
**SERIES NG 000
INTRODUCTION**

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INTRODUCTION

NG 000 Introduction

General

1 The Notes for Guidance on the Specification for Highway Works are published as Volume 2 of the Manual of Contract Documents for Highway Works and divided into Series corresponding to those in the Specification. The NG Clauses directly relate to Clauses in the Specification; however there are not corresponding NG Clauses to every Specification Clause. Guidance on the Lettered Appendices is given in NG 003.

2 Throughout the Notes for Guidance the term “compiler” has been used to refer to the individual or organisation responsible for the preparation of Contract-specific information and requirements.

Incorporation of the Specification into the Contract

3 The Specification for Highway Works has been drafted so as to allow its use with a wide range of procurement methods and forms of contract. The use of terms specific to any particular form of contract have thus been avoided and in particular no references to approvals and/or directions by the Engineer are included.

Directions or approvals that are used refer generally to the Overseeing Organisation. This term will need defining in each particular Contract to suit the specific roles and responsibilities of the parties to the Contract and the responsibilities of the parties involved in the construction, maintenance and operation of the Works.

Where the Specification is used in conjunction with the ICE Conditions of Contract 5th Edition, compilers should note that this form of contract provides for all work to be executed in strict accordance with the Contract and to the satisfaction of the Engineer. Continual reference to workmanship and/or materials being to the approval of the Engineer is therefore unnecessary within the Specification. The Numbered Appendices to the Specification are intended to provide for the defining of project specific requirements. Where compilers consider that such information as is called for by these Appendices cannot be determined at time of tender, phrases such as “as directed by the Engineer” may be entered. It should be appreciated however that Contractors cannot price for undefined requirements and

such “directions” when issued will constitute variations to the Contract.

4 The Contract will require the preparation of a Preamble to the Specification and incorporation of a Schedule of Pages and Relevant Publication Dates listing the publication date of each page of the Specification for Highway Works applicable to the Contract. A standard Preamble to the Specification and Schedule of Pages and Relevant Publication Dates is included in these Notes for Guidance.

The Preamble also contains statements which should be used to ascribe the roles and functions of the Overseeing Organisation to particular parties to the Contract.

Proprietary Work, Goods or Materials

5 Proprietary work, goods or materials must not be specified unless their function cannot be described in any other way using specifications which are sufficiently precise and easily understood. Where the specification of proprietary work, goods or materials cannot be avoided, European law requires that the brand name or type be followed by the words ‘or equivalent’. Guidance on the assessment of equivalence is given in Advice Note SA2.

Use of the Specification for Highway Works

6 The Specification for Highway Works has been widely drawn to cover all highway contracts from the provision of new to the improvement or reconstruction of existing roads and bridges. It also covers such schemes as the installation of road lighting, traffic signals or other traffic signing schemes on existing highways. Its use is mandatory for highway contracts on trunk roads including trunk road motorways.

7 There is no need to reproduce the Specification for Highway Works in the documents as it is incorporated by reference.

8 Contract-specific requirements should be incorporated in the Numbered Appendices to the Specification (without the need to alter Clauses, etc.) in one of two ways:

- (i) Specific requirements referred to in the national requirements:

These are generally indicated by the words “as described/stated in Appendix -/-” [These are identified in Table NG 0/1].

(ii) Alternatives to national requirements:

These are generally indicated by the words “unless otherwise described in Appendix -/” [These are identified in Table NG 0/2].

9 The Specification for Highway Works should be used as it stands wherever possible but when alterations to Clauses, Tables or Figures are considered necessary, these are to be agreed with the Overseeing Organisation. Such alterations will need to be submitted to the Overseeing Organisation in good time with justification and identification of changes to existing text, in drafts of Appendices 0/1 and 0/2 prepared in accordance with the requirements set out below for incorporation in the Contract. The loose-leaf format has been adopted solely to facilitate the incorporation of published national alterations. Under no circumstances should replacement pages be produced to incorporate Contract-specific alterations.

10 The information contained in the Numbered Appendices 0/1 to 0/5 and 1/1 onwards should be bound either in one volume or more as appropriate. Each volume should be clearly titled as to the content.

11 The compiler’s attention is drawn to the requirements of the Construction (Design and Management) Regulations and in particular the need for a health and safety plan to be prepared and provided at the same time as the tender documents, (Ref. SD 10). In particular the compiler should ensure consistency between information referred to in the above plan and the detailed information included in Appendices to the Specification. Appendices likely to be referred to, include but are not confined to:-

Appendix 1/7	Site extent and limits of use
Appendix 1/9	Control of noise and vibration
Appendix 1/13	Programme of works
Appendix 1/16	Privately and publicly owned services and supplies
Appendix 1/17	Traffic safety and management
Appendix 1/18	Temporary diversions for traffic
Appendix 1/19	Routeing of vehicles
Appendix 1/23	Risks to health and safety from materials or substances

NG 002 Terms and Abbreviations

1 Terms and abbreviations used in Additional, and Substitute Clauses and in minor alterations made by ‘delete and insert’ methods must be consistent with those described in Clause 002.

2 The Specification is based on the Highways Agency (HA) requirements and where possible those of the Scottish Office Development Department (SODD), the Welsh Office (WO) and the Department of the Environment for Northern Ireland (DoE NI). The Standards issued by HA, SODD, WO or DoE NI, and forming part of Volume 0 of the Manual of Contract Documents for Highway Works, give implementing and other instructions on the use of the Specification and related procedures within their geographical areas. In addition the Standards issued by SODD, WO or DoE NI, will contain any special national alterations to be included in Appendix 0/5.

NG 003 Appendices

Lettered Appendices

1 All lettered Appendices are national requirements and are intended to be used without alteration, except for Appendix F (see sub-Clause 3).

2 Appendices A to G comprise lists of accepted quality management schemes, product certification schemes, information relating to British Board of Agrément Certificates, other approval procedures, publications referred to in the Specification and petrographical examination procedures. Appendix H contains requirements relating to Quality Records.

3 Appendix F is to list all the publications referred to in the Specification. When Additional, Substitute or minor alterations to Clauses are required, or references to publications are made in the Numbered Appendices, the list of publications contained in Appendix F is to be checked. Any alterations to Appendix F are to be included in Appendix 0/2 (see below).

Numbered Appendices - General

4 The Numbered Appendices to the Specification are to be drawn up for the Contract by the compiler and included in the documents. Where it is considered appropriate to include Contract-specific information on the Drawings, cross-reference should be made in the Numbered Appendix to the relevant drawing number.

5 The Numbered Appendices are to be compiled using advice given in the Notes for Guidance Clauses and in the NG Sample Appendices given at the end of each Notes for Guidance Series. Their content should be agreed with the Overseeing Organisation. Some Numbered Appendices are to be completed by the Tenderer or the Contractor.

6 The Numbered Appendices 1/1 onwards should only be used to extend the information in Specification Clauses, Tables or Figures and NOT to change them. Where the Contract requires new methods or special requirements these should only be introduced by Additional or Substitute Clauses in Appendix 0/1 or by minor alterations in Appendix 0/2.

7 New Numbered Appendices can be used to extend Contract-specific alterations, but see Sample Appendix 0/3 regarding numbering of additional Numbered Appendices.

Numbered Appendices — 0/1 to 0/5

8 The 'Zero' Series Numbered Appendices (0/1 to 0/5) should be compiled in accordance with the Samples following and as explained below.

9 The Contract-specific alterations to the Specification for Highway Works (having prior approval, see NG 000.9) should be described in Appendices 0/1 and 0/2 taking account of the following:

- (i) Requirements relating to Clauses equally apply to Tables and Figures.
- (ii) Care should be taken to ensure compatibility between Clauses and any associated Tables and Figures which are altered.
- (iii) Text which duplicates the provisions of the Conditions of Contract is to be avoided.

10 Appendix 0/1 is for incorporation of Contract-specific alterations to the Specification for Highway Works as follows:

- (i) Additional Clause - written in Appendix 0/1 with suffix 'AR' added to the Clause number.
- (ii) Substitute Clause - rewritten in Appendix 0/1 in full with existing Clause number and with suffix 'SR'.
- (iii) Cancelled Clause - Clause number with suffix 'CR' followed by its title written in Appendix 0/1, with the word 'Cancelled' alongside it.

If there are no Additional, Substitute or Cancelled Clauses to be included in the Contract write 'NONE' in Appendix 0/1.

11 Appendix 0/2 is for incorporation of Contract-specific minor alterations to existing Clauses, Tables and Figures and any alterations to Appendix F. These can be described by the 'delete and insert' or 'add new sub-clause' procedure, provided they are neither extensive nor confusing. The Clause is not then a Substitute Clause and there is no need to add a suffix. The instructions for these minor alterations are to be written in Appendix 0/2. If there are none write 'NONE'.

12 Appendix 0/3 is to comprise a complete list of Numbered Appendices included in the Contract. List A contains those referred to in the national Specification and List B contains any additional Numbered Appendices devised by the compiler. Where a Numbered Appendix in List A is not used, this should be marked 'Not Used' alongside its number. Those to be completed by the Tenderer/Contractor must be identified and blanks of 'pro-formas', copied from the Notes for Guidance, are to be included as appropriate.

13 Appendix 0/4 is to list the Drawings in the Contract (including those from the HCD, which is published as Volume 3 of the Manual of Contract Documents for Highway Works).

14 Appendix 0/5 is to include special national alterations of the Overseeing Organisation of Scotland, Wales or Northern Ireland.

NG Tables NG 0/1 to NG 0/3

15 Tables NG 0/1 to NG 0/3 following are check lists to be used as an aide-memoire to compilers of the Contract as follows:

- (i) Table NG 0/1: Identifies sub-Clauses that contain a reference to a Numbered Appendix, which will contain Contract-specific requirements.
- (ii) Table NG 0/2: Identifies sub-Clauses, etc. which are complete but which recognise that Contract-specific requirements may be applicable.
- (iii) Table NG 0/3: Identifies sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.

NG 004 British Standards, British Standard Codes of Practice, Harmonised European Standards, European Standards and Other Reference Documents

1 The Contract documentation should establish, for each British Standard incorporated in the Contract, the respective edition which is to be used.

2 Any alterations to the text of SHW and NG Clauses required as a result of the publication of new Harmonised European Standards, European Standards, British Standards or amendments to Standards will be drawn up by the Overseeing Organisations and published at appropriate intervals.

