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## ANNEX 1 PUBLICATIONS REFERRED TO IN THE NOTES FOR GUIDANCE

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# ANNEX 1

## PUBLICATIONS REFERRED TO IN THE NOTES FOR GUIDANCE

### 1. (05/01) **BRITISH STANDARDS**

(Published by the British Standards Institution)

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		NG Specification Clause/Table/Sample Appendix
BS 381C	Specification for colours for identification, coding and special purposes.	1212
BS 434	Bitumen road emulsions (anionic and cationic). (11/04)	1046
	Part 1. Specification for bitumen road emulsions. (11/04)	NG Sample Appx 7/4 948
	Part 2. Code of practice for use of bitumen road emulsions.	918 918
BS 505	1971. Specification for road traffic signals (AMD 1990, 1976). (08/03)	1217
BS 594	Hot rolled asphalt for roads and other paved areas.	901 905 943
BS 594-1	Part 1. Specification for constituent materials and asphalt mixtures. (11/03)	NG Sample Appx 7/1 904 910 911 911SE 915 Table NG 9/32 943
BS 594-2	Part 2. Specification for the transport, laying and compaction of rolled asphalt. (11/03)	901 920 921 942 943 945
BS 598	Sampling and examination of bituminous mixtures for roads and other paved areas.	
	Part 102. Analytical test methods.	943 943
	Part 104. Methods of test for the determination of density and compaction. (11/03)	929
	Part 105. Methods of test for the determination of texture depth.	921 942
	Part 107. Method of test for the determination of the composition of design wearing course rolled asphalt.	911 911SE

	Part 108. Methods for determination of the condition of the binder on coated chippings and for measurement of the rate of spread of coated chippings.	915
	Part 110. Methods of test for the determination of wheel-tracking rate and depth.	943
	Part 111. Method for determination of resistance to permanent deformation bituminous mixtures subject to unconfined uniaxial loading.	NG Sample Appx 7/3
BS 709	Methods of destructive testing fusion welded joints and weld metal in steel. (05/04)	1310
BS 812	Testing aggregates. (05/04)	
	Part 120. Method for testing & classifying drying shrinkage of aggregates in concrete. (05/04)	1702
	Part 121. Methods for determination of soundness. (05/04)	801
	Part 124: 1989. Method for determination of frost-heave. (05/04)	801
BS 871	Specification for abrasive papers and cloths. (05/04)	402 408 1310
BS 873	Road traffic signs and internally illuminated bollards.	1200 1202 1221 1200NI
	Part 1. Methods of test.	1202 1203 1214
	Part 2. Specification for miscellaneous signs.	1216
	Part 5. Specification for internally illuminated signs and external lighting luminaires.	1202
	Part 6. Specification for retroreflective and non-retroreflective signs.	1202 1204
	Part 7. Specification for posts and fittings.	1204
BS 882	Specification for aggregates from natural sources for concrete. (11/03)	622
BS 970	Specification for wrought steels for mechanical and allied engineering purposes.	1801
BS 1047	1996. Part 1. Specification for air-cooled blast-furnace slag aggregate for use in construction. (05/04)	801
BS 1199 and BS 1200	Specifications for building sands from natural sources.	1716

