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**VOLUME 0 MODEL CONTRACT  
DOCUMENT FOR MAJOR  
WORKS AND  
IMPLEMENTATION  
REQUIREMENTS**

**SECTION 2 IMPLEMENTING  
STANDARDS**

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**PART 5**

**SD 6/94**

**IMPLEMENTATION OF 1993 ANNUAL  
AMENDMENTS TO SPECIFICATION FOR  
HIGHWAY WORKS AND NOTES FOR  
GUIDANCE, HIGHWAY CONSTRUCTION  
DETAILS AND PREPARATION OF BILLS OF  
QUANTITIES FOR HIGHWAY WORKS**

**SUMMARY**

This Standard introduces the August 1993 amendments to the December 1991 edition of the Specification for Highway Works and its Notes for Guidance, the Highway Construction Details and Bills of Quantities for Highway Works. Implementation requirements for the amendments are given for their use in trunk road contracts in the UK.

**INSTRUCTIONS FOR USE**

This is a new document to be incorporated into the Manual.

1. Remove existing contents page for Volume 0 dated May 1993 and insert new contents page for Volume 0 dated April 1994.
2. Insert SD 6/94 into Volume 0 Section 2.
3. Archive this sheet as appropriate.

THE HIGHWAYS AGENCY

THE SCOTTISH OFFICE INDUSTRY DEPARTMENT

THE WELSH OFFICE  
Y SWYDDFA GYMREIG

THE DEPARTMENT OF THE ENVIRONMENT FOR NORTHERN IRELAND

# **Implementation of 1993 Annual Amendments to Specification for Highway Works and Notes for Guidance, Highway Construction Details and Preparation of Bills of Quantities for Highway Works**

**Summary:**

This Standard introduces the August 1993 amendments to the December 1991 edition of the Specification for Highway Works and its Notes for Guidance, the Highway Construction Details and Preparation of Bills of Quantities for Highway Works. Implementation requirements for the amendments are given for their use in trunk road contracts in the UK.

**REGISTRATION OF AMENDMENTS**

Amend No	Page No	Signature & Date of incorporation of amendments	Amend No	Page No	Signature & Date of incorporation of amendments

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# 1. INTRODUCTION

1.1 This Standard introduces the August 1993 national amendments to the December 1991 edition of the Specification for Highway Works (SHW) and its Notes for Guidance (NG), the Highway Construction Details (HCD) and Bills of Quantities for Highway Works (MMHW, NGMMHW, LSID). The amendments are published by HMSO (Ref. ISBN 0 11 551195 4, ISBN 0 11 551197 0, ISBN 0 11 551196 2 and ISBN 0 11 551226 8 respectively).

1.2 The amendments are to be used in the preparation of documents for contracts for the construction, improvement or maintenance of trunk roads including motorways in England, Scotland, Wales and Northern Ireland. (In Northern Ireland the amended documents will be applicable to those roads designated by the Overseeing Organisation.)

1.3 This amending Standard is to be used in conjunction with SD 1/92 (Implementation of Specification for Highway Works and Notes for Guidance), SD 2/92 (Implementation of Highway Construction Details) and SD 3/92 (Preparation of Bills of Quantities for Highway Works) and supersedes paragraph 1.5 of SD 1/92, paragraph 1.5 of SD 2/92 and paragraph 1.7 of SD 3/92.

## 2. Implementation

2.1 Contracts for construction, improvement or maintenance of trunk roads (except for the maintenance painting of steel highway structures) shall be prepared using the documents contained in the Manual of Contract Documents for Highway Works (MCHW) as amended in August 1993, except where the preparation of a contract has reached a stage at which in the opinion of the Overseeing Organisation use of the amendments would result in significant additional expense or delay progress. Notwithstanding the above, all contracts for which tenders are to be invited after 30 June 1994 shall incorporate by reference the amendments implemented by this Standard unless specific approval has been obtained from the Overseeing Organisation to use other documents.