3 The compiler should ascertain whether any amendments or new editions of the reference documents have been issued since the last published national

alteration to the SHW and where appropriate include Contract-specific alterations in Appendix 0/1 or 0/2. Where a Harmonised European Standard or a European Standard has been issued in the period between the date stated in the Contract and the date of the last published national alteration to the SHW, Contract-specific alterations should be made to ensure the European Standard is properly incorporated in the Contract. Use of European Standards issued prior to the date stated in the Contract is mandatory and sub-Clause 004.4 provides for their incorporation in the Contract by default.

4 The compiler should ensure that there are no inconsistencies between the reference documents specified in the Contract and those used in the design. Where necessary, Contract-specific alterations should be included in Appendix 0/1 or 0/2 to achieve consistency. Amendments to Harmonised European Standards are not permitted. Amendments to European Standards may be considered only in exceptional circumstances where there is clear and proper justification. In such circumstances, and in cases where the basis of design may be compromised unless amendments are made, the Overseeing Organisation should be consulted.

5 The compiler should consider whether reference document amendments published after the Contract has been awarded should be incorporated in the Contract. Amendments, such as those issued by BSI making editorial changes to British Standards, will often have negligible cost implications and should usually be adopted.

6 British Standards, and other publications, referred to in the Notes for Guidance are listed in Annex 1.

NG 005 Thickness of Material and Tolerances

1 It is not considered necessary or desirable to specify tolerances for all dimensions. Where dictated by functional or aesthetic need, tolerances are included in the Specification for Highway Works. Other tolerances are incorporated by reference to British Standards and other publications. If the compiler requires further tolerances to apply these should be given on the Drawings. Unnecessarily fine tolerances have the effect of increasing prices and should be avoided.

TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix

<u>0/1</u>	<u>0/2</u>	<u>0/3</u>	<u>0/4</u>	<u>0/5</u>	<u>1/1</u>	<u>1/2</u>	<u>1/3</u>	<u>1/4</u>	<u>1/5</u>	<u>1/6</u>	<u>1/7</u>	<u>1/8</u>	<u>1/9</u>
*	*	*	*	*	101.1	102.1	103.1	104.17	105.2	105.5	107.1	108.1	109.1
		003.2			101.2	108.4	103.4	104.17NI	105.3	105.6			109.2
					101.3			1202.5(i)	105.5				
					101.7				404.3				
									509.1				
									509.7				
									517.20(vii)				
									901.2				
									919.5				
									919.13				
									920.4				
									922.7				
									922.15				
									943.28				
									1214.20				
									1306.3				
									1518.1				
									1601.31				
									1706.2				
									1718.5				
									1912.1				
									2208.3				
Note: *These Numbered Appendices are referred to in the Preamble to the Specification.													
<u>1/10</u>	<u>1/11</u>	<u>1/12</u>	<u>1/13</u>	<u>1/14</u>	<u>1/15</u>	<u>1/16</u>	<u>1/17</u>	<u>1/18</u>	<u>1/19</u>	<u>1/20</u>	<u>1/21</u>	<u>1/22</u>	<u>1/23</u>
106.1	106.4	111.1	113.1	114.1	115.1	116.3	117.2	117.2	119.1	120.1	110.1	122.1	124.1
106.3	516.1	112.1	918.1		307.1	116.4	117.2NI	117.2NI		120.8			
501.1	517.1	112.1NI	919.1				117.3	117.8		120.10			
Table 5/1	624.1	112.4	919.9				117.3NI	117.8NI		120.11			
625.1	1601.24	112.4NI	922.1				117.4	118.2		120.13			
1601.24		702.1	922.11				117.4NI	118.3		120.14			
2501.2		702.1NI	927.1				117.6	118.5		120.17			
2502.1		Table 16/1	927.15				117.6NI	118.6		120.19			
2504.15							117.7						
							117.7NI						
							117.8						
							117.8NI						
							117.10						
							117.10NI						
							117.11						
							117.11NI						
							117.15						
							117.15NI						
							117.16						
							117.16NI						
							117.19						
							117.19NI						
							117.21						
							117.21NI						
							917.5						

TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)

<u>1/24</u>	<u>1/25</u>	<u>2/1</u>	<u>2/3</u>	<u>2/4</u>	<u>2/5</u>	<u>3/1</u>	<u>4/1</u>	<u>4/2</u>	<u>5/1</u>	<u>5/2</u>	<u>5/3</u>	<u>5/4</u>
104.2	125.1	201.1	201.6	109.2	204.1	306.1	402.1	412.1	501.1	501.7	510.1	514.1
104.2NI	125.6	201.3	201.9	203.1		306.2	403.1		501.2	501.8		514.4(iv)
104.6	125.17		309.1			306.3	403.2(i)		501.3	Table 5/2		514.4(v)
104.6NI			706.6			(2.6)	403.6		501.4(i)	503.5		514.5(ii)
			706.4NI			306.3	404.3		501.5	503.5NI		514.10
						(5.2.2)	404.4(i)		Table 5/1	503.6NI		514.11
						308.1	404.4(ii)		503.3	505.7		515.1
						308.4	409.3		503.3NI	1421.2		515.5
						312.4	411.3		503.6NI	1421.19		515.6
						312.5			504.2			515.7
						2605.3			504.3(i)			Table 5/9
									505.3			
									Table 5/5			
									505.6			
									506.1			
									506.3			
									507.1			
									507.5			
									507.8			
									507.9			
									507.13			
									507.14			
									508.1			
									508.1NI			
									508.3			
									508.3NI			
									508.4			
									508.4NI			
									508.5			
									508.5NI			
									508.7			
									508.7NI			
									509.1			
									509.8			
									511.1			
									511.4			
									608.8			

TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)

5/5	5/6	6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9
516.1	517.1	601.1(i)	602.5	109.2	605.1(i)	609.1	610.2	613.1	602.9	619.1
	517.3	& (ii)	602.18	601.13	605.1(iii)	609.2	610.6	613.2	602.10	619.4
	517.4	601.1(i)NI		601.13NI	605.1(vii)	609.4	Table 6/1	613.4	602.11	620.1
	517.7	& (ii)NI		601.14	605.1(viii)	609.4(i)		613.5	608.11	620.2
	517.9	601.2(i)		601.14NI	605.1(viii)(a&b)	609.5		613.6	618.2	620.3
	517.17(ii)	& (ii)		601.16	605.1(xi)	609.7		613.7	618.3	620.4
	517.18	601.2NI(i)		601.16NI		609.8		613.11	618.3(i)	620.5
	517.20(ii)	& (ii)		602.12				613.12	618.4	621.1
		601.4		603.1				614.11	618.6(i)	
		601.4NI		603.2				615.3	618.6(iv)(b)	
		601.5(ii)		603.4				615.4	618.7(ii)	
		601.5(ii)NI		603.5(ii)				615.6	618.8(i)	
		601.15		603.5(iv)				615.15	618.8(ii)	
		601.15NI		603.6				616.1	618.8(iv)	
		602.1		603.6(i)				616.4	618.9(i)	
		602.4		603.6(ii)				616.4(i)	618.9(ii)	
		602.17		603.6(iii)				616.4(ii)	618.10	
		605.1		603.6(iv)				616.6	618.12	
		605.1(xi)		603.7					618.13	
		608.1(ii)		603.7(ii)						
		614.3		604.1						
		614.10		604.2(ii)						
		614.14		606.1						
		615.5		606.4						
		615.13		607.1						
		615.16		607.1NI						
		622.3		607.2(vi)(a)						
		622.4		607.2(vi)(a)NI						
		622.5(i)		607.2(vii)(e)						
		626.2		607.2(vii)(e)NI						
		632.1SO		608.1(i)						
		632.2		608.2						
		632.2SO		608.5						
		632.3		608.6						
		632.3SO		608.7						
		632.4SO		608.9(i)(b)						
		632.5SO		608.12						
		633.1		612.9						
		633.3		612.15						
		633.4		618.5(i)						
		635.2		622.6						
		636.1		623.2						
		636.5		623.4						
		637.1		623.13						
		637.2								
		638.1								
		638.2								
		638.5								
		639.5								
		640.1								
		642.1								
		Table 6/1								

TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)

6/10	6/11	6/12	6/13	7/1	7/1 (contd)	7/2	7/3	7/4	7/5	7/6
603.6(iv)	627.1	629.1	109.2	701.1	915.2	706.2	919.1	920.2	926.1	707.1
624.1	627.2	629.2	608.2	702.2	915.3	706.2NI	919.2	920.3	926.3	
625.1	628.1		630.1	702.2NI	916.1	706.3	919.4	920.6	926.11	
626.1			630.2	702.4	916.2	706.7NI	919.5		926.12	
626.3(ii)			630.4	702.4NI	916.3	706.8	919.6		926.16	
626.5			630.7	702.7	921.2	706.13NI	919.10		926.21	
			630.9	702.7NI	924.3	1033.9	919.16			
			630.10	702.8	924.4	1033.12	922.1			
			630.11	702.8NI	926.14	1033.13	922.2			
			630.14	Table 7/2	926.15	1033.15	922.4			
			630.15	Table 7/2NI	926.22	1033.16	922.6			
			630.17	801.1	930.1		922.7			
			630.20	801.1NI	931.1		922.8			
			630.21	804.3	932.1		922.12			
				850.5SO	933.1		922.17			
				850.9SO	934.1		922.18			
				901.1	938.1		922.21			
				901.2	938.2		922.22			
				902.3	938.4					
				903.1	942.1					
				903.3	942.4					
				904.1	942.22					
				904.3	943.1					
				905.1	943.5					
				905.3	943.7					
				906.1	943.20					
				906.3	943.26					
				907.1	943.31					
				907.3	1001.1					
				908.1	1001.2					
				908.3	Table 10/1					
				909.1	1004.7					
				909.2	1008.9					
				909.3	1008.11					
				909.4	1009.1					
				910.1	1028.5(v)					
				910.2	1030.13					
				910.3	1033.7					
				910.4	1035.1					
				911.1	1042.1					
				911.3	1044.5					
				911.4	1044.27					
				911.6	1044.31					
				911.8						
				912.1						
				912.2						
				912.3						
				912.4						
				913.1						
				913.2						
				913.3						
				913.4						
				914.1						
				914.2						
				914.3						
				914.4						
				914.5						

TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)