BS 1377	Methods of test for soils for civil engineering purposes. Part 2. Classification tests. (11/04)	631
	Part 3. Chemical and electro-chemical tests. (11/03)	637
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	Part 4. Compaction-related tests. (11/04)	804
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	Part 6. Consolidation and permeability tests in hydraulic cells and with pore pressure measurement.	640
BS 1707	Specification for hot binder distributors for road surface dressing.	919
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BS 1722	Fences.	303
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BS 1881	Testing concrete. (05/04)	
	Part 201. Guide to the use of non-destructive methods of test for hardened concrete.	1727
	Part 204. Recommendations on the use of electromagnetic cover meters.	1727
	Part 205. Recommendations for radiography of concrete.	1727
BS 1924	Stabilized materials for civil engineering purposes. (11/04)	870
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		1046
BS 2000	Methods of test for petroleum and its products.	NG Sample Appx 7/1.
BS 2015	Glossary of paint and related terms. (05/03)	1911
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BS 2499	Hot-applied joint sealant systems for concrete pavements. Part 1. Specification for joint sealants. (11/03)	710
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BS 3145	Specification for laboratory pH meters.	Table NG 16/1
'BS 3195-3,; EN 58'	Methods for - Sampling petroleum products Part 3: Method for sampling bituminous binders. (11/04)	NG Sample Appx 7/1
BS 3690	Bitumens for building and civil engineering. (11/03)	NG Sample Appx 7/4
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BS 3882	Specification for topsoil.	3006
BS 3900	Methods of test for paints. Part C5. Determination of film thickness.	1914
BS 3921	Specification for clay bricks.	2406
		NG Sample Appx 24/1
BS 3923	Methods for ultrasonic examination of welds. Part 2. Automatic examination of fusion welded butt joints in ferritic steels.	1801
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BS 3969	Recommendations for turf for general purposes.	3005
BS 4027	Specification for sulfate-resisting Portland cement. (05/04)	1704
BS 4254	Specification for two-part polysulphide-based sealants.	1016
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BS 4395	Specification for solderable tin or tin-lead coated wires for component terminations.	1801
	Part 2. High grade bolts and nuts general grade washers.	1801
BS 4466	Specification for scheduling, dimensioning, bending and cutting of steel reinforcement for concrete.	1713
BS 4800	Schedule of paint colours for building purposes. (05/03)	1911 1912 1912NI Appx 19/4 Appx 19/4SE 5008 5009 5009NI Appx 50/4 Appx 50/4SE Appx 50/4NI
BS 4872	Specification for approval of welders when welding procedure is not required.	1800
BS 4887	Mortar admixtures.	2404
BS 4987	Coated macadam for roads and other paved areas.	NG Sample Appx 7/1 901 906 908 909 913 914 916 917 929
BS 4987-1	Part 1. Specification for constituent materials and for mixtures. (11/04)	NG Sample Appx 7/1 908 909 912 914 916 929
BS 4987-2	Part 2. Specification for transport, laying and compaction. (11/04)	901 912 920
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BS 5212-2	Cold applied joint sealant systems for concrete pavements Part 2: Code of practice for the application and use of joint sealants. (11/03)	Table NG 1/1
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	Part 3. Code of practice for design of steel bridges.	1801
	Part 4. Code of practice for design of concrete bridges.	1602 1603 1610 1612 1704 1712 1716 1717 1727
	Part 6 : 1999 (Amd. No. 13715, 3 October 2002). Specification for materials and workmanship, steel. (05/04)	1801 NG Sample Appx 18/1
	Part 8 : 1978. Recommendations for materials and workmanship, concrete, reinforcement and prestressing tendons.	1724
	Part 9.1 : 1983. Code of practice for design of bridge bearings.	NG Sample Appx 21/1
	Part 9.2 : 1983. Specification for materials, manufacture and installation of bridge bearings.	2101
	Part 10 : 1980. Code of practice for fatigue.	1717 1801
BS 5467	Specification for armoured cables having thermosetting insulation for 600/1000 V and 1900/3300 V. (11/03)	Table NG 1/1
BS 5480	Specification for glass reinforced plastics (GRP) pipes, joints and fittings for use for water supply or sewerage.	NG Sample Appx 5/1
BS 5489	Road lighting.	NG Sample Appx 14/2
	Part 2. Code of practice for lighting for traffic routes.	NG Sample Appx 14/4
BS 5589	Code of practice for preservation of timber.	304
BS 5628	Code of practice for use of masonry.	
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	Part 3. Materials and components, design and workmanship. (11/03)	2401 2404 2409 2412 2413 2414 2415
BS 5649	Lighting columns.	NG Sample Appx 13/2
	Part 2: 1978 (AMD 3136, 1979). Dimensions and tolerances. (11/03)	1309 NG Sample Appx 13/1 Appx 13/3 Appx 13/1NI Appx 13/7 Appx 13/9
BS 5666	Methods of analysis of wood preservatives and treated timber.	
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BS 5835	Recommendations for testing of aggregates. (05/04)	804 948 1046
BS 5930	Code of practice for site investigations (formerly CP 2001).	642
PP 5930	Site investigations. A guide for higher education to BS 5930:1999. Code of practice for site investigations. (11/03)	642
BS 5931	Code of practice for machine laid in situ edge details for paved areas. (11/03)	Table NG 1/1
BS 5972	Specification for photoelectric control units for road lighting.	1411
BS 6072	Method of magnetic particle flaw detection.	1801
BS 6073	Precast concrete masonry units.	2407 NG Sample Appx 24/1
BS 6089	Guide to the assessment of concrete strength in existing structures.	1004
BS 6349	Maritime Structures.	1606
BS 6779-1	Highway parapets for bridges and other structures. Part 1. Specification for vehicle containment parapets of metal construction. 1998 (Amd. No 14290, 21 March 2003). (05/04)	408
BS 6910	Cold pour resin compound and heat-shrink cable joints in the voltage range up to 1000 V a.c. and 1500 V d.c. Part 2. Code of practice for on-site installation.	1422
BS 6925	Specification for mastic asphalt for building and civil engineering (limestone aggregate).	2005
BS 7123	Specification for metal arc welding of steel for concrete reinforcement.	1717
BS 7282	Field test method for determining the relative protective effectiveness of a wood preservative ground contact. (11/03)	1311
BS 7430	Code of practice for earthing.	1420
BS 7668	Specification for weldable structural steels. Hot finished structural hollow sections in weather resistant steels.	NG Sample Appx 18/1
BS 7671	Regulations for Electrical Installations. IEE Wiring Regulations Sixteenth Edition.	1418 1420 1424 1424NI 1526
BS 7818	Specification for pedestrian restraint systems in metal. (05/04)	NG Sample Appx 4/1
BS 7903	1997. Guide to selection and use of gully tops and manholes covers for installation within the highway.	507
BS 8002	Code of practice for earth retaining structures.	1615
BS 8004	Code of practice for foundations.	630 1602 1603 1610
BS 8008	Safety precautions and procedures for the construction and descent of machine-bored shafts for piling and other purposes.	1603
BS 8081	Code of practice for ground anchorages.	624
BS 8102	Code of practice for protection of structures against water from the ground.	1610 1613



