
INTRODUCTION TS 3.10.00

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GENERIC TECHNICAL SPECIFICATION

FOR CIVIL, STRUCTURAL AND BUILDING ENGINEERING

SECTION NO : 00

TITLE : INTRODUCTION

MAIN INDEX

The purpose of this index is to record the current status of all the component parts of this generic technical specification.

Section	Title	Issue No.	Date of issue
TS 3.10.00	Introduction	2	May 2017
TS 3.10.01	General	2	May 2017
TS 3.10.02	Materials	2	May 2017
TS 3.10.03	Excavation, Backfilling and Restoration	2	May 2017
TS 3.10.04	Concreting and Formwork	2	May 2017
TS 3.10.05	Construction of Pipelines and Ancillary Works	2	May 2017
TS 3.10.06	Building Works	2	May 2017
TS 3.10.07	Testing and Disinfection	2	May 2017
TS 3.10.08	Roadworks	2	May 2017
TS 3.10.09	Sewer Renovation		#Note
TS 3.10.10	Water Mains Renovation		#Note
TS 3.10.11	Tunnelling and Shaft Sinking Works		#Note
TS 3.10.12	Structural Steelwork and Aluminium	2	May 2017
TS 3.10.13	Minor Electrical Works	2	May 2017
TS 3.10.14	Maintenance Painting Of Substation Plant, Equipment And Structures	2	May 2017
TS 3.10.15	Mechanical And Electrical Equipment	1	May 2017

#NOTE

Sections TS 3.10.09, TS 3.10.10 and TS 3.10.11 have not been drafted but have been included in the main index in order that the numbering system remains consistent with the “*Civil Engineering Specification for the Water Industry*” (CESWI7 Specification).

GENERIC TECHNICAL SPECIFICATION FOR CIVIL, STRUCTURAL AND BUILDING ENGINEERING

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0.1 PURPOSE AND SCOPE

- 0.1.1 This Technical Specification (TS 3.10.00) is the first of a suite of documents which together form a 'Generic Technical Specification for Civil, Structural and Building Engineering' applicable to all National Grid Electricity construction works. The documents share the same numerical prefix (i.e. 3.10) and are subdivided into specific sections by the addition of a sequentially numbered suffix to create a series generically identified as 3.10.xx.
- 0.1.2 The basis of this specification is the Civil Engineering Specification for the Water Industry, 7th Edition, March 2011 published by UK Water Industry Research Ltd (hereinafter referred to as 'CESWI7').
- 0.1.3 CESWI7 is written on the basis that it may be used in conjunction with additional, contract specific 'Supplementary Clauses'. Consequently and for the purposes of consistency the TS 3.10.xx suite shall be classified as 'Supplementary Clauses' to CESWI7.
- 0.1.4 Where a proposed Civil, Structural and Building Engineering material, product or method of construction is not included in TS 3.10.xx, additional 'Particular Specification' Clause(s) shall be produced as necessary. A 'Particular Specification' shall be in accordance with European Standards, British Standards and Codes of Practice and developed in accordance with the procedure given in CESWI7, 'Product Specifications and Levels of Attestation'. The 'Particular Specification' shall be in the same format as TS 3.10.xx and shall include the appropriate '**Hold**' points and '**Notification**' points. A 'Particular Specification' shall not be used until approved by the *Client*.
- 0.1.5 Any deficiency, ambiguity or inconsistency in the TS 3.10.xx suite or any cross references to third party documents that have become obsolete, deleted, superseded or amended shall be immediately identified to the *Client*. An appropriate 'Particular Specification' shall be produced.
- 0.1.6 In so far as any Specification Clause may conflict, or be inconsistent with, any provision of CESWI7, Supplementary Clauses (TS 3.10.xx) and Particular Specification(s), the order of prevail shall be:

Order of prevail	Specification Type
First	The Particular Specification(s)
Second	TS 3.10.xx or other National Grid Technical Specification as appropriate
Third	CESWI7

- 0.1.7 Dependent on the contract procurement strategy this specification (TS 3.10.xx) may be used as a standalone document or as a component part of a larger suite of contract documents. In the latter case(s) and where there is any conflict the contractual or procedural requirements that relate to the project as a whole shall take precedence over those contained herein. Where there is any ambiguity clarification shall be sought from the Client before commencement of any relevant works.

0.2 BACKGROUND

0.2.1 CESWI7 has been adopted as the base document for a number of reasons:

- It has been developed specifically for, and is used extensively by, UK Construction Industry client organisations, most commonly the Water Industry.
- The scale and scope of Civil Engineering works within the Water Industry is similar to that carried out by National Grid.
- The format and content are familiar to the majority of organisations within the UK Construction Industry.
- The document has effective provenance and governance having been first published in 1978 and updated regularly at approximately 5 yearly intervals thereafter.
- It is extensive and concise in its use of referenced standards.
- It is readily modifiable via the provision of Supplementary Clauses which is the usual way in which it is used.
- The format is such that it is independent of any particular contract strategy, method of valuation or procedural regime.

0.2.2 Reference should be made to CESWI7, 'Introductory Notes' for further explanation of the underlying principles of that document.

0.3 SPECIFICATION STRUCTURE

0.3.1 CESWI7 is divided into numbered Sections, Clauses and Sub-Clauses described as follows:

- Sections** Major divisions of general activity, e.g. Section 3, Excavation, backfilling and restoration
- Clause** Individual activities specific to that Section, e.g. Clause 3.15, 'Piling'
- Sub-Clauses** One or more single subject requirements appropriate to the particular Clause, e.g. 3.15.1 The specification for piling shall be the 'Specification for Piling and Embedded Retaining Walls', published by the Institution of Civil Engineers in 2007, 2nd edition.

0.3.2 Notes for Guidance are included in the left hand margin adjacent to the relevant sub-clause. As indicated in CESWI7 these do not form part of the specification.

0.3.3 The TS 3.10.xx suite of documents comprises Supplementary Clauses and Sub-Clauses which shall be read in conjunction with CESWI7 and which are numbered according to the following convention:

a) Additional Sub-Clauses

Additional requirements which relate to an existing Clause but which are not covered by an existing sub-clause are numbered as additional sub-clauses taking the next available number of that Clause. For example, an additional requirement relating to the Welding of Reinforcement (Clause 4.18) would be numbered 4.18.2.

b) Replacement Sub-Clauses

Where an existing sub-clause requires modification (for example because a cross referenced document has been revised) the Sub-Clause number is retained and the text modified accordingly.

c) New Clauses

Where one or more additional requirements can be categorised within an existing Section but there is no appropriate Clause heading, the next available Clause number is adopted with new sub-clauses sequentially numbered relative to this as necessary. For example CESWI7 has no Clause for General Testing however Section 7 relates to 'Testing and Disinfection' and within this Section the next available clause number is 7.20. Consequently a new Clause 7.20, 'Testing – General' is created with sub clauses 7.20.1 etc as necessary.

d) New Sections

Where one or more additional requirements cannot be categorised within an existing Section, a new Section taking the next available Section number is created with the appropriate Clauses and Sub-Clauses annotated according to the convention described in the preceding sections. Consequently a new Section 12, 'Structural Steelwork and Aluminium' has been created with Clauses and Sub-Clauses to suit.

0.3.4 The suffix numbering (i.e. xx) of the TS 3.10.xx suite follows the CESWI7 Section numbers as far as is applicable. For example Section 4 of CESWI7 has the title 'Concreting and formwork' as does TS 3.10.04.

0.3.5 Where certain Sections of CESWI7 do not form part of this Generic Specification, they are not used and consequently there are corresponding gaps in the 3.10.xx document numbers. New Sections are numbered as described above.

0.3.6 The Appendices included in CESWI7 correlate with those in the TS 3.10.xx suite as follows:

Appendix	CESWI7	TS 3.10.xx
I	No change	Appendix is for information; no modifications hence not included in TS 3.10.00

II	To be read with TS 3.10.00 Appendix II and VIII	Additional references to those in CESWI7 Appendix II
III	To be read with TS 3.10.00 Appendix III	Additional references to those in CESWI7 Appendix III
IV	No change	Not used as no additional references to those in CESWI7 Appendix IV
V	To be read with TS 3.10.00 Appendix V	Additional references to those in CESWI7 Appendix V
VI	To be read with TS 3.10.00 Appendix VI	Additional references to those in CESWI7 Appendix VI
VII	Not present in CESWI7	Provides sole reference to clauses requiring information to be provided in the Contract
VIII	Not present in CESWI7	Appendix removed since CESWI7 has been brought up to date in 2011
IX	Not present in CESWI7	Included in TS 3.10.00, updated to align with CESWI7
X	Not present in CESWI7	Included in TS 3.10.00, updated to align with CESWI7

The remaining Appendices are unique to the TS 3.10.xx suite.

0.4 HOLD AND NOTIFICATION POINTS

0.4.1 The National Grid Supplementary Specification (TS 3.10.xx) and, if appropriate, Particular Specification(s) make reference to **Hold Points** and **Notification Points**. These terms are defined as follows:

Hold Point A stage in the material procurement or workmanship process beyond which work shall not proceed without the documented approval of designated individuals or organisations.

The *Contract Administrator*'s written approval is required to authorise work to proceed beyond **Hold Points** noted in the Specification.

Notification Point A stage in the material procurement or workmanship process for which advance notice of the activity is required to facilitate witness.

If the *Contract Administrator* does not attend after receiving documented notification in accordance with the periods stated in Appendix IX work may proceed.

Where the *Contractor* is required to make submissions and the *Contract Administrator* approves the submission, such approval shall not relieve the *Contractor* of his responsibility for complying with other aspects of the Specification unless specifically stated by the *Contract Administrator*.

0.4.2 **Hold Points** and **Notification Points** shall be incorporated into the Site Quality Plan and shall form the basis of any audit.

0.4.3 A summary of all **Hold Points** and **Notification Points** are contained in Appendix IX. The timescales may be reduced provided this is by documented, advance agreement with the relevant *Contract Administrator* sub-division (see below) to which they apply.

0.5 CONTRACT ADMINISTRATOR

- 0.5.1 CESWI7 has been re-worded to remove specific reference to the Contract Administrator. The foreword to CESWI7 explains that this change was made in order to make the seventh edition more flexible with respect to the many alliancing, joint ventures, and other contracting entities.
- 0.5.2 The TS 3.10.xx series of supplementary clauses retains the use of the Contract Administrator role for National Grid projects. The role is extended to include specific reference in relation to the management of 'Hold Points' and 'Notification Points'.
- 0.5.3 The 'Contract Administrator' has responsibilities that are enacted within different project phases and therefore require skill sets and authorities which are not necessarily the same for each decision. Consequently for the purposes of the TS 3.10.xx suite, the role of 'Contract Administrator' is sub-divided as described below:

CONTRACT ADMINISTRATOR Sub-division	DESCRIPTION	EXAMPLES
<i>Client</i>	National Grid or that person, firm or company nominated to discharge the relevant responsibility on their behalf.	Client as defined by CDM 2007
<i>Supervisor</i>	The person, firm or company named in the contract as appointed by the <i>Client</i> to supervise, inspect, witness and where necessary give consent to all construction works on site on behalf of the <i>Client</i> .	Resident Engineer, Clerk of the Works, Site Engineer, Quality Engineer
<i>Contractor</i>	The person, firm or company named in the contract as appointed by the <i>Client</i> to manage and supervise all construction works on site.	Principal Contractor as defined by CDM 2007, Site Manager, Site Agent, Civil Engineering Manager
<i>Designer</i>	The person, firm or company named in the contract with the authorised responsibility to manage, supervise all design activities leading to the production of the approved drawings, schedules etc issued for construction purposes.	TP188A Design Verification Engineer, Lead Design Engineer, Design Office Manager

The Contractor shall confirm or provide in as necessary and in writing the names of the nominated individuals on a project by project basis. Where there is any uncertainty or ambiguity over any of these sub-divisions, immediate clarification shall be sought from the *Client*. In certain circumstances it may be appropriate for a separate enabling document to be issued as part of a contract to identify the individual responsibilities. In this case the Form TS 3.10.00 Form 1 shall be used for this purpose.

- 0.5.4 Sub-clauses requiring input from the 'Contract Administrator' are summarised in the Appendices. It should be noted that the role sub-divisions (e.g. *Contract Administrator - Client*, *Contract Administrator - Supervisor*, etc) are not identified in the relevant sub-clauses, since the former CESWI6 employed the term 'Contract Administrator' only.
- 0.5.5 The following form TS 3.10.00 Form 01 shall be completed at the beginning of the project and updated every six months or when there is a change.

TS 3.10.00 Form 01 Contract Administrator Duty Holders

Investment No	
Investment Title	
Site/Route Name	

The following individuals shall enact the specified Contract Administrator roles as required by the TS 3.10.nn suite of Technical Specifications;

Contract Administrator Sub-division	Role enacted by;			
	Name	Organisation	Signature	Date
Client				
Contractor				
Designer				
Supervisor				

(If any of these named duty holders change this form shall be revised accordingly and re-issued)

Accepted on behalf of National Grid by;

Name:		Signature:	
Job Title:		Date:	

Refer to TS 3.10.00 for further details.

AMENDMENTS RECORD

Issue	Date	Summary of Changes / Reasons	Author(s)	Approved By (Inc. Job Title)
1	09/07/10	First issue. Document numbered to align with CESWI6 and replaces NGTS2.10	Andy Finn Jacobs	Ursula Bryan Asset Policy Manager
2	April 2017	Alignment with CESWI7 and Eurocodes	Gibson Bhunu Policy Development Engineer – Civil Engineering	Stewart Whyte Asset Policy Manager

APPENDIX I NOT USED

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APPENDIX II LIST OF STANDARDS TO WHICH REFERENCE IS MADE IN THE NATIONAL GRID SUPPLEMENTARY SPECIFICATION

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS ISO	37	Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties	2.136.1
BS ISO	48	Rubber, vulcanized or thermoplastic - Determination of hardness (hardness between 10 IRHD and 100 IRHD)	2.136.1
BS	65	Specification for vitrified clay pipes, fittings and ducts, also flexible mechanical joints for use solely with surface water pipes and fittings	2.91.7
CP	143	Sheet Roof and Wall Coverings	
		Part 5: Zinc	2.108.1
		Part 10: Galvanized Corrugated Steel	2.108.1
		Part 15: Aluminium. Metric Units	2.108.1, 6.54.1
BS	148	Reclaimed mineral insulating oil for transformers and switchgear - Specification	2.147.4, 15.2.7
BS EN	179	Building hardware - Emergency exit devices operated by a lever handle or push pad, for use on escape routes - Requirements and test methods	2.32.4
BS EN	196	Methods of testing cement	
		Part 2: Chemical analysis of cement	2.16.1 (a), 2.21.3
BS EN	197	Cement	
		Part 1: Composition, specifications and conformity criteria for common cements	2.17.7
BS EN	204	Classification of thermoplastic wood adhesives for non-structural applications	2.125.2
BS EN	206	Concrete	
		Part 1: Specification, performance, production and conformity	2.20.5, 4.1.1, 4.2.2, 4.6.1
BS	245	Mineral solvents (white spirit and related hydrocarbon solvents) for paints and other purposes	2.88.10
BS EN	274	Waste fitting for sanitary appliances	
		Part 1: Requirements	2.119.3, 2.135.4, 2.133.4
		Part 2: Test methods	2.119.3,
		Part 3: Quality control	2.119.3,

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN	300	Oriented strand boards (OSB) - Definitions, classification and specification	2.12.1
BS EN	312	Particleboards - Specifications	2.12.1
BS EN	315	Plywood - Tolerances for dimensions	2.96.1
BS EN	357	Glass in building - Fire resistant glazed elements with transparent or translucent glass products - Classification for fire resistance	2.51.2
BS	405	Uncoated expanded metal carbon steel sheets for general purposes	2.159.1
BS	416	Discharge and ventilating pipes and fittings, sand-cast or spun in cast iron	
		Part 1: Specification for spigot and socket systems	2.119.1
BS EN	446	Grout for prestressing tendons - Grouting procedures	4.26.8, , 4.37.1
BS EN	447	Grout for prestressing tendons - Basic requirements	2.17.7, 4.26.8
BS EN	450	Fly ash for concrete	
		Part 1: Definition, specifications and conformity criteria	4.1.2
BS	460	Cast iron rainwater goods - Specification	2.112.1
BS	476	Fire tests on building materials and structures	
		Part 20: Method for determination of the fire resistance of elements of construction (general principles)	2.32.10,
		Part 22: Methods for determination of the fire resistance of non-loadbearing elements of construction	2.32.10,
		Part 23: Methods for determination of the contribution of components to the fire resistance of a structure	2.32.10,
BS EN	485	Aluminium and aluminium alloys - Sheet, strip and plate	
		Part 1: Technical conditions for inspection and delivery	2.43.1, 2.141.1
		Part 2: Mechanical properties	2.43.1, 2.141.1
		Part 3: Tolerances on dimensions and form for hot-rolled products	2.43.1, 2.141.1
BS EN	490	Concrete roofing tiles and fittings for roof covering and wall cladding - Product specifications	2.114.1
BS EN	491	Concrete roofing tiles and fittings for roof covering and wall cladding Test methods	2.114.1

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN	492	Fibre-cement slates and fittings Product specification and test methods	2.114.1
BS EN	494	Fibre-cement profiled sheets and fittings - Product specification and test methods	2.108.1
BS EN	501	Roofing products from metal sheet - Specification for fully supported roofing products of zinc sheet	2.108.1
BS EN	502	Roofing products from metal sheets - Specification for fully supported products of stainless steel sheet	2.108.1
BS EN	504	Roofing products from metal sheets - Specification for fully supported roofing products of copper sheet	2.108.1
BS EN	505	Roofing products from metal sheets - Specification for fully supported roofing products of steel sheet	2.108.1
BS EN	506	Roofing products of metal sheet - Specification for self supporting products of copper or zinc sheet	2.108.1
BS EN	507	Roofing products from metal sheets - Specification for fully supported roofing products of aluminium sheet	2.108.1
BS EN	508	Roofing products from metal sheet - Specification for self supporting products of steel, aluminium or stainless steel sheet	
		Part 1: Steel	2.108.1
		Part 2: Aluminium	2.108.1
		Part 3: Stainless steel	2.108.1
BS EN	515	Aluminium and aluminium alloys - Wrought products - Temper designations	2.59.1, 2.141.1
BS EN	520	Gypsum plasterboards - Definitions, requirements and test methods	2.12.1
BS EN	545	Ductile iron pipes, fittings, accessories and their joints for water pipelines – Requirements and test methods	2.36.7
BS EN	572	Glass in building - Basic soda lime silicate glass products	
		Part 2: Float glass	2.51.2
		Part 3: Polished wired glass	2.51.2
		Part 4: Drawn sheet glass	2.51.2
		Part 5: Patterned glass	2.51.2
		Part 6: Wired patterned glass	2.51.2
		Part 7: Wired or unwired channel shaped glass	2.51.2
		Part 9: Evaluation of conformity/Product standard	2.51.2
BS EN	573	Aluminium and aluminium alloys - Chemical composition and form of wrought products	
		Part 3: Chemical composition and form of products	, 2.141.1

