

Design Manual for Roads and Bridges



General Principles and Scheme Governance
General information

Pathfinder Transition document

(formerly None)

Revision 0

Summary

Compiled to assist users in transitioning to new document referencing system

Application by Overseeing Organisations

Any specific requirements for Overseeing Organisations alternative or supplementary to those given in this document are given in National Application Annexes to this document.

Feedback and Enquiries

Users of this document are encouraged to raise any enquiries and/or provide feedback on the content and usage of this document to the dedicated Highways England team. The email address for all enquiries and feedback is: Standards_Enquiries@highwaysengland.co.uk

This is a controlled document.

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Release notes

Version	Date	Details of amendments
0	Feb 2020	Provides a lookup between old and new referencing system

Foreword

Publishing information

This document is published by Highways England.

Introduction

Background

The DMRB has transitioned from a alphanumeric referencing system to a lifecycle / discipline based referencing system. This document has been compiled to assist users in transitioning to the new document referencing system by providing a look up list relating old alpha numeric system to the new lifecycle system.

1. Scope

Aspects covered

- 1.1 This document has been compiled to assist users in transitioning to the new document referencing system, by providing a look up list relating old alpha numeric system to the new lifecycle system.
- 1.2 This document does not form part of the DMRB and is provided for information only.

Implementation

- 1.3 This document does not form part of the works specification. It does not purport to include all the necessary provisions of a contract. Users are responsible for applying all appropriate documents applicable to their contract.

2. Alphanumeric to lifecycle look up

2.1 This section lists old documents and their new equivalents.

Table 2.1a Bridges Advice

Old Reference	Title	New Reference	Title
BA 09	The Use of BS 5400 Part 10: 1980 - Code of Practice for Fatigue	NIL	Document withdrawn without replacement.
BA 16	The Assessment of Highway Bridges and Structures	CS 454	Assessment of highway bridges and structures
BA 19	The Use of BS 5400: Part 3: 1982	NIL	Document withdrawn without replacement.
BA 26	Expansion Joints for Use in Highway Bridge Decks	CD 357	Bridge expansion joints
BA 28	Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures	CD 355	Application of whole-life costs for design and maintenance of highway structures
BA 35	Inspection And Repair of Concrete Highway Structures	CD 462	Repair and management of deteriorated concrete highway structures
BA 36	The Use of Permanent Formwork	CD 359	Design requirements for permanent soffit formwork
BA 37	Priority Ranking of Existing Parapets	CS 461	Assessment and upgrading of in-service parapets
BA 38	Assessment of the Fatigue Life of Corroded or Damaged Reinforcing Bars	CS 455	The assessment of concrete highway bridges and structures
BA 39	Assessment of Reinforced Concrete Half-joints	CS 466	Risk management and structural assessment of concrete half-joint deck structures
BA 40	Tack Welding of Reinforcing Bars	CS 455	The assessment of concrete highway bridges and structures
BA 41	The Design and Appearance of Bridges	CD 351	The design and appearance of highway structures
BA 42	The Design of Integral Bridges	NIL	Document withdrawn without replacement.
BA 47	Waterproofing and Surfacing Concrete Bridge Decks	CD 358	Waterproofing and surfacing of concrete bridge decks
BA 51	The Assessment of Concrete Structures Affected by Steel Corrosion	CS 455	The assessment of concrete highway bridges and structures
BA 52	The Assessment of Concrete Structures Affected by Alkali Silica Reaction	CS 462 CS 455	Repair and management of deteriorated concrete highway structures The assessment of concrete highway bridges and structures
BA 53	Bracing Systems and the Use of U-Frames in Steel Highway Bridges	NIL	Document withdrawn without replacement.
BA 54	Load Testing for Bridge Assessment	CS 463	Load testing for bridge assessment
BA 57	Design for Durability	CD 350	The design of highway structures

Table 2.1a Bridges Advice (continued)

BA 58	Design of Bridges and Concrete Structures with External and Unbonded Prestressing	NIL	Document withdrawn without replacement.
BA 59	Design of Highway Bridges for Hydraulic Action	CD 356	Design of highway structures for hydraulic action
BA 67	Enclosure of Bridges	CD 362	Enclosure of bridges
BA 72	Maintenance of Road Tunnels	CM 430	Maintenance of road tunnels
BA 82	Formation of Continuity Joints in Bridge Decks	CD 364	Formation of continuity joints in bridge decks
BA 83	Cathodic Protection for Use in Reinforced Concrete Highway Structures	CD 370	Cathodic protection for use in reinforced concrete structures
BA 85	Coatings for Concrete Highway Structures and Ancillary Structures	CD 369	Surface protection for concrete highway structures
BA 86	Advice Notes on the Non-destructive Testing of Highway Structures	CS 464	Non-destructive testing of highways structures
BA 87	Management of Corrugated Steel Buried Structures	CS 460	Management of corrugated steel buried structures
BA 88	Management of buried concrete box structures	CS 432 CM 432	Inspection of buried concrete box structures; Maintenance of buried concrete box structures
BA 92	The Use of Recycled Concrete Aggregates in Structural Concrete	CD 374	The use of recycled aggregates in structural concrete
BA 93	Structural Assessment of Bridges with Deck Hinges	CS 467	Risk management and structural assessment of concrete deck hinge structures

Table 2.1b Bridges requirements

Old Reference	Title	New Reference	Title
BD 12	Design of Corrugated Steel Buried Structures with Spans Greater than 0.9 Metres and up to 8.0 Metres	CD 375	Design of corrugated steel buried structures
BD 13	Design of Steel Bridges. Use of BS 5400-3:2000	NIL	Document withdrawn without replacement.
BD 15	General Principles for the Design and Construction of Bridges. Use of BS 5400: Part 1: 1988	NIL	Document withdrawn without replacement.
BD 20	Bridge Bearings. Use of BS 5400: Part 9: 1983	NIL	Document withdrawn without replacement.
BD 21	The Assessment of Highway Bridges and Structures	CS 454	Assessment of highway bridges and structures
BD 27	Materials for the Repair of Concrete Highway Structures	NIL	Document withdrawn without replacement.
BD 29	Design Criteria for Footbridges	CD 353	Design criteria for footbridges
BD 30	Backfilled Retaining Walls and Bridge Abutments	NIL	Document withdrawn without replacement.
BD 31	The Design of Buried Concrete Box and Portal Frame Structures	NIL	Document withdrawn without replacement.
BD 33	Expansion Joints for Use in Highway Bridge Decks	CD 357	Bridge expansion joints
BD 35	Quality Assurance Scheme for Paints and Similar Protective Coatings	CG 303	Quality assurance scheme for paints and similar protective coatings
BD 36	Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures	CD 355	Application of whole-life costs for design and maintenance of highway structures
BD 37	Loads for Highway Bridges	CS 454	Assessment of highway bridges and structures
BD 42	Design of embedded retaining walls and bridge abutments	NIL	Document withdrawn without replacement.
BD 43	The Impregnation of Reinforced and Prestressed Concrete Highway Structures using Hydrophobic Pore-Lining Impregnants	CD 373	Impregnation of reinforced and prestressed concrete highway structures using hydrophobic pore-lining impregnants
BD 44	The Assessment of Concrete Highway Bridges and Structures	CS 455	The assessment of concrete highway bridges and structures
BD 45	Identification Marking of Highway Structures	CG 305	Identification marking of highway structures
BD 47	Waterproofing and Surfacing of Concrete Bridge Decks	CD 358	Waterproofing and surfacing of concrete bridge decks
BD 48	The Assessment and Strengthening of Highway Bridge Supports	CS 453	The assessment of highway bridge supports

Table 2.1b Bridges requirements (continued)

BD 49	Design Rules for Aerodynamic Effects on Bridges	CD 363	Design rules for aerodynamic effects on bridges
BD 51	Portal and Cantilever Signs/Signal Gantries	CD 365	Portal and cantilever signs/signals gantries
BD 53	Inspection and Records for Road Tunnels	CS 452	Inspection and records for road tunnel systems
BD 54	Management of Post-Tensioned Concrete Bridges	CS 465	Management of post-tensioned concrete bridges
BD 56	The Assessment of Steel Highway Bridges and Structures	CS 456	The assessment of steel highway bridges and structures
BD 57	Design for Durability	CD 350	The design of highway structures
BD 58	Design of Bridges and Concrete Structures with External and Unbonded Prestressing	NIL	Document withdrawn without replacement.
BD 60	Design of Highway Bridges for Vehicle Collision Loads	CS 453	The assessment of highway bridge supports
BD 62	As Built, Operational and Maintenance Records for Highway Structures	CG 302	As-built, operational and maintenance records for highway structures
BD 63	Inspection of Highway Structures	CS 450	Inspection of highway structures
BD 65	Design Criteria for Collision Protection Beams	CD 366	Design criteria for collision protection beams
BD 67	Enclosure of Bridges	CD 362	Enclosure of bridges
BD 68	Highway structures: Design (substructures and special structures) material. Substructures. Crib retaining walls	NIL	Document withdrawn without replacement.
BD 70	Strengthened/Reinforced Soils and other Fills for Retaining Walls and Bridge Abutments	NIL	Document withdrawn without replacement.
BD 74	Foundations	NIL	Document withdrawn without replacement.
BD 78	Design of Tunnels	CD 352	Design of road tunnels
BD 79	The Management of Sub-standard Highway Structures	CS 470	Management of sub-standard highway structures
BD 82	Design of Buried Rigid Pipes	NIL	Document withdrawn without replacement.
BD 84	Strengthening of Concrete Bridge Supports for Vehicle Impact Using Fibre Reinforced Polymers	CD 371	Strengthening highway structures using fibre-reinforced polymers and externally bonded steel plates
BD 85	Strengthening Highway Structures Using Externally Bonded Fibre Reinforced Polymer	CD 371	Strengthening highway structures using fibre-reinforced polymers and externally bonded steel plates
BD 86	The Assessment of Highway Bridges and Structures For The Effects of Special Types General Order (STGO) and Special Order (SO) Vehicles	CS 458	The assessment of highway bridges and structures for the effects of special type general order (STGO) and special order (SO) vehicles

