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

**SECTION 2 IMPLEMENTING
STANDARDS**

PART 22

SD 21/06

**IMPLEMENTATION OF NOVEMBER
2006 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 2006 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. Implementation requirements for the amendments are given for their use in trunk road including motorway contracts in the UK.

INSTRUCTIONS FOR USE

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

1. Insert SD 21/06 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



TRANSPORT SCOTLAND



WELSH ASSEMBLY GOVERNMENT
LLYWODRAETH CYNULLIAD CYMRU



THE DEPARTMENT FOR REGIONAL DEVELOPMENT
NORTHERN IRELAND

Implementation of November 2006 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 2006 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. Implementation requirements for the amendments are given for their use in trunk road including motorway 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 2006 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)

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)

SD 18/05 (Implementation of May 2005 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)

SD 19/05 (Implementation of November 2005 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works and Highway Construction Details)

SD 20/06 (Implementation of May 2006 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works and Highway Construction Details)

SD 21/06 (Implementation of November 2006 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)

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, November 2004, May 2005, November 2005, May 2006 and November 2006.

- (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, November 2004, May 2005, November 2005, May 2006 and November 2006.
- (iii) the March 1998 edition for Volume 4 as amended in May 2001, May 2002, February 2003, May 2003, November 2003, May 2004, November 2004, May 2005 and November 2006.

Contracts for which tenders are to be invited after 1 April 2007 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 0 to 6 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 20 SD 19/05	Implementation of November 2005 Amendments to Specification for Highway Works, Notes for Guidance on Specification for Highway Works and Highway Construction Details
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 21 SD 20/06	Implementation of May 2006 Amendments to Specification for Highway Works, 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 22 SD 21/06	Implementation of November 2006 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)
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	Volume 2:	Notes for Guidance on the Specification for Highway Works (MCHW 2)
Part 19 SD 18/05	Implementation of May 2005 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 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 2006 Amendments to Volume 1 (as amended in August 1998, May 2001, May 2002, November 2002, February 2003, May 2003, August 2003, November 2003, May 2004, November 2004, May 2005, November 2005, May 2006 and November 2006)

Specification for Highway Works

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
000		001.1 002.1
100		#117.1(b) deleted #117.1(c) re-numbered #117.8 #117.14 #117.24(i) #117.24(ii) #117.25 120.36 120.46(i) 120.46(ii) 120.46(iii)(b) to(f) and (i) to (p) 120.47(i) 120.47(ii) 120.47(iv) 120.47(iv)(j) 120.50 #120.46(i) 104.12NI 117.1(b)NI deleted 117.1(c)NI re-numbered 117.8NI 117.14NI 117.24(i)NI 117.24(ii)NI 117.25NI
300		306.1
400		401.1 401.2 (deleted) 401.3 to 401.6 re-numbered 401.2(ii) 401.2(iii) 401.5(i) 401.5(ii) 402.2 402.4 402.5 402.6 (i) 402.7 403.8 403.9 403.15

Schedule of November 2006 Amendments to Volume 1 (as amended in August 1998, May 2001, May 2002, November 2002, February 2003, May 2003, August 2003, November 2003, May 2004, November 2004, May 2005, November 2005, May 2006 and November 2006)

Specification for Highway Works (continued)

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
400 (concluded)	403.27 Requirements for 'Monitoring of Crash Cushion Installations'	403.17 403.18 403.19 403.21 404.1 404.4 405.1 405.2 406.1 406.1 (i) to .(iv) 406.1(v) 407.1 407.2 407.3 407.4 407.7 408.1(iii)(e) 408.1(iv)(a) 408.2(ii)(a) 408.3 deleted 410 (title) 410.1
500		501.1 Table 5/1 501.7 Table 5/2 503.3 505.3 506.3 514.7 Table 5/13
600		#601.12 601.12TS 632TS 601.12NI
700	710.3(iv): glass (Class G)	#702.5 Table 7/2 710.3(v) to (vi) renumbered 710.6 702.5NI Table 7/2NI

Schedule of November 2006 Amendments to Volume 1 (as amended in August 1998, May 2001, May 2002, November 2002, February 2003, May 2003, August 2003, November 2003, May 2004, November 2004, May 2005, November 2005, May 2006 and November 2006)