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN	607	Eaves gutters and fittings made of PVC-U. Definitions, requirements and testing	2.112.1
BS EN	612	Eaves gutters with bead stiffened fronts and rainwater pipes with seamed joints made of metal sheet	2.112.1
BS EN	622	Fibreboards specifications	
		Part 2: Requirements for hardboards	2.12.1
		Part 3: Requirements for medium boards	2.12.1
		Part 4: Requirements for softboards	2.12.1
		Part 5: Requirements for dry process boards (MDF)	2.12.1
BS EN	634	Cement-bonded particle boards - Specification	
		Part 1: General requirements	2.12.1
		Part 2: Requirements for OPC bonded particleboards for use in dry, humid and external conditions	2.12.1
BS EN	635	Plywood – Classification by surface appearance	
		Part 1: General	2.96.1
		Part 2: Hardwood	2.96.1
		Part 3: Softwood	2.96.1
BS EN	636	Plywood specifications	2.96.1
BS EN	639	Common requirements for concrete pressure pipes including joints and fittings	2.106.1
BS EN	642	Prestressed concrete pressure pipes, cylinder and non-cylinder, including joints, fittings and specific requirement for prestressing steel for pipes	2.106.1
BS	644	Timber windows - Fully finished factory-assembled windows of various types - Specification	2.138.1
BS EN	649	Resilient floor coverings - Homogeneous and heterogeneous polyvinyl chloride floor coverings - Specification	2.45.1
BS EN	650	Resilient floor coverings - Polyvinyl chloride floor coverings on jute backing or on polyester felt backing or on polyester felt with polyvinyl chloride backing - Specification	2.45.1
BS EN	654	Resilient floor coverings - Semi-flexible polyvinyl chloride tiles - Specification	2.45.1
BS EN	681	Elastomeric seals - Material requirements for pipe joint seals used in water and drainage applications	
		Part 1: Vulcanized rubber	2.105.2
		Part 2: Thermoplastic elastomers	2.105.2
BS EN	682	Elastomeric seals - Materials requirements for seals used in pipes and fittings carrying gas and hydrocarbon fluids	2.105.2

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS	743	Materials for damp-proof courses	2.31.1
BS EN	754	Aluminium and aluminium alloys - Cold drawn rod/bar and tube	
		Part 7: Seamless tubes, tolerances on dimensions and form	2.141.1
		Part 8: Porthole tubes, tolerances on dimensions and form	2.141.1
BS EN	755	Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles	
		Part 1: Technical conditions for inspection and delivery	2.141.1
		Part 2: Mechanical properties	2.141.1
		Part 3: Round bars, tolerances on dimensions and form	2.141.1
		Part 4: Square bars, tolerances on dimensions and form	2.141.1
		Part 5: Rectangular bars, tolerances on dimensions and form	2.141.1
		Part 6: Hexagonal bars, tolerances on dimensions and form	2.141.1
		Part 7: Seamless tubes, tolerances on dimensions and form	2.141.1
		Part 8: Porthole tubes, tolerances on dimensions and form	2.141.1
		Part 9: Profiles, tolerances on dimensions and form	2.141.1
BS EN	771	Specification for masonry units	
		Part 1: Clay masonry units	2.14.1, 2.31.1
		Part 2: Calcium silicate masonry units	2.14.1
		Part 3: Aggregate concrete masonry units (dense and light-weight aggregates)	2.14.1
		Part 4: Autoclaved aerated concrete masonry units	2.14.1
		Part 5: Manufactured stone masonry units	2.14.1
		Part 6: Natural stone masonry units	2.14.1
BS EN	805	Water Supply - Requirements for systems and components outside buildings	7.9.10
BS EN	845	Specification for ancillary components for masonry	
		Part 1: Ties, tension straps, hangers and brackets	2.80.1
		Part 2: Lintels	6.32.2
		Part 3: Bed joint reinforcement of steel meshwork	2.120.1, 2.159.1

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN	858	Separator systems for light liquids (e.g. oil and petrol)	
		Part 1: Principles of product design, performance and testing, marking and quality control	15.2.4, 15.2.5, 15.2.22
		Part 2: Selection of nominal size, installation, operation and maintenance	15.2.6
BS EN	877	Cast iron pipes and fittings, their joints and accessories for the evacuation of water from buildings - Requirements, test methods and quality assurance	2.119.1
BS EN	934	Admixtures for concrete, mortar and grout	
		Part 5: Admixtures for sprayed concrete - Definitions, requirements, conformity, marking and labelling	2.3.4
BS EN	942	Timber in joinery - General requirements	7.37.2
BS EN	988	Zinc and zinc alloys. Specification for rolled flat products for building	2.43.1
BS EN	1008	Mixing water for concrete - Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete	2.134.2
BS EN	1011	Welding - Recommendations for welding of metallic materials	
		Part 1: General guidance for arc welding	12.5.2
BS EN	1015	Methods of test for mortar for masonry	
		Part 1: Determination of particle size distribution (by sieve analysis)	7.36.3
		Part 2: Bulk sampling of mortars and preparation of test mortars	7.36.3
BS EN	1015	Part 3: Determination of consistence of fresh mortar (by flow table)	7.36.3
		Part 4: Determination of consistence of fresh Mortar (by plunger penetration)	7.36.3
		Part 6: Determination of bulk density of fresh mortar	7.36.3
		Part 7: Determination of air content of fresh mortar	7.36.3
		Part 9: Determination of workable life and correction time of fresh mortar	7.36.3
		Part 10: Determination of dry bulk density of hardened mortar	7.36.3
		Part 11: Determination of flexural and compressive strength of hardened mortar	7.36.3, 7.36.6

STD TYPE	STD NO.	TITLE	REFERENCE(S)
		Part 17: Determination of water-soluble chloride content of fresh mortars	7.36.3
		Part 18: Determination of water absorption coefficient due to capillary action of hardened	7.36.3
BS	1052	Specification for mild steel wire for general engineering purposes	2.128.1
BS EN	1090	Execution of steel structures and aluminium structures	
		Part 2: Technical requirements for the execution of steel structures	2.123.2, , 6.26.4, 7.31.1, 7.34.1, 12.1.2, 12.1.3, 12.1.4, 12.1.5, 12.4.1, 12.4.5, 12.9.1, 12.12.1, 12.13.1, , 12.17.2, 12.17.13, 12.21.3
		Part 3: Technical requirements for aluminium structures	12.1.2, 12.4.1
BS EN	1125	Building hardware - Panic exit devices operated by a horizontal bar, for use on escape routes - Requirements and test methods	2.32.4
BS EN	1154	Building hardware - Controlled door closing devices - Requirements and test methods	2.32.4
BS	1161	Aluminium alloy sections for structural purposes	2.141.1
BS EN	1168	Precast concrete products - Hollow core slabs	2.154.1
BS EN	1171	Industrial valves – Cast iron gate valves	2.128.1
BS EN	1172	Copper and copper alloys - Sheet and strip for building purposes	2.43.1
BS	1186	Timber for and workmanship in joinery	
		Part 2: Specification for workmanship	6.19.2
		Part 3: Specification for wood trim and its fixing	6.19.2
BS EN	1192	Doors - Classification of strength requirements	2.32.9
BS	1202	Nails	
		Part 1: Steel nails	2.83.1, 2.83.2
		Part 2: Copper nails	2.83.1
		Part 3: Aluminium nails	2.83.1
BS	1217	Cast stone - Specification	2.45.1
BS	1245	Metal door frames (Steel)	2.32.4
BS EN	1254	Copper and copper alloys	

STD TYPE	STD NO.	TITLE	REFERENCE(S)
		Part 1: Plumbing fittings. Fittings with ends for capillary soldering or capillary brazing to copper tubes	2.29.3
		Part 2: Plumbing fittings. Fittings with compression ends for use with copper tubes	2.29.3
BS EN	1304	Clay roofing tiles and fittings - Product definitions and specifications	2.114.1
BS EN	1313	Round and sawn timber - Permitted deviations and preferred sizes	
		Part 1: Softwood sawn timber	2.126.7,
BS EN	1329	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized Poly(Vinyl Chloride) (PVC-U)	
		Part 1: Specifications for pipes, fittings and the system	2.119.1
BS EN	1344	Clay pavers - Requirements and test methods	2.99.3
BS EN ISO	1346	Fibre ropes Polypropylene split film, monofilament and multifilament (PP2) and polypropylene high tenacity multifilament (PP3) 3-, 4- and 8-strand ropes	2.34.1
BS	1377	Methods of test for soils for civil engineering purposes	
		Part 4: Compaction-related tests	7.52.3, 7.52.4
BS EN	1433	Drainage channels for vehicular and pedestrian areas Classification, design and testing requirements, marking and evaluation of conformity	2.58.5
BS EN	1436	Road marking materials - Road marking performance for road users	8.16.7
BS EN	1451	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Polypropylene (PP)	
		Part 1: Specifications for pipes, fittings and the system	2.119.1
BS EN	1455	Plastics piping systems for soil and waste (low and high temperature) within the building structure Acrylonitrile-butadiene-styrene (ABS)	
		Part 1: Specifications for pipes, fittings and the system	2.119.1
BS EN	1457	Chimneys - Clay/ceramic flue liners - Requirements and test methods	2.14.1
BS EN ISO	1460	Metallic Coatings - Hot Dip Galvanized Coatings on Ferrous Materials - Gravimetric Determination of the Mass per Unit Area	2.42.1, 2.42.2

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN ISO	1461	Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods	2.64.2, 2.112.2, 2.152.2, 2.159.1, 7.34.4, 12.17.3, 12.17.7, 15.2.27, 15.2.29
BS EN	1462	Brackets for eaves gutters. Requirements and testing	2.112.1
BS EN	1519	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Polyethylene (PE) Part 1: Specifications for pipes, fittings and the system	2.119.1
BS EN	1559	Founding - Technical Conditions of Delivery Part 1: General Part 4: Additional Requirements for Aluminium Alloy Castings	2.141.1 2.141.1
BS EN	1565	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Styrene Copolymer Blends (SAN+PVC) Part 1: Specifications for pipes, fittings and the system	2.119.1
BS	1566	Copper cylinders for domestic purposes Part 1: Open vented copper cylinders requirements and test methods	2.135.7
BS EN	1566	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Chlorinated Poly(Vinyl Chloride) (PVC-C) Part 1: Specifications for pipes, fittings and the system	2.119.1
BS EN	1610	Construction and testing of drains and sewers	7.21.1, 7.21.2
CEN ENV	1627	Windows, doors, shutters - Burglar resistance - Requirements and classification	2.32.9
BS EN	1676	Aluminium and aluminium alloys - Alloyed ingots for remelting - Specifications	2.141.1
BS EN	1706	Aluminium and aluminium alloys - Castings - Chemical composition and mechanical properties	2.141.1
BS EN	1806	Chimneys Clay/ceramic flue blocks for single wall chimneys Requirements and test methods	2.14.1
BS ISO	1817	Rubber, vulcanized - Determination of the effect of liquids	2.136.1
BS EN	1858	Chimneys - Components - Concrete flue blocks	2.14.1
BS EN	1992	Eurocode 2: Design of concrete structures Part 1-1: General rules and rules for buildings	2.155.1, 4.34.1

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN	1994	Eurocode 4: Design of composite steel and concrete structures	
		Part 1-1: General rules and rules for buildings	12.16.1
BS EN	1995	Eurocode 5: Design of timber structures	
		Part 1-1: General rules and rules for buildings & UK National Annex	6.19.2
BS EN	1996	Eurocode 6: Design of masonry structures	
		Part 2: Design considerations, selection of materials and execution of masonry	2.82.5, 6.2.3
BS	2000	Bitumen and bituminous binders	
		Part 49: Determination of needle penetration	2.77.9
		Part 58: Determination of the softening point - Ring and ball method	2.77.9
BS EN ISO	2063	Thermal spraying - Metallic and other inorganic coatings - Zinc, aluminium and their alloys	7.34.5, 7.34.6
BS EN ISO	2178	Non-magnetic coatings on magnetic substrates - Measurement of coating thickness - Magnetic method	7.34.3
BS	2571	Specification for general-purpose flexible PVC Compounds for moulding and extrusion	2.32.13, 2.54.4, 2.136.3
BS ISO	2781	Rubber, vulcanized or thermoplastic - Determination of density	2.136.1
BS	2782	Methods of Testing Plastics	2.150.5
BS	2853	Design and testing of steel overhead runway beams	7.32.1
BS ISO	3384	Rubber, vulcanized or thermoplastic - Determination of stress relaxation in compression at ambient and at elevated temperatures	2.136.1
BS	3416	Bitumen-based coatings for cold application, suitable for use in contact with potable water	2.64.2, 12.15.2
BS	3837	Expanded polystyrene boards. Boards and blocks manufactured from expandable beads. Requirements and test methods	2.12.3
BS	3864	Lettering	15.2.45
BS	3868	Prefabricated drainage stack units in galvanized steel	2.112.1
BS	3882	Specification for topsoil and requirements for use	7.51.1
BS	3900	Methods of tests for paints	14.14.1
BS EN ISO	4014	Hexagon Head Bolts - Product Grades A and B	2.86.7
BS EN ISO	4016	Hexagon Head Bolts - Product Grade C	2.86.7, 2.86.8
BS EN ISO	4032	Hexagon Nuts, Style 1 - Product Grades A and B	2.86.7
BS EN ISO	4034	Hexagon Nuts - Product Grade C	2.86.7, 2.86.8

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS	4320	Metal washers for general engineering purposes metric series	2.86.7, 2.86.8
BS	4428	Code of Practice for general landscape operations (excluding hard surfaces)	3.9.6, 2.56.2
BS	4449	Steel for the reinforcement of concrete - Weldable reinforcing steel - Bar, coil and decoiled product - Specification	2.120.1, 2.159.1
BS	4482	Steel wire for the reinforcement of concrete products - Specification	2.120.1, 2.159.1
BS	4483	Steel fabric for the reinforcement of concrete - Specification	2.120.1, 2.159.1
BS	4486	Hot Rolled and Hot Rolled and Processed High Tensile Alloy Steel Bars for the Prestressing of Concrete	2.155.1
BS	4514	Unplasticized PVC soil and ventilating pipes of 82.4 mm minimum mean outside diameter, and fittings and accessories of 82.4mm and of other sizes. Specification	2.119.1
BS	4533	Luminaires Part 102: Particular requirements Section 102.1: Specification for fixed general purpose luminaires	13.18.1
BS	4551	Mortar - Methods of test for mortar - Chemical analysis and physical testing	7.36.3
BS	4592	Industrial type flooring and stair treads. Part 0: Common design requirements and recommendations for installation Part 4: Glass reinforced plastics (GRP) open bar gratings - Specification Part 6: Glass reinforced plastics (GRP) moulded open mesh gratings and protective barriers - Specification	12.19.1 2.147.3 2.147.3
BS	4787	Internal and external wood doorsets, door leaves and frames Part 1: Specification for dimensional requirements	2.32.4
BS	4800	Schedule of paint colours for building purposes	2.147.7, 5.21.8, 12.21.10
BS	4873	Aluminium alloy windows and doorsets - Specification	2.138.1
BS	4880	Urinals Part 1: Stainless steel slab urinals	2.133.1
BS	4921	Sherardized coatings on iron and steel	2.63.2

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS	4965	Decorative laminated plastics sheet veneered boards and panels	2.12.1
BS	5080	Structural fixings in concrete and masonry	
		Part 1: Method of test for tensile loading	2.143.4
		Part 2: Method for determination of resistance to loading in shear	2.143.4
BS	5212	Cold applied joint sealant systems for concrete pavements	
		Part 2: Code of Practice for the application and use of joint sealants	2.67.3
BS	5234	Partitions (including matching linings)	
		Part 1: Code of practice for design and installation	12.20.1
		Part 2: Specification for performance requirements for strength and robustness including methods of test	2.149.1
BS	5254	Polypropylene waste pipe and fittings (external diameter 34.6mm, 41.0mm and 54.1mm)	2.119.1
BS	5284	Methods of sampling and testing mastic asphalt used in building and civil engineering	7.40.2, 7.41.2
BS	5385	Wall and floor tiling	
		Part 1: Design and installation of ceramic, natural stone and mosaic wall tiling in normal internal conditions – Code of Practice	6.18.1
		Part 2: Design and installation of external ceramic, and mosaic wall tiling in normal conditions – Code of Practice	6.18.1
		Part 4: Design and installation of ceramic, and mosaic wall tiling in special conditions – Code of Practice	6.18.1
BS	5467	Electric cables - Thermosetting insulated, armoured cables for voltages of 600/1 000 V and 1 900/3 300 V	13.5.3
BS	5534	Code of Practice for slating and tiling (including shingles)	2.83.3, 2.114.1 6.27.13
BS	5606	Guide to accuracy in building	2.154.7, 12.19.3
BS	5733	General Requirements for Electrical Accessories	13.17.4
BS	5896	Specification for High tensile steel wire and strand for the prestressing of concrete	2.155.1
BS	5911	Concrete pipes and ancillary concrete products	
		Part 1: Specification for unreinforced and reinforced concrete pipes (including jacking pipes) and fittings with flexible joints (complementary to BS EN 1916:2002)	2.106.1
		Part 5: Specification for prestressed non-pressure pipes and fittings with flexible joints	2.106.1

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS	5964	Building setting out and measurement Part 1: Methods of measuring, planning and organization and acceptance criteria	1.8.8, 1.8.11, 1.8.14, 1.8.16, 7.53.1
		Part 2: Measuring stations and targets	1.8.7
BS	5970	Code of Practice for thermal insulation of pipework and equipment in the temperature of -100 degrees C to + 870 degrees C	2.151.1, 2.152.2
BS	6004	Electric cables PVC insulated, non-armoured cables for voltages up to and including 450/750 V, for electric power, lighting and internal wiring	15.2.38
BS	6037	Code of practice for the planning, design, installation and use of permanently installed access equipment Part 1: Suspended access equipment	7.32.1
		Part 2: Travelling ladders and gantries	7.32.1
BS	6187	Code of Practice for demolition	1.7.5, 3.16.2
BS	6206	Impact performance requirements for flat safety glass and safety plastics for use in buildings	2.51.2
BS	6262	Code of Practice for glazing for buildings	2.32.11, 6.25.1
BS	6297	Code of Practice for the design and installation of drainage fields for use in wastewater treatment	2.53.4
BS	6375	Performance of windows and doors Part 1: Classification for weathertightness and guidance on selection and specification	2.32.9, 2.32.14
		Part 2: Classification for operation and strength characteristics and guidance on selection and specification	2.32.9
		Part 3: Classification for additional performance characteristics and guidance on selection and specification	2.32.9
BS	6398	Bitumen damp-proof courses for masonry	2.31.1
BS	6446	Specification for manufacture of glued structural components of timber and wood based panels	6.19.2
BS	6510	Steel-framed windows and glazed doors	2.32.4, 2.138.1
BS	6515	Polyethylene damp-proof courses for masonry	2.31.1
BS	6576	Code of Practice for diagnosis of rising damp in walls of buildings and installation of chemical damp-proof courses	6.4.4
BS	6610	Pozzolanic pulverised-fuel ash cement	2.16.1