BS 8005	Part1. Guide to new sewerage construction.	2505
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BS 8417	Recommendations for the Preservation of Timber. (11/02)	311
BS 8500	Concrete. (05/04)	402 2602
BS 8500-1	Concrete. Complementary British Standard to BS EN 206-1. Part 1: Method of specifying and guidance for the specifier. (05/04)	1001 1701 1702 1703 1704 1707 NG Sample Appx 17/5
BS 8500-2	Concrete. Complementary British Standard to BS EN 206-1. Part 2: Specification for constituent materials and concrete. (05/04)	1001 1701 1704
BS 8666	Part 1. Specification for scheduling dimensioning bending and cutting of steel reinforcement for concrete.	1712 1713
BS EN 40	Lighting Columns	
BS EN 40-3-1	Part 3-1: Design and verification – Specification for characteristic loads. (11/04)	#NG Sample Appx 13/1 NG Sample Appx 13/1 NI NG Sample Appx 13/2 NG Sample Appx 13/8
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BS EN 124	Gully tops and manhole tops for vehicular and pedestrian areas. Design requirements, type testing, marking, quality control.	507 1532
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BS EN 197-1	Cement. Part 1. Composition, specification and conformity criteria for common cements. (11/04)	813 821
BS EN 206-1	Concrete Part 1: Specification, performance, production and conformity. (11/04)	402 1001 1701 1704 1705 1706 1707
BS EN 287	Approval testing for fusion welding Part 1. Steel.	1800
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BS EN 288	Specification and approval of welding procedures for metallic materials.	1801



BS EN 288-3	Welding procedure tests for the arc welding of steels. (05/04)	402 408 1310
BS EN 288-4	Welding procedure tests for the arc welding of aluminium and its alloys. (05/04)	408 1310
BS EN 335	Safety footwear for professional use.	NG Sample Appx 1/20 NG Sample Appx 1/20NI
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BS EN 743	Plastics piping and ducting systems. Thermoplastics pipes. Determination of the longitudinal reversion. (11/03)	NG Sample Appx 5/7 Tables 1 and 2
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BS EN 763	Plastics piping and ducting systems. Injection-moulded thermoplastics fittings. Test method for visually assessing effects of heating. (11/03)	NG Sample Appx 5/7 Tables 1 and 2
BS EN 772-3	Methods of test for masonry units. Part 3: Determination of net volume and percentage of voids of clay masonry units by hydrostatic weighing. (11/03)	2406
BS EN 772-7	Methods of test for masonry units. Part 7: Determination of water absorption of clay masonry damp proof course units by boiling in water. (11/03)	2406
BS EN 922	Plastics piping and ducting systems. Pipes and fittings of unplasticized poly(vinyl chloride) (PVC-U). Specimen preparation for determination of the viscosity number and calculation of the k-value. (11/03)	NG Sample Appx 5/7 Tables 1 and 2
BS EN 933-1	Tests for geometrical properties of aggregates. Part 1. Determination of particle size distribution – sieving method. (11/03)	901

BS EN 934-2	Admixtures for concrete, mortar and grout. Part 2: Concrete admixtures - Definitions, requirements, conformity, marking and labelling. (05/04)	Table NG 1/1 1704
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BS EN 1008	Mixing water for concrete – Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete. (11/03)	Table NG 1/1
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BS EN 14 227-12	Hydraulically bound mixtures - Specifications. Part 12: Soil treated by slag. (11/04)	800 810 870
BS EN 14 227-13	Hydraulically bound mixtures - Specifications. Part 13: Soil treated by hydraulic road binder. (11/04)	800 810 870
BS EN 14 227-14	Hydraulically bound mixtures - Specifications. Part 14: Soil treated by fly ash. (11/04)	800 810 870

BS EN 22 063	Metallic and other inorganic coatings. Thermal spraying. Zinc, aluminium and their alloys. (05/03)	1904 1907 1910 5006
BS EN 60 651	Specification for sound level matters.	NG Sample Appx 1/9 Notes (iv)
BS EN 60 804	Specification for integrating - averaging sound level meters.	NG Sample Appx 1/9 Notes (iv)
BS EN 60 947	Part 3. Switches, disconnectors, switch-disconnectors and fuse-combination units.	1418
BS EN ISO 527-1	Plastics. Determination of tensile properties. General principles. (11/03)	NG Sample Appx 5/7 Tables 1 and 2
BS EN ISO 1183-3-3	Plastics. Methods for determining the density of non-cellular plastics. Gas pycnometer method. (11/03)	NG Sample Appx 5/7 Tables 1 and 2
BS EN ISO 1856	Flexible cellular polymeric materials. Determination of compression set. (11/03)	Table NG 1/1
BS EN ISO 2440	Flexible and rigid cellular polymeric materials - Accelerated aging tests. (11/03)	Table NG 1/1
BS EN ISO 2808	Paints and varnishes. Determination of film thickness. (05/03)	1914 5012
BS EN ISO 2813	Paint and varnishes. Measurement of specular gloss of non-metallic Paint films at 20°, 60° and 85°. (05/03)	1911 5008
BS EN ISO 3506-1	Mechanical properties of corrosion-resistant stainless steel fasteners. Part 1: Bolts, screws and studs. (11/03)	Table NG 1/1 1801
BS EN ISO 3506-2	Part 2: Nuts. (11/03)	Table NG 1/1 1801
BS EN ISO 6259	Thermoplastics pipes. Determination of tensile properties. General test method. (11/03)	NG Sample Appx 5/7 Tables 1 and 2
BS EN ISO 8502-4	Preparation of steel substrates before application of paints and related products. Test for the assessment of surface cleanness. Guidance in the estimation of the probability of condensation prior to paint application. (05/03)	1914 5012
BS EN ISO 8502-8	Preparation of steel substrates before application of paints and related products. (05/03)	5012
BS EN ISO 8504-3 (BS 7079-D3)	Preparation of steel substrates before application of paints and related products. Surface preparation methods. Hand- and power-tool cleaning. (05/03)	5003 5003NI
BS EN ISO 9001	Quality management systems. Requirements. (05/04)	104 Appx 1/24 NG Sample Appx 7/3 NG Sample Appx 7/4 NG Sample Appx 7/7 NG Sample Appx 7/21