Table 2.1b Bridges requirements (continued)

BD 87	Maintenance Painting of Steelwork	CM 431	Maintenance painting of steelwork
BD 89	The Conservation of Highway Structures	CG 304	Conservation of highway structures
BD 90	Design of FRP Bridges and Highway Structures	CD 368	Design of fibre reinforced polymer bridges and highway structures
BD 91	Unreinforced Masonry Arch Bridges	CD 376	Unreinforced masonry arch bridges
BD 95	Treatment of Existing Structures on Highway Widening Schemes	CD 367	Treatment of existing structures on highways widening schemes
BD 97	The Assessment of Scour and other Hydraulic Actions at Highway Structures	CS 469	Inspection and assessment of scour and other hydraulic actions at structures
BD 100	The use of Eurocodes for the design of highway structures	CD 350	The design of highway structures
BD 101	Structural Review and Assessment of Highway Structures	CS 451	Structural review and assessment of highway structures

Table 2.1c Bridge engineering requirements

Old Reference	Title	New Reference	Title
BE 05	Rules for the Design and Use of Freyssinet Concrete Hinges in Highway Structures	CS 468	Assessment of Freyssinet concrete hinges in highway structures
BE 07	Departmental Standard (Interim) Motorway Sign/Signal Gantries	CD 365	Portal and cantilever signs/signals gantries
BE 13	Fatigue Risk in Bailey Bridges	NIL	Document withdrawn without replacement.

Table 2.1d Volumes 10 & 11 without alphanumeric references

Old Reference	Title	New Reference	Title
DMRB V10.4	Nature Conservation	LA 118	Biodiversity design
DMRB V11	Environmental Assessment	LA 101	Introduction to environmental assessment
DMRB V11.3.12	Impact of Road Schemes on Policies and Plans	NIL	Document withdrawn without replacement.
DMRB V11.3.3	Disruption Due to Construction	NIL	Document withdrawn without replacement.
DMRB V11.3.4	Ecology and Nature Conservation	LA 108	Biodiversity
DMRB V11.3.5	Landscape Effects	LA 117	Landscape design
DMRB V11.3.6	Land Use	LA 109	Geology and soils
DMRB V11.3.8	Pedestrians, Cyclists, Equestrians and Community Effects	LA 112	Population and human health
DMRB V11.3.9	Vehicle Travellers	LA 112	Population and human health
DMRB V12.1.1	The Application of Traffic Appraisal to Trunk Road Schemes	WebTAG	Transport Analysis Guidance
DMRB V12.2.1	Traffic Appraisal in Urban Areas	WebTAG	Transport Analysis Guidance
DMRB V12.2.2	Induced Traffic Appraisal	WebTAG	Transport Analysis Guidance
DMRB V12.2.3	The National Trip End Model	National Trip End Model	DfT - National Trip End Model

Table 2.1e General requirements

Old Reference	Title	New Reference	Title
GD 01	Introduction to the Design Manual for Roads and Bridges (DMRB)	GG 101	Introduction to the Design Manual for Roads and Bridges
GD 02	Quality Management Systems for Highway Design	GG 102	Quality management systems for highway works
GD 04	Standard for Safety Risk Assessment on the Strategic Road Network	GG 104	Requirements for safety risk assessment
GD 05	Asbestos Management in Trunk Road Assets	GG 105	Asbestos management

Table 2.1f Highway advice

Old Reference	Title	New Reference	Title
HA 13	The Planting of Trees and Shrubs	LA 117	Landscape design
HA 37	Hydraulic Design of Road-Edge Surface Water Channels	CD 521	Hydraulic design of road edge surface water channels and outlets
HA 39	Edge of Pavement Details	CD 524	Edge of pavement details
HA 40	Determination of Pipe and Bedding Combinations for Drainage Works	CD 533	Determination of pipe and bedding combinations for drainage works
HA 41	A Permeameter for Road Drainage Layers	NIL	Document withdrawn without replacement.
HA 44	Design and Preparation of Contract Documents	NIL	Document withdrawn without replacement.
HA 55	New Roads Landform and Alignment	LA 117	Landscape design
HA 56	New Roads Planting, Vegetation and Soils	LA 117	Landscape design
HA 57	New Roads Integration with Rural Landscapes	LA 117	Landscape design
HA 58	New Roads The Road Corridor	LA 117	Landscape design
HA 59	Mitigating Against Effects on Badgers	LA 118	Biodiversity design
HA 60	New Roads Heritage	LA 117 LA 106	Landscape design; Cultural heritage assessment
HA 63	Improving Existing Roads Improvement Techniques	LA 117	Landscape design
HA 65	Design Guide for Environmental Barriers	LA 119	Roadside environmental mitigation and enhancement
HA 66	Environmental Barriers Technical Requirements	LA 119	Roadside environmental mitigation and enhancement
HA 67	The Wildflower Handbook	LA 118	Biodiversity design
HA 70	Construction of Highway Earthworks	NIL	Document withdrawn without replacement.
HA 74	Treatment of Fill and Capping Materials Using Either Lime or Cement or Both	NIL	Document withdrawn without replacement.
HA 75	Trunk Roads and Archaeological Mitigation	LA 106	Cultural heritage assessment
HA 78	Design of Outfalls for Surface Water Channels	CD 521	Hydraulic design of road edge surface water channels and outlets
HA 79	Edge of Pavement Details for Porous Asphalt Surface Courses	NIL	Document withdrawn without replacement.
HA 80	Nature Conservation Advice in Relation to Bats	LA 118	Biodiversity design

Table 2.1f Highway advice (continued)

HA 81	Nature Conservation Advice in Relation to Otters	LA 118	Biodiversity design
HA 83	Safety Aspects of Road Edge Drainage Features	CD 524	Edge of pavement details
HA 84	Nature Conservation and Biodiversity	LA 118	Biodiversity design
HA 85	Road Improvement within Limited Land Take	LA 117	Landscape design
HA 86	Principles and Guidance	NIL	Document withdrawn without replacement.
HA 87	Environmental Functions	LA 117	Landscape design
HA 88	Landscape Elements	LA 117	Landscape design
HA 89	Environmental Elements	LA 117	Landscape design
HA 90	Planning and Policy Features	NIL	Document withdrawn without replacement.
HA 91	Environmental Database System	ADMM	Asset Data Management Manual
HA 92	Scheme Development, Implementation and Management	LA 117	Landscape design
HA 93	Contract Performance Requirements	NIL	Document withdrawn without replacement.
HA 94	Glossary of Terms	NIL	Document withdrawn without replacement.
HA 97	Nature Conservation Management Advice in Relation to Dormice	LA 118	Biodiversity design
HA 98	Nature Conservation Management Advice in Relation to Amphibians	LA 118	Biodiversity design
HA 99	Policy and Guidance	NIL	Document withdrawn without replacement.

Table 2.1g Highway Advice

Old Reference	Title	New Reference	Title
HA 102	Spacing of Road Gullies	CD 526	Spacing of road gullies
HA 103	Vegetative Treatment Systems for Highway Runoff	CD 532	Vegetated drainage systems for highway runoff
HA 104	Chamber Tops and Gully Tops for Road Drainage and Services: Installation and Maintenance	CD 534	Chamber tops and gully tops for road drainage and services
HA 105	Sumpless Gullies	CD 527	Sumpless gullies
HA 106	Drainage of Runoff from Natural Catchments	CD 522	Drainage of runoff from natural catchments
HA 107	Design of Outfall and Culvert Details	CD 529	Design of outfall and culvert details
HA 108	The Landscape Management Handbook	LA 117	Landscape design
HA 113	Combined Channel and Pipe System for Surface Water Drainage	CD 521	Hydraulic design of road edge surface water channels and outlets
HA 115	The Establishment of An Herbaceous Plant Layer In Roadside Woodland	LA 117	Landscape design
HA 116	Nature Conservation Advice in Relation to Reptiles and Roads	LA 118	Biodiversity design
HA 117	Cultural Heritage Asset Management Plans	LA 116	Cultural heritage asset management plans
HA 118	Design of Soakaways	CD 530	Design of soakaways
HA 119	Grassed Surface Water Channels for Highway Runoff	CD 521	Hydraulic design of road edge surface water channels and outlets
HA 120	Guidance on the Trenchless Installation of Services Beneath Motorways and Trunk Roads	CD 622	Managing geotechnical risk
HA 200	Aims and Objectives of Environmental Assessment	LA 101	Introduction to environmental assessment
HA 201	General Principles and Guidance of Environmental Impact Assessment	LA 101	Introduction to environmental assessment
HA 204	Scoping of Environmental Impact Assessments	LA 103	Scoping projects for environmental assessment
HA 205	Assessment and Management of Environmental Effects	LA 104	Environmental assessment and monitoring
HA 207	Air Quality	LA 105	Air Quality
HA 208	Cultural Heritage	LA 106	Cultural heritage assessment

