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

**SECTION 2    IMPLEMENTING  
STANDARDS**

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**PART 18**

**SD 17/04**

**IMPLEMENTATION OF  
NOVEMBER 2004 AMENDMENTS TO  
SPECIFICATION FOR HIGHWAY  
WORKS, NOTES FOR GUIDANCE ON  
SPECIFICATION FOR HIGHWAY  
WORKS, HIGHWAY CONSTRUCTION  
DETAILS AND PREPARATION OF BILLS  
OF QUANTITIES FOR HIGHWAY  
WORKS**

**SUMMARY**

This Standard introduces the November 2004 amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, 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.

**INSTRUCTIONS FOR USE**

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

1.    Insert SD 17/04 into Volume 0, Section 2.
2.    Archive this sheet as appropriate.

Note: A quarterly index with a full set of Volume Contents Pages is available separately from The Stationery Office Ltd.



THE HIGHWAYS AGENCY



SCOTTISH EXECUTIVE



Llywodraeth Cynulliad Cymru  
Welsh Assembly Government

WELSH ASSEMBLY GOVERNMENT  
LLYWODRAETH CYNULLIAD CYMRU



THE DEPARTMENT FOR REGIONAL DEVELOPMENT  
NORTHERN IRELAND

# Implementation of November 2004 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

Summary: This Standard introduces the November 2004 amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, 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 AND IMPLEMENTATION

## Introduction

1.1 This Standard introduces the November 2004 national amendments to the Specification for Highway Works (SHW), the Notes for Guidance on Specification for Highway Works (NfG), the Highway Construction Details (HCD) and Preparation of Bills of Quantities for Highway Works (MMHW).

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 1/98 (Implementation of Specification for Highway Works and Notes for Guidance)

SD 2/92 (Implementation of Highway Construction Details)

SD 3/98 (Preparation of Bills of Quantities for Highway Works)

Annex C of 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)

Annex C of SD 6/95 (Implementation of 1994 Annual Amendments to Specification for Highway Works and Notes for Guidance, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

SD 6/98 (Implementation of 1998 Annual Amendments to Highway Construction Details)

SD 7/98 (Implementation of July 1998 Amendments to Specification for Highway Works, Notes for Guidance and Highway Construction Details)

SD 8/00 (Implementation of January 2000 and May 2000 Amendments to the Highway Construction Details)

SD 9/01 (Implementation of May 2001 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

SD 10/02 (Implementation of May 2002 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

SD 11/02 (Implementation of November 2002 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works)

SD 12/02 (Implementation of February 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

SD 13/03 (Implementation of May 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and Preparation of Bills of Quantities for Highway Works)

SD 14/03 (Implementation of August 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and Highway Construction Details)

SD 15/04 (Implementation of November 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

SD 16/04 (Implementation of May 2004 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works)

### **Implementation**

1.4 Contracts for construction, improvement or maintenance of all UK trunk roads including motorways (in Northern Ireland those roads designated by the Overseeing Organisation) shall be prepared using:

- (i) the documents contained in the Manual of Contract Documents for Highway Works (MCHW) March 1998 edition for Volumes 1 and 2, as amended in June, July, August 1998, May 2001, May 2002, November 2002, February 2003, May 2003, August 2003, November 2003, May 2004 and November 2004.
- (ii) the 1991 edition for Volume 3 as amended in August 1993, August 1994, March 1998, July 1998, March 1999, January 2000, May 2000, May 2001, May 2002, February 2003, August 2003, November 2003, May 2004 and November 2004.
- (iii) the March 1998 edition for Volume 4 as amended in May 2001, May 2002, February 2003, May 2003, November 2003, May 2004 and November 2004.

Contracts for which tenders are to be invited after 1 May 2005 shall incorporate by reference the amendments implemented by this Standard, 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.

1.5 The method of incorporating the amendments to the SHW by reference in tender documents is explained in the Notes for Guidance, Series NG 000, and sub-Clause NG 000.4. 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. The Preamble to the Specification and the Schedule of Pages and Relevant Publication Dates shall be reproduced unaltered and bound in the Specification with the Numbered Appendices.