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS	6700	Design, installation, testing and maintenance of services supplying water for domestic use within buildings and their cartilages - Specification	6.31.20
BS	6724	Electric cables - Thermosetting insulated, armoured cables for voltages of 600/1000 V and 1900/3300 V, having low emission of smoke and corrosive gases when affected by fire	13.4.4, 13.5.3
BS	6744	Stainless steel bars for the reinforcement of and use in concrete. Requirements and test methods	2.120.1, 2.159.1
BS	6915	Design and construction of fully supported lead sheet roof and wall coverings - Code of Practice	2.43.3, 2.43.4, 6.45.8
BS	6925	Mastic asphalt for building and civil engineering (limestone aggregate)	2.31.1, 2.77.14,
BS	6946	Metal channel cable support systems for electrical installations	13.12.3
BS	7211	Electric cables Thermosetting insulated, non-armoured cables for voltages up to and including 450/750 V, for electric power, lighting and internal wiring, and having low emission of smoke and corrosive gases when affected by fire	13.4.6
BS	7334	Measuring instruments for building construction	
		Part 1: Methods for determining accuracy in use: Theory	7.53.6
		Part 2: Methods for determining accuracy in use: Measuring tapes	7.53.6
		Part 3: Methods for determining accuracy in use: Optical levelling instruments	7.53.6
BS	7334	Part 4: Methods for determining accuracy in use of Theodolites	7.53.6
		Part 5: Methods for determining accuracy in use of optical plumbing instruments	7.53.6
		Part 6: Methods for determining accuracy in use of laser instruments	7.53.6
		Part 7: Methods for determining accuracy in use of instruments when used for setting out	7.53.6
		Part 8: Methods for determining accuracy in use Electronic distance-measuring instruments up to 150m	7.53.6
BS	7412	Specification for windows and doorsets made from unplasticized polyvinyl chloride (PVC-U) extruded hollow profiles	2.32.4, 2.138.1

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS	7414	White PVC-U extruded hollow profiles with heat welded corner joints for plastics windows: Materials Type B	2.138.1
BS	7430	Code of Practice for earthing	13.17.15, 13.21.1
BS	7671	Requirements for electrical installations - IEE wiring regulations - Seventeenth edition	, 13.1.1, 13.2.1, 15.2.27
BS	7874	Method of test for microbiological deterioration of elastomeric seals for joints in pipework and pipelines	2.105.2
BS	7919	Electric cables - Flexible cables rated up to 450/750 V, for use with appliances and equipment intended for industrial and similar environments	13.17.14
BS	7976	Pendulum testers	14.14.2
BS	8000	Workmanship on building sites	
		Part 3: Code of practice for masonry	6.1.1, 6.2.3, 6.3.1, 6.32.2
		Part 4: Code of Practice for waterproofing	4.39.1, 6.29.4, 6.30.4, 6.44.1
		Part 5: Code of Practice for carpentry, joinery and general fixings	6.19.2, 6.21.4, 6.21.9, 6.27.14, 7.37.1
		Part 6: Code of Practice for slating and tiling of roofs and claddings	6.27.3, 6.27.11, 6.48.1,
		Part 7: Code of Practice for glazing	6.25.1
		Part 8: Code of Practice for plasterboard partitions and dry lining	6.11.4
BS	8000	Part 9: Cementitious levelling screeds and wearing screeds Code of practice	6.14.7, 6.14.8, 6.14.11, 6.14.12
		Part 11: Code of Practice for wall and floor tiling Section 11.1: Ceramic tiles, terrazzo tiles and mosaics	6.15.6, 6.15.7 6.18.1
		Part 11: Code of Practice for wall and floor tiling Section 11.2: Natural stone tiles	6.15.25, 6.15.26
		Part 12: Code of Practice for decorative wallcoverings and painting	
		Part 13: Code of Practice for above ground drainage and sanitary appliances	6.38.2
		Part 14: Code of Practice for below ground drainage	6.38.2
		Part 16: Code of Practice for sealing joints in buildings using sealants	6.46.1
BS	8204	Screeds, bases and in situ floorings	

STD TYPE	STD NO.	TITLE	REFERENCE(S)
		Part 1: Concrete bases and cement sand levelling screeds to receive floorings Code of Practice	6.14.1, 6.14.6, 6.14.12, 7.43.1
		Part 2: Concrete wearing surfaces Code of practice	6.14.1, 6.14.6, 6.14.12, 7.43.1
		Part 3: Polymer modified cementitious levelling screeds and wearing screeds Code of Practice	6.14.1, 6.14.6, 6.14.12, 7.43.1
		Part 4: Cementitious terrazzo wearing surfaces Code of practice	7.43.1
		Part 5: Mastic asphalt underlays and wearing surfaces Code of practice	2.77.13, 2.77.5, 6.14.1, 6.14.6, 6.14.12, 6.43.2, 7.41.1, 7.43.1
		Part 6: Synthetic resin floorings - Code of practice	6.14.1, 6.14.6, 6.14.12, 7.43.1
		Part 7: Pumpable self-smoothing screeds - Code of practice	6.14.1, 6.14.6, 6.14.12, 7.43.1
BS	8212	Code of practice for dry lining and partitioning using gypsum plasterboard	2.191.1, 6.11.8
BS	8218	Code of Practice for mastic asphalt roofing	2.77.4, 2.77.5, 2.77.12, 2.77.13, 2.77.15, 7.40.1
BS	8481	Design, preparation and application of internal gypsum, cement, cement and lime plastering systems - Specification	2.38.2, 2.79.3, 2.93.3, 6.10.4,
BS	8490	Guide to siphonic roof drainage systems	7.4.8
BS EN	8500	Concrete - Complementary British Standard to BS EN 206-1	
		Part 1: Method of specifying and guidance for the specifier	2.20.5, 2.20.6, 4.1.1,
BS	8666	Scheduling, dimensioning, bending and cutting of steel reinforcement for concrete - Specification	4.14.2, 4.14.5
BS EN ISO	9001	Quality Management Systems - Requirements	1.25.1, 1.25.6, 2.0.5, 2.53.4, 2.94.4, 2.126.10, 2.157.1, 12.17.1
BS EN ISO	9554	Fibre ropes General specifications	2.34.1
BS EN ISO	10012	Measurement management systems - Requirements for measurement processes and measuring equipment	7.53.7
BS EN	10025	Hot rolled products of structural steels	
		Part 1: General technical delivery conditions	

STD TYPE	STD NO.	TITLE	REFERENCE(S)
		Part 2: Technical delivery conditions for non-alloy structural steels	2.159.1, 2.159.1
BS EN	10080	Steel for the reinforcement of concrete. Weldable reinforcing steel. General	2.120.1
BS EN	10088	Stainless steels	
		Part 1: List of stainless steels	2.159.1
		Part 3: Technical delivery conditions for semi-finished products, bars, rods, wire, sections and bright products of corrosion resisting steels for general purposes	2.83.1
BS EN	10095	Heat Resisting Steels and Nickel Alloys	2.26.4
BS EN	10216	Seamless steel tubes for pressure purposes – Technical delivery conditions	
		Part 1: Non-alloy steel tubes with specified room temperature properties	2.36.3
BS EN	10217	Welded steel tubes for pressure purposes – Technical delivery conditions	
		Part 1: Non-alloy steel tubes with specified room temperature properties	2.36.3
BS EN	10224	Non-alloy steel tubes and fittings for the conveyance of water and other aqueous liquids – Technical delivery conditions	2.36.3
BS EN	10230	Steel wire nails	
		Part 1: Loose nails for general applications	2.83.1
BS EN	10346	Continuously hot dip coated steel flat products - Technical delivery conditions	2.108.2
BS ISO	11414	Plastics pipes and fittings - Preparation of polyethylene (PE) pipe/pipe or pipe/fitting test piece assemblies by butt fusion	13.5.3
BS EN ISO	11600	Building construction - Jointing products - Classification and requirements for sealants	2.67.7, 2.67.8
BS EN	12004	Adhesives for tiles - Requirements, evaluation of conformity, classification and designation	6.18.6
BS EN	12020	Aluminium and aluminium alloys - Extruded precision profiles in alloys EN AW-6060 and EN AW-6063	
		Part 1: Technical conditions for inspection and delivery	2.141.1
		Part 2: Tolerances on dimensions and form	2.141.1
BS EN	12056	Gravity drainage systems inside buildings	
		Part 2: Sanitary pipework, layout and calculation	7.4.8

STD TYPE	STD NO.	TITLE	REFERENCE(S)
		Part 5: Installation and testing, Instructions for operation, maintenance and use	6.38.2
BS EN	12200	Plastics rainwater piping systems for above ground external use - Unplasticized poly(vinyl chloride) (PVC-U)	
		Part 1: Specifications for pipes, fittings and the system	2.112.1
BS EN	12207	Windows and doors - Air permeability - Classification	2.32.9
BS EN	12208	Windows and doors - Watertightness - Classification	2.32.9
BS EN	12209	Building hardware - Locks and latches - Mechanically operated locks, latches and locking plates - Requirements and test methods	2.32.4
BS EN	12210	Windows and doors - Resistance to wind load - Classification	2.32.9
BS EN	12217	Doors operating forces - Requirements and classification	2.32.9
BS EN	12219	Doors - Climatic influences - Requirements and classification	2.32.9
BS EN	12326	Slate and stone products for discontinuous roofing and cladding	
		Part 1: Product specification	2.114.1
BS EN	12365	Building hardware - Gasket and weatherstripping for doors, windows, shutters and curtain walling	
		Part 1: Performance requirements and classification	2.32.12
BS EN	12400	Windows and pedestrian doors - Mechanical durability Requirements and classification	2.32.9
BS EN	12588	Lead and lead alloys - Rolled lead sheet for building purposes	2.31.1, 2.43.1
BS EN	12608	Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors - Classification, requirements and test methods	2.32.4, 2.138.1
BS EN	12620	Aggregates for concrete	2.117.5
BS EN	12794	Precast concrete products - Foundation piles	2.154.1
BS EN	12899	Fixed, vertical road traffic signs	
		Part 1: Fixed signs	8.16.2, 8.16.3
BS EN	12970	Mastic asphalt for waterproofing - Definitions, requirements and test methods	2.77.3
BS EN	13043	Aggregates for bituminous mixtures and surface treatments for roads, airfields and other trafficked areas	2.161.1

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN	13049	Windows - Soft and heavy body impact - Test method, safety requirements and classification	2.32.9
BS EN	13115	Windows - Classification of mechanical properties - Racking, torsion and operating forces	2.32.9
BS EN	13123	Windows, doors and shutters - Explosion resistance - Requirements and classification	
		Part 1: Shock tube	2.32.9
		Part 2: Range test	2.32.9
BS EN	13162	Thermal insulation products for buildings - Factory made mineral wool (MW) products - Specification	2.148.1
BS EN	13163	Thermal insulation products for buildings - Factory made products of expanded polystyrene (EPS) - Specification	2.12.1, 2.148.1
BS EN	13164	Thermal insulation products for buildings - Factory made products of extruded polystyrene foam (XPS) - Specification	2.12.1, 2.148.1
BS EN	13165	Thermal insulation products for buildings - Factory made rigid polyurethane foam (PUR) products - Specification	2.12.1, 2.148.1
BS EN	13166	Thermal insulation products for buildings - Factory made products of phenolic foam (PF) - Specification	2.148.1
BS EN	13167	Thermal insulation products for buildings - Factory made cellular glass (CG) products - Specification	2.148.1
BS EN	13168	Thermal Insulation Products for Buildings - Factory Made Wood Wool (WW) Products - Specification	2.148.1
BS EN	13169	Thermal insulation products for buildings - Factory made products of expanded perlite (EPB) - Specification	2.148.1
BS EN	13170	Thermal insulation products for buildings - Factory made products of expanded cork (ICB) - Specification	2.148.1
BS EN	13171	Thermal insulation products for buildings - Factory made wood fibre (WF) products - Specification	2.148.1
BS EN	13224	Precast concrete products - Ribbed floor elements	2.154.1
BS EN	13225	Precast concrete products - Linear structural elements	2.154.1
BS EN	13369	Common rules for precast concrete products	2.154.1
BS EN	13501	Fire classification of construction products and building elements	
		Part 1: Classification using data from reaction to fire tests	2.32.10,
		Part 5: Classification using data from external fire exposure to roofs tests	2.32.10

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN	13502	Chimneys - Requirements and test methods for clay/ceramic flue terminals	2.14.1
BS EN	13507	Thermal spraying - Pre-treatment of surfaces of metallic parts and components for thermal spraying	12.17.7
BS EN	13598	Plastics piping systems for non-pressure underground drainage and sewerage - Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) Part 1: Specifications for ancillary fittings including shallow inspection chambers	 2.58.3
BS EN	13658	Metal lath and beads - Definitions, requirements and test methods Part 2: External rendering	 2.79.2
BS EN	13674	Railway applications track rail Part 1: Vignole railway rails 46kg/m and above Part 4: Vignole railway rails from 27kg/m to, but excluding 46kg/m	 12.21.1 12.21.1
BS EN	13693	Precast concrete products - Special roof elements	2.154.1
BS EN	13707	Flexible sheets for waterproofing - Reinforced bitumen sheets for roof waterproofing - Definitions and characteristics	2.43.1, 2.77.13, 2.77.14, 2.77.15, 2.114.1
BS EN	13747	Precast concrete products - Floor plates for floor systems	2.154.1
BS EN	13748	Terrazzo tiles Part 1: Terrazzo tiles for internal use Part 2: Terrazzo tiles for external use	 2.45.1 2.45.1
BS EN	13859	Flexible sheets for waterproofing Definitions and characteristics of underlays Part 1: Underlays of discontinuous roofing	 2.114.1
BS EN	13877	Concrete pavements Part 3: Specifications for dowels to be used in concrete pavements	 2.159.1
BS EN	13888	Grouts for tiles definitions and specifications	6.18.6
BS EN	13914	Design, preparation and application of external rendering and internal plastering Part 1: External rendering Part 2: Design considerations and essential principles for internal plastering	 6.12.5, 6.12.12

STD TYPE	STD NO.	TITLE	REFERENCE(S)
BS EN	13915	Prefabricated gypsum plasterboard panels with a cellular paperboard core - Definitions, requirements and test methods	2.12.1
BS EN	13950	Gypsum plasterboard / acoustic insulation composite panels - Definitions, requirements and test methods	2.12.1
BS EN	13964	Suspended ceilings - Requirements and test methods	6.41.1, 6.41.2
BS EN	13978	Precast concrete products - Precast concrete garages	
		Part 1: Requirements for reinforced garages monolithic or consisting of single sections with room dimensions	2.154.1
BS EN	13984	Flexible sheets for waterproofing - Plastic and rubber vapour control layers - Definitions and characteristics	2.77.14,
BS EN	14188	Joint fillers and sealants	
		Part 2: Specifications for cold applied sealants	2.67.3
		Part 3: Specifications for preformed joint seals	2.67.9
BS EN	14190	Gypsum plasterboard / products from reprocessing - Definitions, requirements and test methods	2.12.1
BS EN	14220	Timber and wood-based materials in external windows, external door leaves and external doorframes - Requirements and specifications	2.32.4
BS EN	14221	Timber and wood-based materials in internal windows, internal door leaves and internal doorframes - Requirements and specifications	2.32.4
BS EN	14250	Timber structures - Product requirements for prefabricated structural members assembled with punched metal plate fasteners	2.126.11
BS EN	14351	Windows and doors - Product standard, performance characteristics	
		Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics	2.32.9
prEN	14351	Windows and doors - Product standard, performance characteristics	
		Part 2: Internal pedestrian doorsets without resistance to fire and/or smoke leakage characteristics	2.32.9
BS EN	14411	Ceramic tiles - Definitions, classification, characteristics and marking	2.45.1, , 2.133.2
BS EN	14487	Sprayed concrete	
		Part 1: Definitions, specifications and conformity	

STD TYPE	STD NO.	TITLE	REFERENCE(S)
		Part 2: Execution	4.39.3, 4.39.5, 7.46.1
BS EN	14488	Testing sprayed concrete	
		Part 1: Sampling fresh and hardened concrete	7.46.1
		Part 2: Compressive strength of young sprayed concrete	7.46.1
		Part 3: Flexural strengths (first peak, ultimate and residual) of fibre reinforced beam specimens	7.46.1
		Part 4: Bond strength of cores by direct tension	7.46.1
		Part 5: Determination of energy absorption capacity of fibre reinforced slab specimens	7.46.1
		Part 6: Thickness of concrete on a substrate	7.46.1
		Part 7: Fibre content of fibre reinforced concrete	7.46.1
BS EN	14600	Doorsets and openable windows with fire resisting and/or smoke control characteristics - Requirements and classification	2.32.9
BS ISO	14654	Epoxy-Coated Steel for the Reinforcement of Concrete	4.14.4, 4.14.6
BS EN	14782	Self-supporting metal sheet for roofing, external cladding and internal lining - Product specification and requirements	2.108.1
BS EN	14783	Fully supported metal sheet and strip for roofing, external cladding and internal lining - Product specification and requirements	2.108.1
BS EN	14843	Precast concrete products - Stairs	2.154.1
BS EN	14889	Fibres for concrete	
		Part 1: Steel fibres Definitions, specifications and conformity	4.27.3
		Part 2: Polymer fibres Definitions, specifications and conformity	4.27.3
BS EN	14991	Precast concrete products - Foundation elements	2.154.1
BS EN	14992	Precast concrete products - Wall elements	2.154.1
BS EN	15167	Ground granulated blast furnace slag for use in concrete, mortar and grout	
		Part 1: Definitions, specifications and conformity criteria	4.1.2,
ISO	17123	Optics and optical instruments - Field procedures for testing geodetic and surveying instruments	
		Part 1: Theory	7.53.6
		Part 2: Levels	7.53.6
		Part 3: Theodolites	7.53.6