2.2 The method of incorporating the amendments to the SHW by reference in tender documents is explained in the Notes for Guidance, Series NG 000, Clause NG 000.3 (August 1993). The amendment to the Notes for Guidance includes a revised Schedule of Pages and

Relevant Publication Dates. A model Preamble is included in the Notes for Guidance (August 1993). The Preamble to the Specification (August 1993) and the Schedule of Pages and Relevant Publication Dates (August 1993) shall be reproduced unaltered and bound in the Specification with the Numbered Appendices.

2.3 The drawings from the HCD brought into the Contract by reference are to be listed in Appendix 0/4 and dated December 1991, April 1992, or August 1993 as appropriate (Clause NG 003.13 and NG Sample Appendix 0/4 in the Notes for Guidance (August 1993) refer.)

## 3. Superseded Text and Drawings

3.1 Superseded text and drawings in the MCHW (December 1991) Volumes 1, 2, 3 and 4 shall be retained:

(a) for those schemes for which the Contract has already been awarded using contract documents incorporating by reference the superseded text and drawings; and

(b) for new schemes for which specific approval has been given to use the superseded text and drawings under paragraph 2.1 above.

In these cases, working copies of the MCHW should not have the new amendments incorporated.

3.2 Where working copies of the MCHW are maintained for use on new schemes not covered by the exceptions in paragraph 3.1, the superseded text and drawings should be removed and replaced.

3.3 Instructions for incorporating the amendments are contained in the published amendments packages, which include updated Index pages.

3.4 The Overseeing Organisations will ensure each office retains an archive copy of the December 1991 version of MCHW Volumes 1, 2, 3 and 4. Design Organisations are responsible for reviewing their own need to retain archive copies.

## 2. REFERENCES

1. Manual of Contract Documents for Highway Works  
(HMSO)

Volume O: Model Contract Document for Major Works and  
Implementation Requirements:

Section 2 Implementing Standards

SD 1 Implementation of Specification for Highway Works  
and Notes for Guidance (MCHW 0.2.1)

SD 2 Implementation of Highway Construction Details  
(MCHW 0.2.2)

SD 3 Preparation of Bills of Quantities for Highway  
Works (MCHW 0.2.3)

Volume 1: Specification for Highway Works (MCHW 1)

Volume 2: Notes for Guidance on the Specification for Highway  
Works (MCHW 2)

Volume 3: Highway Construction Details  
HMSO (MCHW 3)

Volume 4: Bills of Quantities for Highway Works (MCHW 4)

### 3. ENQUIRIES

All technical enquiries or comments on this Standard should be sent in writing as appropriate to:-

Chief Highway Engineer The Highways Agency St Christopher House Southwark Street London SE1 0TE	T A ROCHESTER Chief Highway Engineer
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The Deputy Chief Engineer Roads Directorate The Scottish Office Industry Department Roads Directorate New St. Andrew's House Edinburgh EH1 3TG	J INNES Deputy Chief Engineer
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The Director of Highways Welsh Office Y Swyddfa Gymreig Government Buildings Ty Glas Road Llanishen Cardiff CF4 5PL	K J THOMAS Director of Highways
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Chief Engineer - Roads Service Department of the Environment for Northern Ireland Roads Service Headquarters Clarence Court 10-18 Adelaide Street Belfast BT2 8GB	W J McCOUBREY Chief Engineer - Roads Service
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ANNEX A

Schedule of August 1993 Amendments to Volume 1 (dated December 1991)

Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
000	001 National Alterations of the Overseeing Departments of Scotland, Wales and Northern Ireland	Table 0/1 002 (re-numbered) 003 (re-numbered) 004 (re-numbered) 004.1, 2 005 (re-numbered) 006 (re-numbered)
100	104.11 Standards, Quality Assurance Schemes, Agrément Certificates and Other Approvals - Named Suppliers or Manufacturers 150WO Checking Bar Schedules 151WO Dimensional Accuracy 104NI Standards, Quality Assurance Schemes, Agrément Certificates and Other Approvals 112NI Setting Out 123NI Ionising Radiations 124NI Substances Hazardous to Health	104.2, 12 (re-numbered), 13 (re-numbered), 14 (amended and re-numbered) 105.3, 4 (amended and re-numbered), 5 (amended and re-numbered) 106.1 116.4 117.1, 7, 8, 14, 16, 17, 19 118.8 123 (re-titled) 123.1, 2 124.1, 3
200	None	201.5
300	310.20 Environmental Barriers - Post Foundation Test	310.14