1.6 The drawings from the HCD brought into the Contract by reference are to be listed in Appendix 0/4 and dated as appropriate (sub-Clause NG 003.13 and NG Sample Appendix 0/4 in the Notes for Guidance refer).

### **Superseded Text and Drawings**

1.7 Superseded text and drawings in the MCHW Volumes 1, 2, 3 and 4 shall be retained:

- (i) for those schemes for which the Contract has already been awarded using contract documents incorporating by reference the superseded text, and
- (ii) for new schemes for which specific approval has been given to use the superseded text under paragraph 1.4 above.

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

1.8 Where working copies of the MCHW are maintained for use on new schemes not covered by the exceptions in paragraph 1.7 above, the superseded pages should be removed and replaced with amended pages (together with all new pages issued).

1.9 Instructions for incorporating the amendments are contained in the published amendment packages.

1.10 The Overseeing Organisations will ensure each office retains an archive copy of MCHW Volumes 1, 2, 3 and 4 incorporating the relevant amendments.

## 2. REFERENCES

2.1 Manual of Contract Documents for Highway Works:

Volume 0: Model Contract Document for Major Works and Implementing Requirements (MCHW 0)

Section 2: Implementing Standards

Part 1 SD 1/98 Implementation of Specification for Highway Works and Notes for Guidance

Part 2 SD 2/92 Implementation of Highway Construction Details (Paragraph 1.5 is superseded by SD 6/94)

Part 3 SD 3/98 Preparation of Bills of Quantities for Highway Works

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

Part 5 SD 6/95 Implementation of 1994 Annual Amendments to Specification for Highway Works and Notes for Guidance, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

Part 7 SD 6/98 Implementation of 1998 Annual Amendments to Highway Construction Details

Part 8 SD 7/98 Implementation of July 1998 Amendments to Specification for Highway Works, Notes for Guidance, and Highway Construction Details

Part 9 SD 8/00 Implementation of January 2000 and May 2000 Amendments to the Highway Construction Details

Part 10 SD 9/01 Implementation of May 2001 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

Part 11 SD 10/02 Implementation of May 2002 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

Part 12 SD 11/02 Implementation of November 2002 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works

Part 13 SD 12/03 Implementation of February 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works

- Part 14 SD 13/03 Implementation of May 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and Preparation of Bills of Quantities for Highway Works
- Part 15 SD 14/03 Implementation of August 2003 Amendments to Specification for Highway Works and Notes for Guidance on Specification for Highway Works and Highway Construction Details
- Part 16 SD 15/03 Implementation of November 2003 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works
- Part 17 SD 16/04 Implementation of May 2004 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works, Highway Construction Details and Preparation of Bills of Quantities for Highway Works
- 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 (MCHW 3)
- Section 1: Carriageway and Other Details
- Section 2: Not Used (05/04)
- Section 3: National Motorway Communications System Installation Drawings
- Volume 4: Bills of Quantities for Highway Works (MCHW 4)
- Section 1: Method of Measurement for Highway Works (MMHW)
- Section 2: Notes for Guidance on the Method of Measurement for Highway Works (NGMMHW)
- Section 3: Library of Standard Item Descriptions (LSID)

### 3. ENQUIRIES

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All technical enquiries or comments on this document should be sent in writing as appropriate to the above.

**Schedule of November 2004 Amendments to Volume 1** (as amended in August 1998,  
May 2001, May 2002, November 2002, February 2003, May 2003, August 2003 and  
November 2003, May 2004 and November 2004)  
**Specification for Highway Works**