Table 2.1g Highway Advice (continued)

HA 216	Environmental Assessment Techniques: Road Drainage and the Water Environment	NIL	Document withdrawn without replacement.
HA 218	Glossary of Terms Used in The Design Manual for Roads and Bridges Volume 11 Sections 1 and 2	NIL	Document withdrawn without replacement.
HA 219	Determination of Pipe Roughness and Assessment of Sediment Deposition to Aid Pipeline Design	CD 523	Determination of pipe roughness and assessment of sediment deposition to aid pipeline design

Table 2.1h Highway requirements

Old Reference	Title	New Reference	Title
HD 19	Road Safety Audits	GG 119	Road safety audit
HD 22	Managing Geotechnical Risk	CD 622	Managing geotechnical risk
HD 23	General Information	NIL	Document withdrawn without replacement.
HD 24	Traffic Assessment	CD 224	Traffic assessment
HD 25	Design Guidance for Road Pavement Foundations	CD 225	Design for new pavement foundations
HD 26	Pavement Design	CD 226	Design for new pavement construction
HD 27	Pavement Construction Methods	CD 226	Design for new pavement construction
HD 28	Skidding Resistance	CS 228	Skidding resistance
HD 29	Data for Pavement Assessment	CS 229	Data for pavement assessment
HD 30	Pavement maintenance assessment procedure	CD 227	Design for pavement maintenance
HD 31	Maintenance of Bituminous Roads	CD 227 CM 231	Design for pavement maintenance Pavement surface repairs
HD 32	Maintenance of Concrete Roads	CD 227 CM 231	Design for pavement maintenance Pavement surface repairs
HD 33	Design of Highway Drainage Systems	CG 501	Design of highway drainage systems
HD 35	Conservation and The Use of Secondary and Recycled Materials	NIL	Document withdrawn without replacement.
HD 36	Surfacing Materials for New and Maintenance Construction.	CD 236	Surface course materials for construction
HD 37	Bituminous Surfacing Materials and Techniques	CD 237	Pavement surfacing selection
HD 38	Concrete Surfacing and Materials	CD 237	Pavement surfacing selection
HD 39	Footway and Cycleway Design	CD 239	Footway and cycleway pavement design
HD 40	Footway Maintenance	NIL	Document withdrawn without replacement.
HD 41	Maintenance of Highway Geotechnical Assets	CS 641	Managing the maintenance of highway geotechnical assets
HD 42	Walking, Cycling & Horse-Riding Assessment and Review	GG 142	Walking, cycling and horse-riding assessment and review
HD 43	Drainage Data Management Systems for Highways	CD 535	Drainage asset data and risk management

Table 2.1h Highway requirements (continued)

HD 44	Assessment of Implications (of Highways and/or Roads Projects) on European Sites (Including Appropriate Assessment)	LA 115	Habitats Regulations assessment
HD 45	Road Drainage and the Water Environment	LA 113	Road drainage and the water environment
HD 47	Screening of Projects for Environmental Impact Assessment	LA 102	Screening projects for Environmental Impact Assessment
HD 48	Reporting of Environmental Impact Assessments	LA 104	Environmental assessment and monitoring
HD 49	Highway Drainage Design Principal Requirements	CG 502	The certification of drainage design
HD 50	The Certification of Drainage Design	CG 502	The certification of drainage design
HD 213	Noise and Vibration	LA 111	Noise and Vibration
HD 217	Alternative filter media and surface stabilisation techniques for combined surface and sub-surface drains.	CD 525	Design of combined surface and sub-surface drains and management of stone scatter
HD 220	Vortex Separators for use with Road Drainage Systems	CD 528	Vortex separators for use with road drainage systems
HD 221	Reservoir Pavements for Drainage Attenuation	CD 531	Reservoir pavements for drainage attenuation

Table 2.1i Interim Advice Notes

Old Reference	Title	New Reference	Title
IAN 1	Scheme Assessment Reporting	WebTAG	Transport Analysis Guidance
IAN 36	The Use and Application of Micro-Simulation Traffic Models	NIL	Document withdrawn without replacement.
IAN 53	Concrete Half-Joint Deck Structures	CS 466	Risk Management and Structural Assessment of Reinforced Concrete Half-joints
IAN 56	Maintenance Of Traffic Signs With Dew Resistant Coatings	NIL	Document withdrawn without replacement.
IAN 69	Designing for Maintenance	GD 304	Designing health and safety into maintenance
IAN 73	Design of Pavement Foundations	CD 225	Design for new pavement foundations
IAN 84	Environmental Information System (EnvIS).	ADMM	Asset Data Management Manual
IAN 91	Interim Advice on the identification of 'Particularly at Risk' Supports	CD 377	Requirements for road restraint systems
IAN 93	Driver location signs - interim requirements	CD 193	Driver location signs
IAN 96	Guidance On Implementing Results Of Research On Bridge Deck Waterproofing	CD 358	Waterproofing and surfacing of concrete bridge decks
IAN 97	Assessment and Upgrading of Existing Vehicle Parapets	CS 461	Assessment and upgrading of in-service parapets
IAN 100	Cultural Heritage Asset Management Plans	LA 116	Cultural heritage asset management plans
IAN 103	Ramp metering	TA 121 TD 121	Ramp metering (Appraisal) Ramp metering
IAN 104	The anchorage of post-installed fasteners and reinforcing bars in concrete	CD 372	Design of post-installed anchors and reinforcing bar connections in concrete
IAN 106	Guidance Note for Traffic Consultants Employed on Highways Agency Schemes	NIL	Document withdrawn without replacement.
IAN 116	Nature Conservation Advice in Relation to Bats	LA 118	Biodiversity design
IAN 124	Eurocodes	CD 350	The design of highway structures
IAN 130	Ecology and Nature Conservation: Criteria for Impact Assessment	LA 108	Biodiversity
IAN 131	Deflection of Permanent Formwork	CD 359	Design requirements for permanent soffit formwork
IAN 135	Landscape and visual effects assessment	LA 107	Landscape and visual effects

Table 2.1i Interim Advice Notes (continued)

IAN 136	Structural safety reporting	CG 301	Structural safety reporting - all types of structures
IAN 143	Supplementary Advice and requirements for the Provision for Non-Motorised Users and Accessibility during planning, design, construction and handover of Improvement Schemes	CD 143	Designing for walking, cycling and horse riding (vulnerable users)
IAN 144	Directional signs on motorway and all-purpose trunk roads grade separated junctions	TSM	The Traffic Signs Manual
IAN 145	Directional signs on Motorway and all-purpose Trunk roads At grade and compact Grade separated junctions	TSM	Traffic Signs Manual Chapter 2 - Primary route destinations in England by region
IAN 147	Drainage surveys and data	CS 551	Drainage surveys
IAN 149	Existing Motorway Minimum Requirements	CD 127 CD 122 CD 146 CD 109	Cross-sections and headrooms; Geometric design of grade separated junctions; Positioning of signalling and advance direction signs; Highway link design
IAN 150	Guidance on Alternative Temporary Traffic Management Techniques for Relaxation Works on Dual Carriageways	TSM	Traffic Signs Manual Chapter 8
IAN 153	Guidance on the Environmental Impact Assessment of Materials	LA 110	Material assets and waste
IAN 157	Thin Surface Course Systems - Installation And Maintenance	CD 237	Pavement surfacing selection
IAN 158	Maintenance Assessment Procedure	CS 230	Pavement maintenance assessment procedure
IAN 159	Guidance Note for Traffic Consultants on the Economic Assessment of MM-HSR Schemes	NIL	Document withdrawn without replacement.
IAN 161	Smart Motorways	GD 301	Smart motorways
IAN 163	Alternative Entry Taper at relaxation scheme temporary traffic management on high speed roads	TSM	Traffic Signs Manual Chapter 8
IAN 167	Guidance for the Removal of Road Lighting	TA 501	Requirements for the appraisal of new and replacement road lighting on motorways and all-purpose trunk roads
IAN 168	Strategy for the repair/replacement of Bridge Expansion Joints	CD 357	Bridge expansion joints
IAN 169	Temporary Cover Plates over Bridge Expansion Joints	CD 357	Bridge expansion joints
IAN 171	Risk-based Inspection Intervals	CS 450	Inspection of highway structures

Table 2.1i Interim Advice Notes (continued)