STD TYPE	STD NO.	TITLE	REFERENCE(S)
		Part 4: Electro-optical distance meters	7.53.6
		Part 5: Electronic tacheometers	7.53.6
		Part 6: Rotating lasers	7.53.6
		Part 7: Optical plumbing instruments	7.53.6
		Part 8: GNSS field measurement systems in real-time kinematic (RTK)	7.53.6
BS EN	50086	Specification for Conduit systems for cable management	
		Part 1: General requirements	13.14.2
		Part 2: Particular requirements	13.14.2
		Section 2.4: Conduit systems buried underground	
BS EN	60269	Low-voltage fuses	
		Part 1: General requirements	13.23.6
BS EN	60296	Fluids for electrotechnical applications Unused mineral insulating oils for transformers and switchgear	2.147.5
BS EN	60423	Conduit systems for cable management - Outside diameters of conduits for electrical installations and threads for conduits and fittings	13.14.2
BS EN	60439	Low-voltage switchgear and controlgear assemblies	
		Part 3: Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use - Distribution boards	13.9.5, 13.9.6
BS EN	60529	Degrees of protection provided by enclosures (IP Code)	7.48.1, 13.5.8, 13.8.7, 13.14.8, 15.1.16, 15.2.35.
BS EN	60598	Luminaires	
		Part 1: General requirements and tests	13.19.1
BS EN	60670	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations	
		Part 1: General requirements	13.8.2
BS EN	61386	Conduit systems for cable management	
		Part 1: General requirements	13.14.2
		Part 21: Particular requirements - Rigid conduit systems	13.14.3
BS EN	61537	Cable management - Cable tray systems and cable ladder systems	13.12.3

**APPENDIX III LIST OF WATER INDUSTRY SPECIFICATIONS/INFORMATION AND GUIDANCE
NOTES TO WHICH REFERENCE IS MADE IN THE NATIONAL GRID SUPPLEMENTARY
SPECIFICATION**

WIS/IGN	NUMBER	TITLE	REFERENCE(S)
WIS	4-32-08	Specification for fusion jointing of polyethylene pressure pipeline systems using PE80 and PE100 materials	5.8.6, 5.8.9
WIS	4-32-16	Specification for butt fusion jointing machines	5.8.5

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APPENDIX IV NOT USED

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APPENDIX V LIST OF STATUTORY REFERENCES IN THE NATIONAL GRID SUPPLEMENTARY SPECIFICATION

TITLE	REFERENCE(S)
IEE Regulations	13.1.1, 13.2.1, 13.3.5, , 13.7.5, 13.7.6, 13.7.8, 13.10.3, 13.11.2, 13.11.5, 13.11.12, 13.12.1, 13.12.2, 13.17.15,
Water Supply (Water Fittings) Regulations (1999)	6.31.3

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APPENDIX VI LIST OF MISCELLANEOUS PUBLICATIONS TO WHICH REFERENCE IS MADE IN THE DOCUMENT

TITLE	REFERENCE(S)
ACR[M]001: "Test for non-fragility of profiled sheet roof assemblies" Advisory Committee for Roofwork, c/o Roofing House, 31 Worship Street, London EC2A 2DY	6.35.2
BRE screed tester: Classifications of screeds, sampling and acceptance limits Building Research Establishment, Bucknalls Lane, Watford WD25 9XX	7.43.4
Code of Practice for the specification and use of liquid waterproofing membranes European Liquid Roofing Association (ELRA), PO Box 1222, Preston, Lancashire, PR2 0HZ	2.162.2, 4.40.1
Guidance Note: Anchor Installation Construction Fixings Association, 65 Deans Street, Oakham, LE15 6AF	2.143.1, 2.143.2
Guidance Note 1: Selection and erection of equipment	13.1.1
Guidance Note 2: Isolation and switching	13.1.1
Guidance Note 3: Inspection and testing	13.1.1
Guidance Note 4: Protection against fire	13.1.1
Guidance Note 5: Protection against electric shock	13.1.1
Guidance Note 6: Protection against overcurrent	13.1.1
Guidance Note 7: Special locations	13.1.1
Guidance Note 8: Earthing and bonding Institution of Electrical Engineers, Michael Faraday House, Stevenage, Herts SG1 2AY	13.1.1
Loss Prevention Standard 1175: "Requirements and testing procedures for the LPCB approval and listing of intruder resistant building components, strongpoints, security enclosures and free-standing barriers"	2.138.6
Loss Prevention Standard 1242: "Requirements and testing procedures for the LPCB approval and listing of cylinders for locks"	2.32.4
Loss Prevention Certification Board (Part of BRE) Bucknalls Lane, Garston, Watford, WD25 9XX	
Notes for Guidance on the Specification for Highway Works Highways Agency, 123 Buckingham Palace Road, London SW1W 9HA	7.52.5

TITLE	REFERENCE(S)
<p>P346: "Best practice for the specification and installation of metal cladding and secondary steelwork"</p> <p>Steel Construction Institute, Silwood Park, Ascot, Berkshire SL5 7QN</p>	6.35.8
<p>Platform Floors (Raised Access Floors) Performance Specification, document no. PF2 PS/SPU, published by Property Services Agency</p> <p>Available from The Stationery Office Ltd, PO Box 276, Nine Elms Lane, London SW8 5DR</p>	6.42.1, 7.44.1
<p>PPG3: Use and design of oil interceptors in surface water drainage systems</p> <p>Environment Agency, Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol BS32 4UD</p> <p>Environment and Heritage Service, Calvert House, 23 Castle Place, Belfast BT1 1FY</p> <p>Scottish Environment Protection Agency, Erskine Court, The Castle Business Park, Stirling FK9 4TR</p>	15.2.4
<p>Procedure for site testing construction fixings</p> <p>Construction Fixings Association, 65 Deans Street, Oakham, LE15 6AF</p>	7.47.1
<p>Specification for Fabricated Access Covers</p> <p>Fabricated Access Covers Trade Association's (FACTA), 42 Heath Street, Tamworth, Staffordshire B79 7JH</p>	2.74.1
<p>Specification for Highway Works</p> <p>Highways Agency, 123 Buckingham Palace Road, London SW1W 9HA</p>	<p>2.9.1, 2.50.4, 2.113.1, 2.144.1, 2.146.1, , 2.153.1, 3.1.9, 3.1.13, 3.6.10, 7.52.2, 8.17.1 ,8.14.1, 8.20.1, 15.2.29.</p>
<p>Specification for Piling and Embedded Retaining Walls, Second Edition</p> <p>Institution of Civil Engineers, 1-7 Great George Street, London SW1P 3AA</p>	7.50.1, 7.50.2
<p>Technical Handbook</p> <p>The Trussed Rafter Association, PO Box 571, Chesterfield S40 9DH</p>	6.21.5

TITLE	REFERENCE(S)
Technical Paper 1: "Recommended good practice for daylighting in metal clad buildings"	6.35.8
Technical Paper 2: "Curved sheeting manual"	6.35.8
Technical Paper 3: "Secret fix roofing design guide"	6.35.8
Technical Paper 4: "Metal wall cladding design guide"	6.35.8
Technical Paper 5: "Profiled metal roofing design guide"	6.35.8
Technical Paper 6: "Fire design of steel-clad external walls for building: Construction, performance standards and design"	6.35.8
Technical Paper 7: "Acoustic design guide for metal roof and wall cladding"	6.35.8
Technical Paper 8: "Composite roof and wall cladding panel design guide"	6.35.8
Technical Paper 9: "Metal fabrications: Design, detailing and installation guide"	6.35.8
Technical Paper 10: "Fasteners for metal roof and wall cladding: Design, detailing and installation guide"	6.35.8
Technical Paper 11: "Guidance for the effective sealing of end lap details in metal roofing constructions"	6.35.8
The Metal Cladding and Roofing Manufacturers Association, 18 Mere Farm Road, Prenton, Wirral, Cheshire CH43 9TT	6.35.8
Technical Specification 12-24. Technical Specification for Plastic Ducts for Buried Electric Cables Energy Networks Association, 18 Stanhope Place, Marble Arch, London W2 2HH	13.14.2
TGN(T) 124 Design of NGC Earthing Systems National Grid plc	13.21.1
Traffic Signs Regulations and General Directions The Stationery Office Ltd, PO Box 276, London SW8 5DT	8.16.2
Transmission Plant Specification National Grid plc	15.1.26

APPENDIX VII CHECKLIST OF CLAUSES WHICH REFER TO MATTERS REQUIRING (OR WHICH MAY REQUIRE) THE CONTRACT ADMINISTRATOR TO STATE SPECIFIC REQUIREMENTS IN THE CONTRACT

The Appendix is for guidance only and does not form part of the Specification. It is the responsibility of the *Designer* to review any Clauses stated in this Specification and to add such information necessary to enable the *Contractor* to construct the works to suit the design.

The descriptions below for the specific requirements are only a summary and not necessarily exhaustive. The *Contract Administrator* is required to review the specification clause quoted in its entirety and take the appropriate action.

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
1 GENERAL			
1.2.2	Accommodation for the Contract	State durations/locations of movable accommodation	Supervisor
1.2.4	Accommodation for the Contract	State end date for removal of accommodation	Supervisor
1.2 (i)	Accommodation for the Contract	State who is to obtain consent from the Local Planning Authority (if appropriate)	Client
1.2 (iv)	Accommodation for the Contract	State details of accommodation for the Contract Administrator (Supervisor)	Client
1.2 (iv)	Accommodation for the Contract	State any arrangements (including responsibility for making arrangements, if appropriate) for disposal of all domestic types of waste	Client
1.3 (i)	Billposting and Advertising	State who is to obtain consents from the Local Planning Authority (if appropriate)	Client
1.3(ii)	Billposting and Advertising	State requirements for Notice boards required by the Client	Client
1.5(i)	Tidiness of Site	State any special storage requirements	Client
1.6.41.6.1	Entry onto the Site	State details of contacts	Client
1.6(i)	Entry onto the Site	State extent of the Site	Client
1.6.6	Entry onto the Site	State who is to obtain consents from the Local Planning Authority (if appropriate)	Client

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
1.6.6	Entry onto the Site	State who is to arrange entry onto land and who is to alert owners and occupiers of impending entry	Client
1.7.(i)	Survey of Highways, Properties and Lands	State composition and extent of surveys	Designer
1.7(ii)	Survey of Highways, Properties and Lands	State any special requirements of land used for organic farming	Designer
1.7(iii)	Survey of Highways, Properties and Lands	State the format of record survey photographs	Designer
1.8 & 1.8.4	Levels and References Points	State positions of permanent setting out stations	Designer
1.8.5	Levels and References Points	State positions of temporary setting out stations	Designer
1.8.7	Levels and References Points	State Bench mark and monitoring reference point	Designer
1.8.9, 1.8.12	Levels and References Points	State site datum levels and co-ordinates details	Designer
1.8.12	Levels and References Points	State Survey Records for verification of bench marks upon request.	Client
1.8(i)	Levels and Reference Points	State datum levels and reference points	Designer
1.9(i) & 1.9.2	Site Fencing and Gates	State locations and types of fencing including accesses and gates	Designer
1.10(i)	Interference with Land Interests	State land required for the Works	Designer
1.10(i) & (ii)	Interference with Land Interests	State any interests/special precautions required including any associated planning consents	Client / Designer
1.10(iii)	Interference with Land Interests	State availability and location of accommodation and storage area outside the Site	Client / Designer
1.11.1	Interference with any Access to Property, Apparatus or Service	State any special needs	Client / Designer
1.12(i)	Procedure for Complaints and Claims	State definition of 'promptly' as and where necessary and where there is no other contractual definition that takes precedence	Client
1.12(ii)	Procedure for Complaints and Claims	State requirements for logging and dealing with complaints and correspondence	Client
1.13(i)	Protection Against Damage	State any permanent support required	Client / Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
1.14(i)	Use of Herbicides and Pesticides/Protection of Agricultural Land	State any requirements to prevent diseases and restrictions on movement of materials	Designer
1.15(i)	Works Affecting Watercourses	State arrangements of Statutory consents relating to permanent works	Designer
1.15(ii)	Works Affecting Watercourses	State any requirements to liaise with Land Drainage Authorities	Designer
1.15(iii)	Works Affecting Watercourses	State any defined areas of restricted operations.	Designer
1.15(v)	Works Affecting Watercourses	State where the Site impinges on Aquifer Protection Zones	Designer
1.16(ii) & (iv)	Water Supply Hygiene	State any local particular requirements/local provisions	Designer
1.17.(i)	Apparatus of Statutory Undertakers, Highway or Roads Authority and Others	State details of any apparatus	Designer
1.17(iv)	Apparatus of Statutory Undertakers, Highway or Roads Authority and Others	State responsibility for carrying out diversions or removal of apparatus	Client / Designer
1.17(v)	Apparatus of Statutory Undertakers, Highway or Roads Authority and Others	State any requirements of Statutory Undertakers or public bodies including contact details	Designer
1.17.5	Apparatus of Statutory Undertakers, Highway or Roads Authority and Others	State written approval for works affecting any existing apparatus.	Client
1.17.6	Apparatus of Statutory Undertakers, Highway or Roads Authority and Others	State any positions and invert levels of existing chambers and pipes/ ducts	Designer
1.18(ii)	Traffic Requirements	State who is responsible for: <ul style="list-style-type: none"> (i) Road closures (ii) Road diversions (iii) New Roads and Street Works Act notices (iv) Temporary traffic control measures (iv) Temporary traffic control measures including notices (v) Temporary traffic control measures including notices 	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
1.18(v)	Traffic Requirements	State specific timescales for planning and coordination	Designer
1.19(i)	Emergency Arrangements	State who is responsible for site security	ClientClient
1.21(i)	Environmental and Sustainability	State client's policy	Client
1.21(iii)	Environmental and Sustainability	State required environmental or ecological surveys to be undertaken by contractor prior to the start of construction	Designer
1.21(v)	Environmental and Sustainability	State if any controlled wastes require removal from Site	Designer
1.21(ix)	Environmental and Sustainability	State any requirements of planning permission or environmental risk assessments	Designer
1.22(i)	Customer Care	State Client's Customer care policy	Client
1.23(i)	Asset Records	State details of Asset records requirements	Client
1.24(i)	Training	State details of training requirements	Client
1.25.2	Quality Assurance and Documentation	State Quality plan for works	Client
1.25.2 (ii)	Quality Assurance and Documentation	State Schedule for ensuring quality of workmanship and materials.	Supervisor
1.25.3 & 1.25.4	Quality Assurance and Documentation	State Inspection and testing plans	Supervisor
1.25.5	Quality Assurance and Documentation	State Hold and notification periods	Client
1.25.7	Quality Assurance and Documentation	State quality assurance monitoring methods	Supervisor
1.26	Method Statements	State method statements for all works	Client
1.27.1	Workmanship – General	State the manufactures instructions	Client
1.27.2	Workmanship – General	State use of non-compliant or damaged materials for approval for use within the works.	Designer
	Workmanship – General	State conflicts between the manufacturer's instructions and Standards	Client