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
500	<p>517.17: Trial lengths and testing of in-situ channels to be undertaken in accordance with clauses 6 and 8.6 of BS 5931 and the relevant paragraphs of clause 9 of BS EN 1433 respectively</p>	<p>Table 5/1 507.4 507.5 507.6 509.5 516.1 516.2 (deleted) 516.2 (re-numbered from 516.4) 516.3 (new sub-Clause text) 516.4 (new sub-Clause) 516.5 (re-numbered from 516.3) 516.6 (new sub-Clause text) 516.7 (with new heading text) 516.8 (with new heading text) 516.9 (re-numbered from 516.6) 516.10 (new sub-Clause text) 516.11 (with new heading text and re-numbered from 516.8) 517.1 517.2 (deleted) 517.2 (new sub-Clause text) 517.4 517.5 517.6 (deleted) 517.5 (re-numbered from 517.7) 517.6 (with new heading and new sub-Clause texts) 517.7 (re-numbered from 517.8) 517.8 (re-numbered from 517.9) 517.9 (re-numbered from 517.10) 517.11 (deleted) 517.10 (re-numbered from 517.12) 517.11 (re-numbered from 517.13) 517.12 (re-numbered from 517.14) 517.13 (re-numbered from 517.15) 517.14 (re-numbered from 517.16) 517.15 (new sub-Clause text) 517.18 (deleted) 517.19 (deleted) 517.20 (deleted)</p>
600		<p>#601.1(ii) #601.1(iii) (new text) #601.1(iv) (re-numbered from #601.1(iii)) New heading to sub-Clause #601.2 #601.2(i)(a) (re-numbered from #601.2(i)) #601.2(i)(b) (re-numbered from #601.2(ii)) #601.2(ii) (new text) #601.2(ii)(a) (new text) #601.3(i) #601.4 602.3 602.5 602.18 616.1(i) Table 6/1(Foot notes to Table - Note 6 added.)</p>

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May 2001, May 2002, November 2002, February 2003, May 2003, August 2003 and  
November 2003, May 2004 and November 2004)  
**Specification for Highway Works** (continued)

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
600 (cont)		601.1(i)NI 601.1(ii)NI 601.1(iii)NI (new text) 601.1(iv)NI (re-numbered from 601.1(iii) NI) New heading to sub-Clause 601.2NI 601.2(i)(a) NI (re-numbered from 601.2(i) NI) 601.2(i)(b)NI (re-numbered from 601.2(ii)NI) 601.2(ii)NI (new text) 601.2(ii)(a)NI (new text) 601.3(i)NI 601.4NI
700		Table 7/1 #702.5 #702.9(i) Table 7/2 #702.8 #702.10(ii) 702.10(iii) 702.10(iv) 710 (title amended) 710.1 710.2 710.4(ii) 711.7 715.1 Table 7/1NI 702.5NI 702.8NI 702.9(i)NI Table 7/2NI 702.10(ii)NI 702.10(iii)NI 70210(iv)NI
800	806: Category B (close graded) Unbound Mixtures 810: General Requirements for Cement and Other Hydraulically Bound Mixtures 811: Constituents of Cement and Other Hydraulically Bound Mixtures 812: Storage of Constituents for Cement and Other Hydraulically Bound Mixtures 813: General Requirements for Production of HBM and Construction of HBM Layers 814: Mix-in-Plant Method of Construction Using Batching by Mass for HBM 803.1	Series 800 (Title) New heading before Clause 801 801.1 Table 8/1  801.2 801.3 Table 8/2 801.5 801.6 801.8 Table 8/4 802.10 802.11 802.14 802.16

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800 (cont)	815: Mix-in-Plant Method of Construction Using Volume Batching for HBM 816: Mix-in-Place Method of Construction for HBM 817: Method Statement and Demonstration Area for All Methods of Construction of HBM 818: Induced Cracking of HBM 819: Coefficient of Linear Thermal Expansion 820: Cement Bound Granular A 821: Cement bound Granular B 822: Cement bound Granular C 830: Slag Bound Mixture B1-2 (SBM B1-2), Fly Ash bound Mixture 1 (FABM 1) and Hydraulic Road Binder Bound Mixture 1 (HRBBM1) 831: Slag bound mixture B2 (SBM B2), Fly ash bound mixture 2 (FABM 2), Hydraulic road binder bound mixture 2 (HRBBM 2) 832: Slag Bound Mixture B3 (SBM B3), Fly Ash Bound Mixture 3 (FABM 3) and Hydraulic Road binder Bound Mixture 3 (HRBBM 3) 834: Fly Ash Bound Mixture 5 (FABM 5) 840: Soil Cement (SC), Soil Treated by Slag (SS), Soil Treated by HRB (SHRB), and Soil Treated by Fly Ash (SFA) 870: Testing, Control and Checking of Cement and Other Hydraulically Bound Mixtures 880: Laboratory Mixture Design Procedure for HBM	Table 8/5 803.4 804.1 Table 8/6 804.4 804.9 805.1 Table 8/7 805.4 809 (deleted)
900	Table 9/1: Definition of Penetration Reference	901 (title) 901.2(i), (ii) and (iii) 901.11(i) 901.16 (ii) 901.24 901.28(i) 901.28(ii) 901.32 902.4 Table 9/2 (re-numbered from Table 9/1) 902.5 (including heading to sub-Clause) 903.1