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Schedule of August 1993 Amendments to Volume 1 (dated December 1991)

Specification for Highway Works

Series	Additional Clauses/Tables/Figures		Amended Clauses/Tables/Figures
400	None		401.1, 2 (amended and re-numbered), 3 (amended and re-numbered) 402.5
500	503NI Table 5/3NI: Table 5/4NI: 508NI	Bedding, Laying and Surrounding of Pipes Granular Materials to BS 882 Granular Materials to BS882 Gullies and Pipe Junctions	503.1 Table 5/3 Table 5/4 513.2 514.15
600	609.8 632SO  601NI 607NI	Geotextiles Used to Separate Earthworks Materials Determination of Moisture Condition Value (MCV) of Earthworks Materials in Scotland Classification, Definitions and Uses of Earthworks Materials Explosives and Blasting for Excavation	601.2 608.9 612.3 615.6 622.5 623.6 642.5 Table 6/1
700	704.7, 8, 9  706.3, 4  708  Figure 7/1:  702NI	Use of Surfaces by Traffic and Construction Plant - Porous Asphalt Surfacing Excavation, Trimming and Reinstatement of Existing Surfaces - General Weather Conditions for Laying Hot Rolled Asphalt Wearing Course and Other Bituminous and Tar Pavement Layers Wind Speed and Air Temperature Laying Restraints for 45mm Thickness Rolled Asphalt Wearing Course Horizontal Alignments, Surface Levels and Surface Regularity of Pavement Courses	703 (re-titled) 703.3 (previous subclauses 4 and 5 deleted) 705.4, 5 706.5 (amended and re-numbered), 6 (amended and re-numbered), 7 (re-numbered) 8 (re-numbered) (previous subclauses 6, 7, 8, 9, 11 and 12 deleted)

ANNEX A (Contd.)

Schedule of August 1993 Amendments to Volume 1 (dated December 1991)

Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
700 (cont.)	Table 7/1 NI: Tolerances in Surface Levels of Pavement Courses Table 7/2 NI: Maximum Permitted Number of Surface Irregularities 705NI General Requirements for Sub-bases and Roadbases 706NI Excavation, Trimming and Reinstatement of Existing Surfaces	
800	850SO Crushed Gravel Sub-base Material Type 1 Table 8/5OSO Sub-base Type 1 Range of Grading 801NI Unbound Materials for Sub-bases and Roadbases Table 8/1NI: Compaction Requirements for Granular Sub-base Material Types 1, 2 and 3 850NI Granular Sub-base Material Type 3 Table 8/50NI: Sub-base Type 3 Range of Grading 851NI Filter Layers Table 8/51NI: Crushed Rock and Sand Filter Layer Range of Grading	801.1, 2 803.5 804.6
900	929 Design of Dense Bitumen Macadam Roadbase and Basecourse, including Heavy Duty Macadam and DBM50 Table 9/4: Tolerances for aggregate grading and binder content to be applied to the agreed grading and binder content 938 Porous Asphalt Surface Course Table 9/5: Aggregate Grading Limits Table 9/6: Maximum Mixing Temperatures for Porous Asphalt Table 9/7: Temperature Ranges for Laying Porous Asphalt Figure 9/1: Limiting Weather Conditions for Laying Porous Asphalt containing 200 pen Bitumen with Natural Rubber Figure 9/2: Limiting Weather Conditions for Laying Porous Asphalt containing 100 pen Bitumen and 100 pen Bitumen with Natural Rubber 939 Binder Drainage Test Table 9/8 Drainage Test Temperature Figure 9/3: Diagram indicating Definitions	901.19 917.7 921.2 930.6 932.5 933.6 934.5

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Schedule of August 1993 Amendments to Volume 1 (dated December 1991)

Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
900 (cont)	940 Relative Hydraulic Conductivity Test Table 9/9: Temperature Correction Factors 941 Modified Binder Storage Stability Test Figure 9/4: Permeameter and Standing Board 919NI Surface Dressing	
1000	1043 Foamed Concrete	1001.9 1008.4 1010.4, 5 1017.2, 3 1025.5 1032.2 1033.7
1100	1109 Grass/Concrete Paving 1101NI Precast Concrete Kerbs, Channels, Edgings and Quadrants 1105NI Footways and Paved Areas (Flexible Surfacing) 1106NI Footways and Paved Areas (In Situ Concrete)	1101.4 1103 (re-titled) 1103.1, 2, 4 1108.1
1200	1212.8, 9, 10, 11 Road Markings - Raised Rib Road Markings 1212.16 Road Markings - Road Markings on Porous Asphalt Surfacing 1213.8 Road Studs - Reflecting Road Studs on Porous Asphalt Surfacing 1201WO Regulations, Sign Classification and Standards 1201NI Regulations, Sign Classification and Standards 1212NI Road Markings 1213NI Road Studs 1218NI Detector Loops	1207.6, 13 1212.2, 12, (re-numbered), 13 (re-numbered), 14 (re-numbered), 15 (re-numbered) 1217.8 1218.7

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Schedule of August 1993 Amendments to Volume 1 (dated December 1991)

Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
1300	None	1302.1 1303.1 1306.1 1310
1400	1401NI      General 1412NI      Ballasts	1401.1, 2 1420.5 1424.1, 2, 5
1500	1501.2      Introduction 1502.4      General Requirements 1503.3      Materials, Equipment and Workmanship 1505.2, 4, 5, 6      Cabinets and Ancillary Items 1505.6, 7, 8      Cables 1507.16, 17, 18, 19, 20, 21, 22, 23, 24      Cable Laying 1508.3, 4      Installation of Cabinets and Signal Posts 1510.3      Installation of Telephone Posts and Housings 1512.4      Installation of Ancillary Items 1513.6      Termination of Armoured Multi-pair Communication Cables 1515.2      Termination of Fibre Optic Communication Cables 1518.1, 5, 6, 7, 8, 9      Cable Testing 1519.2, 3, 4, 5, 6, 7      Labelling and Numbering 1521.2, 3      Removal and Resiting of Existing Equipment 1523.4      Loop Detectors	1502.1 1503.1 1504.1, 2 1505.1, 3 1506.2, 5 1507.3, 6, 7, 10 1508.1 1511.6 1512.2 1513.2, 4 1517.1 1518.2 (re-numbered), 3 (amended and re-numbered), 4 (re-numbered) 1521 (re-titled) 1521.1, 4 (re-numbered), 5 (re-numbered), 6 (amended and re-numbered), 7 (re-numbered) 1522.1 1523.3

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## Schedule of August 1993 Amendments to Volume 1 (dated December 1991)

## Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
1600	None	None
1700	None	1703.1 1704.6 Table 17/5 1716.2
1800	None	1803
1900	1909SO Paint and Similar Protective Coatings 1910SO Testing of Paints 1920SO Additional Requirements for the Protection of Steel in Bridge Bearings	1901.2 1906.3 1909.2 1912.4 1913.2, 4, 5 1915.1, 2 1919.2
2000	None	2003.3, 4 2005.5, 9
2100	None	None
2200	None	2202.1, 2, 3 2204 2208.1
2300	None	2301.2
2400	None	None
2500	None	2501.2 2502.8
2600	2606 Cored Thermoplastic Node Markers	Table 26/1 2605.3

ANNEX B

Schedule of August 1993 Amendments to Volume 2 (dated December 1991)

Notes for Guidance on the Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 000	Preamble to the Specification: Clauses 11, 12 and 13	NG 000.1, 8 NG 002 (re-numbered) NG 002.2 NG 003 (re-numbered) NG 003.6, 9, 11, 14 NG 004 (re-numbered) NG 004.2, 3 NG 005 (re-numbered) Table NG 0/1 Table NG 0/2 Table NG 0/3 Preamble Clauses 1, 8 NG Sample Appendix 0/1 NG Sample Appendix 0/2 NG Sample Appendix 0/3 NG Sample Appendix 0/5
NG 100	NG 104.13 Standards, Quality Assurance Schemes Agrément Certificates and Other Approvals - Provision of Information NG 150WO Checking Bar Schedules NG 151WO Dimensional Accuracy NG 109NI Control of Noise and Vibration NG 110NI Information Boards NG 1171NI Traffic Safety and Management	NG 102.1 NG 106.1, 2, 3, 5 NG 118 NG 123 (re-titled) NG 124.2 NG Sample Appendix 1/5 NG Sample Appendix 1/19 NG Sample Appendix 1/20 Table NG 1/1