Specification for Highway Works (concluded)

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
800		801.5 Table 8/3 and its title 804.1 804.9 804.10 804.11 805.1 806.1
900		901.2 942.14 and heading 942.15 942.16
1000		1016.10 1016.11 1016.12 1017.2 1017.3 1017.4 1017.6
1100		1101.2 1101.2NI
1200		1216.2(i)(a) 1201.1NI
1500	1530.4 Requirements for 'Ducts in Transverse Crossings'	1507.22 1508.4 1523 (title) 1523.2 1530.2 1530.4 to 1530.8 re-numbered 1532.15 1533.1 1533.2
2500		2502.6 2502.11(i)
2600		2607.1 2607.2 deleted 2607.3 to 2607.6 renumbered

Schedule of November 2006 Amendments to Volume 1 (as amended in August 1998,
May 2001, May 2002, November 2002, February 2003, May 2003, August 2003,
November 2003, May 2004, November 2004, May 2005, November 2005, May 2006 and
November 2006)

Specification for Highway Works (continued)

Series	Additional Clauses/Tables/Figures	Amended Clauses/Tables/Figures
Appendix A		Part 1 Table A/1 Table A/2 Part 2
Appendix B		Consequential update to all sections
Appendix C		Consequential update to Section 1.3
Appendix F		Consequential update to all sections
Appendix H		Consequential update

Schedule of November 2006 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, November 2004, May 2005, November 2005, May 2006 and November 2006)

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
000		Table NG 0/1 Table NG 0/2 Table NG 0/3 Schedule of Pages and Relevant Publication Dates Sample List A
100		#117.5 Table NG 1/1 NG Sample Appendix 1/2 NG Sample Appendix 1/4 117.5NI #NG Sample Appendix 1/2NI
400	404.2: Guidance for site testing added	401.1 401.2 401.3 deleted 401.5 to .7 re-numbered 401.4 401.6 402.1 402.2 402.4 403.3 (heading) 404.1 404.2 and .3 re-numbered 406.2 407.3 (deleted) 410 (heading) 410.1 410.2 deleted 410.3 re-numbered 412.1
500		NG Sample Appendix 5/1
700		710.1 710.3 710.5 NG Sample Appendix - Schedule 5 NG Sample Appendix 7/10
900		942.24 942.25

Schedule of November 2006 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, November 2004, May 2005, November 2005, May 2006 and November 2006)

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
1500	1530.5 Reference to 'Series NG 8000 of Volume 5, Section 8, Part 3 of the MCHW' added. 1530.5	1523 (title) NG Sample Appendix 15/2
2400		NG Sample Appendix 24/1
Annex 1		Consequential amendments to all sections

Schedule of November 2006 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, November 2004, May 2005, November 2005, May 2006 and November 2006)

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

Highway Construction Details

Series	New Drawings	Amended Drawings
Section 1		
		E2 Issue B H36 Issue B
Section 3		
		MCX 1026, Sheet 1 of 4, Issue B

November 2006 Amendments to Volume 4
(as last amended in March 1998, May 2001, May 2002, February 2003, May 2003,
November 2003, May 2004, November 2004, May 2005 and November 2006)

Bills of Quantities for Highway Works

Section 1: Method of Measurement for Highway Works

Chapter	Series	Additional Paragraphs/Tables	Amended Paragraphs/Tables
III			3(ii)
IV	400		17

November 2006 Amendments to Volume 4
(as last amended in March 1998, May 2001, May 2002, February 2003, May 2003,
November 2003, May 2004, November 2004, May 2005 and November 2006)

Bills of Quantities for Highway Works

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

Chapter	Additional Paragraphs/Tables	Amended Paragraphs/Tables
I, II and III		6

November 2006 Amendments to Volume 4

(as last amended in March 1998, May 2001, May 2002, February 2003, May 2003,
November 2003, May 2004, November 2004, May 2005 and November 2006)

Bills of Quantities for Highway Works

Section 3: Library of Standard Item Descriptions for Highway Works

Chapter	Additional Paragraphs/Tables	Amended Paragraphs/Tables
200		10