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900 (cont)	<p>Table 9/3: Summary of Recipe Dense Base and Binder Course Macadams</p> <p>906.2: Materials production to BS EN ISO 9001 and Sector Scheme for the Production of Asphalt Mixes, described in Appendix A</p>	<p>903.3 904.1 906 (title amended) 906.1 906.3 (re-numbered from 906.2) 906.4 (re-numbered from 906.3) 907.1 907.5 908 (deleted) 909 (title) 909.1 909.3 909.3 (heading to sub-Clause added) 910.3 (including heading to sub-Clause) 910.4 911.1 - 911.4 911.8 914.1 914.5 915.2 915.3 916.1 916.2 918.6 919.2 919.3 919.4 919.5 919.10(iii) Table 9/4 (re-numbered from Table 9/2) 920.3 920.4 920.8 920.13 921.2 922.5 - 922.6 922.8 922.19 - 922.20 923.4 (text for PTFE bottle) 923.5 923.6 (and 6.1, 6.2) 925.3 926.11 926.16 926.18 - 921 929 (title) 929.1 (re-numbered to 929.5) 929.2 (re-numbered to 929.6) 929.3 (re-numbered to 929.7) 929.4 (re-numbered to 929.8) 929.5 (re-numbered to 929.9) 929.6 (re-numbered to 929.10)</p>

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900 (cont)	<p>Table 9/5: Summary of Design Mix for Dense Base and Binder Course Macadams 929.1 to 929.4 (new sub-Clauses)</p> <p>931: Recipe Mixtures: Heavy Duty Macadam Base and Binder Course Macadams with Paving Grade Bitumen</p> <p>Table 9/8: Summary of Recipe Heavy Duty Macadam Base and Binder Course Macadams</p> <p>931.2: Materials production to BS EN ISO 9001 and Sector Scheme for the Production of Asphalt Mixes, described in Appendix A</p>	<p>929.7 (re-numbered to 929.11) Table 9/6 (re-numbered from Table 9/3) 929.8 (re-numbered to 929.12) 929.9 (re-numbered to 929.13) 929.9(i) 929.10 (re-numbered to 929.14) 929.11 (re-numbered to 929.15) 929.15(i) to 929.15(iv) Table 9/7 (re-numbered from Table 9/4) 929.15(v) 929.12 (re-numbered to 929.16) 929.13 (re-numbered to 929.17) 929.14 (re-numbered to 929.18) 929.15 (re-numbered to 929.19) 929.16 (re-numbered to 929.20) 929.17 (re-numbered to 929.21) 929.18 (re-numbered to 929.22) 929.19 (re-numbered to 929.23) 929.20 (re-numbered to 929.24) 929.21 (re-numbered to 929.25) 929.25 (i), (ii) 929.25 (iv), (v) 929.22 (re-numbered to 929.26) 930 (deleted) 932 (deleted) 933 (deleted) 934 (deleted) 935(deleted) 936(deleted) 937.10 937.11 937.12 937.13 937.22 937.26 937.27 937.31 - 937.32 937.34 937.37(ii) 937.39 937.41 Table 9/9 (re-numbered from Table 9/5) Table 9/10 (re-numbered from Table 9/6) 938.2(i) - 938.2 (iv) 938.4 938.5 938.8 938.11(i)(a) 938.12 938.14 to 938.15 938.17 938.21 - 938.22</p>