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Schedule of August 1993 Amendments to Volume 2 (dated December 1991)

Notes for Guidance on the Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 100 (cont)	NG 123NI Ionising Radiations NG Sample Temporary Accommodation and Equipment for the Engineer Appendix 1/1WO NG Sample Programme of Works Appendix 1/13WO: NG Sample Recovery Vehicles for Breakdowns Appendix 1/20NI:	
NG 200	None	None
NG 300	NG 310.12, 13 Environmental Barriers - Post Foundation Test	NG 306.4, 6 NG 310.1, 2, 5, 7, 8 (amended and re-numbered) 9 (re-numbered), 10 (re-numbered), 11 (re-numbered) (previous sub clause 8 incorporated into new sub- clause 7) NG 311.2, 10 NG Sample Appendix 3/1 NG Sample Appendix 3/2
NG400	None	NG 402.6
NG 500	None	NG 501.2 NG Sample Appendix 5/1

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Schedule of August 1993 Amendments to Volume 2 (dated December 1991)

Notes for Guidance on the Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 600	NG 632SO Determination of the Moisture Condition Value (MCV) of Earthworks Materials	NG 600.6 NG 605.3 NG 613.1 NG 622.1 NG 623.2, 3 NG 640.1 NG Sample Appendix 6/1 NG Sample Appendix 6/5 NG Sample Appendix 6/7 NG Sample Appendix 6/10
NG 700	NG 706.2 Excavation, Trimming and Reinstatement of Existing Surfaces NG 708 Weather Conditions for Laying of Hot Rolled Asphalt Wearing Course and Other Bituminous and Tar Pavement Layers NG 706NI Excavation, Trimming and Reinstatement of Existing Surfaces	NG 701.1 NG 703 (re-titled) NG 703.1 (re-numbered) (previous subclauses 1 and 2 deleted) NG 705.4 NG 706.1, 3 (re-numbered) 4 (re-numbered), 5 (amended and re-numbered) NG Sample Appendix 7/1 NG Sample Appendix 7/2 NG Sample Appendix 7/5
NG 800	NG 850SO Crushed Gravels for Type 1 Granular Sub-bases NG 801NI Unbound Materials for Sub-bases and Roadbases NG 851NI Filter Layer	NG 801 (re-titled) NG 801.1 NG 803 and 804.5
NG 900	NG 929 Design of Dense Bitumen Macadam Roadbase and Basecourse, including Heavy Duty Macadam and DBM50 NG 938 Porous Asphalt Surface Course	NG 901.1, 2, 7, 10 NG 902.1 NG 926.1

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Schedule of August 1993 Amendments to Volume 2 (dated December 1991)

Notes for Guidance on the Specification for Highway Works

Series	Additional Clauses/Tables/Figures		Amended Clauses/Tables/Figures
NG 900 (cont)	NG 939 Figure NG 9/1: Figure NG 9/2: NG 940 NG 911SO Table 9/1 SO NG 918NI	Binder Drainage Test Example of Plot from Binder Drainage Test using Unmodified Bitumen Example of Plot from Binder Drainage Test using Bitumen with Natural Rubber Measurement of Relative Hydraulic Conductivity Rolled Asphalt Wearing Course (Design Mix) Criteria for the Stability of Laboratory Designed Asphalt Slurry Sealing	NG 901.1, 2, 7, 10 NG 902.1 NG 926.1
NG 1000	NG 1043	Foamed Concrete for Backfilling Excavations	NG 1001.4 NG 1008.3 NG 1042.1
NG 1100	NG 1109	Grass/Concrete Paving	NG 1103 (re-titled) NG Sample Appendix 11/1
NG 1200	NG 1207.3 NG 1218.6 NG 1200NI NG 1206NI NG Sample Appendix 12/1WO NG Sample Appendix 12/1NI	Construction and Assembly of Permanent Traffic Signs Detector Loops General Faces for Permanent Traffic Signs Traffic Signs: General Traffic Signs: General	NG 1206.5 NG 1212.1, 6 NG 1213.4 NG Sample Appendix 12/3