BS EN ISO 1133	Plastics. Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics. (11/03)	NG Sample Appx 5/7 Tables 2 and 3
BS ISO 1817	Physical testing of rubber. Determination of the effects of liquids. (11/03)	Table NG 1/1

WITHDRAWN

**2. (05/01) BRITISH STANDARD CODES OF PRACTICE**  
**(Published by the British Standards Institution)**

**NG Specification**  
**Clause/Table/Sample**  
**Appendix**

Note: Code of practice published under a BS NO. are included in Section 1

CP 312      Code of practice for plastic pipework (thermoplastic materials).      518

3. (05/01) **BRITISH STANDARD DRAFTS FOR DEVELOPMENT (DD)  
DOCUMENTS**

(Published by the British Standards Institution)

NG Specification  
Clause/Table/Sample  
Appendix

NG Sample Appx 7/1  
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NG Sample Appx 7/1  
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Table NG 1/1

DD 213: 1996 Method for determination of the indirect tensile stiffness modulus of bituminous mixtures. (11/04)

DD 226: 1996 Method of determining resistance to permanent deformation of bituminous mixtures subject to unconfined dynamic loading. (11/04)

DD 232: 1996 Method for determination of the maximum binder content of bituminous mixtures without excessive binder drainage (11/04)

4 (05/01) EUROPEAN STANDARDS (Including draft standards (prEN))		NG Specification Clause/Table/Sample Appendix
EN 727	Plastics piping and ducting systems. Thermoplastics pipes. Determination of Vicat softening temperature (VST).	NG Sample Appx 5/7 (Table 2)
EN 743	Plastics piping and ducting systems. Thermoplastics pipes. Determination of the longitudinal reversion.	NG Sample Appx 5/7 (Table 1)
EN 763	Plastics piping and ducting systems. Injection moulded thermoplastics fittings. Test method for visually assessing effects of heating.	NG Sample Appx 5/7 (Table 1)
EN 922	Plastics piping and ducting systems. Pipes and fittings of unplasticized poly (vinyl chloride) (PVC-U). Specimen preparation and calculation of the K-value.	NG Sample Appx 5/7 (Table 1)
EN 1829	High pressure cleaners. High pressure water jet machines. Safety requirements. (11/03)	521
EN 1905	Plastics piping and ducting systems. Unplasticized poly (vinyl chloride) (PVC-U) pipes, fittings and material. Method of assessing of the PVC content based on total chloride content.	NG Sample Appx 5/7 (Table 1)
EN 45 002	General criteria for the assessment of testing laboratories. (05/04)	1001
EN 45 011	General criteria for certification bodies operating product certification.	104
EN 45 012	General criteria for certification bodies operating quality system certification.	104
DD ENV 1317-4:2002	Road restraint systems. Performance classes, impact test acceptance criteria and test methods for terminals and transitions of safety barrier. (05/04)	401 NG Sample Appx 4/2
prEN ISO 3126	Plastics piping systems. Plastic piping components. Measurement and Determination of Dimensions (Document number 00/124147(PR188NO381)).	518
prEN 933-11	Tests for geometrical properties of aggregates - Part 11: Classification test for the constituents of coarse recycled aggregate (11/04)	710
prEN 12 274-8	Slurry Surfacing - Test Methods Part 8: Visual Assessment of Defects.	918
prEN 13 074	Bitumen and Bituminous binders - Recovery of binder from bitumen emulsions by evaporation. (11/03)	923 923 (Table 1)
prEN 13 877-1:	Concrete pavements	1000
(October 2003):	Part 1: Materials for concrete pavements. (05/04)	1001
prEN 13 877-2	Concrete pavements	1000
(January 2002)	Part 2: Functional requirements for concrete pavements. (05/04)	

## 5. (05/01) INTERNATIONAL STANDARDS

(Published by the International Organization for Standardization)

		NG Specification Clause/Table/Sample Appendix
ISO 527	Plastics. Determination of tensile proportions.	NG Sample Appx 5/7 (Table 3)
ISO 1133	Plastics. Determination of the melt mass rate (MFR) and the melt volume-flow rate (MVR) of thermoplastic.	NG Sample Appx 5/7 (Table 3)
ISO 1183	Plastics. Methods for determining the density and relative density of non-cellular plastics.	NG Sample Appx 5/7
ISO 2808	Paints and vanishes. Determination of the film thickness.	1914
ISO 4440	Thermoplastics pipes and fittings. Determination of melt mass-flow rate.	NG Sample Appx 5/7 (Table 1)
ISO 4451	Polyethylene (PE) pipes and fittings. Determination of reference density of uncoloured and black polyethylenes.	NG Sample Appx 5/7 (Table 1)
ISO 11819	Measurement of the influence of road surfaces on traffic noise Part 1. Statistical Pass-BY method.	918 922
ISO 12091	Structured-wall thermoplastics pipes- Oven test.	NG Sample Appx 5/7 (Table 1)