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
1.29.2	Manuals	State quantities and formats for manuals	Client
1.30.1	Commissioning	State specific Civil Commissioning Test Schedules (CCTS) for elements of the work	Client
1.30.2	Commissioning	State Application request to start the works	Client
2 MATERIALS			
2.0.4	Materials – General	State any conflicts between the manufacturer's instructions and standards	Client
2.0.7	Materials – General	State method statement for storage, handling, protection, preparation and installation of all proprietary materials.	Client
2.0.8	Materials - General	State details of inspection for all aspects of the production and testing	Designer
2.1.3	Materials in Contact with Potable Water	State compliance with Clauses 2.1.1 and 2.1.2	Client
2.3.3	Admixtures for Concrete or Grout	State if trial tests required	Designer
2.4(i)	Aggregates for ConcreteAdmixtures for Concrete or Grout	State any restrictions on sources, types or group classifications of aggregates	DesignerDesigner
2.4(ii)2.4(i)	Aggregates for ConcreteAggregates for Concrete	State any concrete to retain aqueous liquid	DesignerDesigner
2.8(i)	Biological percolating filter media	State type of media and its nominal size and grading	Designer
2.4(ii)	Aggregates for Concrete	State any concrete to retain aqueous liquid	Designer
2.4(iv)	Aggregates for Concrete	State any specific precautions to minimise unacceptable damage from alkali-silica reaction	Designer
2.9.12.5(i)	Bitumen Road Emulsions	State information/options required by Specification or Notes for Guidance by the Highways Agency	Designer
2.12(i)2.8.1	Boards for Panelling	State types, grades, thicknesses and performance requirements	Designer
2.14.12 & 2.14.3	Bricks and Blocks	State types, classes, strengths, water absorption, freeze/thaw resistance category and soluble salt categories as well as locations	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.13.1& 2.13.3	Bricks and Blocks	State information/options required by Standards specified	Designer
2.15(i)2.13.4	Cast Stone	State types, constituent materials and colours	Designer
2.16(i)2.14	Cement	State permitted type and Design Chemical Classes as well as any pigments	Designer
2.15	Cement	State permitted type and Design Chemical Classes as well as any pigments	Designer
2.17.4	Cement Grouts	State classes and types of cements and any admixtures	Designer
2.17.9	Cement Grouts	State compressive strengths, flexural strengths and non-shrinkage characteristics	Designer
2.19.1	Compressible filler and packing for pipelines	State whether polystyrene or bitumen impregnated insulating board	Designer
2.20.1	Concrete - General	State any variations to requirements specified	Designer
2.20.2	Concrete - General	State information/options required by Standards specified	Designer
2.20.3	Concrete - General	State cementitious content if different to Specification	Designer
2.20.5	Concrete - General	State types of structure	Designer
2.20.9	Concrete - General	State information/options required by Standard specified	Designer
2.20(ii)	Concrete - General	State maximum free water/cementitious ratio to attain impermeability within 6 months	Designer
2.20(iv)	Concrete - General	State minimum cement contents where aggregate size is other than 20mm	Designer
2.20(v)	Concrete - General	State any specific precautions to minimise unacceptable damage from alkali-silica reaction	Designer
2.20(v)	Concrete - General	State any specific precautions to minimise unacceptable damage from alkali-silica reaction	Designer
2.22(i)	Concrete - Ready-mixed	State any restrictions of the use of ready-mixed concrete	Designer
2.22(iii)	Concrete - Ready-mixed	State any requirements for information concerning taking test cubes, slump or other consistence determination	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.22(iv)	Concrete - Ready-mixed	State any restrictions on use of admixtures	Designer
2.26.3	Concrete Pipes and Fittings	State jacking loads	Designer
2.26(i)	Concrete Pipes and Fittings	State information/options required by Standards specified	Designer
2.26(ii)	Concrete Pipes and Fittings	State any additional protective measures to suit the Design Sulphate Classes	Designer
2.27.1	Connectors for Timber	State information/options required by Standard specified	Designer
2.28.1	Coping Units	State types, dimensions, profile and texture	Designer
2.28(i)	Coping Units	State types of cements for cast coping units	Designer
2.28(ii)	Coping Units	State types of slate copings	Designer
2.31.2	Damp-Proof Course	State materials and details/requirements generally as well as junctions and corners	Designer
2.32 (i)	Doors, Frames and Linings	State detailed requirements for doors	Designer
2.32 (ii)	Doors, Frames and Linings	State <i>Particular requirements for wood door frames and linings</i>	Designer
2.32.6 & 2.32.7	Doors, Frames and Linings	State approval for proposed manufacturer of doors, frames and linings	Designer
3.32.22	Doors, Frames and Linings	State room/item name on Traffolyte label with black lettering on each key.	Contractor
2.33(i)	Dowel Bars	State if stainless steel required	Designer
2.35(i)	Dressed Natural Stone Kerbs, Channels, Quadrants and Setts	State sizes and types	Designer
2.36(ii)	Ductile Iron, Cast Iron and Steel Pipes, Flanges and Fittings	State types including joint types and classes	Designer
2.36(iii)	Ductile Iron, Cast Iron and Steel Pipes, Flanges and Fittings	State grades, thicknesses, types and strengths of steel pipes	Designer
2.36(v)	Ductile Iron, Cast Iron and Steel Pipes, Flanges and Fittings	State nominal pressure ratings of pipes	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.36.10, 2.36(vii) to (ix)	Ductile Iron, Cast Iron and Steel Pipes, Flanges and Fittings	State details of any required external protection to pipes	Designer
2.36(x)	Ductile Iron, Cast Iron and Steel Pipes, Flanges and Fittings	State details of any linings	Designer
2.36(xi)	Ductile Iron, Cast Iron and Steel Pipes, Flanges and Fittings	State if polyethylene factory-applied is used as an alternative to loose sleeving.	Designer
2.39.1	Fertiliser	State any variations in fertilisers shown and areas, where required	Designer
2.39.1	Fertiliser	State if chemical testing of fertilisers is required	Designer
2.39(ii)	Fertiliser	State requirements in relation to agricultural land	Designer
2.40(i)	Field Gates	State types, fittings and dimensions	Designer
2.42(i)	Fixings for Metalwork	State sizes and types of fixings including grades and minimum edge distances, centres of fixings and embedments	Designer
2.42(v)	Fixings for Metalwork	State whether axial and shear loading tests are required	Designer
2.43(i)	Flashings	State materials, thicknesses, types, grades/classes and mechanical properties	Designer
2.43.3	Flashings	State thickness code and colour code of lead flashings	Designer
2.43.4	Flashings	State materials for clips and fastenings	Designer
2.45(i) & 2.45(ii)	Floor Tiles	State material, types, sizes, thicknesses, colours / patterns, classes (and if applicable: slip resistance, effect of stains, electrical resistance and electrostatic propensity)	Designer
2.45.22.45.1	Floor Tiles	State where skirtings required	Designer
2.45.2	Floor Tiles	State areas where welding of sheets to skirting required	Designer
2.46(i)	Foamed Concrete	State where foamed concrete may be used in reinstatement	Designer
2.47(i)	Foam Swabs	State dimensions of swabs	Designer
2.47(ii)	Foam Swabs	State swab densities and coarseness	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.48(i)	Gabions and Rockfill Mattresses	State design of units including protection	Designer
2.48(ii)	Gabions and Rockfill Mattresses	State types and gradings of fill	Designer
2.49(i)	Gaskets for flanged joints and push-fit joints	State requirements for full face or inside-bolt-circle type gaskets	Designer
2.49(ii)	Gaskets for flanged joints and push-fit joints	State gasket material and type of ring	Designer
2.50.1	General Filling Materials	State classes	Designer
2.50.3	General Filling Materials	State information/options required by Specification or Notes for Guidance by the Highways Agency	Designer
2.51(ii)	Glass for Glazing	State requirements for glass	Designer
2.52(i)	Glass Reinforced Plastics (GRP) Pipes and Fittings	State sizes, pressure ratings, joint types and stiffnesses	Designer
2.53.4	Glass Reinforced Plastic Products	For cesspools, state sizes, invert depths of inlet pipes, loadings, concrete surround requirements	Designer
2.53(i)	Glass Reinforced Plastic Products	State finish colour for GRP products	Designer
2.54	Glazing Materials	State colour of sealant	Designer
2.54	Glazing Materials	State special requirements for double glazing	Designer
2.55.1	Granular Sub-base Material	State types	Designer
2.55(i)	Granular Sub-base Material	State if there is use of recycled material	Designer
2.56(i)	Grass Seed	State grass seed mixtures or any special requirements	Designer
2.58.5	Gullies and Gully Cover Slabs	State Types (I or M), classification loads, materials, dimensions/flow requirements and weathering resistance groups for precast concrete as per Standard specified	Designer
2.59.1	Gully Covers, Gratings and Frames	State loading classes and slot configurations	Designer
2.60.1	Handrails and Balusters	State loadings, types (solid or tubular), materials and grades	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.60.3	Handrails and Balusters	State information/options required by Standard specified	Designer
2.60(v)	Handrails and Balusters	State any requirements for toeboards and infill panels	Designer
	Hydrants	State any special requirements of local Fire Authority	Designer
2.61(ii)	Hydrants	State types of hydrants, dimensions of surface box frames and covers and size type and material of hydrant	Designer
2.61(iv)	Hydrants	State the direction of closure	Designer
2.62(ii)	Imported Topsoil	State any requirements for testing for club root and eelworm	Designer
2.63	Imported Turf	State any variation to grass mixes specified	Designer
2.64	Industrial Flooring, Walkways and Stair Treads	State information/options required by Standard specified	Designer
2.64.2	Industrial Flooring, Walkways and Stair Treads	State required finishes	Designer
2.64(i)	Industrial Flooring, Walkways and Stair Treads	State information required by the relevant standard	Designer
2.66.6	Joint Filler Board	State types, grades and thicknesses	Designer
2.67.10	Joint Sealing Compounds and sealants	State all manufacturers' technical literature	Designer
2.70(ii)	Ladders	State weights of galvanising	Designer
2.73(i)	Lintels	State material, dimensions, profiles and loadings as well as information/options required by Standard specified	Designer
2.74(i)	Manhole Covers and Frames	State shapes and sizes of openings as well as loading classes and if solid or open grillage	Designer
2.74(ii)	Manhole Covers and Frames	State any requirements for locking devices	Designer
2.74(v)	Manhole Covers and Frames	State maximum weights of components	Designer
2.74 (vi)	Manhole Covers and Frames	State Description of Access covers and frames	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.75(i)	Manhole Steps	State sizes, spacings and types of manhole steps	Designer
2.76(ii)	Marker Tape and Marker Posts	State any special requirements of the local Fire Authority	Designer
2.76(iii)	Marker Tape and Marker Posts	State marker tape requirements for other buried services	Designer
2.76(v)	Marker Tape and Marker Posts	State if other types of material for marker posts are used	Designer
2.77	Mastic Asphalt	State mastic asphalt roofing systems including inter alia requirements for walkway tiles	Designer
2.77	Mastic Asphalt	State if painted solar reflective material required	Designer
2.77(iii)	Mastic Asphalt	State any special requirements for use of limestone aggregates in acidic environments	Designer
2.77.8	Mastic Asphalt	State the use of high bond proprietary bitumen based primers for concrete and masonry surfaces	Designer
2.77.11	Mastic Asphalt	State any other grade of dressing compound of equal quality and performance	Designer
2.78(ii)	Mechanical Couplings for Pipelines and Fittings	State pressure ratings required	Designer
2.78(iii)	Mechanical Couplings for Pipelines and Fittings	State type of end loading restraints	Designer
2.78.6	Mechanical Couplings for Pipelines and Fittings	State the use of mechanical couplings at locations not specified in the Contract	Designer
2.80.1	Metal Ties	State information/options required by Standard specified	Designer
2.81	Mineral Aggregates for Flat Roofs	State if solar reflective material required	Designer
2.81(i)	Mineral Aggregates For Flat Roofs	State any special requirements for use of limestone aggregates in acidic environments	Designer
2.82.5	Mortar	State details of equipment proposed for gauging mix proportions on site	Designer
2.82.6	Mortar	State proposal for hand mixing mortar	Supervisor
2.82.7	Mortar	State details of the proposed method of mixing	Supervisor

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.86(i)	Nuts, Screws, Washers and Bolts	State any protective coatings required	Designer
2.86(ii)	Nuts, Screws, Washers and Bolts	State types of nuts, screws, washers and bolts	Designer
2.88.9	Paints and Painting Materials for Buildings	Provide Details of the proposed paint and painting materials' manufacturers	Designer
2.88(ii)	Paints and Painting Materials for Buildings	State types of priming paint	Designer
2.88(iii)	Paints and Painting Materials for Buildings	State paint systems	Designer
2.90(i)	Pipe Surround Materials	State any limitations on sizes and types of materials	Designer
2.91.5	Pipes for Ducts	State details of ducts	Designer
2.96(i)	Plywood	State required thickness, grade and type of bonding	Designer
2.97	Polyethylene Pipes and Fittings	State outside diameters, SDR, materials and designations, pressure ratings and, if applicable, chemical characteristics	Designer
2.97(iv)	Polyethylene Pipes and Fittings	State required short-term and lifetime surge pressures	Designer
2.97(ii)	Polyethylene Pipes and Fittings	State pressure rating	Designer
2.98(i)	Precast Concrete Slabs and Cover Frame Seating Rings	State any additional protective measures to suit the Design Sulphate Classes	Designer
2.101(i)	Precast Concrete Manholes and Soakaways	State information/options required by Standards specified	Designer
2.101(ii)	Precast Concrete Manholes and Soakaways	State any additional protective measures to suit the Design Sulphate Classes	Designer
2.103.10	Precast Concrete Segments for Tunnels and Shafts	State grouting requirements	Designer
2.103(i)	Precast Concrete Segments for Tunnels and Shafts	State types of cement	Designer
2.105(ii)	Precast Concrete Tanks	State types of seals	Designer
2.105(iii)	Precast Concrete Tanks	State concrete requirements	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.106(i)	Prestressed Concrete Pipes and Fittings	State information/options required by Standards specified	Designer
2.106(ii)	Prestressed Concrete Pipes and Fittings	State whether cylinder or non-cylinder type pipes and fittings are required	Designer
2.108	Profiled Steel Sheet	State Details and description of profiled steel sheet	Designer
2.112(i)	Rainwater Pipes and Gutters	State sections for aluminium and pvc-u gutters	Designer
2.112(ii)	Rainwater Pipes and Gutters	State grades and shapes of aluminium pipes and gutters	Designer
2.112(iv)	Rainwater Pipes and Gutters	State if ears are required on cast iron pipes and fittings	Designer
2.112(v)	Rainwater Pipes and Gutters	State colours of pvc-u pipes and fittings	Designer
2.114(i)	Roof Coverings	State materials, types, interlocking or non-interlocking, depths, regular or irregular front edges, hanging lengths, grades, cover widths, categories, classifications, groups and colours of roof covering material	Designer
2.121(i)	Steel Sheet Piles	State required grades of steel	Designer
2.123.2	Structural Steel	Provide Project Specification in accordance with the requirements of Cl. 4.1 of BS EN 1090: Part 2	Designer
2.124.11	Surface Boxes and Guards	Provide Two sets of lifting keys for surface boxes	Client
2.124(i)	Surface Boxes and Guards	State information/options required by Standards specified	Designer
2.124(ii)	Surface Boxes and Guards	State grades of covers	Designer
2.125.3	Synthetic Resin Adhesives	State types and grades of adhesives	Designer
2.126.6	Timber and Preservation of Timber	State that timber for the works is being sourced from supplies complying with the requirements of the Forest Stewardship Council	Designer
2.126 (ii)	Timber and Preservation of Timber	State the use, class, service factor and desired life category	Designer
2.126 (iii)	Timber and Preservation of Timber	Consideration in the use of reclaimed timber and any provision for its re-use	Designer
2.130(i)	Valves and Penstocks	State information/options required by Standards specified	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.130(iv)	Valves and Penstocks	State methods to control and operate valves and penstocks	Designer
2.130(vi)	Valves and Penstocks	State who is responsible for supplying turn keys for operating valves	Designer
2.130	Valves and Penstocks	State durations for site testing of penstocks	Designer
2.130(vii)	Valves and Penstocks	State torque requirements for operating valves and penstocks	Designer
2.131(i)	Vitreous Enamel Tanks	State coating types and thicknesses	Designer
2.132	Vitrified Clay Pipes and Pipeline Fittings	State classes	Designer
2.132(ii)	Vitrified Clay Pipes and Pipeline Fittings	State types of jointing and jointing materials	Designer
2.133(i)	Wall Tiles	State types, sizes, thicknesses, methods of manufacturer, water absorption, characteristic requirements and colours of tiles	Designer
2.134(ii)	Water	State alternative source of water	Designer
2.135.1	Water Fittings and Appliances	State information/options required by Standards specified	Designer
2.135.1	Water Fittings and Appliances	State, for WC pans, nominal flush volumes and flushing devices	Designer
2.135.3	Water Fittings and Appliances	State sizes of waste outlet	Designer
2.135.8	Water Fittings and Appliances	State full details of water fittings and appliances	Designer
2.136.7	Waterstops	State details of waterstops	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.138.2	Windows	State <ul style="list-style-type: none"> (i) Types (ii) Duties and modes of operation (iii) Materials (iv) Dimensions (v) Exposure classifications (vi) Protective finishes (vii) Glazing requirements (viii) Acoustic resistances (ix) Durability (x) Levels of insulation (xi) Fire resistance (xii) Locks and fittings (xiii) Ironmongery 	Designer
2.138.5	Windows	State windows not to be lockable	Client / Designer
2.139	Window Sills	State materials	Designer
2.140(i)	Wood Flooring	State types and finished thicknesses of flooring	Designer
2.141(i)	Wood Trim	State design references	Designer
2.142	Wrought Aluminium and Aluminium Alloy	State information/options required in specified Standards	
2.143.3	Anchors and Post-installed fixings	State calculations and drawings with manufacturer's recommendations for proprietary anchor systems	Designer
2.143.5	Anchors and Post-installed fixings	Provide suitable training for personnel installing proprietary anchor systems	Client
2.146	Access Covers	State clear openings, load classes and side of hinges	Designer
2.147.1	Asphalt Concrete	State information/options required by Specification or Notes for Guidance by the Highways Agency	Designer
2.165.1	Fibres for Concrete	State types and quantities	Designer
2.147.8	GRP Trench Covers	Provide lifting purposes with four sets of keys	Client
2.148.1	Insulation	State materials, thicknesses, grades and requirements stated in relevant Standard specified	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.149.1	Metal Partitions	State dimensions, duty category grades and requirements listed in the Standard specified	Designer
2.149.2	Metal Partitions	State fire duty requirements	Designer
2.151.2 & 2.151.3	Pipe Insulation	State any variations to clauses	Designer
2.152	Pipe Supports	State pipe support requirements	Designer
2.153.1	Polypropylene/ Polyethylene Twin Wall Ribbed Pipes	State information/options required by Specification or Notes for Guidance by the Highways Agency	Designer
2.154.1	Precast Concrete Units	State information/options required by Standards specified	Designer
2.155.1	Prestressing Tendons	State types and sizes	Designer
2.156.1	Roof Crawl Decking	For plywood, state requirements as required under Clause 2.94	Designer
2.157.1	Roof Fascias, Bargeboards and Soffits	State materials	Designer
2.157.1	Roof Fascias, Bargeboards and Soffits	For plywood, state requirements as required under Clause 2.94	Designer
2.158.1	Separating Membranes to Mastic Asphalt Roofing and Flooring	State information/options required by Standards specified	Designer
2.159.1	Steel Reinforcement for Masonry	State types, sizes and protection	Designer
2.193.12.159.1	Structural Aluminium	State information/options required by Standard specified	Designer
2.161.1	Substation Surfacing	In lieu of material specified, state recycled or secondary materials	Designer
2.162	Waterproofing Membranes	State specification requirements, or, if the <i>Contractor</i> is to be the specifier	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
2.162	Waterproofing Membranes	<p>For <i>Contractor's</i> design, state:</p> <ul style="list-style-type: none"> (i) Details of substrates including conditions (or whether surveys required) (ii) Results of inspections (iii) For roofs, user load categories (iv) Required working lives (v) For roofs, protective measures requirements 	Designer