IAN 173	Implementation of BD 97/12 - The Assessment of Scour and Other Hydraulic Actions at Highway Structures	CS 469	Inspection and assessment of scour and other hydraulic actions at structures
IAN 179	Guidance on the Use of Vehicle Mounted High Level Variable Message Signs to provide advance warning of lane closures for Relaxation Works on Dual Carriageways with a Hard Shoulder	TSM	Traffic Signs Manual Chapter 8
IAN 182	Major Schemes: Enabling Handover into Operation and Maintenance	GG 182	Major schemes: Enabling handover into operation and maintenance
IAN 183	Environmental Management Plans	LA 120	Environmental management plans
IAN 184	Highways England Data & CAD Standard Instructions on naming conventions, file types and data structures for the delivery and transfer of CAD / BIM files to Highways England and its supply chain.	GG 184	Specification for the use of Computer Aided Design
IAN 185	Air Quality	LA 105 LA 111	Air quality Noise and vibration
IAN 187	Use of a Convoy Control Vehicle for Controlling Traffic through Guide Islands at Relaxation Works on Dual Carriageways	TSM	Traffic Signs Manual
IAN 188	Guidance on Omission of Warning Lights (Road Danger Lamps) for Relaxation Works on Dual Carriageways	TSM	Traffic Signs Manual Chapter 8
IAN 190	Guidance on Processes for Managing Fatigue in the Workplace	RTB 22	Raising the bar - Supply Chain Fatigue
IAN 193	Requirements for the provision of access arrangements on gantries	CD 365	Portal and cantilever signs/signals gantries
IAN 194	Guidance on the management of risk when permitting traffic on planed asphalt surfaces	CD 227	Design for pavement maintenance
IAN 195	Cycle Traffic and the Strategic Road Network	CD 195	Designing for cycle traffic
IAN 196	Schemes in Design or Construction: Handling of chamber access covers that may be located in running lanes	CD 534	Chamber tops and gully tops for road drainage and services
IAN 197	Chamber Access Covers: Programme of Assessment/Upgrading Works for Accesses Located in a Running Lane	CD 534	Chamber tops and gully tops for road drainage and services

Table 2.1i Interim Advice Notes (continued)

IAN 198	Existing Dual Carriageway All-Purpose Trunk Road Network: Additional Requirements and Relaxations	CD 109 CD 122 CD 127 CD 146	Highway link design Geometric design of grade separated junctions Cross-sections and headrooms Positioning of signalling and advance direction signs
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Table 2.1j Traffic Advice

Old Reference	Title	New Reference	Title
TA 11	Traffic Surveys by Roadside Interview	NIL	Document withdrawn without replacement.
TA 12	Traffic Signals on High Speed Roads	TS 101 TA 101 TD 101 TM 101	Traffic signalling systems (inspection and assessment); Traffic signalling systems (appraisal); Traffic signalling systems (design); Traffic signalling systems (maintenance and operation)
TA 16	General Principles of Control by Traffic Signals	TS 101 TA 101 TD 101 TM 101	Traffic signalling systems (inspection and assessment); Traffic signalling systems (appraisal); Traffic signalling systems (design); Traffic signalling systems (maintenance and operation)
TA 22	Vehicle Speed Measurement on All Purpose Roads	CA 185	Vehicle speed measurement
TA 23	Junctions and Accesses: Determination of Size of Roundabouts and Major/Minor Junctions	CD 116	Geometric design of roundabouts
TA 30	Choice between Options for Trunk Road Schemes	NIL	Document withdrawn without replacement.
TA 46	Traffic Flow Ranges for Use in the Assessment of New Rural Roads	NIL	Document withdrawn without replacement.
TA 49	Appraisal of New and Replacement Lighting on the Strategic Motorway and All Purpose Trunk Road Network	TA 501 TD 501	Road lighting appraisal; Road lighting design
TA 56	Hazardous Cattle Crossings: Use of Flashing Amber Lamps	TS 101 TA 101 TD 101 TM 101	Traffic signalling systems (inspection and assessment); Traffic signalling systems (appraisal); Traffic signalling systems (design); Traffic signalling systems (maintenance and operation)
TA 57	Roadside Features	CD 127 CD 377	Cross-sections and headrooms; Requirements for road restraint systems
TA 60	The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads	CD 146	Positioning of signalling and advance direction signs
TA 64	Narrow Lane and Tidal Flow Operations at Roads Works on Motorways and Dual Carriageway Trunk Roads with Full Width Hard Shoulders	NIL	Document withdrawn without replacement.
TA 66	Police Observation Platforms on Motorways	CD 169	The location and layout of lay-bys and rest areas
TA 68	The Assessment and Design of Pedestrian Crossings	CD 143	Designing for walking, cycling and horse riding (vulnerable users)

Table 2.1j Traffic Advice (continued)

TA 74	Motorway Signalling	CD 146	Positioning of signalling and advance direction signs
TA 76	Motorway Control Offices	NIL	Document withdrawn without replacement.
TA 78	Design of Road Markings at Roundabouts	CD 116	Geometric design of roundabouts
TA 79	Traffic Capacity of Urban Roads	NIL	Document withdrawn without replacement.
TA 80	Surface Drainage of Wide Carriageways	CG 501	Design of highway drainage systems
TA 81	Coloured Surfacing in Road Layout (Excluding Traffic Calming)	CD 236	Surface course materials
TA 82	The Installation of Traffic Signals and Associated Equipment	TS 101 TA 101 TD 101 TM 101	Traffic signalling systems (inspection and assessment); Traffic signalling systems (appraisal); Traffic signalling systems (design); Traffic signalling systems (maintenance and operation)
TA 83	Guide to the Use of Variable Message Signs for Strategic Traffic Management on Trunk Roads and Trunk Road Motorways	CD 146	Positioning of signalling and advance direction signs
TA 84	Code of Practice for Traffic Control and Information Systems for All-Purpose Roads	TS 101 TA 101 TD 101 TM 101	Traffic signalling systems (inspection and assessment); Traffic signalling systems (appraisal); Traffic signalling systems (design); Traffic signalling systems (maintenance and operation)
TA 90	The Geometric Design of Pedestrian, Cycle and Equestrian Routes	CD 143	Designing for walking, cycling and horse riding (vulnerable users)
TA 92	Crossover and Changeover Design	CD 192	The design of crossovers and changeovers

Table 2.1k Traffic Requirements

Old Reference	Title	New Reference	Title
TD 07	Statutory Approval of Traffic Control Equipment	TS 101 TA 101 TD 101 TM 101	Traffic signalling systems (inspection and assessment); Traffic signalling systems (appraisal); Traffic signalling systems (design); Traffic signalling systems (maintenance and operation)
TD 09	Highway Link Design	CD 109	Highway link design
TD 11	Use of Certain Departmental Standards in the Design and Assessment of Trunk Road Schemes	NIL	Document withdrawn without replacement.
TD 16	Geometric Design of Roundabouts	CD 116	Geometric design of roundabouts
TD 17	Criteria for the Provision of Closed Circuit Television on Motorways	TD 131	Roadside technology and communications
TD 19	Requirement for Road Restraint Systems	CD 377	Requirements for road restraint systems
TD 22	Layout of Grade Separated Junctions	CD 122 CD 169	Geometric design of grade separated junctions The location and layout of lay-bys and rest areas
TD 23	Trunk Roads and Trunk Road Motorways Inspection and Maintenance of Road Lighting	TA 501 TD 501	Road lighting appraisal Road lighting design
TD 24	All-purpose Trunk Roads Inspection and Maintenance of Traffic Signals and Associated Equipment	TS 101 TA 101 TD 101 TM 101	Traffic signalling systems (inspection and assessment); Traffic signalling systems (appraisal); Traffic signalling systems (design); Traffic signalling systems (maintenance and operation)
TD 25	Inspection and Maintenance of Traffic Signs on Motorway and All-Purpose Trunk Roads	CM 125 CS 125	Maintenance of traffic signs Inspection of traffic signs
TD 26	Inspection and Maintenance of Road Markings and Road Studs on Motorways and All-Purpose Trunk Roads	CS 126	Inspection and assessment of road markings and road studs
TD 34	Design of Road Lighting for the Strategic Motorway and All Purpose Trunk Road Network	TD 501	Road lighting
TD 35	All Purpose Trunk Roads MOVA System of Traffic Control at Signals	TS 101 TA 101 TD 101 TM 101	Traffic signalling systems (inspection and assessment); Traffic signalling systems (appraisal); Traffic signalling systems (design); Traffic signalling systems (maintenance and operation)

Table 2.1k Traffic Requirements (continued)

TD 36	Subways for Pedestrians and Pedal Cyclists. Layout and Dimensions	CD 143	Designing for walking, cycling and horse riding (vulnerable users)
TD 37	Scheme Assessment Reporting	NIL	Document withdrawn without replacement.
TD 39	The Design of Major Interchanges	CD 122	Geometric design of grade separated junctions
TD 40	Layout of Compact Grade Separated Junctions	CD 122 CD 123	Geometric design of grade separated junctions; Geometric design of at-grade priority and signal-controlled junctions
TD 41	Vehicular Access to All Purpose Trunk Roads	CD 123	Geometric design of at-grade priority and signal-controlled junctions
TD 42	Geometric Design of Major/Minor Priority Junctions	CD 123	Geometric design of at-grade priority and signal-controlled junctions
TD 45	Detection on the motorway and trunk road network	TD 131	Roadside technology and communications
TD 46	Motorway signalling	CD 146	Positioning of signalling and advance direction signs
TD 49	Requirements for Lorry Mounted Crash Cushions	CD 378	Requirements for Lorry Mounted Crash Cushions
TD 50	The Geometric Layout of Signal-Controlled Junctions and Signalised Roundabouts	CD 116 CD 123	Geometric design of roundabouts Geometric design of at-grade priority and signal-controlled junctions;
TD 51	Segregated Left Turn Lanes and Subsidiary Deflection Islands at Roundabouts	CD 116	Geometric design of roundabouts
TD 52	Traffic Signs to Tourist Destinations and Leisure Facilities in England Signing for Motorways and All-Purpose Trunk Roads	CG 152	Traffic signs to tourist destinations and leisure facilities
TD 53	Traffic Signs to Retail Destinations and Exhibition Centres	CG 153	Traffic signs to retail destinations and exhibition centres
TD 54	Design of Mini Roundabouts	CD 116	Geometric design of roundabouts
TD 69	The Location and Layout of Lay-bys and Rest Areas	CD 192	The design of crossovers and changeovers
TD 70	Design of Wide Single 2+1 Roads	CD 109 CD 122 CD 123 CD 127	Highway link design; Geometric design of grade separated junctions; Geometric design of at-grade priority and signal-controlled junctions; Cross-sections and headrooms;
TD 71	Technology Overview and General Requirements	TD 131	Roadside technology and communications

Table 2.1k Traffic Requirements (continued)

TD 72	Transmission Infrastructure	TD 131	Roadside technology and communications
TD 73	Emergency Roadside Telephones (ERT)	TD 131	Roadside technology and communications
TD 89	Use of Passively Safe Signposts, Lighting Columns and Traffic signal Posts to BS EN 12767	NIL	Document withdrawn without replacement.