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Schedule of August 1993 Amendments to Volume 2 (dated December 1991)

Notes for Guidance on the Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 1300	None	NG 1301.1 NG 1302.1 NG 1303.1 NG 1310.5 NG Sample Appendix 13/1 Appendix 13/2
NG 1400	NG 1424NI      Inspection and Testing to be Carried Out by the Contractor	NG 1418.5, 6 NG 1420.2 NG 1424.1, 3
NG 1500	NG 1510.2      Installation of Telephone Posts and Housings NG 1518.1      Cable Testing	NG 1501.2 NG 1504.1 NG 1506.4 NG 1507.2 NG 1517.1 NG 1518.2 (re-numbered), 3 (re-numbered) NG 1521 (re-titled) NG 1521.3 NG Sample Appendix 15/1
NG 1600	None	NG 1601.2, 12 NG 1607.2
NG 1700	NG 1703 SO      Concrete - Special Structure - Constituent Materials	NG 1702.2 NG 1716.3
NG 1800	None	NG 1801.1

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Schedule of August 1993 Amendments to Volume 2 (dated December 1991)

Notes for Guidance on the Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 1900	NG 1910SO Testing of Paints NG 1918SO Form BE/P2 (New Works) Paint System Sheet (Appendix 19/5) Form BE/P5 Paint data Sheet (Appendix 19/8) NG 1903NI Surface Preparation - Materials and Methods NG 1910NI Testing of Paints Appendix (Specification for Highway Works) Form SORD/P3 Paint Sample 19/6SO Despatch List Appendix (Specification for Highway Works) Form BE/P3 Paint Sample 19/6NI Despatch List Appendix (Specification for Highway Works) Form 19/7SO SORD/P4 Paint Test Report Form Appendix (Specification for Highway Works) Form BE/P4 Paint Sample 19/7NI Analysis Report	NG 1901.2, 5, 6, 9, 10, 11 12, 13 NG 1905.4 NG 1908.1, 2 NG 1910.5, 6 NG 1911.1, 3, 5 NG 1913.3 NG 1914.4, 9 NG Sample Appendix 19/1 NG Sample Appendix 19/2 Appendix 19/5 Appendix 19/6 Appendix 19/7
NG 2000	None	NG 2004.1 NG 2005.18 Appendix 20/1 Appendix 20/2
NG 2100	None	NG 2101.3 NG Sample Appendix 21/1
NG 2200	None	NG 2201.2, 3 NG 2204.6 NG Sample Appendix 22/1
NG 2300	None	NG Sample Appendix 23/1
NG 2400	None	NG 2401.1 NG 2404.1
NG 2500	None	NG Sample Appendix 25/2

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Schedule of August 1993 Amendments to Volume 2 (dated December 1991)

Notes for Guidance on the Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
NG 2600	NG 2606 Cored Thermoplastic Node Markers NG Sample Cored Thermoplastic Node Markers Appendix 26/3:	None

ANNEX C

Schedule of August 1993 Amendments to Volume 3, Section 1 (dated December 1991)

Highway Construction Details

Series	Amended Drawings
A	A3, A4, A5, A6, A7, A10
B	B2, B3, B6, B7, B11, B12, B14
C	None
D	None
E	E3
F	None
G	None
H	H3, H11, H12, H13, H14, H15, H16, H34, H35
I	None
J	None
K	None

ANNEX D

Schedule of August 1993 Amendments to Volume 4 (dated December 1991)

Section 1: Method of Measurement for Highway Works

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
I	-	None	None
II	-	None	1
III	Preparation of Bill of Quantities	None	1 8 9
	Preambles to Bill of Quantities	17 National Alterations for SO, WO, NI	1 2 16 18 (re-numbered)
IV	100	None	1 25 30
	200	None	10
	300	None	1 2 3 5 7 8 9 11 17

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Schedule of August 1993 Amendments to Volume 4 (dated December 1991)

Section 1: Method of Measurement for Highway Works (continued)

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
IV (contd)	400	None	13 46
	500	None	11 17 24 25 26 27 32 33 67
	600	171 Perforation of redundant slabs, basements and the like 172 ditto 173 ditto 174 ditto 1 NI Definitions 32NI Deposition of Fill, itemisation 44NI Imported Fill, itemisation 49NI Compaction of Fill, measurement 51NI Compaction of Fill, itemisation 86NI Completion of formation and sub-formation, measurement	1 2 19 32 35 38 44 49 51 52 83 86 129

ANNEX D (Contd.)