6.	(05/01) <b>DEPARTMENT OF TRANSPORT; DEPARTMENT OF ENVIRONMENT, TRANSPORT AND THE REGIONS; SCOTTISH DEVELOPMENT DEPARTMENT; THE SCOTTISH OFFICE; WELSH OFFICE, AND DEPARTMENT OF THE ENVIRONMENT FOR NORTHERN IRELAND PUBLICATIONS</b>	
	(Published by The Stationery Office or HMSO)	
		<b>NG Specification Clause/Table/Sample Appendix</b>
	Traffic Signs Manual - Chapter 5.	1212 1213
	Traffic Signs Manual - Chapter 7.	1202
	Traffic Signs Manual - Chapter 8.	117 117NI NG Sample Appx 1/2 NG Sample Appx 1/2NI 1216
	Working Drawings for Traffic Sign Design and Manufacture. (3 Volumes)	1206 1206NI
	Local Transport Note 2/94: Directional Informationary Signs Interim Design Note.	1202

## 7. (05/01) UK OVERSEEING ORGANISATIONS PUBLICATIONS INCLUDING THEIR PREDECESSOR'S PUBLICATIONS

(Published by the Stationery Office or HMSO)

		NG Specification Clause/Table/Sample Appendix
	<b>Bridges - Advice Notes</b>	
BA 27	Quality Assurance Scheme for Paints and Similar Protective Coatings. (DMRB 2.4.2) (05/03)	1901 5008
	<b>Bridges - Standards</b>	
BD 2	Technical Approval of Highway Structures. (DMRB 1.1.1) (05/04)	106 NG Sample Appx 1/19 NG Sample Appx 6/10 1710 NG Sample Appx 13/1 NG Sample Appx 25/2 NG Sample Appx 25/4
BD 7	Weathering Steel for Highway Structures. (DMRB 2.3.8) (02/03)	2504
BD 12	Design of Corrugated Steel Buried Structures with Spans Greater than 0.9 metres and up to 8 metres. (DMRB 2.2.6) (02/03)	623
BD 20	Bridge Bearings – Use of BS 5400: Part 9: 1983. (DMRB 2.3.1)	2101 NG Sample Appx 21/1
BD 24	Design of Concrete Highway Bridges. Use of BS 5400 : Part 4 : 1990. (DMRB 1.3.1)	1602 1603 1610
BD 26	Design of Lighting Columns. (DMRB 2.2.1) (11/03)	1301 1301 NI 1303 #NG Sample Appx 13/1 NG Sample Appx 13/1NI NG Sample Appx 13/2 NG Sample Appx 13/1NI
BD 33	Expansion Joints for Use in Highway Bridge Decks. (DMRB 2.3.6)	NG Sample Appx 23/1
BD 35	Quality Assurance Scheme for Paints and Similar Protective Coatings. (DMRB 2.4.1) (05/03)	1914 1912SE 5008 5012
BD 52	The Design of Highway Bridge Parapets. (DMRB 2.3.3)	2201 NG Sample Appx 22/1
BD 70	Strengthening/Reinforced Soils and other Fills for Retaining Walls and Bridge Abutments (Use of BS 8006 : 1995). (MCHW 2.1.5) (02/03)	622 2502



BD 74	Foundations. (DMRB 2.1.8) (11/03)	1602 1603 1610
BD 83	Design of CCTV Masts. (DMRB 2.2.11) (11/03)	#1301 1301 NI 1303 NG Sample Appx 13/5 NG Sample Appx 13/6
BD 87	Maintenance Painting of Steelwork (DMRB 3.2.2) (05/03)	5012
BD 88	Design of Cantilever Masts for Traffic Signals and/or Speed Cameras. (DMRB 2.2.13) (11/03)	#1301 1301 NI 1303 NG Sample Appx 13/7
<b>Highways - Advice Notes</b>		
HA 40	Determination of Pipe and Bedding Combinations for Drainage Works. (DMRB 4.2.5) (02/03)	501 NG Sample Appx 5/1 2505
HA 41	A Permeameter for Road Drainage Layers. (DMRB 4.2)	640
HA 44	Earthworks : Design and Preparation of Contract Documents. (DMRB 4.1.1)	605 NG Sample Appx 6/1
HA 65	Design Guide for Environmental Barriers. (DMRB 10.5.1)	2504
HA 66	Environmental Barriers : Technical Requirements. (DMRB 10.5.2)	2504
<b>Highways - Standards</b>		
HD 22	Managing Geotechnical Risk. (DMRB 4.1.2) (02/03)	1601 1704
HD 25	Pavement Design and Maintenance: Foundations. (DMRB 7.2.2) (05/04)	613 801
HD 26	Pavement Design. (DMRB 7.2.3) (11/04)	701 819
HD 27	Pavement Design and Maintenance: Pavement Construction Methods. (DMRB 7.2.4)	938
HD 35	Technical Information. (DMRB 7.1.2) (11/04)	800
HD 36	Pavement Design and Maintenance: Skidding Resistance. (DMRB 7.5.1) (05/04)	NG Sample Appx 7/1 NG Sample Appx 7/3 NG Sample Appx 7/7 NG Sample Appx 7/21 901 918 919 922 924 Table NG 9/22 942 1044
HD 31	Maintenance of Bituminous Roads. (DMRB 7.4.1)	#706 926