3. Lifecycle to alphanumeric lookup

3.1 This section lists the new references and their old equivalents

Table 3.1a Geometry

Old Reference	Title	New Reference	Title
CA 185	Vehicle speed measurement	TA 22	Vehicle Speed Measurement on All Purpose Roads
CD 109	Highway link design	IAN 149	Existing Motorway Minimum Requirements
CD 109	Highway link design	IAN 198	Existing Dual Carriageway All-Purpose Trunk Road Network: Additional Requirements and Relaxations
CD 109	Highway link design	TD 09	Highway Link Design
CD 109	Highway link design	TD 70	Design of Wide Single 2+1 Roads
CD 109	Highway link design	IAN 161	Smart Motorways
CD 116	Geometric design of roundabouts	TA 23	Junctions and Accesses: Determination of Size of Roundabouts and Major/Minor Junctions
CD 116	Geometric design of roundabouts	TA 78	Design of Road Markings at Roundabouts
CD 116	Geometric design of roundabouts	TA 86	Layout of Large Signal Controlled Junctions
CD 116	Geometric design of roundabouts	TD 16	Geometric Design of Roundabouts
CD 116	Geometric design of roundabouts	TD 50	The Geometric Layout of Signal-Controlled Junctions and Signalised Roundabouts
CD 116	Geometric design of roundabouts	TD 51	Segregated Left Turn Lanes and Subsidiary Deflection Islands at Roundabouts
CD 116	Geometric design of roundabouts	TD 54	Design of Mini Roundabouts
CD 116	Geometric design of roundabouts	TD 70	Design of Wide Single 2+1 Roads
CD 122	Geometric design of grade separated junctions	TD 22	Layout of Grade Separated Junctions
CD 122	Geometric design of grade separated junctions	TD 39	The Design of Major Interchanges
CD 122	Geometric design of grade separated junctions	TD 40	Layout of Compact Grade Separated Junctions
CD 122	Geometric design of grade separated junctions	IAN 149	Existing Motorway Minimum Requirements
CD 122	Geometric design of grade separated junctions	IAN 161	Smart Motorways
CD 122	Geometric design of grade separated junctions	IAN 198	Existing Dual Carriageway All-Purpose Trunk Road Network: Additional Requirements and Relaxations
CD 123	Geometric design of at-grade priority and signal-controlled junctions	TD 40	Layout of Compact Grade Separated Junctions

Table 3.1a Geometry (continued)

CD 123	Geometric design of at-grade priority and signal-controlled junctions	TD 41	Vehicular Access to All Purpose Trunk Roads
CD 123	Geometric design of at-grade priority and signal-controlled junctions	TD 42	Geometric Design of Major/Minor Priority Junctions
CD 123	Geometric design of at-grade priority and signal-controlled junctions	TD 50	The Geometric Layout of Signal-Controlled Junctions and Signalised Roundabouts
CD 123	Geometric design of at-grade priority and signal-controlled junctions	TD 70	Design of Wide Single 2+1 Roads
CD 127	Cross-sections and headrooms	TD 27	Cross-Sections and Headrooms
CD 127	Cross-sections and headrooms	TD 70	Design of Wide Single 2+1 Roads
CD 127	Cross-sections and headrooms;	IAN 149	Existing Motorway Minimum Requirements
CD 127	Cross-sections and headrooms	IAN 161	Smart Motorways
CD 127	Cross-sections and headrooms	IAN 198	Existing Dual Carriageway All-Purpose Trunk Road Network: Additional Requirements and Relaxations
CD 143	Designing for walking, cycling and horse riding (vulnerable users)	TA 91	Provision for Non-Motorised Users
CD 143	Designing for walking, cycling and horse riding (vulnerable users)	TA 68	The Assessment and Design of Pedestrian Crossings
CD 143	Designing for walking, cycling and horse riding (vulnerable users)	TA 90	The Geometric Design of Pedestrian, Cycle and Equestrian Routes
CD 143	Designing for walking, cycling and horse riding (vulnerable users)	TD 36	Subways for Pedestrians and Pedal Cyclists. Layout and Dimensions
CD 146	Positioning of signalling and advance direction signs	TA 60	The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads
CD 146	Positioning of signalling and advance direction signs	TA 74	Motorway Signalling
CD 146	Positioning of signalling and advance direction signs	TA 83	Guide to the Use of Variable Message Signs for Strategic Traffic Management on Trunk Roads and Trunk Road Motorways

Table 3.1a Geometry (continued)

CD 146	Positioning of signalling and advance direction signs	TD 18	Criteria for the use of gantries for traffic signs and matrix traffic signals on trunk roads and trunk road motorways Criteria for the use of gantries for traffic signs and matrix traffic signals on trunk roads and trunk road motorways
CD 146	Positioning of signalling and advance direction signs	TD 46	Motorway Signalling
CD 146	Positioning of signalling and advance direction signs	TD 33	The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads
CD 146	Positioning of signalling and advance direction signs	IAN 109	Advice Regarding the Motorway Signal Mark 4 (MS4)
CD 146	Positioning of signalling and advance direction signs	IAN 161	Smart Motorways
CD 146	Positioning of signalling and advance direction signs	IAN 149	Existing Motorway Minimum Requirements
CD 169	The location and layout of lay-bys and rest areas	TA 66	Police Observation Platforms on Motorways
CD 169	The location and layout of lay-bys and rest areas	TA 57	Roadside Features
CD 169	The location and layout of lay-bys and rest areas	TD 69	The Location and Layout of Lay-bys and Rest Areas
CD 169	The location and layout of lay-bys and rest areas	TD 22	Layout of Grade Separated Junctions
CD 169	The location and layout of lay-bys and rest areas	TD 70	Design of Wide Single 2+1 Roads
CD 192	The design of crossovers and changeovers	TA 92	Crossover and Changeover Design
CD 193	Driver location signs	IAN 93	Driver location signs - interim requirements
CD 195	Designing for cycle traffic	IAN 195	Cycle Traffic and the Strategic Road Network

Table 3.1b Pavements (Design)

Old Reference	Title	New Reference	Title
CD 224	Traffic Assessment	HD 24	Traffic Assessment
CD 225	Design for new pavement foundations	HD 25	Design Guidance for Road Pavement Foundations
CD 225	Design for new pavement foundations	IAN 73	Design of Pavement Foundation
CD 226	Design for new pavement construction	HD 26	Pavement Design
CD 226	Design for new pavement construction	HD 27	Pavement Construction Methods
CD 227	Design for pavement maintenance	HD 30	Pavement maintenance assessment procedure
CD 227	Design for pavement maintenance	HD 31	Maintenance of Bituminous Roads
CD 227	Design for pavement maintenance	HD 32	Maintenance of Concrete Roads
CD 236	Surface course materials for construction	HD 36	Surfacing Materials for New and Maintenance Construction.
CD 236	Surface course materials for construction	IAN 156	Revision of Aggregate Specification for Pavement Surfacing
CD 236	Surface course materials for construction	HD 37	Bituminous Surfacing Materials and Techniques
CD 236	Surface course materials for construction	HD 38	Concrete Surfacing and Materials
CD 236	Surface course materials for construction	IAN 157	Thin Surface Course Systems - Installation And Maintenance
CD 236	Surface course materials for construction	TA 81	Coloured Surfacing in Road Layout (Excluding Traffic Calming)
CD 239	Footway and cycleway pavement design	HD 39	Footway and Cycleway Design

Table 3.1c Structures (Design)

Old Reference	Title	New Reference	Title
CD 350	The design of highway structures	BA 57	Design for Durability
CD 350	The design of highway structures	BD 100	The use of Eurocodes for the design of highway structures
CD 350	The design of highway structures	BD 57	Design for Durability
CD 350	The design of highway structures	IAN 124	Eurocodes
CD 351	The design and appearance of highway structures	BA 41	The Design and Appearance of Bridges
CD 352	Design of road tunnels	BD 78	Design of Tunnels
CD 353	Design criteria for footbridges	BD 29	Design Criteria for Footbridges
CD 355	Application of whole-life costs for design and maintenance of highway structures	BA 28	Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures
CD 355	Application of whole-life costs for design and maintenance of highway structures	BD 36	Evaluation of Maintenance Costs in Comparing Alternative Designs for Highway Structures
CD 356	Design of highway structures for hydraulic action	BA 59	Design of Highway Bridges for Hydraulic Action
CD 357	Bridge expansion joints	BA 26	Expansion Joints for Use in Highway Bridge Decks
CD 357	Bridge expansion joints	BD 33	Expansion Joints for Use in Highway Bridge Decks
CD 357	Bridge expansion joints	IAN 168	Strategy for the repair/replacement of Bridge Expansion Joints
CD 357	Bridge expansion joints	IAN 169	Temporary Cover Plates over Bridge Expansion Joints
CD 358	Waterproofing and surfacing of concrete bridge decks	BA 47	Waterproofing and Surfacing Concrete Bridge Decks
CD 358	Waterproofing and surfacing of concrete bridge decks	BD 47	Waterproofing and Surfacing of Concrete Bridge Decks
CD 358	Waterproofing and surfacing of concrete bridge decks	IAN 96	Guidance On Implementing Results Of Research On Bridge Deck Waterproofing
CD 359	Design requirements for permanent soffit formwork	BA 36	The Use of Permanent Formwork
CD 359	Design requirements for permanent soffit formwork	IAN 131	Deflection of Permanent Formwork
CD 361	Weathering steel for highway structures	BD 07	Weathering Steel for Highway Structures
CD 362	Enclosure of bridges	BA 67	Enclosure of Bridges
CD 362	Enclosure of bridges	BD 67	Enclosure of Bridges