<u>7/7</u>	<u>7/8</u>	<u>10/1</u>	<u>11/1</u>	<u>12/1</u>	<u>12/2</u>	<u>12/3</u>	<u>12/4</u>	<u>12/5</u>	<u>12/6</u>
918.1	927.1	1044.2	1101.1	1201.1WO	1211.1	1212.1	1214.4	1217.1	1208.6
918.2	927.2	1044.3	1101.1NI	1201.3(ii)NI	1211.2	1212.1NI	1214.18	1217.2	1220.2
918.3	927.3	1044.6	1101.2	1201.4(ii)	1211.3	1212.2	1214.56	1217.3	
918.4	927.4	1044.8	1101.2NI	1201.3(ii)WO		1212.2NI		1217.5	
918.8	927.8	1044.12	1101.3	1202.1		1212.2(iv)		1217.6	
918.17	927.16	1044.16	1101.3NI	1202.5(ii)		1212.2(iv)NI		1217.7	
	927.20	1044.23	1102.2	1202.6		1212.5		1217.12	
	927.22		1103.1	1202.7		1212.5NI		1217.13	
	927.24		1103.3	1203.1		1212.9		1219.1	
	927.27		1104.1	1203.5		1212.9NI		1219.2	
	927.28		1104.2	1204.1		1212.10		1219.4	
	927.29		1105.1	1204.1(iii)		1212.10NI			
	927.30		1105.1NI	1204.5		1212.14			
	927.33		1105.2	1204.6		1212.14NI			
			1105.2NI	1205.5		1213.5			
			1105.3	1206.1		1213.5NI			
			1105.3NI	1207.8		1213.7			
			1106.1	1208.1		1213.7NI			
			1106.1NI	1208.6		1216.5			
			1106.2	1209.1					
			1106.2NI	1209.7					
			1106.3	1210.1					
			1106.3NI	1216.2(i)					
			1107.1	(b&c)					
			1107.3	1221.1					
			1108.1	1221.3					
			1108.3	1407.3					
			1109.1	1509.1					
			1109.2						
			1109.3						
			1109.4						
			1109.6						
			1109.7						
			1109.8						
			1109.9						

TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)

<u>13/1</u>	<u>13/2</u>	<u>13/3</u>	<u>14/1</u>	<u>14/2</u>	<u>14/3</u>	<u>14/4</u>	<u>14/5</u>	<u>15/1</u>	<u>15/2</u>
1301.2	1303.1	1303.1	1402.1	1401.5	1405.1	1407.1	1417.1	1502.1(i)	1530.1
1301.2NI				1403.1		1407.2(i)	1419.1	1502.1(iv)	1530.2
1301.6						1409.1	1509.1	1502.1(v)	1530.7
1301.6NI						1409.3		1502.2	1532.1
1302.3						1409.4		1504.1(xiii)	1532.10
1303.1						1416.3		1505.1	1532.11
1304.5						1416.5		1505.3	1532.13
1305.3(i)						1416.6		1505.6	
1305.3(ii)						1417.1		1506.1	
1305.8						1418.1		1506.2	
1308.4						1418.5		1507.1	
1308.4NI						1418.6		1507.2	
1308.5						1419.1		1507.24	
1308.5NI						1419.8		1507.26	
1309						1421.3		1507.28	
						1421.4		1507.29	
						1421.5		1508.1	
						1421.11		1508.5	
						1422.3		1510.1	
						1422.6		1512.1	
						1423.1		1512.2	
								1512.3	
								1512.4	
								1513.10	
								1516.1	
								1516.2	
								1516.9	
								1517.1	
								1518.1	
								1518.3	
								1519.1	
								1519.2	
								1519.4	
								1519.5	
								1519.7	
								1520.1	
								1521.1	
								1521.2	
								1521.3	
								1521.5	
								1521.6	
								1522.1	
								1522.2	
								1523.3	
								1524.1	
								1527.1	
								1528.1	
								1534.1	

TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)

<u>16/1</u>	<u>16/2</u>	<u>16/3</u>	<u>16/4</u>	<u>16/5</u>	<u>16/6</u>	<u>16/7</u>	<u>16/8</u>	<u>16/9</u>	<u>16/10</u>	
1601.23	1601.24	1601.24	1601.24	1601.24	1601.24	1601.24	1601.24	1601.24	1601.24	
1601.24	1602.2	1603.4	1604.6	1602.30	1602.28	1607.1	1608.1	1609.1	1610.5	
1601.26	1602.6	1603.5	1604.7	1605.1	1602.30	1607.5	1608.2	1609.6	1610.9	
1601.27	1602.7	1603.9	1604.15	1605.5	1602.31	1607.6	1608.4	1609.7	1610.11	
1601.28	1602.13	1603.11		1605.7	1606.9	1607.7	1608.8	1609.21	1610.15	
1601.29	1602.22	1603.23		1605.8	1606.10	1607.8	1608.15	1609.33	1610.20	
1601.31	1602.23	1603.24		1605.10	1606.12			1609.34	1610.21	
1610.5	1602.28	1603.28		1605.12	1606.15				1610.22	
	1602.29			1605.17	1606.18				1610.23	
	1602.30				1606.27					
	1602.31				1606.32					
	1602.32				1606.36					
	1602.33									
<u>16/11</u>	<u>16/12</u>	<u>16/13</u>	<u>16/14</u>	<u>16/15</u>	<u>16/16</u>	<u>16/17</u>	<u>16/18</u>	<u>17/1</u>	<u>17/2</u>	<u>17/3</u>
1601.24	1601.24	1601.24	1601.24	1601.24	1601.24	1601.24	1601.24	1701.1	1709.1	1708.1
1610.23	1610.23	1610.23	1611.9	1615.5	1616.2	1617.1	1618.1	1704.2	1710.5(i)	1708.4(i)
1611.1	1611.9	1611.9	1611.11	1615.7		1617.2	1618.3	1707.4		1708.4(ii)
1611.9	1611.11	1611.11	1611.15			1617.3		1708.2		
1611.11	1611.15	1611.15	1614.8			1617.5				
1611.15	1611.21	1611.21	1614.10			1617.10				
1611.17	1611.22	1611.23	1614.11			1617.11				
1611.21	1611.23	1613.1				1617.12				
1611.22	1612.1	1613.8				1617.15				
1611.23	1612.3					1617.17				
	1612.11									
	1612.13									
<u>17/4</u>	<u>18/1</u>	<u>18/1 (contd)</u>	<u>19/1</u>	<u>19/2</u>	<u>19/3</u>	<u>19/4</u>	<u>19/5</u>			
1707.2(iii)	1801.1	1803	1901.1	1901.1	1307.3	1221.4	1909.2			
1710.1	1803	(4.15)	1902.4	1902.4	1901.1	1221.6	1909.2SO			
1710.2(iv)	(3.1.1)	1803	1902.7(i)	1902.7(i)	1902.4	1221.9	1909.5			
1710.8(ii)	1803	(4.16)	1904.19	1904.19	1902.7(i)	1901.1	1909.5SO			
1710.8(iii)	(3.1.3)	1803	1904.20	1904.20	1904.19	1902.4	1914.7(iii)			
1710.8(iv)	1803	(4.17)	1904.23	1904.23	1904.20	1902.7(i)	1914.13			
1711.1	(3.1.4.2)	1803	1907.1	1907.1	1904.23	1904.19	1918.1			
1712.4	1803	(5.3)	1915.2	1915.2	1907.1	1904.20	1918.2			
1714.1(ii)	(3.1.6)	1803	1918.1	1918.1	1915.2	1904.23	1920.2			
1725.1	1803	(5.4.1.1)		1920.1	1918.1	1907.1	1920.2SO			
1727.1	(3.10.1)	1803		1920.1SO	1921.1	1915.2				
	1803	(5.4.1.2)				1918.1				
	(4.2.3)	1803 Table 3								
	1803	1803								
	(4.3.3)	(5.5.1.2)								
	1803	1803								
	(4.5.1)	(5.5.2)								
	1803	1803								
	(4.7.1)	(5.6.6)								
	1803	1803								
	(4.7.2)	(5.9)								
	1803	1803 Table 4								
	(4.7.3)	1803								
	1803	(6.3.1)								
	(4.8)									
	1803									
	(4.9)									
	1803									
	(4.11)									

TABLE NG 0/1: List of sub-Clauses which refer to Contract-specific requirements described in a Numbered Appendix (continued)

<u>19/6</u>	<u>19/7</u>	<u>19/8</u>	<u>19/9</u>	<u>20/1</u>	<u>20/2</u>	<u>21/1</u>	<u>22/1</u>	<u>23/1</u>	<u>23/2</u>
No ref in SHW See NG 1910	No ref in SHW See NG 1910	1918.1	1901.3	2003.3	2004.4 2007.1	2104(3.1) 2104(3.7.4.1) 2104(4.3.2) 2104(4.7) 2104(5.4.8) 2104(6.1) 2104(6.2) 2104(7.2) 2104(8.3.1) 2104(8.3.2.2) 2601.1	2201.1 2202.4 2204(19.2.5.1) 2204(19.2.5.2) 2208.3	2301.1 2302.5 2302.8	2301.1 2303.1
<u>24/1</u>	<u>25/1</u>	<u>25/2</u>	<u>25/3</u>	<u>25/4</u>	<u>26/1</u>	<u>26/2</u>	<u>26/3</u>		
2401.1(iii) 2404.1 2406.1 2407.1 2408.1 2409.1 2412.1 2412.5 2412.6 2413.6 2413.9 2416.4	2501.2 2501.11 2501.12 2501.19	2502.1	2503.5 2503.6 2503.18 2503.22 2503.29 2503.32 2503.33	2504.2 2504.14 2504.15 2504.15(i) 2504.15(x) 2504.16 2504.19 2504.21 2504.22(i)	2602.1 2602.3	2601.1 2601.3(v)	2606.1		

SUPERSEDED

TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. sub-Clauses state “ unless otherwise described in Appendix -/-”

INTRODUCTION	
001.1	Application of the National Alterations of the Overseeing Organisations of Scotland, Wales and Northern Ireland.
PRELIMINARIES	
101.2	Occupation date for accommodation for the Overseeing Organisation.
103.1	Alternative date for provision of communications system.
103.2	Provision of separate communication system for the Overseeing Organisation.
112.1, 112.1NI	Timing of check of setting out data.
116.5	Interruption of privately and publicly owned services or supplies.
117.3, 117.3NI	Traffic safety and management proposals.
117.4, 117.4NI	Removal of central reserve crossovers.
117.8, 117.8NI	Provision of traffic signs.
117.10, 117.10NI	Maintenance of traffic signs.
117.19, 117.19NI	Traffic safety and control officer.
117.23, 117.23NI	Driver information signs at roadworks.
118.3	Removal of temporary diversions for traffic specified by the Overseeing Organisation.
120.10	Limits of recovery service for breakdowns.
SITE CLEARANCE	
201.2	Severance of lines of existing fences, hedges or walls.
201.4	Removal of disused services.
201.4	Backfilling trenches.
202.1	Disposal of felled timber.
FENCING	
302.1	Use of barbed wire on temporary fencing and choice of temporary fencing.
302.2	Removal of temporary fencing.
303.1	Type of temporary fencing and choice of temporary fencing.
303.3	Preservation treatment of temporary fencing.
304.2	Timber quality.
305.1	Grade of bolts, screws and nuts.
306.1	Alignment of fencing and joining to existing hedges, fences etc.
311.2(i)	Preservation of timber.
SAFETY FENCES, SAFETY BARRIERS AND PEDESTRIAN GUARDRAILS	
403.9(i)	Timing of submission of evidence of capability of anchorages in drilled holes.
404.4(i)	Timing of post foundation tests.
DRAINAGE AND SERVICE DUCTS	
501.2	Type of pipe between consecutive chambers.
501.4	Minimum thickness of corrugated steel pipes.
501.7	Internal diameter of pipes for service ducts.

TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. sub-Clauses state “ unless otherwise described in Appendix -/-” (continued)

DRAINAGE AND SERVICE DUCTS <i>continued</i>	
502.2	Placing of pipes under new embankments.
503.2, 503.2NI	Laying of corrugated coilable perforated pipes.
503.3(v), 503.3(v)NI	Materials for bedding haunching and surrounding filter drains.
504.2	Watertight joints for ducts.
505.2	Backfilling of trenches.
505.6	Removal of supports to trenches.
507.4	Concrete for in situ concrete chambers.
507.18	Setting of chamber frames and gratings or covers.
508.5, 508.5NI	Gully grating profile and protective coating.
508.8, 508.8NI	Setting of gully frames and gratings or covers.
509.5	Video camera survey of foul drains.
511.4	Filling to disturbed mole channels.
512.1	Backfilling to pipe bays and verges on bridges.
513.1, 513.2	Permeable backing to earth retaining structures.
514.1	Meanings of terms for fin drains.
514.9	Backfill material for fin drains.
514.10	Dimensions and drain slope angle for fin drains.
515.6	Dimensions and drain slope angle for narrow filter drains.
EARTHWORKS	
601.2 (ii), 601.2 (ii)NI	Composition of unacceptable material Class U1.
602.3	Removal of excavation material other than surplus.
602.5	Removal of surplus material.
602.6	Deposition of fill material.
602.12	Battering.
603.3	Halting of excavation.
603.6(i)	Depth of excavation of insecure material in cutting faces.
605.1(v)	Maximum vehicle capacity for trafficking Class 3 material.
605.1(x)	Treatment of Class 3 material at end of working day.
607.2(vii)(c), 607.2(vii)(c)NI	Arrangements for installing instruments off the Site.
608.4, 608.9	Construction of fills.
610.1(iv)	Fill above structural concrete foundations.
612.1	Compaction of fills.
612.10(ii)	Areas of fill requiring extra compaction.
613.3	Capping materials and layers.
613.8	Longitudinal gradient, crossfall and surface tolerances of sub-formation.
614.2	Cement type for stabilisation.
614.5	Compaction thickness of cement stabilisation.

TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. sub-Clauses state “ unless otherwise described in Appendix -/-” (continued)

EARTHWORKS <i>continued</i>	
614.7	Method of cement stabilisation.
615.7	Compacted thickness of lime stabilisation.
615.8	Restrictions on when to carry out lime stabilisation.
615.9	Method of lime stabilisation.
618.3	Excavation of topsoil from stockpiles.
618.4(i)	Application of fertiliser and seed by hydraulic mulch.
618.5(ii)	Harrowing of cutting slopes.
618.6(ii)(a)	Dimensions of stones and other debris permitted in topsoil.
618.10	Removal of grass cuttings.
618.13	Seed mixture.
619.1	Deposition and compaction to environmental bunds.
623.7	Fill level requirement for corrugated steel buried structures.
626.3, 626.3(i)	Gabion mesh.
626.5	Minimum size of fill material to gabions.
630.5	Material requirements for vibrated stone columns.
631.1	Sampling and testing of earthworks materials.
633.1	Undrained shear strength tests.
636.1	Shear box or triaxial test methods.
642.8	Positions of plate loading tests.
ROAD PAVEMENTS - GENERAL	
705.4, 705.4NI	Frost susceptible material.
706.6NI	Backfilling of excavations.
706.7NI	Reinstatement of paved areas.
708.3, 4, 5, 6	Laying of hot rolled asphalt wearing course materials.
ROAD PAVEMENTS - UNBOUND MATERIALS	
801.3, 801.3NI	Spreading mode for unbound materials.
ROAD PAVEMENTS - BITUMINOUS BOUND MATERIALS	
901.2	Hardness, durability and cleanness of aggregates.
910.19	Compaction level of dense macadam.
903.1	Dense macadam roadbase.
906.1	Dense macadam roadbase.
907.3	Use of rolled asphalt for regulating courses.
917.9	Removal of spoil from cold-milling.
918.1	Slurry surfacing design, materials and workmanship.
919.1	Guarantee of materials and workmanship for surface dressing.
922.3	Surface dressing performance specification.
922.21	Surface texture performance standards.
927.1	Guarantee of design, materials and workmanship for micro-surfacing.

TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. sub-Clauses state “ unless otherwise described in Appendix -/-” (continued)

ROAD PAVEMENTS - BITUMINOUS BOUND MATERIALS <i>continued</i>	
927.28	Performance standards for micro-surfacing.
930.1	Heavy duty macadam roadbase.
932.1	Dense bitumen macadam roadbase with grade 50 penetration binder.
933.1	Heavy duty macadam basecourse.
934.1	Dense bitumen macadam basecourse with grade 50 penetration binder.
942.3	Coarse aggregate.
942.9	Binder penetration.
943.2	Hot rolled asphalt wearing course.
943.16	Hot rolled asphalt wearing course core samples.
ROAD PAVEMENTS - CONCRETE AND CEMENT BOUND MATERIALS	
1033.4	Criteria for full-width repair or reinstatement.
1033.10	Butt-welding of reinforcement.
KERBS, FOOTWAYS AND PAVED AREAS	
1103.3	Curing of in situ concrete for kerbs etc.
TRAFFIC SIGNS	
1201.3NI, 1201.4 (ii), 1201.4 (ii)WO	Classification of prescribed temporary traffic signs.
1202.3	Impact category of sign panels.
1202.4	Luminance category of lit traffic signs.
1202.5	Details of permanent traffic signs.
1203.1	Foundations for permanent traffic signs and signals.
1203.3	Foundations for single posts.
1203.4	Post foundation construction.
1204.4	Positioning of signs on single posts.
1204.5	Positioning of compartments for electrical equipment.
1208.3	Positioning of signs on two posts.
1208.4	Filling to pockets in post foundations.
1209.1	Covering of permanent traffic signs.
1210.2	Securing requirements for reflective-only bollards.
1221.5	Painting of aluminium posts and post housings.
1221.6(ii)	Minimum dry film thickness of paint for aluminium sign plates.
1221.7	Finish of aluminium internally housed electrical components and ancillary equipment.
1221.8	Finish of stainless steel components.
1221.9	Finish of internal surfaces of cast iron and cast steel components.
ROAD LIGHTING COLUMNS AND BRACKETS	
1305.5	Backfill to planted columns.
1305.10	Timing of submission of evidence of capability of anchorages in drilled holes.
1309 p7, cl 6	Use of slotted holes in flange plates.

TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. sub-Clauses state “ unless otherwise described in Appendix -/-” (continued)

ROAD LIGHTING COLUMNS AND BRACKETS <i>continued</i>	
1313.10	Testing of GFRP laminates.
1314.9	Testing of polyurethane foam.
ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS	
1401.3, 1401.3NI	Operating voltage of network.
1407.2(iii)	Degree of protection rating of luminaires.
1407.2(iv)	PECU socket requirements for luminaires.
1407.3(ii)	Mean sign luminance category requirements for luminaires.
1407.3(iii)	Impact strength category requirements for luminaires.
1408.2	Light output requirements for lamps.
1409.3	PECU requirements for luminaires mounted on twin arm brackets.
1411.1(ii)	Reserve for time switches.
1412.1	Specification and voltage operation requirements for ballasts.
1413.1	Requirements for ignitors.
1418.3	Security requirements for feeder pillar doors. Material requirements for hinges and locks.
1418.7	Requirements for feeder pillar foundations.
1419.2	Wiring materials in lighting columns and traffic signs.
1419.7	Wiring requirements on double bracket columns.
1421.1	Wiring materials for underground cables.
1421.7	Laying requirements for cables in trench.
1421.8	Laying requirements for power supply cables.
1421.13	Bedding and covering requirements for cables in trench.
MOTORWAY COMMUNICATIONS	
1502.1 (i)	Requirements for collection of cables from the Overseeing Organisation.
1502.1(ii)	Requirements for supply of ducts and chambers.
1502.1(iii)	Requirements for supply of posts, boards and slabs for Motorway System.
1505.1	Supply of equipment.
1507.32	Drum length to be laid in one operation.
1510.2	Installation requirements for telephone housings.
1521.7	Reinstatement at existing equipment and trench sites.
1530.2	Nominal sizes of ducts.
1531.7	Reinstatement of duct trenches.
1532.6	Cast in situ chamber construction.
PILING AND EMBEDDED RETAINING WALLS	
1602.30	Pile driving records.
1602.31	Set and temporary compression of piles.
1603.5	Minimum head of drilling fluid above external groundwater.
1605.10	Set for driven cast-in-place piles.
1609.21	Suitability of equipment for applying load.

TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. sub-Clauses state “ unless otherwise described in Appendix -/-” (continued)

PILING AND EMBEDDED RETAINING WALLS <i>continued</i>	
1610.15	Tolerances of diaphragm wall construction.
1611.15	Time period between pile excavation and concrete placement.
1611.17	Tolerances of secant pile construction.
1612.11	Time period between pile excavation and self hardening mix placement.
1612.13	Tolerances of secant pile construction.
1613.8	Tolerances of contiguous pile construction.
1617.12	Placing of instrumentation in the concrete cover zone.
STRUCTURAL CONCRETE	
1701.1	Concrete mix requirements.
1703.1	Types of cement.
1703.2	Specification requirements for lightweight aggregate.
1703.4(i)	Specification requirements for admixtures.
1704.3	Maximum cement content.
1707.1	Specification requirements for sampling and testing.
1708.4(i)	Pattern of formwork joints.
1717.1	Welding of reinforcement.
1723.1	Alignment tolerance for sheath or duct.
1724.3	Stressing of pretensioned prestressed concrete.
1724.4(iv)	Stressing of post-tensioned prestressed concrete.
STRUCTURAL STEELWORK	
1801.2	Specification requirements for structural steelwork.
1802.1	Requirements for surface preparation and protection against corrosion.
1803 (3.1.1)	Requirements for structural steels.
1803 (3.2)	Requirements for rivet steels.
1803 (3.3)	Requirements for steel for shear connectors other than headed stud type.
1803 (3.4.1)	Structural steel bolts and nuts requirements.
1803 (3.4.3)	Requirements for high strength friction grip bolts, nuts and washers.
1803 (3.4.4)	Specification requirements for stainless steel nuts and bolts.
1803 (3.5)	The effect of welding consumables and procedures on weld strength.
1803 (4.1)	Interchangeability of parts.
1803 (4.2.2)	Tolerances of rolled and built-up sections.
1803 (4.3.6)	Requirements for contact surfaces in high strength friction grip bolted connections.
1803 (4.4)	Requirements for bolts, nuts and washers.
1803 (4.4.5)	Compliance and use requirements for high strength friction grip bolts.
1803 (4.5.3)	Requirements for holes for high strength friction grip bolts.
1803 (4.6)	Dimensions of rounded or flat countersunk rivet heads.
1803 (4.7.1)	Use of complete penetration butt welds.

TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. sub-Clauses state “ unless otherwise described in Appendix -/-” (continued)

STRUCTURAL STEELWORK <i>continued</i>	
1803 (4.7.1)	Requirements for electrodes used with improved atmospheric corrosion resistant steels.
1803 (4.7.2)	Requirements for fusion and butt welding of steel castings.
1803 (4.7.4)	Procedure trials for welding of shear stud connectors.
1803 (4.11)	Welding of tie rods.
1803 (4.13)	Timing of boring for pin holes.
1803 (4.14)	Camber formed by junctions of straight sections of girder.
1803 (5.5.1.1)	Frequency of production test plates for butt welds.
1803 (5.5.2)	Weld defect acceptance levels.
1803 (5.6.6)	Requirements for rectification of deviations.
1803 (7.3)	Requirements for spares.
PROTECTION OF STEELWORK AGAINST CORROSION	
1902.1	Use of solvents.
1902.10	Cleaning of final shop coats.
1903.1	Abrasives for dry blast cleaning in shops.
1903.12	Use of air/water/abrasive system for wet blast cleaning on site.
1904.2	Treatment of threaded fasteners.
1904.7, 1904.8	Metal spraying of joints made with HSFG bolts.
1904.12	Protective system to non-friction bolted site joints.
1904.16	Stepping back of shop paint coats at non-friction bolted joints.
1908.3(i) (ii)	Standard of restored surface preparation and coatings.
1909.5, 1909.5SO	Use of paints from more than one source.
1910.1	Provision of 'A' samples.
1911.1	Specification for galvanized coatings.
1911.2	Specification for sprayed metal coatings.
1911.3	Specification for sheradized coatings.
1911.4	Specification for electroplated coatings.
1914.3	Method of application of paint.
1915.1	Requirements for procedure trials.
1917.1	Returning of protective system at surfaces in contact with concrete.
1917.3	Galvanized coatings in contact with concrete.
1920.1, 1920.ISO	Additional requirements for the protection of steel in bridge bearings.
1921.1	Additional requirements for the protection of steel lighting columns and bracket arms.
WATERPROOFING FOR CONCRETE STRUCTURES	
2003.2	Specification for mastic asphalt.
2006.1	Priming for tar and bitumen waterproofing.
BRIDGE BEARINGS	
2101.1	Specification for supply and installation.
2102.1	Requirements for surface preparation and protection against corrosion.
2104 (3.7.3.8)	Methods of testing ozone resistance.

TABLE NG 0/2: List of sub-Clauses which permit Contract-specific requirements to be included in the Contract instead of the national ones stated, eg. sub-Clauses state “ unless otherwise described in Appendix -/-” (continued)

BRIDGE BEARINGS <i>continued</i>	
2104 (4.1)	Interchangeability of parts.
2104 (5.1)	Manufacturing tolerances.
2104 (8.3.2.1)	Handling, transport, storage and installation tolerances.
2104 (8.3.2.2)	Setting of bearings.
PARAPETS	
2202.1	Specification requirements for metal parapets.
2202.3	Specification requirements for pedestrian parapets.
2203.1	Specification requirements for anchorages and attachment systems.
2207.1	Inspection requirements for parapet posts.
2207.2	Certification requirements for parapet posts.
BRIDGE EXPANSION JOINTS AND SEALING OF GAPS	
2301.4	Combination of different joint systems.
2304.1	Protective treatment.
BRICKWORK, BLOCKWORK AND STONEMWORK	
2406.4	Types of brick used in drainage.
2412.3	Overhand work.
2413.1	Dimensions of stones for stonework.
2413.7	Treatment to exposed face of stone.
2413.9	Dimensions of bond stones in random rubble.
SPECIAL STRUCTURES	
2503.3	Concrete mix requirements.
2504.5	Tolerances for environmental barriers.
2504.7	Timber surfaces to be sawn.
2504.9	Fittings for environmental barriers.
2504.15(vi)	Stepping of panels.
2504.22(i)	Results of post tests.
MISCELLANEOUS	
2601.1(i)	Compressive strength of bedding mortar.
2601.1(ii)	Temperature range for placing bedding mortar.
2602.4	Nominal maximum size of aggregates for concrete.
2602.6, Table 26/1	Concrete mixes to be used.
2602.9	Requirements for surface finishes.

TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.

Note. Information that the Contractor may submit when seeking approval is not listed in this table.

PRELIMINARIES	
104.4, 104.4NI	Quality management scheme or product certification scheme - submit certificates of conformity.
104.6, 104.6NI	Suppliers Quality Plans.
104.8, 104.8NI	Quality records required by this Specification, as indicated in App. H.
104.9, 104.9NI	British Board of Agrément Certificates - submit certificates.
104.11	Traffic signs requiring statutory type approval - submit written evidence of approval.
104.13, 104.13NI	Type approval/registration - submit type approval/registration certificates.
104.16, 104.16NI 104.18, 104.18NI	Provision of information - submit information and certificates.
105.2	Sampling and testing - supply test results and test certificates.
105.6	Sampling and testing - supply and deliver samples for test.
106.2	Structures designed by the Contractor - submit Approval in Principle form.
106.3	Structures designed by the Contractor - supply copies of drawings and design certificates.
106.4	Structural elements and other features designed by the Contractor - submit proposals.
111.1	Existing ground levels - submit schedule of levels considered to be in error.
112.1, 112.1NI	Permanent ground markers and permanent bench marks - supply details.
113.1	Programme of Works - submit programme.
115.1	Accommodation works - give notice of start dates.
117.3, 117.3NI	Traffic safety and management - prepare and submit traffic management proposals within given timescale.
117.5, 117.5NI	Traffic safety and management - submit outline of central reserve crossovers proposed by the Contractor.
117.6, 117.6NI	Traffic safety and management - provide details agreed with the highway authority.
117.6, 117.6NI	Traffic safety and management - submit application for statutory orders or notices.
117.8, 117.8NI	Traffic safety and management - submit proposals for dealing with situations not provided for in the Contract.
117.11, 117.11NI	Traffic safety and management - give notice within given timescale, for signs to be moved.
117.19, 117.19NI	Traffic safety and management - provide details of the traffic safety and control officer and nominated deputies.
118.5	Temporary diversions for traffic proposed by the Contractor - submit application for statutory orders or notices.
118.7	Temporary diversions for traffic proposed by the Contractor - provide details agreed with the highway authority.
120.16	Recovery vehicles for breakdowns - submit weekly logs.
122.3	Progress photographs - deliver within 4 weeks of exposure.
SAFETY FENCES, SAFETY BARRIERS AND PEDESTRIAN GUARDRAILS	
402.5(v)	Destructive testing of welds - provide copies of reports for earlier contracts.
402.7(iii)	Wire rope terminals - provide evidence of tensile tests.
403.9	Anchorage in drilled holes - provide evidence of capability.
404.4(i)	Post foundation tests - submit test results.

TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.

Note. Information that the Contractor may submit when seeking approval is not listed in this table. (continued)

DRAINAGE AND SERVICE DUCTS	
501.3	Pipes for drainage - provide a schedule.
506.1	Connecting to existing drains - record positions and hand copy to Overseeing Organisation.
506.2	Connecting to existing drains - give notice to responsible authority.
509.5	Foul drains - supply recording of survey by video camera.
511.3	Land drains - give notice if blocked or defective.
514.12	Fin drains - supply consignment details.
515.8	Narrow filter drains - supply consignment details.
516.3	Combined drainage and kerb systems - provide evidence of suitability of application.
517.11	Linear drainage channel systems - provide evidence of fixity of grating systems.
517.17(iii)	Linear drainage channel systems - provide details of connection pipes and fittings.
517.17(iv)	Linear drainage channel systems - provide design calculations.
517.19	Linear drainage channel systems - provide evidence of suitability of materials.
517.20(v)	Linear drainage channel systems - supply details of quality control procedures.
517.20(vii)	Linear drainage channel systems - provide test certificates.
EARTHWORKS	
607.2(ii), 607.2(ii)NI	Blasting - give written notice of each blasting event.
609.2	Geotextiles - provide evidence of durability.
613.5	Capping - provide test records substantiating compliance with criteria.
629.2	Instrumentation - supply results of monitoring.
630.6	Vibrated stone columns - report if ground conditions differ from those expected.
637.3	In situ resistivity tests - give notice of date, time and location.
638.4	In situ redox potential tests - give notice of testing arrangements.
ROAD PAVEMENTS - BITUMINOUS BOUND MATERIALS	
910.1	Recipe mix - notification prior to use.
911.1	Design mix - notification prior to use.
917.7	Cold-milling extensive areas - programme to be notified in advance.
918.1	Slurry surfacing - provide design proposal and quality plan.
918.3	Mixture tests - appendix 7/7.
918.9	Slurry surfacing machine - provide test certificate.
918.25	Slurry surfacing - records of amount and area of slurry used.
918.29	Slurry surfacing - supply 'as built' manual within 30 days.
919.4, 922.6	Binder sprayer - provide test certificate prior to spraying.
919.5, 922.7	Chippings - provide test certificate before work commences.
919.6, 922.8	Chipping spreader - provide test certificates before use.

TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.

Note. Information that the Contractor may submit when seeking approval is not listed in this table. (continued)

ROAD PAVEMENTS - BITUMINOUS BOUND MATERIALS (continued)	
919.13, 922.15	Binder and chippings tests - report results within 24 hours.
919.19	Surface dressing recipe specification - provide 'as built' manual within 30 days.
922.20	Surface dressing performance specification - provide 'as built' manual within 30 days.
924.6	High friction surfacing - quantities, areas and coverage to be reported within 3 days.
926.14	Additional coarse and fine aggregate - amount to be notified.
927.3	Mixture tests - appendix 7/8.
927.4	Aggregates - provide test certificate before work commences.
927.9	Micro-surfacing machine - provide test certificate before work commences.
927.21	Micro-surfacing - rates of coverage.
927.26	Micro-surfacing - provide 'as built' manual within 30 days.
928.31	Complex stiffness and phase angle tests - provide report, graphs and data.
929.9	Design, compaction and compliance tests - provide copies of test sheets and results within 28 days.
929.20	Final nuclear density test - two copies of test results to be provided within 24 hours.
938.8	Porous asphalt - proposed modifiers and related information.
938.12, 14	Porous asphalt - duplicate samples.
942.8	Thin wearing course systems - details of aggregate, filler and bitumen proportions.
942.10	Thin wearing course systems - choice of bitumen grade, etc.
942.12	Thin wearing course systems - adjusted binder content.
942.13	Thin wearing course systems - choice of tack coat.
942.20	Thin wearing course systems - tack coat, rate of applications.
942.23	Thin wearing course systems - supply all details.
942.25	Thin wearing course systems - supply test certificates.
943.5	HRA wearing course - obtain approvals before tender.
943.7	Mixture design - submit details.
943.28	Additional sampling and testing - where specified results forwarded within two weeks.
943.30	Modified binders - details including weather conditions.
ROAD PAVEMENTS - CONCRETE AND CEMENT BOUND MATERIALS	
1028.1	Trial length - submit detailed proposals.
1044.2, 1044.6	Appendix 10/1.
TRAFFIC SIGNS	
1201.2, 1201.2WO	Non-prescribed temporary signs - obtain agreement.
1201.3, 1201.3WO	Changeable signs (other than mechanical) - statutory type approval.
1202.5	Fabrication of traffic signs - submit fabrication drawings, etc.
1212.17	Removal of permanent road markings.
1213.4, 1213.4NI	Reflecting road studs - submit details.
1214.19	Flat traffic delineators - submit test certificate.
1214.21	Temporary cones, cylinders, FTDs, etc. - submit test certification.

TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.

Note. Information that the Contractor may submit when seeking approval is not listed in this table. (continued)

ROAD LIGHTING COLUMNS AND BRACKETS	
1302.1	Lighting columns and brackets - submit design and check certificates.
1302.2	Lighting columns and luminaires - submit designs for aesthetic approval.
1302.3	Foundations for planted columns - submit designs for acceptance.
1303.1	Data sheets - provide triplicate copies for each type of column and bracket.
1305.10	Anchorage in drilled holes - provide evidence of capability.
1310 (7.1.5)	Destructive testing of welds - provide copies of reports for earlier contracts.
1314.10	Evidence of quality control of brackets for laminated GFRP lighting columns.
ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS	
1402.1	Electrical records - supply drawings, test certificates and manuals.
1402.3	Daily records - provide on next working day.
1402.4	As-built drawings for traffic signals - supply copies on completion.
1421.1	Evidence that each cable has been tested.
1422.2	Jointers competence - supply evidence.
1424.2	Network and lighting unit testing - supply test results
1424.5	Testing - give at least 7 days' notice.
1424.6	Inspection and Testing - supply certificate verifying compliance.
MOTORWAY COMMUNICATIONS	
1502.4	General requirements - demonstrate competency to undertake work.
1504.1	Supply records
1504.3	Supply daily records
1505.2	Cabinets and ancillary items - supply profile of bulk purchase requirements.
1506.3	Cables - provide quality inspection certificates and results of sheath integrity tests.
1506.6	Cable drums - provide record of drums collected.
1513.12	CJE - supply schedule of tests.
1516.4	Cable joints - submit jointer records.
1516.6	Disruption of power supply - give notice.
1518.4	Cable testing - supply test results.
1518.7	Cable testing - give notice of intentions to test cable.
1519.6	Labelling and numbering - supply proposals for cabinet labels.
1521.3	Removal and resiting of existing equipment - give notice of intention to remove redundant equipment.
1525.2	Change to existing motorway network - give notice.
1526.1	The inspection and testing of electrical installations - certificates.
1526.2	Non-compliance of existing cabinets - immediate notifications.
1526.3	Calibration of instruments - copies of tests and certificates.

TABLE NG 0/3: List of sub-Clauses which require the Contractor to submit information to the Overseeing Organisation.

Note. Information that the Contractor may submit when seeking approval is not listed in this table. (continued)

MOTORWAY COMMUNICATIONS <i>(continued)</i>	
1527.2	Cable installation at transmission stations - give notice.
1528.4	Modifications to existing cabinets - give notice.
1529.2	Need for temporary emergency telephones - give notice.
1529.5	Need for connections/disconnections - give notice.
1530.8	Duct strapping and spacers - supply proposals.
1533.4	Proving and testing of ducts - certificates.
STRUCTURAL CONCRETE	
1710.8(i)	Precast concrete construction - give notice of start date of manufacture.
WATERPROOFING FOR CONCRETE STRUCTURES	
2003.3	Proprietary waterproofing systems - supply triplicate copies of PWS data sheet and Annex 'A'.
PARAPETS	
2204(19.2.5)	Destructive testing of welds - make available reports from earlier contracts.
SPECIAL STRUCTURES	
2504.15	Design - submit design for aesthetic approval - submit design calculations - submit details of materials and components - submit details of gates - submit details of fixings

Preamble to the Specification

1 The Specification referred to in the Tender shall be the 'Specification for Highway Works', published by The Stationery Office (formerly HMSO) as Volume 1 of the Manual of Contract Documents for Highway Works, as modified and extended by the following:

- (i) Appendix 0/1: Contract-specific Additional, Substitute and Cancelled Clauses, Tables and Figures;
- (ii) Appendix 0/2: Contract-specific minor alterations to existing Clauses, Tables and Figures;
- (iii) The Numbered Appendices listed in Appendix 0/3;
- (iv) Appendix 0/5: Special national alterations of the Overseeing Organisation of Scotland, Wales or Northern Ireland.

Appendix 0/4 contains a list of the Drawings.

2 The relevant publication date of each page of the Specification for Highway Works is given in the Schedule of Pages and Relevant Publication Dates.

3 An Additional Clause as indicated by a suffix 'A' in Appendix 0/5 is an alteration originating from the Overseeing Organisation of Scotland, Wales or Northern Ireland. An Additional Clause as indicated by a suffix 'AR' in Appendix 0/1 is a Contract-specific alteration.

4 A Substitute Clause, as indicated by the suffix 'S' in Appendix 0/5 is an alteration originating from the Overseeing Organisation of Scotland, Wales or Northern Ireland. A Substitute Clause as indicated by a suffix 'SR' in Appendix 0/1 is a Contract-specific alteration.

5 A Cancelled Clause as indicated by a suffix 'C' in Appendix 0/5 is an alteration originating from the Overseeing Organisation of Scotland, Wales or Northern Ireland. A Cancelled Clause indicated by a suffix 'CR' in Appendix 0/1 is a Contract-specific alteration.

6 Insofar as any of the Numbered Appendices may conflict or be inconsistent with any provision of the Specification for Highway Works the Numbered Appendices shall always prevail. Additionally, Numbered Appendices 0/1 and 0/2 shall take precedence over Numbered Appendix 0/5.

7 Any reference in the Contract to a Clause number or Appendix shall be deemed to refer to the corresponding Substitute Clause number or Appendix listed in Appendix 0/1, 0/2 or 0/5.

8 Where a Clause is altered any original Table/Figure referred to in the Clause shall apply unless the Table/Figure is also altered. Where a Table/Figure is altered

any reference in a Clause to the original Table/Figure shall apply to the altered Table/Figure.

9 Where a Clause in the Specification relates to work goods or materials which are not required for the Works it shall be deemed not to apply.

10 Any Appendix referred to in the Specification which is not used shall be deemed not to apply.

11 Where a Clause in the Specification is prefixed by an # this indicates that this particular Clause has a substitute National Alteration for one or more of the Overseeing Organisations of Scotland, Wales or Northern Ireland. Substitute or additional National Clauses shall be used within countries to which they specifically apply and they are deemed to replace corresponding Clauses in the main text of the Specification as appropriate. The substitute National Clauses are located at the end of the relevant Series together with the additional National Clauses of the Overseeing Organisations.

12 Other than where references to the Overseeing Organisation are made in the context of the Overseeing Organisation granting statutory or type approvals, the roles and functions of the Overseeing Organisation shall be undertaken by†.

Where the Specification requires the provision of documentation to the Overseeing Organisation for statutory or type approval such documentation shall be provided to†.

13 If the Specification is used in conjunction with a Contract under which the Contractor is responsible for the design of any part of the Permanent Works, the delegation of the roles and functions of the Overseeing Organisation as stated in paragraph 12 above shall be amended as follows:

- (i) If any agreement, consent or approval required to be obtained from the Overseeing Organisation impacts on the health and safety of the general public, the environment or any property or equipment not owned or operated by the Contractor or the Design Build Finance and Operate concessionaire, such agreement, consent, approval shall be obtained from *
- (ii) Where the Specification provides for the Overseeing Organisation to require a test, waive the requirement for a test or alter testing frequency, the party to whom the Overseeing Organisation's roles and functions have been ascribed by paragraph 12 above shall exercise such decisions in accordance with the

Secretary of State's requirements stated in the Contract.**

† Engineer: Project Manager: Designer etc as drawn from the Conditions of Contract.