3 EXCAVATION, BACKFILLING AND RESTORATION

3.1.4	Excavation	State if sides of excavations can be battered	Designer
3.1.8	Excavation	State locations and depths of pipes where cover is less than 900mm	Designer
3.1.10	Excavation	State the proposed method of excavation including temporary support arrangements as well as safety and protection of services and structures	Designer
3.1.11	Excavation	State the completion of formations to excavations for any works	Designer
3.1.12 & 3.1.14	Excavation	The sides of the trench excavation shall not be battered without the prior approval	Designer
3.1.16	Excavation	Removal of Trees	Client
3.1.17	Excavation	Re-use of material on site for haul roads	Client
3.1.19	Excavation	State details of any contaminated soil	Client
3.1.12	Excavation	State widths of trenches	Designer
3.1(ii)	Excavation	State definition of 'rock'	Designer
3.1(iii)	Excavation	State the Highway Reinstatement Specification Roles	Designer
3.1(iv)	Excavation	State any special requirements for site clearance or disposal of excavated materials	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
3.1(v)	Excavation	State details of any excavations	Designer
3.3.2	Topsoil for Re-use	State areas where topsoil is to be removed for re-use	Designer
3.3(i)	Topsoil for Re-use	Provide sufficient areas for soil stacking	Designer
3.5.1	Dealing with Water	State if water can lie within excavations	Designer
3.4.6	Dealing with Water	State method for dealing with any necessary agreements or licences	Designer
3.5(i)	Dealing with Water	State any requirements for prevention of deposition of silt and/or protection from erosion	Designer
3.6.6	Backfilling	Provide 600mm of backfill material before compaction	Designer
3.6.7	Backfilling	State type of plant to be used for compaction and its method of operation	Designer
3.6.8	Backfilling	Obtain approval before covering any formations	Designer
3.6(i)	Backfilling	State any special requirements for backfilling around mains and services	Designer
3.6(ii)	Backfilling	State any particular requirements for backfill materials	Designer
3.7(i)	Reinstatement of Maintainable Highways	State any particular requirements for the reinstatement method, materials and depths of layers	Designer
3.8(i)	Reinstatement of non-maintainable Highways	State reinstatement requirements where HAUC 'Specification for the Reinstatement of Openings in Highways' is inappropriate	Designer
3.9.7	Reinstatement of Unpaved Land	State when Spreading of Top Soil is to commence.	Designer
3.9.14	Reinstatement of Unpaved Land	State types of herbicides and locations to be applied	Designer
3.9.16	Reinstatement of Unpaved	State location of use of herbicides on site.	Supervisor
3.9.17	Reinstatement of Unpaved	State when surfaces are to receive grass seed or turf.	Designer
3.9(i)	Reinstatement of Unpaved Land	State any special grass seed mixtures required	Designer
3.9(ii)	Reinstatement of Unpaved Land	State any requirements to apply fertilisers	Designer
3.9(iii)	Reinstatement of Unpaved Land	State any special provisions for reinstatement	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
3.9(iv)	Reinstatement of Unpaved Land	State any special requirements for grass cutting and weed killing	Designer
3.12(i)	Land Drains	State any special requirements for restoration of land drainage	Designer
2.14.5	Blasting	Provide written consent for each proposal to use explosives	Client
3.14(i)	Blasting	State safe values for vibrational amplitude and peak particle velocity	Designer
3.16	Site Clearance and Demolition	State any details regarding site clearance and demolition and whether any material is to be recovered and where it is to be stored	Designer
3.16.3	Site Clearance and Demolition	State if burning of materials on site is required	Client
3.16.4	Site Clearance and Demolition	State approval for all trees which are to be removed	Designer
3.16.6	Site Clearance and Demolition	Replacement of trees which are to be preserved but are killed.	Designer
3.16.1	Site Clearance and Demolition	State any materials to be retained by the Client, and where the material is to be taken to	Designer
3.16.7	Site Clearance and Demolition	State any variations to specified requirements for dealing with underground structures	Designer
3.16.12	Site Clearance and Demolition	Provide written confirmation that all electricity and other services disconnected from the building	Client
3.16.13	Site Clearance and Demolition	State any suspicion of the existence of asbestos within the demolition work	Designer
3.16.13	Site Clearance and Demolition	Provide written details of the arrangements to safely remove the asbestos	Client
3.16.15	Site Clearance and Demolition	State approved method for removal of oil contaminated material or fill.	Designer
4 CONCRETING AND FORMWORK			
4.1.3	Supply of Information	State information/options required by Standards specified	Designer
4.2(i)	Initial Testing	State if laboratory scale mixes can be used	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
4.5(i)	Transporting, Placing and Compacting	State any requirements for placing concrete in special sequence	Designer
4.5(iii)	Transporting, Placing and Compacting	State any variations to delivery times specified in Standard specified	Designer
4.5(iv)	Transporting, Placing and Compacting	State any requirements for testing fresh concrete	Designer
4.7(i)	Concrete Temperature	State upper temperature if reduced	Designer
4.8.1	Curing	State curing periods if different to Specification	Designer
4.10.2	Construction of Formwork	State the details for a consistent quality of surface produced by the formwork.	Designer
4.10(ii)	Construction of Formwork	State positions and details of movement joints	Designer
4.10(iii)	Construction of Formwork	State any conditions on re-use of forms	Designer
4.10(iv)	Construction of Formwork	State any requirements in relation to chambers to internal angles	Designer
4.12(i)	Striking of Formwork	State any requirements for procedure for determining strike times	Designer
4.12(v)	Striking of Formwork	State any requirements for control of thermal cracking	Designer
4.13(i)	Sloping Formwork	State any requirements for top formwork at slopes flatter than 30° to the horizontal	Designer
4.14.2	Cutting and Bending of Reinforcement	State the requirement for reinforcement to be straightened or re-bent	Designer
4.14.3	Cutting and Bending of Reinforcement	Provide visual inspection for any reinforcement which has been re-bent or straightened	Supervisor
4.14.5	Cutting and Bending of Reinforcement	State details of any cutting, bending or straightening of coated rebar required	Designer
4.14.6	Cutting and Bending of Reinforcement	State details of any site repairs to coated rebar	Designer
4.14.7	Cutting and Bending of Reinforcement	State locations and details of any mechanical splices including materials for repair of damage coatings	Designer
4.14(i)	Cutting and Bending of Reinforcement	State requirements for dealing with health and safety issues	Designer
4.15.3	Fixing of Reinforcement	State concrete cover	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
4.16(i)	Surface Condition of Reinforcement	State any protection required for steel left projecting	Designer
4.17.1	Laps and Joints	State positions of laps and joints in reinforcement	Designer
4.18.1	Welding of Reinforcement	State locations/details of any welding of reinforcement is allowed	Designer
4.20.1	Construction Joints	State positions and types of construction joints, if appropriate as well as heights of kickers	Designer
4.20.4	Construction Joints	State locations and details where top surface of each lift of concrete is not straight and level	Designer
4.20.8	Construction Joints	State any proposal for reversing steel reinforcement detailing as a consequence of changes to construction joints	Designer
4.21(ii)	Surface Finishes Produced without Formwork	State required finish types or any other required finishes	Designer
4.22.1	Surface Finishes Produced with Formwork	State required finish types or any other required finishes	Designer
4.22(ii)	Surface Finishes Produced with Formwork	State if test panels are required and provide details	Designer
4.23(i)	Wearing Screeds	State classes of abrasion resistance required and thicknesses	Designer
4.25(i)	Tolerance for Concrete Surfaces	State any variations to tolerances	Designer
4.26(i)	Grout Quality Control Testing	State grout strength requirements	Designer
4.31.1	Sample Finishes	State if and details of any trial panels of concrete finishes	Designer
4.32.1	Loading of Structures	Demonstrate the concrete has reached sufficient strength to support temporary works to ensure concrete members are not over loaded	Designer
4.34.1	Prestressed Concrete - General	State Inspection Class 2 in lieu of Class 3 if appropriate	Designer
4.34.1	Prestressed Concrete - General	State any other inspections required not included in the specified Standard. eg Inlets, outlets, mortar of filling anchorage recesses	Designer
4.35.1	Positioning of Sheaths and Duct Formers	State locations	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
4.36	Installation, Tensioning and Load Transfer of Prestressing Tendons	Specify concrete strengthes at load transfer at stressing stages	Designer
4.38	Holding Down Bolt Assembly	State any holding down bolts testing requirements	Designer
4.38.1 & 4.38.2	Holding Down Bolt Assembly	State setting out positions of bolts	Designer
4.38.8	Holding Down Bolt Assembly	State any variations to grout footprints and cover to spacers	Designer
4.38.9	Holding Down Bolt Assembly	State, if appropriate, use of dry packing mortar or concrete	Designer
4.39.5	Sprayed Concrete	State inspection categories as per Standard specified	Designer

5 CONSTRUCTION OF PIPELINES AND ANCILLARY WORKS

5.1(iv)	Pipelaying generally	State minimum depth of cover	Designer
5.2(i)	Pipe Bedding	State requirements for puddle clay stanks	Designer
5.2(ii)	Pipe Bedding	State details of pipe bedding, surround and sidefill	Designer
5.2.5	Pipe Bedding	State the method of compaction for approval	Designer
5.4.1	Pipe Surround	State types of pipe surrounds	Designer
5.5.2	Pipe laying in Headings	State lengths of headings	Designer
5.5.4	Pipelaying in Headings	State if grouting of heading is required	Designer
5.6(i)	Thrust Blocks	State details of thrust blocks	Designer
5.7.7	Pipe Jointing Generally	State method statements for pipes being laid to curves	Designer
5.7(i)	Pipe Jointing Generally	State any special requirements for filling the joint annulus	Designer
5.8.4	Welded joints in polyethylene pipes	State if jointing method requires electro fusion jointing	Designer
5.8.6	Welded joints in polyethylene pipes	State location and date of dummy joints	Designer
5.8.8	Welded joints in polyethylene pipes	State weld bead removal references for inspection.	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
5.8.9	Welded joints in polyethylene pipes	State details of parameters for fusion joints	Designer
5.8(i)	Welded joints in polyethylene pipes	State if weld test is required	Designer
5.9(i)	Flanged Joints	State any special requirements for types of flange gaskets	Designer
5.10(i)	Ogee Joints	State any required jointing materials (mastic or cement mortar)	Designer
5.11(ii)	Welded Joints in Steel Pipes	State types of welded joint	Designer
5.11(iii)	Welded Joints in Steel Pipes	State frequencies and types of testing	Designer
5.14(i)	Protection of Ferrous Pipes, joints and Fittings	State any limitations on types of external or internal protection	Designer
5.14(ii)	Protection of Ferrous Pipes, joints and Fittings	State types of external protection	Designer
5.14(iv)	Protection of Ferrous Pipes, joints and Fittings	State any requirements for cathodic protection	Designer
5.16(i)	Precast concrete manholes	State type of jointing material	Designer
5.18(i)	Inverts and Benching	State benching material and surface finish	Designer
5.18.1 & 5.18.4	Inverts and Benching	State whether wearing screed is required	Designer
5.21.1	Setting Manhole Covers and Frames	State if manhole frames to be set on brickwork or precast concrete frame seating rings	Designer
5.21.6	Installation and setting of manhole and access covers and frames	State the level for fitting the frame to the surface level	Designer
5.21.8	Installation and setting of manhole and access covers and frames	State if non-slip exterior coating system is required	Designer
5.21(i)	Setting Manhole Covers and Frames	State if bedding of frames on resin mortar or haunching in concrete instead of mortar is required	Designer
5.23(i)	Sewers and Manholes to be Abandoned	State materials required for fillings	Designer
5.23(ii)	Sewers and Manholes to be Abandoned	State any requirement for clearing sewers prior to filling	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
5.25	Marker and Indicator Posts	State where concrete identification tiles or PVC warning tapes are to be laid	Designer
5.25	Marker and Indicator Posts	State required locations of marker posts	Designer
5.26.1	Tolerances for pipelines	State if the line or level of any pipeline deviates from that described in the contract	Designer
5.26(i)	Tolerances for pipelines	State requirements for more stringent tolerances	Designer
5.26(ii)	Tolerances for pipelines	State if a larger tolerance for line is required and level	Designer
5.27.9	Cable Ducts	Provide survey records for route of cable ducts	Client
5.27.10	Cable Ducts	State extents of concrete protection	Designer
5.32(i)	Temporary water supply mains	State arrangements for maintenance and removal of temporary water supply	Designer
5.32(ii)	Temporary water supply mains	State arrangements for the protection of temporary mains	Designer
5.33(ii)	Temporary water supply mains	State the fill material	Designer
5.34.1	Connections to/disconnections of existing apparatus	State if connections and/or disconnections of existing apparatus are to be made	Client
5.34.2	Connections to/disconnections of existing apparatus	State any discrepancies of chambers and pipes positioning and invert levels	Designer
5.35	Service Duct Trenches	State method for changes in direction of service duct trenches exceeding 30°	Designer

6 BUILDING WORKS

6.1.4	Brickwork and Blockwork Generally	State any variation to Specification for height of brickwork/blockwork raised	Designer
6.1.13	Brickwork and Blockwork Generally	State any variations to specification for work below DPC	Designer
6.1(i)	Brickwork and Blockwork Generally	State any requirements for rendering manholes and chambers	Designer
6.1(ii)	Brickwork and Blockwork Generally	State the bond	Designer
6.1(iii)	Brickwork and Blockwork Generally	State the required class of mortar and type of cement	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
6.2.6	Brickwork and Blockwork, Jointing and Pointing	State type of pointing cutting or chasing of brickwork for approval	Designer
6.2.15	Brickwork and Blockwork, Jointing and Pointing	State bonding method where normal bonding is not possible due to dimensional reasons	Designer
6.2(i)	Brickwork and Blockwork, Jointing and Pointing	State type of jointing and pointing	Designer
6.2(ii)	Brickwork and Blockwork, Jointing and Pointing	State if sample areas required and provide details	Designer
6.3.1	Cavity Walls	State sizes of cavities	Designer
6.3(i)	Cavity Walls	State if cavities require filling with insulation and provide details	Designer
6.4.1	Damp-Proof Course	State details of DPC	Designer
6.7(i)	Underpinning	State details of underpinning, if appropriate	Designer
6.9.3	Bricklaying and block laying in cold weather	State method of bricklaying and block laying in cold weather	Designer
6.10(i)	Preparation for Plastering	State types of scrim material	Designer
6.10(ii)	Preparation for Plastering	State if joints are to be cut or covered	Designer
6.11.6	Fixing of Plasterboard	State the method of mechanical jointing techniques	Designer
6.11.7	Fixing of Plasterboard	State if bed corner jointing tape will be used for external angles	Designer
6.12.2	Plastering	State if three coat work is to be applied	Designer
6.12.7	Plastering	State the method of plastering if mechanical application methods are to be used	Designer
6.12.13	Plastering	State variations to finishes specified	Designer
6.14.5	Concrete Floor Finishes	State type of screed	Designer
6.14.6	Concrete Floor Finishes	State details of any proposed admixtures and bonding agents.	Designer
6.14.8	Concrete Floor Finishes	Provide manufacturers or suppliers literature	Designer
6.14.10	Concrete Floor Finishes	State proposed method of cracked concrete good.	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
6.14.14	Concrete Floor Finishes	State detail of proposed construction joints	Designer
6.14.17	Concrete Floor Finishes	State any variations to tolerances to suit specific finish requirement, if appropriate	Designer
6.14(i)	Concrete Rendering Finishes	State information/options required by Standards specified	Designer
6.15.3	Floor Tiling	State details of proposed floor tiles	Designer
6.15.26	Floor Tiling	Provide manufacturers or suppliers literature	Designer
6.15.28	Floor Tiling	Provide manufacturers or suppliers literature	Designer
6.15.30	Floor Tiling	Provide setting out layout drawings for tiles	Designer
6.17..2	External Rendering	State the method of rendering if mechanical application methods are proposed for use	Designer
6.17.6	External Rendering	State details of panels of rendering work for each background substrate for approval	Designer
6.18.2	Wall Tiles	State and provide details if sample reference panels of tiling required	Designer
6.18.3	Wall Tiles	State details of inspection and texting of tiles if required to do so	Designer
6.18.6	Wall Tiles	State the type of adhesive	Designer
6.18.7	Wall Tiles	State grout type for tiles	Designer
6.19.2	Carpentry and Joinery	State finished sizes, if applicable, finishes and shapes	Designer
6.19.5	Carpentry and Joinery	State details of any damaged or stressed timber intended for use	Designer
6.19.15	Carpentry and Joinery	State the proposed use of joints over bearings.	Designer
6.19.25	Carpentry and Joinery	State proposed types and locations of framing anchors	Designer
6.21.6	Roofs	State proposed method of erecting trussed rafters	Designer
6.21.7	Roofs	State details of any inaccuracies of setting out and levels	Designer
6.22.1	Timber Floors	State methods of fixing joists to walls and trimming requirements	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
6.22(i)	Timber Floors	State thicknesses of boarding	Designer
6.22(ii)	Timber Floors	State if clipboard is to be used	Designer
6.23.7	Door Frames	State submission of manufactures information	Designer
6.24(i)	Windows	State security requirements for windows and doors	Designer
6.26.5	Painting	State with details if sample areas of painted systems required	Designer
6.26.7	Painting	State the methods of application for each type of paint	Designer
6.26.10	Painting	State if roller painting is required	Designer
6.27(i)	Slating and Tiling	State details of laps, battens, fixings and beddings	Designer
6.29.5	Asphalt Roofing	State details of the specialist contractor installing the asphalt roofing	Designer
6.29.6	Asphalt Roofing	State details of metal primers	Designer
6.29.16	Asphalt Roofing	State proposed sizes of bays to be used	Designer
6.30(i)	Bitumen Felt Roofing	State surface finishes required	Designer
6.31	Plumbing	State location of overflows, if applicable	Designer
6.31.14	Plumbing	State colour codes or lettering for all pipelines, valves and equipment	Designer
6.32	Openings in Walls, Floors and Ceilings	State requirements for reinforcement around openings in blockwork and brickwork	Designer
6.32.1	Openings in Walls, Floors and Ceilings	State where tube sleeves to be provided	Designer
6.32.3	Openings in Walls, Floors and Ceilings	State arrangements under bearings if not in accordance with Specification	Designer
6.33.1	Tolerances for Building Works	State any variations to tolerances in Standard specified	Designer
6.35.7	Profiled Steel Cladding	State any material conforming to the systems to be used in the works	Designer
6.36.3	Precast Concrete Floors	State masonry strengths	Designer
6.36.4	Precast Concrete Floors	State sequences of placing in-situ structural topping	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
6.38.8	Soil, Waste, Ventilation and Rainwater Pipework and Fittings	State jointing between above and below ground pipework if variation to specification	Designer
6.40.1	Repairs to Plaster and Dry Lining	State method of repairing damage to plasterwork and/or dry lining	Designer
6.42.1	Raised Access Floors	State sealant requirements under floor void (P13.03)	Designer
6.43.8	Asphalt Flooring	State the proposed use of heated cauldrons	Designer
6.43.9	Asphalt Flooring	State the proposed layout of bays	Designer
6.44.1	Mastic Asphalt Flooring	State information/options required by Standards specified	Designer
6.44.3	Mastic Asphalt Flooring	State if isolating membranes required	Designer
6.45.8	Lead Flashing	State types and positions of fixings	Designer
6.45.8	Lead Flashing	State where lead flashings to be dressed into dished hollows	Designer
6.56.5	Transformer Noise Enclosure	State colour if not as specified	Designer
6.46.2	Caulking and sealing joints	State evidence of suitable training for personnel caulking and sealing joints	Designer
6.46.3	Caulking and sealing joints	Provide sample of joint lengths to check proposed method of working is compliant	Designer
6.46.11	Caulking and sealing joints	State notification when cavities of joints have been prepared for filling.	
7 TESTING AND DISINFECTION			
7.1(i)	Cleansing and swabbing of pipelines	State pipeline cleaning system	Designer
7.1(ii)	Cleansing and swabbing of pipelines	State type of swabs and number of passes	Designer
7.4(i)	Testing of Non-Pressure Pipelines	State types of tests required	Designer
7.5.2	Water Test for Non-Pressure Pipelines	State any variations to flow rate loss specified	Designer
7.5.4	Water Test for Non-Pressure Pipelines	State method of testing head and the permissible loss of water	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
7.7(i)	CCTV Inspection of Pipelines	State if CCTV inspections required	Designer
7.9.7	Testing of Ductile Iron, PVC, GRP and Steel Pressure Pipelines	State test plan for approval	Designer
7.9.8	Testing of Ductile Iron, PVC, GRP and Steel Pressure Pipelines	Provide all test and examination documentation	Designer
7.9(ii)	Testing of Ductile Iron, PVC, GRP and Steel Pressure Pipelines	State if water loss or pressure loss method of testing would be applied	Designer
7.9(iv)	Testing of Ductile Iron, PVC, GRP and Steel Pressure Pipelines	State any constraints on lengths of sections of pipelines	Designer
7.9(v)	Testing of Ductile Iron, PVC, GRP and Steel Pressure Pipelines	State test pressures	Designer
7.10.4	Testing of Polyethylene Pressure Pipelines	State pipe rated pressures or working pressures of systems as applicable	Designer
7.10(i)	Testing of Polyethylene Pressure Pipelines	State any constraints on lengths of sections of pipelines	Designer
7.10(ii)	Testing of Polyethylene Pressure Pipelines	State test pressures	Designer
7.11.5	Disinfection of Water Mains	State test plan for approval	Designer
7.11(i)	Disinfection of Water Mains	State sampling parameters	Designer
7.11(ii)	Disinfection of Water Mains	State any specific requirements for bringing water mains back on line	Designer
7.11(iii)	Disinfection of Water Mains	State timescale for receiving the sample results	Designer
7.13(i)	Testing of Concrete Roofs	State which test (lagooning or hosing) to subject roofs to	Designer
7.15(iii)	Disinfection of Structures for Potable Water	State sampling parameters	Designer
7.15(v)	Disinfection of Structures for Potable Water	State timescales for sample result return	Designer
7.15(iv)	Disinfection of Structures for Potable Water	State organisation responsible for taking samples	Contractor