Table 3.1c Structures (Design) (continued)

CD 363	Design Rules for Aerodynamic Effects on Bridges	BD 49	Design Rules for Aerodynamic Effects on Bridges
CD 364	Formation of Continuity Joints in Bridge Decks	BA 82	Formation of Continuity Joints in Bridge Decks
CD 365	Portal and cantilever signs/signals gantries	BD 51	Portal and Cantilever Signs/Signal Gantries
CD 365	Portal and cantilever signs/signals gantries	BE 07	Departmental Standard (Interim) Motorway Sign/Signal Gantries
CD 365	Portal and cantilever signs/signals gantries	IAN 193	Requirements for the provision of access arrangements on gantries
CD 366	Design criteria for collision protection beams	BD 65	Design Criteria for Collision Protection Beams
CD 367	Treatment of existing structures on highways widening schemes	BD 95	Treatment of Existing Structures on Highway Widening Schemes
CD 368	Design of fibre reinforced polymer bridges and highway structures	BD 90	Design of FRP Bridges and Highway Structures
CD 369	Surface protection for concrete highway structures	BA 85	Coatings for Concrete Highway Structures and Ancillary Structures
CD 370	Cathodic protection for use in reinforced concrete structures.	BA 83	Cathodic Protection for Use in Reinforced Concrete Highway Structures
CD 371	Strengthening highway structures using fibre-reinforced polymers and externally bonded steel plates	BD 84	Strengthening of Concrete Bridge Supports for Vehicle Impact Using Fibre Reinforced Polymers
CD 371	Strengthening highway structures using fibre-reinforced polymers and externally bonded steel plates	BD 85	Strengthening Highway Structures Using Externally Bonded Fibre Reinforced Polymer
CD 372	Design of post-installed anchors and reinforcing bar connections in concrete	IAN 104	The anchorage of post-installed fasteners and reinforcing bars in concrete
CD 373	Impregnation of reinforced and prestressed concrete highway structures using hydrophobic pore-lin	BD 43	The Impregnation of Reinforced and Prestressed Concrete Highway Structures using Hydrophobic Pore-Lining Impregnants
CD 374	The use of recycled aggregates in structural concrete	BA 92	The Use of Recycled Concrete Aggregates in Structural Concrete
CD 375	Design of corrugated steel buried structures	BD 12	Design of Corrugated Steel Buried Structures with Spans Greater than 0.9 Metres and up to 8.0 Metres
CD 376	Unreinforced masonry arch bridges	BD 91	Unreinforced Masonry Arch Bridges
CD 377	Requirements for road restraint systems	TD 19	Requirement for Road Restraint Systems

Table 3.1c Structures (Design) (continued)

CD 378	Impact test and assessment criteria for truck mounted attenuators	TD 49	Requirements for Lorry Mounted Crash Cushions
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Table 3.1d Drainage (Design)

Old Reference	Title	New Reference	Title
CD 521	Hydraulic design of road edge surface water channels and outlets	HA 113	Combined Channel and Pipe System for Surface Water Drainage
CD 521	Hydraulic design of road edge surface water channels and outlets	HA 119	Grassed Surface Water Channels for Highway Runoff
CD 521	Hydraulic design of road edge surface water channels and outlets	HA 37	Hydraulic Design of Road-Edge Surface Water Channels
CD 521	Hydraulic design of road edge surface water channels and outlets	HA 78	Design of Outfalls for Surface Water Channels
CD 522	Drainage of runoff from natural catchments	HA 106	Drainage of Runoff from Natural Catchments
CD 523	Determination of pipe roughness and assessment of sediment deposition to aid pipeline design	HA 219	Determination of Pipe Roughness and Assessment of Sediment Deposition to Aid Pipeline Design
CD 524	Edge of pavement details	HA 39	Edge of Pavement Details
CD 524	Edge of pavement details	HA 83	Safety Aspects of Road Edge Drainage Features
CD 525	Design of combined surface and sub-surface drains and management of stone scatter	HD 217	Alternative filter media and surface stabilisation techniques for combined surface and sub-surface drains.
CD 526	Spacing of road gullies	HA 102	Spacing of Road Gullies
CD 527	Sumpless gullies	HA 105	Sumpless Gullies
CD 528	Vortex separators for use with road drainage systems	HD 220	Vortex Separators for use with Road Drainage Systems
CD 529	Design of outfall and culvert details	HA 107	Design of Outfall and Culvert Details
CD 530	Design of soakaways	HA 118	Design of Soakaways
CD 531	Reservoir pavements for drainage attenuation	HD 221	Reservoir Pavements for Drainage Attenuation
CD 532	Vegetated drainage systems for highway runoff	HA 103	Vegetative Treatment Systems for Highway Runoff
CD 533	Determination of pipe and bedding combinations for drainage works	HA 40	Determination of Pipe and Bedding Combinations for Drainage Works
CD 534	Chamber tops and gully tops for road drainage and services	HA 104	Chamber Tops and Gully Tops for Road Drainage and Services: Installation and Maintenance
CD 534	Chamber tops and gully tops for road drainage and services	IAN 196	Schemes in Design or Construction: Handling of chamber access covers that may be located in running lanes

Table 3.1d Drainage (Design) (continued)

CD 534	Chamber tops and gully tops for road drainage and services	IAN 197	Chamber Access Covers: Programme of Assessment/Upgrading Works for Accesses Located in a Running Lane
CD 535	Drainage asset data and risk management	HD 43	Drainage Data Management Systems for Highways
CD 535	Drainage asset data and risk management	IAN 147	Drainage data management (SD 15 and HD 43)

Table 3.1e Geotechnical (Design)

Old Reference	Title	New Reference	Title
CD 622	Managing geotechnical risk	BD 10	Design of Highway Structures in Areas of Mining Subsidence
CD 622	Managing geotechnical risk	HD 22	Managing Geotechnical Risk
CD 622	Managing geotechnical risk	HA 120	Guidance on the Trenchless Installation of Services Beneath Motorways and Trunk Roads

Table 3.1f Civil engineering (general)

Old Reference	Title	New Reference	Title
CG 152	Traffic signs to tourist destinations and leisure facilities	TD 52	Traffic Signs to Tourist Destinations and Leisure Facilities in England Signing for Motorways and All-Purpose Trunk Roads
CG 153	Traffic signs to retail destinations and exhibition centres	TD 53	Traffic Signs to Retail Destinations and Exhibition Centres
CG 302	As-built, operational and maintenance records for highway structures	BD 62	As Built, Operational and Maintenance Records for Highway Structures
CG 303	Quality assurance scheme for paints and similar protective coatings	BD 35	Quality Assurance Scheme for Paints and Similar Protective Coatings
CG 304	Conservation of highway structures	BD 89	The Conservation of Highway Structures
CG 305	Identification marking of highway structures	BD 45	Identification Marking of Highway Structures
CG 501	Design of highway drainage systems	HD 33	Design of Highway Drainage Systems
CG 501	Design of highway drainage systems	TA 80	Surface Drainage of Wide Carriageways
CG 502	The certification of drainage design	HD 49	Highway Drainage Design Principal Requirements
CG 502	The certification of drainage design	HD 50	The Certification of Drainage Design

Table 3.1g Maintenance

Old Reference	Title	New Reference	Title
CM 125	Maintenance of traffic signs	TD 25	Inspection and Maintenance of Traffic Signs on Motorway and All-Purpose Trunk Roads
CM 231	Pavement surface repairs	HD 31	Maintenance of Bituminous Roads Amendment No. 2
CM 231	Pavement surface repairs	HD 32	Maintenance of Concrete Roads
CM 430	Maintenance of road tunnels	BA 72	Maintenance of Road Tunnels
CM 431	Maintenance painting of steelwork	BD 87	Maintenance Painting of Steelwork
CM 432	Maintenance of buried concrete box structures	BA 88	Management of buried concrete box structures

Table 3.1h Civils (Appraisal)