HD 32	Maintenance of Concrete Roads. (DMRB 7.4.2)	#706
HD 37	Bituminous Surfacing Materials and Techniques. (DMRB 7.5.2)	NG Sample Appx 7/2 NG Sample Appx 7/3 NG Sample Appx 7/21 920 919 922
HD 38	Concrete Surfacing and Materials (DRMB 7.5.2)	1044
<b>Traffic Engineering - Advice Notes</b>		
TA 60	The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads. (DMRB 8.2)	1206 1206NI
TA 61	Currency of the Traffic Signs Manual. (DMRB 8.2.2)	117 117NI
TA 63	Convoy Working (DMRB 8.4.5)	117 117NI
TA 64	Narrow lane and tidal flow operations on motorways and dual carriageway trunk roads with full width hard shoulders. (DMRB 8.4.3)	117 117NI
<b>Traffic Engineering - Standards</b>		
TD 33	The Use of Variable Message Signs on All-Purpose and Motorway Trunk Roads. (DMRB 8.2)	1206 1206NI
TD 49	The Mobile Lane Closure Technique for Use on Motorway and Other Dual Carriageway Trunk Roads. (DMRB 8.4.4) (11/03)	117 117NI
<b>Contracts - Advice Notes</b>		
SA 1	List of Approved/Registered Products. (MCHW 0.3.1)	104 1901
SA 2	Assessing Equivalence. (MCHW 0.3.2).	104
SA 3	Testing in Highway Construction Contracts. (MCHW 0.3.3)	000 105
SA 9	Ground Investigation Procedure. (MCHW 5.3.2) (11/03)	600 1601
<b>Contracts - Standards</b>		
SD 4	Procedures for Adoption of Proprietary Manufactured Structures. (MCHW 0.2.4)	106
SD 10	Construction (Design and Management) Regulations 1994 : Requirements for Health and Safety File (MCHW 6.1.11). (02/03) Design Manual for Roads and Bridges (DMRB).	000 600 605 1200 1200NI 1301 1302 1301NI 2606NI

SD 13	Documentation Requirements for Ground Investigation Contracts. (11/03)	1601
	Design Manual for Roads and Bridges (DMRB). Volume 7	700
		900
		948
		1046
	Design Manual for Roads and Bridges (DMRB). Volume 8	1301
		1301NI
	Design Manual for Roads and Bridges (DMRB). Volume 10	1301
		3006
		3007
		3012
	Trunk Road Maintenance Manual Volume 1.	NG Sample Appx 1/20
		NG Sample Appx 1/20NI
		2606
	WO Trunk Road Management and Maintenance Notice 2/86.	2606

8.

(05/01) **HIGHWAYS AGENCY (TSS DIVISION) PUBLICATIONS**  
(Published by the Highways Agency. E-mail: [tss\\_plans\\_registry@highways.gsi.gov.uk](mailto:tss_plans_registry@highways.gsi.gov.uk)) (02/03)

	<b>Traffic Control and Communications - Specifications</b>	
MCH 1349	Maintenance and Operational Requirements for New Systems and Equipment. (02/03)	1525 1529
MCH 1454	Transmission Standards and Procedures.	1507
MCH 1540	Specification for the Installation of Detector Loops on Motorways and all Purpose Trunk Roads.	1218
MCH 1593	Maintenance Instruction - Changes to Communication Infrastructure.	1525 1527
MCH 1596	NMCS: Site Data Procedures.	1525

## 9. (05/01) TRANSPORT RESEARCH LABORATORY REPORTS

(Published by TRL (formerly TRRL))

		NG Specification Clause/Table/Sample Appendix
LR 346	Selection of materials for sub-surface drains - R Spalding.	505 515
LR 1094	Pre split blasting for highway rock excavation - G D Matheson, 1983.	603
LR 1102	Compaction of bituminous road materials using vibratory rollers - W D Powell and D Leech, 1983.	901
PR 78	Tests for voids and compaction in rolled asphalt surfacing - M E Daines.	943
PR 113	Advice on integrity testing of piles - A J C Gent and P Darley.	1608
RR 4	Cooling of bituminous layers and time available for their compaction - M E Daines.	901
RR 45	Winter air temperature in relation to frost damage in roads - P T Sherwood and P G Roe (11/04)	814
RR 53	Ground vibration caused by civil engineering works - B M New.	607
RR 130	Pilot-scale studies of the trafficability of soil by earthmoving vehicles, A W Parsons and A F Toombs.	632SE
SR 717	Standards of compaction of dense roadbase macadam - W D Powell and D Leech.	901 929
SR 754	Nuclear gauges for measuring the density of roadbase macadam : report of a working party, 1982.	929
PR 72	Swelling pressure of compacted clayey backfill.	610
TRL 152	Earth pressures against an experimental retaining wall backfilled with Lias Clay, A H Brookes, D R Carder, P Darley.	610
TRL 216	Road haunches : a guide to re-usable materials, J Porter, 1996.	948 1046
TRL 273	Use and application of the MCA with particular reference to glacial tills - G D Matheson and M G Winter.	632SE
TRL 386	Design guide and specification for structural maintenance of highway pavements by cold in-situ recycling, Milton and Earland, 1999.	948 1046

TRL 447	Sulfate specification for structural backfills, J M Reid, M A Czerewko and J C Cripps, 2001. (11/03)	Table NG 1/1 601 643 644 NG Sample Appx 6/1 801 801 NI 901 1001 1035 1704
	Road Note 39 (Fifth Edition). Design Guide for Road Surface Dressing. Road Research Laboratory TRL Limited. JC Nicholls (11/03)	NG Sample Appx 7/3 NG Sample Appx 7/21 919 922
TRL 611	A Guide to the use and specification of cold recycled materials for the maintenance of road pavement - D Nerrill M E Nunn and I Carswell (11/04)	816
TRL 615	Development of a More Versatile Approach to Flexible and Flexible Composite Pavement Design (11/04)	810 819
PA 3287/97	Repeated load test with vacuum confinement - M Nunn.	952
Road Note	Design Guide for Road surface dressing (11/04)	919