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
7.15(vi)	Disinfection of Structures for Potable Water	State the period within which the Client should make the sample test results available to the Contractor	Designer
7.15(vii)	Disinfection of Structures for Potable Water	State the advance period notice for taking of samples	Designer
7.16(i)	Water for Testing, Swabbing and Disinfection	State any constraints relating to temporary supply including flow rates, pressures, locations of supply and periods of notice required for making supplies available	Designer
7.16(ii)	Water for Testing, Swabbing and Disinfection	State requirements for bridging pipework	Designer
7.16(iii)	Water for Testing, Swabbing and Disinfection	State the arrangements for recording and reporting volumes of water used for testing, swabbing and disinfection	Designer
7.17.1	Disposal of Water from Cleansing, Testing or Disinfection	Where disposal is to a National Grid system, state any limitations on flow rates for discharges	Client / Designer
7.18(i)	Testing of Non-Concrete Structures for Retaining Aqueous Liquids	State tests for non-concrete roofs	Designer
7.18(ii)	Testing of Non-Concrete Structures for Retaining Aqueous Liquids	State the method for assessing the change in water level together with a reasonable interpretation of "no discernible change".	Designer
7.20.1	Testing General	State details of all testing carried out on fabricated components and workmanship on and off site	Designer
7.20.2	Testing General	State any test failures	Designer
7.21.2	Testing of Pipelines - Line and Level	State if mirror tests cannot be applied	Designer
7.21.6	Water Test for manholes and other chambers	State if any test failures occur	Designer
7.22.2	Testing of pipelines – line and level	State if mirror test cannot be applied	Designer
7.24.1	Testing of Bunded Areas	State water test retention levels if different to that specified	Designer
7.25.2	Testing of bunded areas	State, if required, the reduction of the water level for the retention test	Designer
7.27.3	Cable Ducts	State details of the mandrel	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
7.34.1	Inspection and Checking of Protective Treatments to Steelwork	State reference areas and any additional testing to the items included in the Standard specified	Designer
7.34.4	Inspection and Checking of Protective Treatments to Steelwork	State definition of a 'inspection lot'	Designer
7.34.5	Inspection and Checking of Protective Treatments to Steelwork	State classifications in accordance with Standard specified	Designer
7.34.6	Inspection and Checking of Protective Treatments to Steelwork	State methods, numbers and locations of adhesion tests in accordance with Standard specified	Designer
7.35.3	Inspection and Testing of Fire Protection Systems	State numbers of thickness tests	Designer
7.36.4	Quality Control of Masonry	State site controlled test intervals	Designer
7.36.7	Quality Control of Masonry	State test results	Designer
7.36.9	Quality Control of Masonry	State inspection procedure for masonry	Designer
7.36.9	Quality Control of Masonry	State design Standard used and workmanship classifications	Designer
7.39.1	Testing of Built-up Roofing Systems	State requirement of testing of built-up roofing systems	Designer
7.39.2	Testing of Built-up Roofing Systems	State the results of the test	Designer
7.39.3	Testing of Built-up Roofing Systems	State details of proposed test	Designer
7.40.2	Testing of asphalt roof	State results of the test	Designer
7.41.2	Testing of Mastic Asphalt	State results of the test	Designer
7.43.3	Testing of Floor Finishes	State testing requirements and locations in accordance with Standard specified	Designer
7.44.3	Testing of Raised Access Floor Systems	State performance testing requirements from publication stated (P14.00)	Designer
7.44.1	Testing of Raised Access Floor Systems	State Testing requirements with standards specified	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
7.44.2 (vi)	Testing of Raised Access Floor Systems	State electrical resistance test requirements	Designer
7.47.1	Testing of Proprietary Anchor Systems	State which resin anchors are not safety critical	Designer
7.49.1	Testing of Painted Coatings to Transformer Noise Enclosures	State number of dry film thickness tests	Designer
7.50	Piling and Embedded Retaining Walls	State testing requirements	Designer
7.50.2	Piling and Embedded Retaining Walls	State any information/ options required from publication specified	Designer
7.52.2	Testing of Fill Material	State information/options required by Specification or Notes for Guidance by the Highways Agency	Designer
7.52.3	Testing of Fill Material	State results of compaction tests	Designer
7.52.4	Testing of Fill Material	State details of proposed trial areas for testing for filling and embankment operations	Designer
7.52.6	Testing of Fill Material	State information/options required by Specification or Notes for Guidance by the Highways Agency	Designer
7.52.7	Testing of Fill Material	State details of all test results within given timeframe	Designer
7.53.4	Accuracy of Levels and Reference Points	State any variations to Specification	Designer
7.53.6	Accuracy of Levels and Reference Points	State any results of tests which shows details of non-compliance	Designer
7.53.8	Accuracy of Levels and Reference Points	State details of results	Designer

8 ROADWORKS

8.1(i)	Road Formations	State cross section of road including pavement thicknesses and materials as well as positions and types of joints	Designer
8.2(ii)	Sub-base construction	State description if a lean-mix concrete sub-base is required	Designer
8.9(i)	Laying Concrete Carriageways	State positions and details of movement joints	Designer
8.10.1	Laying Kerbs and Channels	State type of joint if not butt-jointed	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
8.10.3	Laying Kerbs and Channels	State alignment of kerbs and channels	Designer
8.10(i)	Laying Kerbs and Channels	State details of bed and haunch	Designer
8.11(i)	Foundations for Footways	State cross section of road including pavement thicknesses and materials as well as positions and types of joints	Designer
8.12.1 & 8.12.2	Laying Concrete Paving Flags	State site category, laying pattern and required cross falls	Designer
8.13.2	Laying Paving Blocks	State type of pavement (ie conventional or permeable), laying pattern (eg herringbone) and laying course material category (ie BS 7533: Parts 3 or 11)	Designer
8.14.1	Tolerances for Finished Carriageway Surfaces	State finished levels	Designer
8.14.3	Tolerances for Finished Carriageway Surfaces	State results of surveys	Designer
8.15.1	Fixing of Gullies	State locations of gullies	Designer
8.16.4	Lining and Signage	Provide fabrication drawings of traffic signs for approval	Designer
8.16.5	Lining and Signage	State details of road studs	Designer
8.18.1	General	State information/options required by Specification or Notes for Guidance by the Highways Agency	Designer
8.19.1	Compaction of Road Pavement Layers	State details of construction plant	Designer
8.20.1	Compaction of Road Pavement Layers	State information/options required by Specification or Notes for Guidance by the Highways Agency	Designer
8.20.2	Inspection and Testing of Roadworks	State details of location of any demonstration trials	Designer
8.20.5	Inspection and Testing of Roadworks	Provide records of appropriate tests or surveys	Designer

12 STRUCTURAL STEELWORK AND ALUMINIUM

12.1.1	General	Produce Particular Specification for steelwork in accordance with Standard specified	Designer
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CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
12.1.1	General	For aluminium, state executive classes, tolerance classes, service categories, quality levels (BS EN ISO 10042) and other quality requirements in accordance with Standard specified	Designer
12.1.2	General	State items in Standard specified including thickness (ie 85 or 140 microns for non-fasteners)	Designer
12.3.1	Forming of Aluminium	For formed aluminium, state details of testing to determine no detrimental effects to the material properties have occurred as a result of forming operations	Designer
12.4.1	Welding	State details of all documents required by welding standards	Designer
12.4.2	Welding	State details of any repair welds, welded attachments, supports and fabrication aids	Designer
12.4.3	Welding	State method of achieving butt welds with full throat thickness on rolled sections	Designer
12.4.5	Welding	State details of qualifications for all welding personnel	Designer/Client
12.5.1	Welding of Structural Hollow Sections	State method of achieving the correctly shaped end of a hollow section	Designer
12.7.4	Bolting – General	State the use of electrically driven impact wrenches.	Designer
12.9.1	Preloadable Bolts	State the proposed method and procedure for tightening preloadable bolts	Designer
12.13.2	Erection of Steelwork	State detail of shims if used for the erection of steelwork	Designer
12.15.1	Protection of Steelwork	State details of jointing grease	Designer
12.17.2	Protective Treatment for Steelwork	State protective coating system type and details including required Design life	Designer
12.17.2	Protective Treatment for Steelwork	State any variations to Standard specified	Designer
12.17.5	Protective Treatment for Steelwork	State if sprayed metal coating is to be used	Designer
12.17.6	Protective Treatment for Steelwork	Provide plate sample for approval	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
12.17.11	Protective Treatment for Steelwork	State if sprayed aluminium coating is to be used	Designer
12.18.1	Fire Protection to Steelwork	State fire protection requirements including defining areas to be protected and protective rating level	Designer
12.18.2	Fire Protection to Steelwork	State details of personnel	Designer
12.18.6	Fire Protection to Steelwork	State proposals for all fire protection to steelwork	Designer
12.18.8	Fire Protection to Steelwork	Provide samples of steel which has fire protection treatment	Designer
12.18.9	Fire Protection to Steelwork	State proposed method of application for specific locations	Designer
12.18.13	Fire Protection to Steelwork	Provide Samples of Surface finish	Designer
13 MINOR ELECTRICAL WORKS			
13.1.2	Electrical Installations	State design requirements including cable schedules	Designer
13.3.2	Identification of Tables	State sizes of copper earth tapes	Designer
13.3.4	Identification of Cables	State cable reference numbers applicable	Designer
13.4.3	Cables	Provide Cables identification labels upon request	Designer
13.9.7	Distribution Boards Installation	State details of each type of proposed distribution panel.	Designer
13.11.20	Final Circuit and Conduit Installation	State if holes are needed to be drilled into structural steelwork or pre-stressed concrete	Designer
13.11.21	Final Circuit and Conduit Installation	State details where cartridge fired bolts are proposed for use	Designer
13.11.27	Final Circuit and Conduit Installation	State details of male bushes for use in accessory boxes	Designer
13.11.27	Surface Cable Installation	Provide Samples and technical data sheets of each type of cable trays	Designer
13.14.1	Conduits and fittings for electrical installations	Provide information to determine the specification requirements for an electrical installation design.	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
13.14.5	Conduits and fittings for electrical installations	State details of any proposal to use elbows and tees	Designer
13.14.9	Conduits and fittings for electrical installations	State details of non-ferrous metal floor traps for approval	Designer
13.17.7	Distribution Circuit Components	State method and provide drawings of mounting extractor fans for approval	Designer
13.19.2	Fluorescent Lighting Installations	State details of types of luminaries	Designer
13.22.8	Terminations – Panel on Oil Containment Scheme	State details of the mechanical security of the crimp termination for approval	Designer

14 MAINTENANCE PAINTING OF SUBSTATION PLANT, EQUIPMENT AND STRUCTURES

No clauses requiring input from the Contract Administrator

15 MECHANICAL AND ELECTRICAL EQUIPMENT

15.1	Bund Water Control Units	State if deluge pressure switches required	Designer
15.1	Bund Water Control Units - General	State alternative to automatic control and monitoring, if applicable	Designer
15.1	Bund Water Control Units - General	State: (i) Any thermal transmittance requirements (ii) In the case of existing roofs, allowable imposed loads	Designer
15.1.3	Bund Water Control Units - General	State limits of extracting oil	Designer
15.1.5	Bund Water Control Units - General	State any variations to the components of bund control water unit	Designer
15.1.12	Bund Water Control Units - Pumps	State lengths of hoses required	Designer
15.1.14	Bund Water Control Units - Pumps	State lengths of fly leads	Designer
15.1.18	Bund Water Control Units - Pumps	State probe settings	Designer
15.1.20	Bund Water Control Units - Pumps	State lengths of fly leads	Designer

CLAUSE	TITLE	SPECIFIC REQUIREMENTS	CONTRACT ADMINISTRATOR DEFINITION
15.1.26	Bund Water Control Units - Control Units - Control Unit Equipment	State any variations to alarm signals routing	Client
15.2	Oil Separators	State details including sizes, outlet and inlet sizes, orientation, inverts, pressures from ground and groundwater and maintenance loads	Designer
15.2.9	Oil Separators	State sizes of turrets if not 750mm diameter	Designer
15.2.9	Oil Separators	State details of covers to turrets	Designer
15.2.41	Oil Separators	State arrangements for electricity supplies and telecommunications	Designer
15.2.42	Oil Separators	State unique asset identification references	Designer

APPENDICES

Appendix IX - Cl. 1.31.2	Design of permanent works by the Contractor	Minimum number of working days required for approval	Designer
Appendix IX - Cl. 1.31.3	Design of permanent works by the Contractor	Minimum number of working days required for approval	Designer
Appendix IX - Cl. 8.17.1	Roadworks - General	Minimum number of working days required for approval	Designer
Appendix IX - Cl. 12.1.2	Structural Steelwork and Aluminium - General	Minimum number of working days required for approval	Designer
Appendix IX - Cl. 12.4.1	Welding	Minimum number of working days required for approval	Designer
Appendix IX - Cl. 13.1.2	Electrical Installations	Minimum number of working days required for approval	Designer

APPENDIX VIII NOT USED

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APPENDIX IX NOTIFICATION AND HOLD POINTS

Note: The “minimum number of working days required” stated in the table below, is the minimum number of working days, which the *Contract Administrator* requires

- e) from submission of the relevant notification to the day of the event
- or
- f) from submission of all sufficient, satisfactory information by the *Contractor* to the day, when the *Contract Administrator* will give approval or not

The descriptions below for the specific requirements are only a summary and not necessarily exhaustive. The *Contractor shall* review the specification clause quoted in its entirety and take the appropriate action.

CLAUSE REF	ASPECT	NOTIFICATION (N) OR HOLD (H)	MINIMUM NO. WORKING DAYS REQUIRED	CONTRACT ADMINISTRATOR DEFINITION
1 GENERAL				
1.2.5	Submission of details of siting of accommodation	H	10 days (prior to setting up accommodation)	Supervisor
1.6.6	Notification of commencement of work within each area of ownership or occupation	H	140 days (prior to entry of each area)	Supervisor
1.7.2	Commencement of survey of highways, properties and lands	H	20 days (prior to survey)	Supervisor
1.7.5	Submission of results of survey of highways, properties and lands	H	20 days (prior to commencement of works in vicinity)	Supervisor
1.8.7	Submission of information regarding bench marks, setting out stations and monitoring points	H	5 days (prior to their use)	Supervisor
1.8.4	Agreement to locations of permanent bench marks	H	5 days (prior to proposed use)	Supervisor
1.8.5	Agreement to construction of Temporary Setting Out Points, Temporary Bench Marks and Monitoring Reference Points	H	5 days (prior to setting out)	Supervisor
1.8.9	Agreement to Site Datum levels and co-ordinates	H	5 days (prior to setting out)	Supervisor
1.8.12	Submission of co-ordinates and levels of Permanent Setting Out Stations	H	5 days (prior to their use)	Supervisor

CLAUSE REF	ASPECT	NOTIFICATION (N) OR HOLD (H)	MINIMUM NO. WORKING DAYS REQUIRED	CONTRACT ADMINISTRATOR DEFINITION
1.8.21	Submission of details of survey methods and equipment	H	5 days (prior to their use)	Supervisor
1.10.3	Notification of arrangements of wayleaves or accommodation outside the Site	H	10 days (prior to affecting each area outside Site)	Supervisor
1.11.1	Notification of interference with access to property, apparatus or service	H	10 days (prior to interference)	Supervisor
1.12.1	Notification of any damage or injury due to execution of the Works	H	Immediate	Supervisor
1.12.2	Submission of details of complaints, claims or warnings	H	Immediate	Supervisor
1.13.3	Notification of any leakages or damage to services, highways or roads	H	Immediate	Supervisor
1.14.1	Submission of information regarding use of herbicides and pesticides	H	10 days (prior to procurement)	Supervisor
1.15.1	Notification of works affecting watercourses, canals, lakes, reservoirs, boreholes, aquifers or catchment areas	H	10 days (prior to works affecting the aspect)	Supervisor
1.17.2	Notification of diversions and abandonment of services	H	10 days (prior to proposed works)	Supervisor
1.17.6	Submission of information highlighting any differences between apparatus information provided by the Contract and actual details surveyed on Site	H	10 days (prior to works affected by the information)	Supervisor
1.18.2	Submission of details regarding methods of working in relation to traffic requirements	H	5 days (prior to proposed works)	Supervisor
1.18.3	Submission of details of the requirements of the Highways or Roads and Police Authorities	H	Immediate but not less than 5 days prior to undertaking the works affected	Supervisor
1.18.7	Submission of list of operatives on Site with accreditation for NRSWA	H	Immediate when changed	Supervisor
1.19.1	Submission contact details for organising emergency works	H	Immediate when changed	Supervisor