Old Reference	Title	New Reference	Title
CS 125	Inspection of traffic signs	TD 25	Inspection and Maintenance of Traffic Signs on Motorway and All-Purpose Trunk Roads
CS 126	Inspection and assessment of road markings and road studs	TD 26	Inspection and Maintenance of Road Markings and Road Studs on Motorways and All-Purpose Trunk Roads
CS 228	Skidding resistance	HD 28	Skidding Resistance
CS 229	Data for pavement assessment	HD 29	Data for Pavement Assessment
CS 230	Pavement maintenance assessment procedure	HD 29	Data for Pavement Assessment
CS 230	Pavement maintenance assessment procedure	HD 30	Maintenance Assessment Procedure
CS 230	Pavement maintenance assessment procedure	IAN 158	Maintenance Assessment Procedure
CS 432	Inspection of buried concrete box structures	BA 88	Management of buried concrete box structures
CS 450	Inspection of highway structures	BD 63	Inspection of Highway Structures
CS 451	Structural review and assessment of highway structures	BD 101	Structural Review and Assessment of Highway Structures
CS 452	Inspection and records for road tunnel systems	BD 53	Inspection and Records for Road Tunnels
CS 453	The assessment of highway bridge supports	BD 48	The Assessment and Strengthening of Highway Bridge Supports
CS 453	The assessment of highway bridge supports	BD 60	Design of Highway Bridges for Vehicle Collision Loads
CS 453	The assessment of highway bridge supports	IAN 91	Interim Advice on the identification of 'Particularly at Risk' Supports
CS 454	Assessment of highway bridges and structures	BA 16	The Assessment of Highway Bridges and Structures
CS 454	Assessment of highway bridges and structures	BD 21	The Assessment of Highway Bridges and Structures
CS 454	Assessment of highway bridges and structures	BD 37	Loads for Highway Bridges
CS 455	The assessment of concrete highway bridges and structures	BA 38	Assessment of the Fatigue Life of Corroded or Damaged Reinforcing Bars
CS 455	The assessment of concrete highway bridges and structures	BA 40	Tack Welding of Reinforcing Bars
CS 455	The assessment of concrete highway bridges and structures	BA 51	The Assessment of Concrete Structures Affected by Steel Corrosion

Table 3.1h Civils (Appraisal) (continued)

CS 455	The assessment of concrete highway bridges and structures	BA 52	The Assessment of Concrete Structures Affected by Alkali Silica Reaction
CS 455	The assessment of concrete highway bridges and structures	BD 44	The Assessment of Concrete Highway Bridges and Structures
CS 456	The assessment of steel highway bridges and structures	BD 56	The Assessment of Steel Highway Bridges and Structures
CS 458	The assessment of highway bridges and structures for the effects of Special Types General Order	BD 86	The Assessment of Highway Bridges and Structures For The Effects of Special Types General Order (STGO) and Special Order (SO) Vehicles
CS 460	Management of corrugated steel buried structures	BA 87	Management of Corrugated Steel Buried Structures
CS 461	Assessment and upgrading of in-service parapets	BA 37	Priority Ranking of Existing Parapets
CS 461	Assessment and upgrading of in-service parapets	IAN 97	Assessment and Upgrading of Existing Vehicle Parapets
CS 462	Repair and management of deteriorated concrete highway structures	BA 35	Inspection and Repair of Concrete Highway Structures
CS 462	Repair and management of deteriorated concrete highway structures	BA 52	The Assessment of Concrete Structures Affected by Alkali Silica Reaction The Assessment of Concrete Structures Affected by Alkali Silica Reaction
CS 463	Load testing for bridge assessment	BA 54	Load Testing for Bridge Assessment
CS 464	Non-destructive testing of highways structures	BA 86	Advice Notes on the Non-destructive Testing of Highway Structures
CS 465	Management of post-tensioned concrete bridges	BD 54	Management of Post-Tensioned Concrete Bridges
CS 466	Risk management and structural assessment of concrete half-joint deck structures	BA 39	Assessment of Reinforced Concrete Half-joints
CS 466	Risk management and structural assessment of concrete half-joint deck structures	IAN 53	Concrete Half-Joint Deck Structures
CS 466	Risk management and structural assessment of concrete half-joint deck structures	BD 44	The Assessment of Concrete Highway Bridges and Structures Incorporating Amendment August 2016
CS 467	Structural Assessment of Bridges with Deck Hinges	BA 93	Structural Assessment of Bridges with Deck Hinges
CS 468	Assessment of Freyssinet concrete hinges in highway structures	BE 05	Rules for the Design and Use of Freyssinet Concrete Hinges in Highway Structures
CS 469	The Assessment of Scour and Other Hydraulic Actions at Structures	BD 97	The Assessment of Scour and other Hydraulic Actions at Highway Structures

Table 3.1h Civils (Appraisal) (continued)

CS 470	Management of sub-standard highway structures	BD 79	The Management of Sub-standard Highway Structures
CS 551	Drainage surveys	SD 15	Implementation standard for CCTV survey of Highway Drainage systems 5.9.1 in MCHW
CS 641	Managing the maintenance of highway geotechnical assets	HD 41	Maintenance of Highway Geotechnical Assets

Table 3.1i General

Old Reference	Title	New Reference	Title
GD 301	Smart motorways	IAN 161	Smart Motorways
GD 301	Smart motorways	MPI 66	Updated requirements to IAN 161/15
GD 304	Designing health and safety into maintenance	IAN 69	Designing for Maintenance
GG 101	Introduction to the Design Manual for Roads and Bridges	GD 01	Introduction to the Design Manual for Roads and Bridges (DMRB)
GG 102	Quality Management Systems for Highway Works	GD 02	Quality Management Systems for Highway Design
GG 104	Requirements for safety risk assessment	GD 04	Standard for Safety Risk Assessment on the Strategic Road Network
GG 104	Requirements for safety risk assessment	IAN 191	Safety Governance for Highways England
GG 105	Asbestos management	GD 05	Asbestos Management in Trunk Road Assets
GG 119	Road safety audits	HD 19	Road Safety Audits
GG 128	Requirements for reporting incidents, events and undesirable circumstances: health, safety, wellbeing, structural and environmental	IAN128	Highways Agency Supply Chain Health and Safety Incident Reporting
GG 142	Walking, cycling and horse-riding assessment and review	HD 42	Walking, Cycling & Horse-Riding Assessment and Review
GG 182	Major schemes: Enabling handover into operation and maintenance	IAN 182	Major Schemes: Enabling Handover into Operation and Maintenance
GG 184	Specification for the use of Computer Aided Design	IAN 184	Highways England Data & CAD Standard Instructions on naming conventions, file types and data structures for the delivery and transfer of CAD / BIM files to Highways England and its supply chain.

Table 3.1j Environmental (Appraisal)

Old Reference	Title	New Reference	Title
LA 101	Introduction to environmental assessment	HA 200	Aims and Objectives of Environmental Assessment
LA 101	Introduction to environmental assessment	IAN 125	Supplementary guidance for users of DMRB Volume 11 'Environmental Assessment'
LA 101	Introduction to environmental assessment	IAN 126	Environmental Impact Assessment: Reporting of Determination and Publication of Notices
LA 101	Introduction to environmental assessment	HA 201	General Principles and Guidance of Environmental Impact Assessment
LA 102	Screening projects for Environmental Impact Assessment	HD 47	Screening of Projects for Environmental Impact Assessment
LA 102	Screening projects for Environmental Impact Assessment	IAN 126	Environmental Impact Assessment: Reporting of Determination and Publication of Notices
LA 102	Screening projects for Environmental Impact Assessment	IAN 133	Environmental Assessment and the Planning Act 2008
LA 103	Scoping projects for environmental assessment	HA 204	Scoping of Environmental Impact Assessments
LA 103	Scoping projects for environmental assessment	IAN 125	Supplementary guidance for users of DMRB Volume 11 'Environmental Assessment'
LA 103	Scoping projects for environmental assessment	IAN 133	Environmental Assessment and the Planning Act 2008
LA 104	Environmental assessment and monitoring	HA 205	Assessment and Management of Environmental Effects
LA 104	Environmental assessment and monitoring	HD 48	Reporting of Environmental Impact Assessments
LA 104	Environmental assessment and monitoring	IAN 125	Supplementary guidance for users of DMRB Volume 11 'Environmental Assessment'
LA 104	Environmental assessment and monitoring	IAN 133	Environmental Assessment and the Planning Act 2008
LA 105	Air quality	HA 207	Air Quality
LA 105	Air quality	IAN 170	Updated air quality advice on the assessment of future NOx and N O2 projections for users of DMRB Volume 11, Section 3, Part 1 'Air Quality'
LA 105	Air quality	IAN 174	Updated advice for evaluating significant local air quality effects for users of DMRB Volume 11, Section 3, Part 1 Air Quality (HA20 7/07)

Table 3.1j Environmental (Appraisal) (continued)