## 10. (05/01) ACTS AND STATUTORY INSTRUMENTS

### NG Specification Clause/Table/Sample Appendix

The Town and Country Planning (Control of Advertisements) Regulations 1999.	110
The Highways Act 1980.	117
The Highway Code 1993.	NG Sample Appx 1/17
The Motor Vehicle Construction and Use Regulations.	NG Sample Appx 1/20
The Road Transport Act.	NG Sample Appx 1/20
The Road Traffic Act 1991.	NG Sample Appx 1/20 NG Sample Appx 1/26
The Road Traffic (Northern Ireland) Order 1981.	NG Sample Appx 1/20NI
The Road Traffic (Northern Ireland) Order 1995.	NG Sample Appx 1/20NI
The Road Vehicles Lighting Regulations 1989.	NG Sample Appx 1/20
Road Vehicles Lighting Regulations (Northern Ireland) 2000.	NG Sample Appx 1/2NI NG Sample Appx 1/20NI
The New Roads and Street Works Act 1991.	706
The Electricity at Work Regulations 1989.	1424
The Traffic Signs Regulations and General Direction 2002. (08/03)	NG Sample Appx 1/2 1200 1212 1213 NG Sample Appx 12/1 NG Sample Appx 12/1NAW
The Planning (Control of Advertisements) Regulations (Northern Ireland) 1992.	110NI
The Roads (Northern Ireland) Order 1980.	117NI
Motor Vehicles (Construction and Use) Regulations (Northern Ireland) 1999.	NG Sample Appx 1/20NI
The Electricity at Work Regulations (Northern Ireland) 1991.	1424NI
The Traffic Signs Regulations (Northern Ireland) 1997.	1200NI 1206NI 1212 1213 NG Sample Appx 12/1NI
The Water Act (1989).	1618
The Environmental Protection Acts (1990 and 1995).	1618
HSE Manual Handling Operations Regulations (1992).	1532
The Wildlife and Countryside Act 1981.	3003 3012
The Protection of Badgers Act 1992.	3000
The Habitat Regulations 1994.	3012
The Control of Lead at Work Regulations. (05/03)	5001
The Control of Lead at Work Regulations (Northern Ireland) 2002. (05/03)	5001



The Control of Substances Hazardous to Health Regulations 2002. (05/03)	5003
The Control of Substances Hazardous to Health Regulations (Northern Ireland) 1999. (05/03)	5003NI
Health and Safety at Work Act (1974) (11/03)	521
Construction (Health, Safety and Welfare) Regulations (1996) (11/03)	521
Environmental Protection Act 1990 Part IIA (11/04)	601
Waste and Contaminated Land (Northern Ireland) Order 1997 - Statutory Instrument 1997 No. 2778 (N.I.19) (11/04)	601
PD 6682-2: Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas - Guidance on the use of BS EN 13043 (11/04)	901
AASHTO PP1 - Practice for Accelerated Aging of Asphalt Binder Using Pressurized Aging Vessel (PAV) (11/04)	953

## 11. (05/01) QUALITY MANAGEMENT SYSTEMS

	NG Specification Clause/Table/Sample Appendix
QA Register (formerly DTI QA Register)	104
United Kingdom Accreditation Service (UKAS)	
National Sector Schemes Documents (08/03)	104 117 117NI
British Standards Institution (BSI)	
Sector Schemes Documents	104
Highway Authorities Product Approval Scheme Certification (HAPAS)	104
European Union of Agrément Directive for Assessment of Anchor Bolts MOAT No. 42	403
Scheme 1 - Manufacture of Fencing Components (05/04)	NG Sample Appx 4/2
Scheme 2 - Supply and Installation of Fences (05/04)	NG Sample Appx 4/2
Scheme 2A - Sector Scheme Document for The Design and/or Supply, Installation and Repair of Fences (05/04)	NG Sample Appx 4/2
Scheme 2B - Sector Scheme Document for Vehicle Restraint Systems (11/04)	Table NG 1/2 NG Sample Appx 4/2
Scheme 4 - Sector Scheme Document for Preservative Treatment of Timber (11/04)	Table NG 1/2
(BWPDA Guidance Note QGN -2)	NG Sample Appx 4/2
Scheme 5 - Bridge Parapets (05/04)	NG Sample Appx 4/2
Scheme 5A - The Manufacture of Parapets for Road Restraint Systems (05/04)	NG Sample Appx 4/2
Scheme 5B - The Installation of Parapets for Road Restraint Systems (05/04)	NG Sample Appx 4/2
Scheme 6 - Lighting Column manufacture, supply and verification (11/04)	Table NG 1/2
Scheme 7 - Application of road marking and road studs (11/04)	Table NG 1/2
Scheme 8 and 10 - Installation and Maintenance of Highway Electrical Equipment (11/04)	Table NG 1/2
Scheme 12A - Static Temporary Traffic Management (11/04)	Table NG 1/2
Scheme 12B - Static Temporary Traffic Management (11/04)	Table NG 1/2
Scheme 12C - Mobile Lane Closures (11/04)	Table NG 1/2
Scheme 13A - Surface Dressing (11/04)	Table NG 1/2
Scheme 14 - Asphalt Production (11/04)	Table NG 1/2
Scheme 15 - Supply of Paving Grade Bitumen (11/04)	Table NG 1/2

12.