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1300		#1301.3 1302.2 1305.14 1306.1 1307.1 1309 (title) Page 9-Clause 7 and Not b Page 10 - Clause 8 1310 (title) 1310.1 Page 6 - Clause 4 Page 6 - Clause 5 Page 6 – Clause 6 Pages 6 and 7 - Clause 7 7.1.2 to 7.1.3 7.1.4.2 7.1.4.4 Page 12 sub-Clause 13.6.1 Pages 12 and 13 Clause 13 Pages 13, 14 and 15 Clause 14 1302.1 7.1.1 7.1.2 7.1.3 7.1.4.2 1311 (title) Page 3 1313.4 1313.8 1313.13 1313.17 1314.2 1301.3NI
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**Schedule of November 2004 Amendments to Volume 1** (as amended in August 1998,  
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3000		3001.6 3010.3
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Appendix E (NI)		Consequential update
Appendix F		Consequential update
Appendix H		Consequential update

**Schedule of November 2004 Amendments to Volume 2** (as amended in August 1998, May 2001, May 2002, November 2002, February 2003, May 2003, August 2003, November 2003, May 2004 and November 2004)

**Notes for Guidance on the Specification for Highway Works**

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
NG 000	None	Table NG 0/1 Table NG 0/2 Table NG 0/3 Schedule of Pages and Relevant Publication Dates Sample List 'A'
NG 100		Table NG 1/1 Table NG 1/2 105.2 106.7 Appendix 1/6 NG Sample Appendix 1/24
NG 400		Title corrected
NG 500		509.3 (re-numbered from 509.4) 509.4 (re-numbered from 509.5) 509.5 (re-numbered from 509.3) 510.1 NG Sample Appendix 5/1 NG Sample Appendix 5/3 NG Sample Appendix 5/5 NG Sample Appendix 5/6
NG 600	601.8 to 601.12: Further advice on definition of contaminated materials Class U1B and site specific risk assessment has been given. 601.14: New flow chart illustrating earthworks classification has been added.  NG Sample Appendix 6/14: Limiting Values for Pollution of Controlled Waters  NG Sample Appendix 6/15: Limiting Values for Harm to Human Health and the Environment	601.6 601.13 (re-numbered from 601.8) 620.2 NG Sample Appendix 6/1 NG Sample Appendix 6/2
NG 700	Schedule 8: New Schedule separating out the mixture data from binder data Saturated ageing tensile stiffness (SATS) test added	702.1 710 (title amended) 710.1 710.2 710.3 711.7 713.6 - 713.8 715.6 NG Sample Appendix 7/1: Schedule 3, 4,5 NG Sample Appendix 7/3 NG Sample Appendix 7/4 NG Sample Appendix 7/7 NG Sample Appendix 7/14 NG Sample Appendix 7/20 NG Sample Appendix 7/21

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 May 2001, May 2002, November 2002, February 2003, May 2003, August 2003, November 2003,  
 May 2004 and November 2004)

**Notes for Guidance on the Specification for Highway Works** (continued)

<b>NG Series</b>	<b>Additional Clauses NG/Tables NG/Figures NG</b>	<b>Amended Clauses NG/Tables NG/Figures NG</b>
NG 800	Clause NG 806: Category B (close graded) Unbound Mixtures Clause NG 810: General Requirements for Cement and Other Hydraulically Bound Mixtures Clause NG 811: Constituents of Cement and Other Hydraulically Bound Mixtures Clause NG 813: General Requirements for Production of HBM and Construction of HBM Layers Clause NG 814: Mix-in-Plant Method of Construction Using Batching by Mass for HBM Clause NG 815: Mix-in-Plant Method of Construction Using Volume Batching for HBM Clause NG 816: Mix-in-Place Method of Construction for HBM Clause NG 820: Aggregates for HBM Clause NG 821, NG 822, NG 823, NG 830, NG 831 and NG 834: Cement and Other Hydraulically Bound Mixtures Clause NG 840: Soil Cement (SC), Soil Treated by Slag (SS), Soil Treated by HRB (SHRB), and Soil Treated by Fly Ash (SFA) Clause NG 870: Testing, Control and Checking of Cement and Other Hydraulically Bound Mixtures Clause NG 880: Laboratory Mixture Design Procedure for HBM	Title of Series NG 800.1 New heading to Clause NG 801 801.1 801.2 801.3 801.4 801.8 801.14 801.16 803 title 803.2 803.8 803.9 804 title 804.1 804.4 804.7 805 title 805.1 805.2 809 (deleted)
NG 900	920.8: Further advice on blinding material added  Table NG 9/22: Defect Category - Fretting  Table 9/23: Defect Category - Streaking  929.1 - 929.3: Further advice on how to use Clause 929 added.  929.16 Further advice on sealing and gritting of surface added  953: Durability of Bituminous Materials - Saturation Ageing Tensile Stiffness (SATS) Test	901 (title) 901.1 901.2 901.5 901.7 901.8 902.4 903.1 903.2 905.1 906 (title amended) 906.1 (deleted) 906.2 (re-numbered to 906.1) 908 (deleted) 909 (title) 909.2 910.1 911.2 to 911.5 912.1 912.3 914.2