LA 105	Air quality	IAN 175	Updated advice on risk assessment related to compliance with the EU Directive on ambient air quality and on the production of Scheme Air Quality Action Plans for users of DMRB Volume 11, Section 3, Part 1 Air Quality (HA207/07)
LA 105	Air quality	IAN 185	Updated traffic, air quality and noise advice on the assessment of link speeds and generation of traffic data into speed-bands for users of DMRB Volume 11, Section 3, Part 1 Air Quality (HA207/07) and Volume 11, Section 3, Part 7 Noise (HD213/11)
LA 106	Cultural heritage assessment	HA 60	New Roads Heritage
LA 106	Cultural heritage assessment	HA 75	Trunk Roads and Archaeological Mitigation
LA 106	Cultural heritage assessment	HA 208	Cultural Heritage
LA 107	Landscape and visual effects	IAN 135	Landscape and visual effects assessment
LA 107	Landscape and visual effects	DMRB V11.3.5	Landscape Effects
LA 108	Biodiversity	DMRB V11.3.4	Ecology and Nature Conservation
LA 108	Biodiversity	IAN 130	Ecology and Nature Conservation: Criteria for Impact Assessment
LA 109	Geology and soils	DMRB V11.3.6	Land Use
LA 109	Geology and soils	DMRB V11.3.11	Geology and Soils
LA 110	Material assets and waste	IAN 153	Guidance on the Environmental Impact Assessment of Materials
LA 111	Noise and vibration	HD 213	Noise and Vibration
LA 111	Noise and vibration	IAN 185	Air Quality
LA 112	Population and human health	DMRB V11.3.6	Land Use
LA 112	Population and human health	DMRB V11.3.8	Pedestrians, Cyclists, Equestrians and Community Effects
LA 112	Population and human health	DMRB V11.3.9	Vehicle Travellers
LA 113	Road drainage and the water environment	HD 45	Road Drainage and the Water Environment
LA 115	Habitats Regulations assessment	HD 44	Assessment of Implications (of Highways and/or Roads Projects) on European Sites (Including Appropriate Assessment)
LA 116	Cultural heritage asset management plans	HA 117	Cultural Heritage Asset Management Plans
LA 116	Cultural heritage asset management plans	IAN 100	Cultural Heritage Asset Management Plans

Table 3.1j Environmental (Appraisal) (continued)

LA 117	Landscape design	HA 108	The Landscape Management Handbook
LA 117	Landscape design	HA 115	The Establishment of An Herbaceous Plant Layer In Roadside Woodland
LA 117	Landscape design	HA 13	The Planting of Trees and Shrubs
LA 117	Landscape design	HA 55	New Roads Landform and Alignment
LA 117	Landscape design	HA 56	New Roads Planting, Vegetation and Soils
LA 117	Landscape design	HA 57	New Roads Integration with Rural Landscapes
LA 117	Landscape design	HA 58	New Roads The Road Corridor
LA 117	Landscape design;	HA 60	New Roads Heritage
LA 117	Landscape design	HA 63	Improving Existing Roads Improvement Techniques
LA 117	Landscape design	HA 85	Road Improvement within Limited Land Take
LA 117	Landscape design	HA 87	Environmental Functions
LA 117	Landscape design	HA 88	Landscape Elements
LA 117	Landscape design	HA 89	Environmental Elements
LA 117	Landscape design	HA 92	Scheme Development, Implementation and Management
LA 118	Biodiversity design	HA 116	Nature Conservation Advice in Relation to Reptiles and Roads
LA 118	Biodiversity design	HA 59	Mitigating Against Effects on Badgers
LA 118	Biodiversity design	HA 67	The Wildflower Handbook
LA 118	Biodiversity design	HA 80	Nature Conservation Advice in Relation to Bats
LA 118	Biodiversity design	HA 81	Nature Conservation Advice in Relation to Otters
LA 118	Biodiversity design	HA 84	Nature Conservation and Biodiversity
LA 118	Biodiversity design	HA 97	Nature Conservation Management Advice in Relation to Dormice
LA 118	Biodiversity design	HA 98	Nature Conservation Management Advice in Relation to Amphibians
LA 118	Biodiversity design	IAN 116	Nature Conservation Advice in Relation to Bats
LA 119	Roadside environmental mitigation and enhancement	HA 65	Design Guide for Environmental Barriers
LA 119	Roadside environmental mitigation and enhancement	HA 66	Environmental Barriers Technical Requirements

Table 3.1j Environmental (Appraisal) (continued)

LA 120	Environmental management plans	IAN 183	Environmental Management Plans
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Table 3.1k Technology (Appraisal)

Old Reference	Title	New Reference	Title
TA 101	Traffic signalling systems (appraisal);	TA 12	Traffic Signals on High Speed Roads
TA 101	Traffic signalling systems (appraisal);	TA 16	General Principles of Control by Traffic Signals
TA 101	Traffic signalling systems (appraisal);	TA 56	Hazardous Cattle Crossings: Use of Flashing Amber Lamps
TA 101	Traffic signalling systems (appraisal);	TA 82	The Installation of Traffic Signals and Associated Equipment
TA 101	Traffic signalling systems (appraisal);	TA 84	Code of Practice for Traffic Control and Information Systems for All-Purpose Roads
TA 101	Traffic signalling systems (appraisal);	TD 07	Statutory Approval of Traffic Control Equipment
TA 101	Traffic signalling systems (appraisal);	TD 24	All-purpose Trunk Roads Inspection and Maintenance of Traffic Signals and Associated Equipment
TA 101	Traffic signalling systems (appraisal);	TD 35	All Purpose Trunk Roads MOVA System of Traffic Control at Signals
TA 121	Ramp metering (Assessment)	IAN 103	Ramp metering
TA 121	Ramp metering (Assessment)	IAN 121	Advice regarding implementation of Integrated Traffic Management
TA 501	Road lighting (appraisal)	IAN 167	Guidance for the Removal of Road Lighting
TA 501	Road lighting (appraisal)	TA 49	Appraisal of New and Replacement Lighting on the Strategic Motorway and All Purpose Trunk Road Network

Table 3.1I Technology (Design)

Old Reference	Title	New Reference	Title
TD 101	Traffic signalling systems (design);	TA 12	Traffic Signals on High Speed Roads
TD 101	Traffic signalling systems (design);	TA 16	General Principles of Control by Traffic Signals
TD 101	Traffic signalling systems (design);	TA 56	Hazardous Cattle Crossings: Use of Flashing Amber Lamps
TD 101	Traffic signalling systems (design);	TA 82	The Installation of Traffic Signals and Associated Equipment
TD 101	Traffic signalling systems (design);	TD 84	Code of Practice for Traffic Control and Information Systems for All-Purpose Roads
TD 101	Traffic signalling systems (design);	TD 07	Statutory Approval of Traffic Control Equipment
TD 101	Traffic signalling systems (design);	TD 24	All-purpose Trunk Roads Inspection and Maintenance of Traffic Signals and Associated Equipment
TD 101	Traffic signalling systems (design);	TD 35	All Purpose Trunk Roads MOVA System of Traffic Control at Signals
TD 121	Ramp metering	IAN 103	Ramp metering
TD 121	Ramp metering	IAN 121	Advice regarding implementation of Integrated Traffic Management
TD 131	Roadside technology and communications	TD 17	Criteria for the Provision of Closed Circuit Television on Motorways
TD 131	Roadside technology and communications	TD 45	Detection on the motorway and trunk road network
TD 131	Roadside technology and communications	TD 71	Technology Overview and General Requirements
TD 131	Roadside technology and communications	TD 72	Transmission Infrastructure
TD 131	Roadside technology and communications	TD 73	Emergency Roadside Telephones (ERT)
TD 501	Road lighting	TA 49	Appraisal of New and Replacement Lighting on the Strategic Motorway and All Purpose Trunk Road Network
TD 501	Road lighting	TD 23	Trunk Roads and Trunk Road Motorways Inspection and Maintenance of Road Lighting
TD 501	Road lighting	TD 34	Design of Road Lighting for the Strategic Motorway and All Purpose Trunk Road Network
TD 501	Road lighting	IAN 167	Guidance for the Removal of Road Lighting

Table 3.1m Technology (Maintenance)

Old Reference	Title	New Reference	Title
TM 101	Traffic signalling systems (maintenance and operation)	TA 12	Traffic Signals on High Speed Roads
TM 101	Traffic signalling systems (maintenance and operation)	TA 16	General Principles of Control by Traffic Signals
TM 101	Traffic signalling systems (maintenance and operation)	TA 56	Hazardous Cattle Crossings: Use of Flashing Amber Lamps
TM 101	Traffic signalling systems (maintenance and operation)	TA 82	The Installation of Traffic Signals and Associated Equipment
TM 101	Traffic signalling systems (maintenance and operation)	TA 84	Code of Practice for Traffic Control and Information Systems for All-Purpose Roads
TM 101	Traffic signalling systems (maintenance and operation)	TD 07	Statutory Approval of Traffic Control Equipment
TM 101	Traffic signalling systems (maintenance and operation)	TD 24	All-purpose Trunk Roads Inspection and Maintenance of Traffic Signals and Associated Equipment
TM 101	Traffic signalling systems (maintenance and operation)	TD 35	All Purpose Trunk Roads MOVA System of Traffic Control at Signals

Table 3.1n Technology (Inspection & Assessment)

Old Reference	Title	New Reference	Title
TS 101	Traffic signalling systems (inspection and assessment);	TA 12	Traffic Signals on High Speed Roads
TS 101	Traffic signalling systems (inspection and assessment);	TA 16	General Principles of Control by Traffic Signals
TS 101	Traffic signalling systems (inspection and assessment);	TA 56	Hazardous Cattle Crossings: Use of Flashing Amber Lamps
TS 101	Traffic signalling systems (inspection and assessment);	TA 82	The Installation of Traffic Signals and Associated Equipment
TS 101	Traffic signalling systems (inspection and assessment);	TA 84	Code of Practice for Traffic Control and Information Systems for All-Purpose Roads
TS 101	Traffic signalling systems (inspection and assessment);	TD 07	Statutory Approval of Traffic Control Equipment
TS 101	Traffic signalling systems (inspection and assessment);	TD 24	All-purpose Trunk Roads Inspection and Maintenance of Traffic Signals and Associated Equipment
TS 101	Traffic signalling systems (inspection and assessment);	TD 35	All Purpose Trunk Roads MOVA System of Traffic Control at Signals

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