of Traffic Signals and Associated Equipment	May 1999	8.1.1
TA 83/05	Guide to the Use of Variable Message Signs for Strategic Traffic Management on Trunk Roads and Trunk Road Motorways	Nov 2005	9.4.6
TA 84/06	Code of Practice for Traffic Control and Information Systems for All-Purpose Roads [Incorporates Correction dated Feb 2007]	May 2006	8.1.2
TA 85/01	Guidance on Minor Improvements to Existing Roads	Nov 2001	6.1.3
TA 86/03	Layout of Large Signal Controlled Junctions	Feb 2003	6.2.8
TA 87/04	Trunk Road Traffic Calming	Feb 2004	6.3.5
TA 90/05	The Geometric Design of Pedestrian, Cycle and Equestrian Routes	Feb 2005	6.3.5
TA 91/05	Provision for Non-Motorised Users	Feb 2005	5.2.4
TA 92/03	Crossover and Changeover Design	Nov 2003	8.4.6

ADVICE NOTES – TRAFFIC ENGINEERING AND CONTROL (TA SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
TA 93/04	Traffic Signs to Tourist Attractions and Facilities in England: Guidance for Tourist Signing – General Introduction	Feb 2004	8.2.3
TA 94/04	Traffic Signs to Tourist Attractions and Facilities in England: Guidance for Tourist Signing – Local Roads	Feb 2004	8.2.5
TA 98/08	The Layout of Toll Plazas	Feb 2008	6.3.6

*TA 70/97 to TA 73/97 and TA 75/97 to TA 76/97 include Annex A, which is specific to England

TA 74/05 includes Annex A, which is specific to England and Northern Ireland

TA 77/97 includes Annex A, which is specific to England, Annex C which is specific to Wales and Annex D which is specific to Northern Ireland

STANDARDS – TRAFFIC ENGINEERING AND CONTROL (TD SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
TD 7/07	Statutory Approval of Traffic Control Equipment	May 2007	8.1.1
TD 9/93	Highway Link Design Amendment No.1	Jun 1993 Feb 2002	6.1.1
TD 11/82	Use of Certain Departmental Standards in the Design and Assessment of Trunk Road Schemes	Jul 1982	5.1
TD 16/07	Geometric Design of Roundabouts	Aug 2007	6.2.3
TD 17/85	Criteria for the Provision of Closed Circuit. Television on Motorways	May 1985	9.3
TD 18/85	Criteria for the Use of Gantries for Traffic Signs and Matrix Traffic Signals on Trunk Roads and Trunk Road Motorways	Jul 1985	9.1
TD 19/06	Requirement for Road Restraint Systems Correction No.1	Aug 2006 Feb 2008	2.2.8
TD 22/06	Layout of Grade Separated Junctions	Feb 2006	6.2.1
TD 23/99	Trunk Roads and Trunk Road Motorways Inspection and Maintenance of Road Lighting	Nov 1999	8.3
TD 24/97	All-Purpose Trunk Roads Inspection and Maintenance of Traffic Signals and Associated Equipment	Aug 1997	8.1
TD 25/01	Inspection and Maintenance of Traffic Signs on Motorway and All-Purpose Trunk Roads	Feb 2001	8.2.2
TD 26/07	Inspection and Maintenance of Road Markings and Road Studs on Motorways and All Purpose Trunk Roads	May 2007	8.2.2
TD 27/05	Cross-Sections and Headrooms	Feb 2005	6.1.2
TD 33/05	The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads	Nov 2005	8.2.2
TD 34/07	Design of Road Lighting for the Strategic Motorway and All Purpose Trunk Road Network	Aug 2007	8.3
TD 35/06	All Purpose Trunk Roads MOVA System of Traffic Control at Signals	May 2006	8.1.1
TD 36/93	Subways for Pedestrians and Pedal Cyclists Layout and Dimensions	July 1993	6.3.1
TD 37/93	Scheme Assessment Reporting	Aug 1993	5.1.2
TD 39/94	The Design of Major Interchanges	Apr 1994	6.2.4
TD 40/94	The Layout of Compact Grade Separated Junctions	July 1994	6.2.5

STANDARDS - TRAFFIC ENGINEERING AND CONTROL (TD SERIES)