(05/01) **BRITISH BOARD OF AGRÉMENT CERTIFICATES**

British Board of Agrément Certificates (BBA Certificates,  
BBA HAPAS Roads and Bridges Certificates, BBA Roads and  
Bridges Certificates) (05/04)

NG Specification Clause/Table/Sample Appendix
104
407
514
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900
2000

### 13. (05/01) MISCELLANEOUS

#### NG Specification Clause/Table/Sample Appendix

The Institution of Civil Engineers (ICE) Conditions of Contracts - Thomas Telford Limited.	000
The speedometer Handbook (Second Edition) issued by Police Scientific Development Branch (PSDB) - Publication No. 27/92.	NG Sample Appx 1/26
Forest Stewardship Council (FSC) The FSC Standards for UK, FSC Standards Group, FSC UK Office, Unit D, Station Building, Llanidloes SY18 6EB Tel: 01686 413 916, Fax: 01686 412 176 Email: hanah@fsc.uk.demon.co.uk (11/02)	304
Standards for fresh concrete - BS EN 206-1 and BS 8500. British Standards Publishing Limited (05/04)	402
Directive for Assessment of Anchor Bolts (MOAT 42). European Union of Agrément.	403 1305
BRE Special Digest SDI. Concrete in aggressive ground. (Published in four parts)	501
Building Research Establishment. August 2001 (11/03)	644 1602 1603 1704 2505
HSE Manual Handling Operations Regulations 1992, Guidance on Regulations L/23-98.	507 518
HSE Booklet HS(G) 47. Avoiding danger from underground services.	NG Sample Appx 5/2
Soil Guideline Values published by DEFRA and the Environment Agency (11/04) <a href="http://environment-agency.gov.uk/commondata/105385/guide_to_using_sgvs_675263.pdf">http://environment-agency.gov.uk/commondata/105385/guide_to_using_sgvs_675263.pdf</a>	601 NG Sample Appx 6/15
The Institution of Civil Engineers (ICE) Specification for Ground Investigation, Thomas Telford Limited - 1987.	630
PP 5930:2002: Site investigations. A guide for higher education to BS 5930:1999. Code of practice for site investigations. British Standards Publishing Limited (11/03)	642
Specification for the Reinstatement of Openings in Highways. Issued by the Highway Authorities and Utilities Committee.	706
Manual for Maintenance and Repair of Concrete Roads. HMSO, 1986. (Produced jointly by the DOT and the Cement and Concrete Association) (11/03)	706 706 NI 1000

'Quality Protocol for the Production of Aggregates' - Waste and Resources Action Programme is available from WRAP, The Old Academy, 21 Horse Fair, Banbury OX16 0AH. The document is also available on the WRAP website, <a href="http://www.wrap.org.uk/">http://www.wrap.org.uk/</a> (11/04)	710
The Institution of Petroleum Test Method IP 80.	NG Sample Appx 7/1
PD 6682-6 'Aggregates for unbound and hydraulically bound materials for use in civil engineering work and road construction - Guidance on the use of BS EN 13242' British Standards Publishing Limited (05/04)	801
The American Society for Testing and Materials Standard ASTM D 2872-88 Test Method for Effect of Heat and Air and a moving film of Asphalt. (11/03)	923
TRRL Mini-Texture Meter Operating/Maintenance Manual (1986). Available from W D M Ltd, Bristol.	921 922
The Institution of Petroleum Test Method IP PM CM/99.	928
The American Society for Testing and Materials Standard ASTM D 2041-91: Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures 1991.	943
Mechanical Construction of Concrete Pavements and Ancillary Works - Concrete Society - Technical Report No. 45.	1000
Design of Concrete Mixes. HMSO, 1988.	1000
A Guide to Concrete Road Construction. HMSO, 1978.	1024
Institution of Lighting Engineers Technical Report 7: 2000 edition. (11/03)	NG Sample Appx 13/4 NG Sample Appx 13/5
Temporary Road Markings: Working Group Findings, dated March 2003 Published by the Highways Agency. (08/03)	1212
Code of Practice for Electrical Safety in Public Lighting Operation - Institution of Lighting Engineers (ILE).	1401
The Institution of Civil Engineers (ICE) Specification for cast-in-situ retaining walls with modifications.	1601
The Institution of Civil Engineers (ICE) Specification for Piling and Embedded Retaining Walls 1996 with modifications.	1601 1608 1609
Tomlinson M J (1986). Foundation Design and Construction.	1602
Hammond A J, Mitchell J M and Lord J A (1980). Design and construction of driven cast in situ piles in stiff fissured clays. Proc. Recent Developments in the Design and Construction of Piles, ICE, pp 157-168.	1602
Fleming W G K (1993). The improvement of pile performance by base grouting. Proc. ICE May 1993 pp 88 - 93.	1603
CIRIA Report PG2. Review of Problems Associated with Construction of Cast-in-Place Concrete piles.	1603

CIRIA Report PG1. A review of Bearing Pile Types. Construction Industry Research & Information Assoc.	1605
CIRIA Report RP408. The Role of Integrity Testing & Other Non-Destructive Testing in the Evaluation of Piled Foundations.	1608
CIRIA Report PG7. Pile Load Testing Procedures.	1609
Specification for steel sheet piling. Federation of Piling Specialists.	1615
Cornfield G M (1989). Steel Bearing Piles.	1615
Hutchinson M T, Daw G P, Shotton P G, James A N (1975). The Properties of Bentonite Slurries Used in Diaphragm Walls and their Control. Proc. Diaphragm walls and anchorages, ICE, pp 33-40.	1618
CIRIA Report PB3. The Use & Influence of Bentonite in Bore Pile Construction.	1618
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