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**Notes for Guidance on the Specification for Highway Works** (continued)

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
NG 900 (cont)		915.2 915.5 916.1 916.3 918.1 918.3 918.13 918.19 Table NG 9/1 918.27 Table NG 9/2 Table NG 9/3 Table NG 9/4 Table NG 9/6 919.1 919.5 Table NG 9/8 919.8 Table NG 9/9 919.10 919.11 Table NG 9/11 919.22 920.1 920.2 920.3 920.4 920.7 920.8 (deleted) 920.9 (re-numbered from 920.8) 921.6 Table NG 9/13 922.13 922.15 922.23 922.24 Table NG 9/17 922.30 Table NG 9/20 Table NG 9/21 923.10 923.13 924.3 to 924.4 924.8 (deleted) Table NG 9/24 (re-numbered from 9/22) 925.3 928.1 928.5 928.8 929 (title) 929.4 (re-numbered from 929.1) 929.5 (re-numbered from 929.2)

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**Notes for Guidance on the Specification for Highway Works** (continued)

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
NG 900 (cont)		929.6 (re-numbered from 929.3) 929.7 (re-numbered from 929.4) 929.8 (re-numbered from 929.5) 929.9 (re-numbered from 929.6) 929.10 (re-numbered from 929.7) 929.11 (re-numbered from 929.8) 929.12 (re-numbered from 929.9) 929.13 (re-numbered from 929.10) 929.14 (re-numbered from 929.11) 929.15 (re-numbered from 929.12) 930, 932- 936 (deleted) 938.1 938.2 939.1 939.8 Table NG 9/25 (re-numbered from 9/24) Table NG 9/26 (re-numbered from 9/25) 942.1 942.6 Table NG 9/27 (re-numbered from 9/26) 942.9 Table NG 9/28 (re-numbered from 9/27) Table NG 9/29 (re-numbered from 9/28) 942.10 Table NG 9/30 (re-numbered from 9/29) 942.12 Table NG 9/31 (re-numbered from 9/30) 942.13 (deleted) 942.14 (re-numbered from 942.13) 942.15 (re-numbered from 942.14) Table NG 9/32 (re-numbered from 9/31) 942.15 to 942.25 (re-numbered from 942.16 - 942.26) 943.1 943.2 943.7 943.8 943.11 943.13 943.14 943.15 943.20 943.22 943.25 943.26 943.28 944 (title amended) 944.1 Table NG 9/33 (re-numbered from 9/32) 944.2 944.9 944.12 945.4

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**Notes for Guidance on the Specification for Highway Works** (continued)

NG Series	Additional Clauses NG/Tables NG/Figures NG	Amended Clauses NG/Tables NG/Figures NG
NG 900 (cont)		945.5 945.6 947.3 948.25 948.53 948.57 952.2 952.4 952.5 Table NG 9/34 (re-numbered from 9/33) Table NG 9/35 (re-numbered from 9/34) 952.10 Table NG 9/36 (re-numbered from 9/35) 911.2SE 911.3SE 911.5SE 911.7SE
NG 1000		1001.2 1013.1 1030.1 1035 to 1042 (deleted) 1047 (deleted)
NG 1100		1001.1 1001.3 1001.4 1001.5 1001.6 1103.1 1009.1 1009.2 NG Sample Appendix 11/1
NG 1300		1309 (title) 1309.2 1310 (title) 1310.5 NG Sample Appendix 13/1 Sample Appendix 13/2 NG Sample Appendix 13/3 NG Sample Appendix 13/7 Sample Appendix 13/8 NG Sample Appendix 13/9 NG Sample Appendix 13/1NI
NG 1500		1505.1 NG Sample Appendix 15/1
NG 2600		2602.1 2602.2
NG 3000		3002.7 3010.4
Annex 1		Consequential update