* Employer's Agent: Employer's Representative: Department's Agent etc as drawn from the Conditions of Contract.

** Construction Requirements/Employer's Requirements.

[Note to compiler: Where applicable the Preamble to the Specification and the Schedule of Pages and Relevant Publication Dates should be reproduced unaltered and bound in the Specification with the Numbered Appendices. A revised Schedule of Pages and Relevant Publication Dates will be included in each published national alteration to the Specification for Highway Works.]

[Note to compiler: Alterations relating to Bills of Quantities for Highway Works are included in a corresponding amendment to Volume 4 of the Manual of Contract Documents for Highway Works.]

SUPERSEDED

Specification for Highway Works
Schedule of Pages and Relevant Publication Dates

Series/Appendix	Page Number	Publication Date
000	1 to 3F	March 1998
100	1 to 13F, W1F, N1 to N5F	March 1998
200	1 to 3F	March 1998
300	1 to 4F	March 1998
400	1 to 3	March 1998
	4	Amendment - July 1998
	5 to 10	March 1998
	11	Amendment - July 1998
	12F	March 1998
500	1 to 20F, N1 to N3F	March 1998
600	1 to 29	March 1998
	30	Amendment - August 1998
	31 to 57F, S1F, N1 to N3F	March 1998
700	1 to 9F, N1 to N7F	March 1998
800	1 to 5F, S1F, N1 to N2F	March 1998
900	1 to 48	March 1998
	49 to 51F	Amendment - June 1998
1000	1 to 38F	March 1998
1100	1 to 4F, N1 to N2F	March 1998
1200	1 to 15F, W1F, N1 to N3F	March 1998
1300	1 to 9F, N1F	March 1998
1400	1 to 8F, N1F	March 1998
1500	1 to 16F	March 1998
1600	1 to 49F	March 1998
1700	1 to 23F	March 1998
1800	1 to 8F	March 1998
1900	1 to 15F, S1F	March 1998
2000	1 to 4F	March 1998
2100	1 to 4F	March 1998
2200	1 to 6F	March 1998
2300	1 to 3F	March 1998
2400	1 to 4F	March 1998
2500	1 to 9F	March 1998
2600	1 to 7F	March 1998
Appendix A	1 to 8F	March 1998
Appendix B	1 to 5F	March 1998
Appendix C	1 to 2F	March 1998
Appendix D	1F	March 1998
Appendix D (NI)	1F	March 1998

Specification for Highway Works
Schedule of Pages and Relevant Publication Dates

Series/Appendix	Page Number	Publication Date
Appendix E	1F	March 1998
Appendix E (NI)	1F	March 1998
Appendix F	1 to 39F	March 1998
Appendix G	1F	March 1998

SUPERSEDED

NG SAMPLE APPENDIX 0/1: CONTRACT-SPECIFIC ADDITIONAL, SUBSTITUTE AND CANCELLED CLAUSES, TABLES AND FIGURES INCLUDED IN THE CONTRACT

[Note to compiler: See NG 000 regarding approval of contents of Appendix 0/1]

List of Additional Clauses, Tables and Figures

Clause No. (etc.)	Title	Written on Page No. following
<i>[Note to compiler: List here Contract-specific Additional Clauses, Tables and Figures suffixed by the letters AR and preferably commencing with the 70th Clause, etc. of the respective Series]</i>		

List of Substitute Clauses, Tables and Figures

Clause No. (etc.)	Title	Written on Page No. following
<i>[Note to compiler: List here Contract-specific Substitute Clauses, Tables and Figures suffixed by the letters SR]</i>		

List of Cancelled Clauses, Tables and Figures

Clause No. (etc.)	Title	
<i>[Note to compiler: List here Contract-specific Cancelled Clauses, Tables and Figures suffixed by the letters CR]</i>		

Additional Clauses, Tables and Figures

Clause No. (etc.)	Title and written text	
<i>[Note to compiler: Write here the Additional Clause etc. listed above]</i>		

Substitute Clauses, Tables and Figures

Clause No. (etc.)	Title and rewritten text	
<i>[Note to compiler: Rewrite here the Substitute Clause etc. listed above]</i>		

NG SAMPLE APPENDIX 0/2: CONTRACT-SPECIFIC MINOR ALTERATIONS TO EXISTING CLAUSES, TABLES AND FIGURES INCLUDED IN THE CONTRACT

[Note to compiler: See NG 000 regarding approval of contents of Appendix 0/2]

Clause No. (etc.)	Alterations to be made	
<i>[Note to compiler: Write here the minor alteration using 'delete and insert' or 'add at end of Clause' techniques]</i>		

NG SAMPLE APPENDIX 0/3: LIST OF NUMBERED APPENDICES REFERRED TO IN THE SPECIFICATION AND INCLUDED IN THE CONTRACT

[Note to compiler: Include the following explanatory statements relating to List A and List B]

Appendix 0/3 is comprised of two lists, A and B, of Numbered Appendices as follows:

List ‘A’ is a complete list of the Numbered Appendices referred to in the Specification for Highway Works with those not adopted marked ‘Not Used’. Those identified by the letters T or C shall be completed by the Tenderer or Contractor respectively.

[Note to compiler: Reproduce here the following sample List A deleting the word ‘Sample’ and adding Volume No. where each is located within the documents and stating those Numbered Appendices not used. Omit the symbols relating to the type of Numbered Appendices except those Appendices that the Tenderer and/or Contractor completes; ensure the ‘Instructions for Tendering’ correspond.]

Guide to types of Numbered Appendices - who compiles/completes

[Note to compiler: The symbols on Sample List A indicate the different types of Numbered Appendices to be included in the Contract documents. Those marked ‘T’ are not directly used by the Tenderer/Contractor but where the work to which they relate is included in the Contract these Appendices should be reproduced in the documents.]

Symbol

- (Co) Compiler compiles: Identified in the Notes for Guidance examples by the term ‘Sample’ included in their title
- (Co/C) Compiler partially compiles and Contractor completes and returns to Overseeing Organisation
- (Co/T) Compiler partially compiles and Tenderer completes and returns with Tender
- (C) Contractor completes and returns to Overseeing Organisation
- (I) For Contractor’s information only
- (P) This indicates the Appendix is a national proforma and format must not be altered

List ‘B’ gives the list of Contract-specific Numbered Appendices devised for the Contract.

[Note to compiler: Preferably commence the numbering of these Contract-specific Numbered Appendices at the 70th Appendix of the respective Series (eg. 1/70) to avoid conflict with future national Additional Numbered Appendices.]

Volume No.	Appendix No.	Appendix Title

Sample List 'A': List of Numbered Appendices Referred to in the Specification for Highway Works

Volume No.	Completed by	Appx No.	Title
			INTRODUCTION
		(0/1	Contract-specific Additional, Substitute and Cancelled Clauses, Tables and Figures Included in the Contract
		(0/2	Contract-specific Minor Alterations to Existing Clauses, Tables and Figures Included in the Contract
		(0/3	List of Numbered Appendices Referred to in the Specification and Included in the Contract
	(Co)	(0/4	List of Drawings Included in the Contract
		(0/5	Special National Alterations of the Overseeing Organisation of Scotland/Wales/Northern Ireland
			PRELIMINARIES
		(1/1#	Temporary Accommodation and Equipment for the Overseeing Organisation
		(1/2	Vehicles for the Overseeing Organisation
		(1/3	Communication System for the Overseeing Organisation
		(1/4	Working and Fabrication Drawings
		(1/5	Testing to be Carried out by the Contractor
		(1/6	Supply and Delivery of Samples to the Overseeing Organisation
		(1/7	Site Extent and Limitations on Use
		(1/8	Operatives for the Overseeing Organisation
		(1/9	Control of Noise and Vibration
		(1/10	Structures to be Designed by the Contractor
		(1/11	Structural Elements and Other Features to be Designed by the Contractor
		(1/12	Setting Out and Existing Ground Levels
		(1/13#	Programme of Works
		(1/14	Payment Applications
	(Co)	(1/15	Accommodation Works
		(1/16	Privately & Publicly Owned Services & Supplies
		(1/17	Traffic Safety & Management
		(1/18	Temporary Diversions for Traffic
		(1/19	Routeing of Vehicles
		(1/20#	Recovery Vehicles for Breakdowns
		(1/21	Information Boards
		(1/22	Progress Photographs
		(1/23	Risks to Health and Safety from Materials or Substances
		(1/24	Quality Management System
			SITE CLEARANCE
		(2/1	List of Buildings, etc. to be Demolished
		(2/2	Filling of Trenches & Pipes
	(Co)	(2/3	Retention of Material Arising from Site Clearance
		(2/4	Explosives & Blasting
		(2/5	Hazardous Materials
			FENCING AND ENVIRONMENTAL BARRIERS
	(Co)	3/1	Fencing, Gates and Stiles
			SAFETY FENCES, SAFETY BARRIERS AND PEDESTRIAN GUARDRAILS
		(4/1	Safety Fences and Safety Barriers
	(Co)	(4/2	Pedestrian Guardrails
			DRAINAGE AND SERVICE DUCTS
		(5/1	Drainage Requirements
		(5/2	Service Duct Requirements
	(Co)	(5/3	Surface Water Channels and Drainage Channel Blocks
		(5/4	Fin Drains and Narrow Filter Drains
		(5/5	Combined Drainage and Kerb Systems
		(5/6	Linear Drainage Channel Systems

Sample List 'A': List of Numbered Appendices Referred to in the Specification for Highway Works [Continued]