Schedule of August 1993 Amendments to Volume 4 (dated December 1991)

Section 1: Method of Measurement for Highway Works (continued)

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
IV (contd)	700	None	5 9 10 11 19 24 28 36
	1100	None	4 21
	1200	42 Node Markers 43 " " 44 " "	29
	1300	None	4
	1400	None	None
	1500	None	4 10 11 19
	1600	None	14 16

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Schedule of August 1993 Amendments to Volume 4 (dated December 1991)

Section 1: Method of Measurement for Highway Works (continued)

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
	1700	None	4 9 14
	1800	None	6
	1900	None	None
	2000	None	4
	2100	None	4
	2200	None	5
	2300	None	5
	2400	None	None
	2500	None	5
	2700	None	None

ANNEX D (Contd.)

Schedule of August 1993 Amendments to Volume 4 (dated December 1991)

Section 2: Notes for Guidance on the Method of Measurement for Highway Works

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
I, II and III	-	None	6
IV	100	None	3
	200	None	None
	300	None	2
	400	None	None
	500	None	Example 1
	600	12 Perforation of redundant slabs, basements and the like	7
	700	5 Regulating Course	None
	1100	None	None
	1200	1 Reflecting Road Studs	-
	1400	None	None
	1500	None	None
	1600	None	None
	1700	None	None
	1800	2 Surface Preparation	None
2000	None	None	

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Schedule of August 1993 Amendments to Volume 4 (dated December 1991)

Section 2: Notes for Guidance on the Method of Measurement for Highway Works (continued)

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
IV (contd)	2200	None	None
	2400	None	None
	2500	None	None
	2700	None	None



ANNEX D (Contd.)

Schedule of August 1993 Amendments to Volume 4 (dated December 1991)

Section 3: Library of Standard Item Descriptions for Highway Works (continued)

Series	Additional Paragraphs/Tables/Items/Groups	Amended Paragraphs/Tables/Items/Groups
700 (contd)	<p>Variable Group 1* SO                      Sub-base                      Variable Group 1* NI                      Sub-base</p>	<p>Root Narrative Item 15 (re-numbered)                      Root Narrative Item 16 (re-numbered)                      Root Narrative Item 17 (re-numbered)                      Root Narrative Item 18 (re-numbered)                      Root Narrative Item 19 (re-numbered)                      Root Narrative Item 20 (re-numbered)                      Root Narrative Item 21 (re-numbered)                      Variable Group 1*                      Variable Group 2*                      Variable Group 3*                      Variable Group 4*                      Variable Group 10*                      Variable Group 13*                      Variable Group 18*</p>
1100	None	<p>Variable Group 5*                      Variable Group 9*                      Variable Group 11*                      Variable Group 12*                      Variable Group 16*                      Variable Group 17*</p>

ANNEX D (Contd.)

Schedule of August 1993 Amendments to Volume 4 (dated December 1991)

Section 3: Library of Standard Item Descriptions for Highway Works (continued)

Series	Additional Paragraphs/Tables/Items/Groups	Amended Paragraphs/Tables/Items/Groups
1200	Root Narrative Item 21 Node Markers Variable Group 25* Node Markers Variable Group 26* Node Markers	Variable Group 14*
1300	None	None
1400	None	None
1500	Variable Group 23* Communications Equipment	Root Narrative Item 7 Root Narrative Item 8
1600	None	None
1700	None	None
1800	None	None
1900	None	None
2000	None	None
2100	None	None
2200	None	None
2300	None	None
2400	None	None
2500	None	None
2800	None	None