**Schedule of November 2004 Amendments to Volume 3, Sections 1, 2 and 3**  
(as last amended in May 2001, May 2002, February 2003, August 2003, November 2003,  
May 2004 and November 2004)

**Note: Section 2 of Volume 3 was removed from Volume 3 in May 2004**

**Highway Construction Details**

Series	New Drawings	Amended Drawings
<b>Section 1</b>		
B		B10 Issue E and B14 Issue E
F		F4 Issue D, F5 Issue E, F6 Issue E, F7 Issue D, F11 Issue E, F12 Issue E, F15 Issue C, F16 Issue B, F24 Issue C and F27 Issue B
<b>Section 3</b>		
MCX	MCX 1030 Sheets 1 to 10 Issue A (inclusive)	MCX 0815 Sheet 1, Issue H, MCX 0815 Sheet 3, Issue H and MCX 0815 Sheet 4, Issue H

**Schedule of November 2004 Amendments to Volume 4**  
(as last amended in March 1998, May 2001, May 2002, February 2003, May 2003,  
August 2003, November 2003, May 2004 and November 2004)

**Bills of Quantities for Highway Works**

**Section 1: Method of Measurement for Highway Works**

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
IV	Series 400	Existing paragraphs 1 to 19 inclusive deleted and replaced by new paragraphs 1 to 30 inclusive.	
	Series 400	Existing paragraphs 20 to 36 renumbered.	
	Series 400	Existing paragraphs 37 to 41 deleted.	
	Series 400		Renumbered paragraph 31
	Series 400		Renumbered paragraph 33
	Series 400		Renumbered paragraph 37
	Series 400		Renumbered paragraph 40
	Series 400		Renumbered paragraph 42
	Series 400		Renumbered paragraph 45
	Series 500		Amended paragraph 22
	Series 600		16
	Series 600		17
	Series 600		19
	Series 600		24
	Series 600		25
	Series 600		26
	Series 600		27
	Series 600		28
	Series 600		33
	Series 600		36
Series 600		38	
Series 600		39	
Series 600		52	
Series 1100		Amended paragraph 4	

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November 2004)

**Bills of Quantities for Highway Works**

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

<b>Chapter</b>	<b>Series</b>	<b>Additional Paragraphs/Tables</b>	<b>Amended Paragraphs/Tables</b>
IV	400 600 600 600 600	4	1 2 Typical Roadworks Earthworks Schedule Typical Structures Earthworks Schedule

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**Bills of Quantities for Highway Works**

**Section 3: Library of Standard Item Descriptions for Highway Works**

Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
400	<p><b>Root Narrative</b></p> <p>New 3 to 4 inclusive Inserted</p> <p>New 6 to 8 inclusive Inserted</p> <p><b>Variables</b></p> <p>25 to 26 inclusive Inserted</p>	<p><b>Root Narrative</b></p> <p>3 to 4 Deleted</p> <p>5 Deleted</p> <p>6 Renumbered</p> <p>7 to 24 inclusive Renumbered</p> <p>25 to 27 inclusive Deleted</p> <p><b>Root Narrative</b></p> <p>18</p> <p>20 Deleted</p> <p>21 to 25 inclusive Renumbered</p>
600	<p><b>Root Narrative</b></p> <p>New 8 Inserted</p> <p><b>Variables</b></p>	<p><b>Root Narrative</b></p> <p>7</p> <p>8 to 54 inclusive Renumbered</p> <p><b>Variables</b></p> <p>2</p> <p>11</p> <p>60</p> <p>64</p>
700		<p><b>Variables</b></p> <p>1</p> <p>2</p> <p>3</p> <p>9</p> <p>10</p>
1100		<p><b>Variables</b></p> <p>5</p> <p>6</p>