Document Reference	Title	Date of Issue	Decimal Reference
TD 41/95	Vehicular Access to All Purpose Trunk Roads	Mar 1995	6.2.7
TD 42/95	Geometric design of Major/Minor Priority Junctions	Jan 1995	6.2.6
TD 45/94	Motorway Incident Detection and Automatic Signalling (MIDAS)	Dec 1994	9.1.2
TD 46/05	Motorway Signalling	Nov 2005	9.1.1
TD 49/07	Requirements for Lorry Mounted Crash Cushions	Nov 2007	8.4.7
TD 50/04	The Geometric Layout of Signal-Controlled Junctions and Signalised Roundabouts	Nov 2004	6.2.3
TD 51/03	Segregated Left Turn Lanes and Subsidiary Deflection Islands at Roundabouts	Nov 2003	6.3.5
TD 52/04	Traffic Signs to Tourist Attractions and Facilities in England: Tourist Signing – Trunk Roads	Feb 2004	8.2.4
TD 53/05	Traffic Signs to Retail Destinations and Exhibition Centres in England and Wales – Trunk Roads	Feb 2005	8.2.6
TD 54/07	Design of Mini Roundabouts	Aug 2007	6.2.2
TD 69/07	The Location and Layout of Lay-Bys and Rest Areas	Nov 2007	6.3.3
TD 70/08	Design of Wide Single 2+1 Roads	Aug 2008	6.1.4
TD 89/08	Use of Passively Safe Signposts, Lighting Columns and Traffic Signal Posts to BS EN 12767	May 2008	8.2.2

OTHER DOCUMENTS IN THE DMRB

Document Reference	Title	Date of Issue	Decimal Reference
Volume 11	Environmental Assessment Amended	Jun 1993 Aug 1994	Volume 11
	Land Use Amendment No. 1	Jun 1993 Aug 2001	11.3.6
Volume 12	The Traffic Appraisal Manual (TAM)	Aug 1991	12.1.1
	The Application of Traffic Appraisal to Road Schemes Amendment No. 1	May 1996 Nov 1997	12.1.1
	Traffic Appraisal in Urban Areas	May 1996	12.2.1
	The National Trip End Model	Nov 1997	12.2.3

SCOTTISH ADDENDA

A set of Scottish Addenda to the following Departmental Standards and Advice Notes is published separately and is available from The Stationery Office Ltd:

BA 34/90	TA 19/81	TD 11/82
	TA 23/81	TD 18/85
BD 34/90	TA 30/82	TD 23/86
	TA 46/85	TD 25/86
BE 5/75	TA 49/86	TD 30/87
	TA 57/87	TD 34/91
HA 44/91	TA 83/99	
	TA 83/99 Amendment No.1	

ADDITIONAL CURRENT SCOTTISH OFFICE MEMORANDA NOT CONTAINED IN THE DMRB

Additional Current Scottish Office Technical Memoranda is published separately and is available from The Stationery Office Ltd:

SH 6/75	Certification of Highway Design Construction Standards [Incorporating Amendment No. 2 dated February 1987]
SH 3/76	Use of Salt in removing Ice and Snow from Roads
SH 10/82	Scottish Housing Handbook: Part 3
SH 11/82	Health and Safety at Work etc Act 1974. Short Duration Stops on Trunk Roads (including Motorways for Inspection Purposes - Traffic Hazards)
SH 3/91	Trunk Roads Schemes Under Construction - Display Signs

WELSH ADDENDA

A set of Welsh Addenda to the following Departmental Advice Notes is published separately and is available from The Stationery Office Ltd:

TA 70/97

TA 71/97

TA 72/97

TA 73/97

TA 74/05

TA 75/97

TA 76/97

TA 77/97

TA 83/05

NORTHERN IRELAND ADDENDA

A set of Northern Ireland Addenda to the following Departmental Standards and Advice Notes is published separately

and is available from The Stationery Office Ltd:

BA 34/90		TD 17/85
BA 35/90	TA 12/81	TD 18/85
	TA 15/81	TD 25/05
BD 34/90	TA 16/81	TD 26/05
	TA 19/81	TD 33/05
BE 7/04	TA 56/87	
	TA 57/87	
HA 13/81	TA 60/90	
HA 44/91	TA 83/05	