Volume No.	Completed by	Appx No.	Title
			EARTHWORKS
	(	6/1	Requirements for Acceptability & Testing etc. of Earthworks Materials
	(	6/2	Requirements for Dealing with Class U2 Unacceptable Material
	(	6/3	Requirements for Excavation, Deposition, Compaction (Other than Dynamic Compaction)
	(	6/4	Requirements for Class 3 Material
	(	6/5	Geotextiles Used to Separate Earthworks Materials
	(Co)	6/6	Fill to Structures & Fill Above Structural Foundations
	(	6/7	Sub-formation & Capping & Preparation & Surface Treatment of Formation
	(	6/8	Topsoiling, Grass Seeding and Turfing
	(	6/9	Earthwork Environmental Bunds, Landscape Areas, Strengthened Embankments
	(	6/10	Ground Anchorages, Crib Walling and Gabions
	(	6/11	Swallow Holes & Other Naturally Occurring Cavities & Disused Mine Workings
	(	6/12	Instrumentation & Monitoring
	(	6/13	Ground Improvement
			ROAD PAVEMENTS - GENERAL
	(	7/1	Permitted Pavement Options Sheets 1, 2 & 3
	(	7/2	Excavation & Reinstatement of Existing Surfaces
	(T)	7/3	Surface Dressing Sheets 1 & 2
	(Co)	7/4	Bituminous Sprays
	(	7/5	In Situ Recycling: The Remix and Repave Processes
	(	7/6	Breaking Up or Perforation of Existing Pavement
	(T)	7/7	Slurry Surfacing Sheets 1 & 2
	(T)	7/8	Microsurfacing Sheets 1 & 2
			ROAD PAVEMENTS - CONCRETE AND CEMENT BOUND MATERIALS
	(T)	10/1	Plant and Equipment for the Construction of Exposed Aggregate Concrete Surface
			KERBS, FOOTWAYS AND PAVED AREAS
	(Co)	11/1	Kerbs, Footways & Paved Areas
			TRAFFIC SIGNS
	(	12/1#	Traffic Signs: General
	(	12/2	Traffic Signs: Marker Posts
	(Co)	12/3	Traffic Signs: Road Markings & Studs
	(	12/4	Traffic Signs: Cones, Cylinders, FTD's & Other Traffic Delineators
	(	12/5	Traffic Signs: Traffic Signals
	(	12/6	Traffic Signs: Special Sign Requirements on Gantries
			ROAD LIGHTING COLUMNS AND BRACKETS
	(Co)	13/1	Information to be Provided When Specifying Lighting Columns & Brackets
	(C)(P)	13/2	Column & Bracket Data Sheets 1 & 2
	(P)	13/3	Instructions for Completion of Column & Bracket Data Sheet
			ELECTRICAL WORK FOR ROAD LIGHTING AND TRAFFIC SIGNS
	(	14/1	Site Records
	(Co)	14/2	Location of Lighting Units & Feeder Pillars
	(	14/3	Temporary Lighting
	(Co/C)	14/4	Electrical Equipment for Road Lighting
	(Co)	14/5	Electrical Equipment for Traffic Signs
			MOTORWAY COMMUNICATIONS
	(Co)	15/1	Motorway Communications
	(Co)	15/2	Cable Duct Requirements

Sample List 'A': List of Numbered Appendices Referred to in the Specification for Highway Works [Continued]

Volume No.	Completed by	Appx No.	Title
			PILING AND EMBEDDED RETAINING WALLS
	(	16/1	General Requirements for Piling and Embedded Retaining Walls
	(	16/2	Precast Reinforced and Prestressed Concrete Piles and Precast Reinforced Concrete Segmental Piles
	(	16/3	Bored Cast-in Place Piles
	(	16/4	Bored Piles Constructed using Continuous Flight Augers and Concrete or Grout Injection through Hollow Auger Stems
	(	16/5	Driven Cast-in-Place Piles
	(	16/6	Steel Bearing Piles
	(	16/7	Reduction of Friction on Piles
	(	16/8	Non-Destructive Methods for Testing Piles
	(	16/9	Static Load Testing of Piles
	(	16/10	Diaphragm Walls
	(	16/11	Hard/Hard Secant Pile Walls
	(	16/12	Hard/Soft Secant Pile Walls
	(	16/13	Contiguous Bored Pile Walls
	(Co)	16/14	King Post Walls
	(	16/15	Steel Sheet Piles
	(	16/16	Integrity Testing of Wall Elements
	(	16/17	Instrumentation for Piles and Embedded Walls
	(	16/18	Support Fluid
			STRUCTURAL CONCRETE
	(	17/1	Concrete - Classification of Mixes
	(Co)	17/2	Concrete - Impregnation Schedule
	(	17/3	Concrete - Surface Finishes
	(	17/4	Concrete - General
			STRUCTURAL STEELWORK
	(Co)	18/1	Requirements for Structural Steelwork
			PROTECTION OF STEELWORK AGAINST CORROSION
	(	19/1	Requirements for Bridges, Parapets and other Highway Structures except Bearings and Lighting Columns
	(Co)	19/2	Requirements for Bearings
	(	19/3	Requirements for Lighting Columns and Bracket Arms
	(	19/3**	(Alternative): Requirements for Lighting Columns and Bracket Arms
	(	19/3**	(Alternative): G2b System for Flange Mounted Columns with a Plinth Built Over the Flange
	(	19/4	Requirements for Other Work
	(	19/5	Form BE/P2 (New Works) Paint System Sheet
	(P)	19/6#	Form BE/P3 Paint Sample Despatch List (no ref. in SHW - see NG 1910)
	(I)(P)	19/7#	Form BE/P4 Paint Sample Analysis Report (no ref. in SHW - see NG 1910)
	(C)(P)	19/8	Form BE/P5 Paint Data Sheet
	(Co)	19/9	General Requirements
			WATERPROOFING FOR STRUCTURES
	(C)(P)	20/1	Form PWS Proprietary Waterproofing System Data Sheet & Annex 'A'
	(Co)	20/2	Waterproofing for Concrete Structures
			BRIDGE BEARINGS
	(Co)	21/1	Bridge Bearing Schedule
			PARAPETS
	(Co)	22/1	Parapet Schedule

Sample List 'A': List of Numbered Appendices Referred to in the Specification for Highway Works [Continued]

Volume No.	Completed by	Appx No.	Title
	(Co)	23/1	BRIDGE EXPANSION JOINTS AND SEALING OF GAPS Bridge Deck Expansion Joint Schedule
	(Co)	23/2	Sealing of Gaps Schedule
	(Co)	24/1	BRICKWORK, BLOCKWORK AND STONEMWORK Brickwork, Blockwork and Stonework
	(Co)	(25/1	SPECIAL STRUCTURES Requirements for Corrugated Steel Buried Structures
	(Co)	(25/2	Requirements for Reinforced Soil and Anchored Earth Structures
	(Co)	(25/3	Requirements for Pocket Type Reinforced Brickwork Retaining Wall Structures
	(Co)	(25/4	Environmental Barriers
	(Co)	(26/1	MISCELLANEOUS Ancillary Concrete
	(Co)	(26/2	Bedding Mortar
	(Co)	(26/3	Cored Thermoplastic Node Markers

[Notes to compiler:

****** *These Appendices relate to alternatives in the Sample Appendices where the choice is to be made by the Contractor and all appropriate alternatives should be listed in List A.*

*These Appendices relate to alternatives in the Sample Appendices to be used in contracts administered by the Overseeing Organisation of Scotland, Wales or Northern Ireland.]*

NG SAMPLE APPENDIX 0/4: LIST OF DRAWINGS INCLUDED IN THE CONTRACT

1 Contract-specific Drawings Supplied to Each Tenderer

Drawing No.	Title
<i>[Note to compiler: List here all drawings especially drafted for the Contract. Also include re-numbered HCD which have Contract-specific amendments. See Notes to compiler on HCD below.]</i>	

2 Standard Drawings

2(i) Supplied to Each Tenderer

Drawing No.	Title	Volume No.
<i>[Note to compiler: List here any Standard Drawings being supplied to each tenderer unless they have been re-numbered and included in 1 above or are included in 2(ii) below for inspection by tenderers. Compiler can obtain copies of Standard Drawings from the Overseeing Organisation.]</i>		

2(ii) Inspected by Tenderers

The following drawings are made available for inspection by tenderers at:

.....

between the following dates

and at the following times

One copy will be supplied to the Contractor.

Drawing No.	Title	Aspect required if not whole Drawing
<i>[Note to compiler: List here all the drawings from the Overseeing Organisation's Drawings for Communications Cabling, its associated apparatus including Motorwarn fog warning systems, etc. applicable to the work required in the Contract unless listed in 2(i) above. The Department of Transport's MCX series drawings for motorway installation work are contained in document TRH 1239.]</i>		

2(iii) Brought Into the Contract by Reference

HCD published by The Stationery Office (formerly HMSO) as Volume 3 of the Manual of Contract Documents for Highway Works contains the following drawings brought into the Contract by reference. Unless otherwise stated below the whole drawing is brought into the Contract.

Drawing No.	Title	Date	Aspect/Alternative(s) Required if Not Whole Drawing
<i>[Notes to compiler regarding HCD:</i>			
1	<i>The drawings in the HCD are intended to be used directly in the Contract without reproducing them in the documents and without supplying them to the Contractor. The individual drawings to be included in the Contract are to be listed in 2(iii) by stating the drawing number (with amendment reference ie. A, B etc.), date, and aspect or permitted alternative(s) where the whole drawing is not required.</i>		
2	<i>Many drawings in the HCD contain more than one detail covering the same subject. Where alternatives are shown it is essential that the particular requirements or permitted alternatives are identified. These are to be stated in 2(iii).</i>		
3	<i>The intention is that the drawings in the HCD should be used without amendment but if this becomes essential, approval from the Overseeing Organisation will be necessary. A copy of the amended HCD is then to be incorporated in the documents and listed in Appendix 0/4 with a unique drawing number and new date inserted in the date panel.]</i>		

NG SAMPLE APPENDIX 0/5: SPECIAL NATIONAL ALTERATIONS OF THE OVERSEEING ORGANISATION OF SCOTLAND/WALES/NORTHERN IRELAND *[delete as appropriate]*

The following Additions, Substitutions, Cancellations and minor alterations shall be made:

[Notes to compiler:

- 1 Include here any Special National Alterations of the Overseeing Organisation of Scotland, Wales or Northern Ireland using the 'A' suffix for Additional Clauses, 'S' suffix for Substitute Clauses and 'C' suffix to denote Cancelled Clauses, on the same basis as Appendix 0/1. Minor alterations should be on the same basis as Appendix 0/2.*
- 2 Any Additional Clauses, etc. to be included in Appendix 0/5 should commence with the 50th number of the Series, or be numbered sequentially with the National Alteration Clauses contained in the SHW.]*

SUPERSEDED