CLAUSE REF	ASPECT	NOTIFICATION (N) OR HOLD (H)	MINIMUM NO. WORKING DAYS REQUIRED	CONTRACT ADMINISTRATOR DEFINITION
1.20.1	Submission of details for bring hazardous substances to Site	H	10 days (prior to procurement of such substances)	Supervisor
1.20.2	Submission of details of locations of each explosives magazines and stores or any other hazardous substances	H	10 days (prior to procurement of such substances)	Supervisor
1.25.2	Submission of Quality Plan for the Works	H	20 days (prior to commencement of work)	Supervisor
1.25.8	Submission of Quality Plans for works by sub-contractors	H	10 days (prior to commencement of work)	Supervisor
1.26.1	Submission of method statements	H	10 days (prior to commencement of work)	Supervisor
1.27.1	Submission of manufacturers' information	H	10 days (prior to procurement of item)	Designer
1.27.2	Submission of request and details for use of damaged or non-compliant materials	H	5 days (prior to use of material)	Supervisor / Designer
1.27.4	Submission of details of conflicts between manufacturers' instructions and Standards/ Specifications	H	10 days (prior to procurement of item)	Supervisor / Designer
1.28.1	Submission of request and details for permanent retention of temporary works	H	10 days (prior to works affecting retention or removal of item)	Supervisor / Designer
1.30.1	Submission of commissioning programme and detailed Civil Commissioning Test Schedules	H	20 days (prior to commissioning)	Supervisor / Designer
1.30.2	Notice for commencement of commissioning	H	5 days (prior to commencement of commissioning)	Supervisor / Designer

2 MATERIALS

2.0.1	Submission of Certificates of conformity tested by third parties for proprietary products used and material test certificates shall be supplied to demonstrate compliance	H	20 days (prior to procurement)	Supervisor / Designer
2.0.4	Submission of any conflicts between the manufacturer's instructions and standards	H	10 days (prior to procurement)	Supervisor / Designer
2.0.7	Submission of Method Statements for storage and handling of all proprietary materials	H	20 days (prior to procurement)	Supervisor
2.0.8	Submission of inspection and product testing plans	H	10 days (prior to procurement)	Supervisor
2.1.3	Submission of certification to demonstrate compliance of materials in contact with potable water	H	5 days (prior to delivery to site)	Supervisor
2.3.3	Submission of details of admixtures for concrete or grout including verification of suitability if applicable	H	10 days (prior to procurement)	Designer
2.14.12	Submission of samples of bricks and blocks	H	20 days (prior to procurement)	Designer
2.17.4	Submission of details of grout under bases	H	10 days (prior to procurement)	Designer
2.17.9	Submission of details of any admixtures proposed to be used in the grout.	H	10 days (prior to procurement)	Designer
2.22.1	Submission of details for ready-mix concrete supplier	H	10 days (prior to procurement)	Designer
2.22.2	Submission of details of alternative sources and suppliers of concrete	H	10 days (prior to procurement)	Designer
2.26.5	Submission of certificates for jacking pipes	H	10 days (prior to procurement)	Supervisor
2.30.1	Submission of details of cover blocks and spacers for reinforcement	H	5 days (prior to procurement)	Supervisor
2.31.2	Submission of samples of damp-proof courses	H	10 days (prior to procurement)	Designer

2.32.6	Submission of details of manufacturers of doors, frames and linings	H	10 days (prior to procurement)	Designer
2.32.7	Submission of sample sections of doors and frames	H	10 days (prior to procurement)	Designer
2.43.2	Submission of samples of flashings	H	10 days (prior to procurement)	Designer
2.55.2	Submission of certificates for heave of sub-base material	H	10 days (prior to procurement)	Supervisor
2.56.3	Submission of samples of grass seed mixes with certificate of germination	H	10 days (prior to procurement)	Designer
2.62.3	Submission of details of sources and compositions of organic topsoil	H	10 days (prior to procurement)	Designer
2.62.3	Submission of samples of topsoil	H	10 days (prior to procurement)	Designer
2.63.2	Submission of samples of imported turves	H	10 days (prior to procurement)	Designer
2.64.6	Submission of fabrication details including calculations for industrial flooring, walkways and stair treads	H	10 days (prior to procurement)	Designer
2.64.7	Submission of manufacturer's test and material certificates for industrial flooring, walkways and stair treads	H	10 days (Prior to delivery to site)	Designer
2.67.10	Submission of manufacturers' technical literature for joint sealing compounds and sealants	H	10 days (prior to procurement)	Designer
2.74.17	Submission of details of the proposed access covers including specification, drawings and details of maintenance and operation requirements	H	10 days (prior to procurement)	Supervisor / Designer
2.77.2	Submission of samples and information on materials forming mastic asphalt roofing systems	H	10 days (prior to procurement)	Designer
2.77.6	Submission of certificates for verifying mastic asphalt complies with Specification	H	10 days (prior to procurement)	Supervisor
2.77.8	Submission of request to use high bond proprietary bitumen based primers for concrete and masonry surfaces.	H	10 days (prior to procurement)	Designer

2.77.11	Submission of any other grade of dressing compound of equal quality and performance for use.	H	10 days (prior to procurement)	Designer
2.78.6	Submission of request with details for use of mechanical couplings for pipelines and fittings	H	10 days (prior to procurement)	Designer
2.80.2	Submission of details of wall ties with polypropylene insulation retaining clips	H	10 days (prior to procurement)	Designer
2.82.2	Submission of details of plasticising and set retarding mortar admixtures	H	10 days (prior to procurement)	Designer
2.82.5	Submission of details of equipment for gauging mix proportions for mortar on Site	H	5 days (prior to procurement of equipment)	Supervisor
2.82.6	Submission of request and details for hand mixing of mortar	H	5 days (prior to hand mixing of mortar)	Supervisor
2.82.7	Submission of details of method of mixing of mortar	H	5 days (prior to procurement of equipment)	Supervisor
2.88.9	Submission of details of manufacturers of paint and painting materials	H	10 days (prior to procurement)	Supervisor
2.91.5	Provision of electrical installation information to enable determination of specification for ducts	H	20 days (prior to procurement)	Designer
2.111.4	Submission of details of pfa for use as a fill materials	H	10 days (prior to procurement)	Supervisor
2.125.3	Submission of details of adhesives	H	10 days (prior to procurement)	Designer
2.126.6	Submission of documentation showing sources of timber	H	10 days (prior to procurement)	Supervisor
2.135.6	Submission of details of water fittings and appliances with samples	H	10 days (prior to procurement)	Designer
2.135.8	Submission of full details of water fittings and appliances	H	10 days (prior to procurement)	Designer
2.136.7	Submission of details and method statements for waterstops	H	10 days (prior to procurement)	Supervisor
2.138.2	Submission of details of manufacturer for windows	H	10 days (prior to procurement)	Supervisor
2.138.3	Submission of sample sections of windows	H	10 days (prior to procurement)	Designer

2.143.3	Submission of calculations and drawings with manufacturer's recommendations for proprietary anchor systems	H	20 days (prior to procurement)	Designer
2.143.4	Submission of evidence to demonstrate the design parameters for the anchor systems have been complied with in accordance with the provisions of BS 5080	H	10 days (prior to procurement)	Supervisor
2.143.5	Submission of evidence of suitable training for personnel installing proprietary anchor systems	H	5 days (prior to commencing work)	Supervisor
2.143.6	Submission of requests for drilling of holes to receive anchors	H	5 days (prior to commencing work)	Supervisor
2.147.8	Submission of samples and details to demonstrate compliance with the Specification for GRP trench covers	H	10 days (prior to procurement)	Designer
2.148.2	Submission of samples with certification of declaration of conformity for insulation	H	10 days (prior to procurement)	Supervisor
2.149.2	Submission of details of metal partition systems	H	10 days (prior to procurement)	Designer
2.152.1	Submission of details of pipe supports and fixing systems	H	10 days (prior to procurement)	Designer
2.152.4	Submission of samples and details of supports for plastic and copper pipes	H	10 days (prior to procurement)	Designer
2.154.2	Submission of details of pre-cast concrete unit production facilities	H	10 days (prior to procurement)	Designer
2.154.6	Notification of commencement of joint packing of precast concrete units	N	3 days (prior to commencement of packing)	Supervisor
2.162.1/ 2.162.2/ 2.162.3	Submission of details of waterproofing membrane systems	H	10 days (prior to procurement)	Designer

3 EXCAVATION, BACKFILLING AND RESTORATION

3.1.5	Notice of unsuitable or damaged formation or deterioration of formation to excavations	H	Immediate	Supervisor / Designer
3.1.6	Submission of request and details for removal from Site of excavated material designated for re-use	H	5 days (prior to commencing operation)	Supervisor
3.1.10	Submission of details of method of excavation	H	10 days (prior to commencing excavation)	Supervisor
3.1.11	Notice of completion of formations to excavations	H	3 days (prior to covering up)	Supervisor
3.1.12	Submission of request to batter excavations	H	5 days (prior to proposed battering)	Supervisor / Designer
3.1.14	Submission of details of method of working for earthworks	H	5 days (prior to commencing work)	Supervisor / Designer
3.1.16	Submission of documentation for removal/pruning of trees/hedges	H	10 days (prior to commencing work)	Designer
3.1.17	Submission of request for re-use of material used in haul roads	H	5 days (prior to commencing work)	Supervisor
3.1.19	Submission of notification and details regarding encountering of contaminated material	H	Immediate	Supervisor / Designer
3.4.1	Submission of request for location to dispose water	H	5 days (prior to commencing work)	Client / Supervisor
3.4.1	Submission of request and details of material for filling sumps	H	5 days (prior to excavating sumps)	Supervisor
3.4.5	Notification of encountering water in excavations	N	Immediate	Supervisor
3.4.6	Submission of details of method for dealing with water	H	5 days (prior to procurement of equipment for dealing with water)	Supervisor / Designer
3.6.7	Submission of proposals for compaction of backfill	H	5 days (prior to commencing work)	Designer

3.6.8	Submission of request to commence covering formations	H	3 days (prior to commencing work)	Supervisor
3.6.10	Notification of start of compaction of each layer	N	3 days (prior to commencing work)	Supervisor
3.9.7	Notification of commencing spreading of topsoil	N	3 days (prior to commencing work)	Supervisor
3.9.17	Notification of commencement of grass seeding and turfing	N	3 days (prior to commencing work)	Supervisor
3.12.2	Notification of inspection of permanent reinstatement of land drains	N	15 days (prior to covering up reinstatement)	Supervisor
3.14.5	Submission of request and information in relation to use of explosives	H	10 days (prior to procurement of explosives)	Client / Supervisor / Designer
3.16.3	Request to burn materials on site	H	5 days (prior to commencing work)	Supervisor
3.16.4	Submission of details identifying trees to be removed	H	10 days (prior to commencing work)	Designer
3.16.7	Submission of information regarding unforeseen structures or services encountered	H	Immediate	Supervisor / Designer
3.16.12	Request for receipt of confirmation of services disconnected and safe	H	10 days (prior to commencing work)	Client
3.16.13	Notice of presence of asbestos on Site	H	Immediate	Client / Supervisor / Designer
3.16.13	Submission of details for removal and disposal of asbestos on Site	H	10 days (prior to commencing work)	Designer
3.16.15	Submission of information in relation method of treatment/disposal of stone fill and other materials in contact or contaminated with oil	H	10 days (prior to commencing work)	Designer

4 CONCRETING AND FORMWORK

4.1.1	Submission of information regarding concrete supply	H	10 days (prior to commencing work)	Designer
4.1.3	Submission of information for concrete work	H	10 days (prior to commencing work)	Designer
4.5.2	Notification of commencement of concreting	N	3 days (prior to commencing work)	Supervisor
4.5.6	Notification of use of vibration externally	N	3 days (prior to commencing work)	Supervisor
4.7.2	Submission of details for maintaining concrete temperature below specified limit	H	10 days (prior to commencing work)	Designer
4.8.1	Submission of request and details for variation to curing specified	H	10 days (prior to commencing work)	Designer
4.14.2	Submission of request and details for bending projecting reinforcement	H	10 days (prior to commencing work)	Designer
4.14.3	Notification of visual inspection of straightened or re-bent bars	N	3 days (prior to commencing work)	Supervisor
4.14.5	Request for cutting, bending or straightening of coated rebar	H	10 days (prior to commencing work)	Designer
4.14.6	Details of site repairs to coated rebar	H	10 days (prior to commencing work)	Designer
4.18.1	Submission of details of welding procedures	H	10 days (prior to commencing work)	Designer
4.20.1	Submission of request and details of variations in specified construction joints	H	10 days (prior to commencing work)	Designer
4.20.8	Submission of proposals for revisions to steel reinforcement detailing	H	10 days (prior to commencing work)	Designer
4.30.1	Notification of addition of water	N	Immediately	Supervisor / Designer

4.36.2	Submission of details for installing, tensioning and anchoring tendons as well as load transfer	H	10 days (prior to commencing work)	Designer
4.37.1	Notification of commencement of grouting	N	3 days (prior to commencement of grouting)	Supervisor
4.38.4	Submission of method statement for grouting holding down assemblies	H	10 days (prior to commencement of grouting)	Supervisor / Designer
4.38.5	Notification of commencement of grouting holding down assemblies	N	3 days (prior to commencement of grouting)	Supervisor
4.38.6	Submission of details for protection of holding down assemblies	H	3 days (prior to installation of holding down assemblies)	Supervisor
4.39.2	Submission of details of construction joints for sprayed concrete	H	10 days (prior to commencement of work)	Designer
4.39.5	Notification of inspection of sprayed concrete	N	3 days (prior to inspection)	Supervisor
4.40.2	Notification of commencement of preparation of surface preparation for waterproofing	N	3 days (prior to commencement)	Supervisor
4.40.3	Notification of commencement of waterproofing and subsequent coats	N	3 days (prior to commencement of each stage)	Supervisor
4.40.4	Notice of backfilling to waterproofing membranes	H	3 days (prior to commencement of backfilling)	Supervisor

5 CONSTRUCTION OF PIPELINES AND ANCILLARY WORKS

5.2.5	Submission of request and details of use of mechanical compactors	H	5 days (prior to procurement of compactors)	Supervisor
5.7.7	Submission of details of method for laying pipes curved	H	5 days (prior to commencement of work)	Supervisor / Designer
5.8.4	Submission of request with details for use of electrofusion jointing for polyethylene pipes	H	5 days (prior to commencement of jointing)	Supervisor

5.11.4	Submission of details of welding and welding repair procedures as well as undertaking test welds for steel pipes	H	10 days (prior to commencing work)	Designer
5.21.6	Agreement to setting access cover levels	H	5 days (prior to commencing works)	Supervisor
5.21.8	Submission of details of painting system for manhole covers and hard surfaces to show orientation of pipework and flow direction	H	10 days (prior to procurement of materials)	Designer
5.21.8	Approval of suitable non-slip exterior coating system approved by the Contract Administrator	H	10 days (prior to procurement of materials)	Designer
5.22.3	Submission of details of positions of junctions on existing sewers	N	3 days (prior to backfilling)	Supervisor
5.27.2	Notification of placing of concrete for ducts	N	3 days (prior to commencement of concreting)	Supervisor
5.27.9	Submission of survey records for cable ducts	H	5 days (prior to handover of section of works)	Supervisor
5.27.10	Submission of details of protection against accidental damage for ends of cable ducts	H	5 days (prior to installing ducts)	Supervisor
5.34.1	Submission of request for connections to and/or disconnections of existing apparatus	H	5 days (prior to commencing works)	Supervisor
5.34.2	Submission of details of discrepancies regarding positions /levels of existing chambers and pipes	H	Immediate	Supervisor / Designer
5.35.3	Submission of details of method for drilling/ cutting holes into duct trenches	H	10 days (prior to commencing work)	Designer

6 BUILDING WORKS

6.2.6	Submission of details for cutting or chasing brickwork and blockwork	H	5 days (prior to commencing works)	Supervisor
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6.2.13	Notification of commencement of constructing masonry work	N	3 days (prior to commencing works)	Supervisor
6.2.15	Notice of inability to undertake normal bonding	H	10 days (prior to commencing work)	Designer
6.9.3	Submission of method for bricklaying and blocklaying in cold weather	H	10 days (prior to commencing work)	Designer
6.10.5	Notification of inspection of surfaces prior to application of plaster	N	3 days (prior to commencing works)	Supervisor
6.11.6	Submission of details of mechanical jointing techniques	H	10 days (prior to commencing work)	Designer
6.11.7	Submission of request and details for use of bed corner jointing tape	H	3 days (prior to procurement of tape)	Supervisor
6.12.7	Submission of details for plastering by mechanical application method	H	5 days (prior to procuring equipment)	Supervisor
6.12.13	Submission of samples of plastering	H	5 days (prior to commencing works)	Supervisor / Designer
6.14.5	Submission of details of specialist Contractor and materials for concrete floor finishes	H	10 days (prior to procurement of Contractor and materials)	Designer
6.14.6	Submission of details of admixtures and bonding agents for concrete floors	H	10 days (prior to procurement of materials)	Designer
6.14.8	Submission of details and samples of materials for concrete floor finishes	H	10 days (prior to procurement of materials)	Designer
6.14.10	Submission of details for cutting back and making good cracks and loose pockets in concrete floors	H	5 days (prior to commencing works)	Designer
6.14.14	Submission of details of construction joints in concrete floors	H	5 days (prior to commencing works)	Designer
6.14.17	Submission of details for laying pavings in the switchgear areas	H	5 days (prior to commencing works)	Designer
6.15.3	Submission of details of specialist Contractor and materials for floor tiling	H	10 days (prior to procurement of Contractor and materials)	Designer

6.15.26	Submission of details and samples of materials for rigid floor tiling	H	10 days (prior to procurement of materials)	Designer
6.15.28	Submission of details and samples of materials for flexible floor tiling	H	10 days (prior to procurement of materials)	Designer
6.15.29	Notification of commencement of dampness testing	N	3 days (prior to commencing testing)	Supervisor
6.15.30	Submission of setting out layout drawings for tiling	H	10 days (prior to commencing works)	Designer
6.17.2	Submission of details for rendering by mechanical application method	H	5 days (prior to procuring equipment)	Supervisor
6.17.6	Submission of sample panels for rendering	H	10 days (prior to procurement of materials)	Supervisor / Designer
6.18.5	Submission of sample panels for wall tiling	H	10 days (prior to procurement of materials)	Supervisor / Designer
6.18.7	Notification of inspection of background surfaces for tiling	N	3 days (prior to commencing inspection)	Supervisor / Designer
6.19.15	Submission of details for timber joints over bearings	H	10 days (prior to commencing works)	Designer
6.19.25	Submission of request and details of framing anchors	H	10 days (prior to procurement of materials)	Designer
6.21.6	Submission of details of the method of erecting the trussed rafters	H	10 days (prior to commencing work)	Supervisor / Designer
6.21.7	Submission of positions of supporting walls and plates for accuracy of setting out and levels check	H	10 days (prior to commencing work)	Supervisor / Designer
6.21.18	Submission of inspections of completed sections of timberwork	H	2 days (after completion of checking of inspections)	Supervisor
6.23.7	Submission of manufacturers' information for door frames	H	10 days (prior to procurement of materials)	Designer
6.26.5	Submission of paint samples	H	10 days (prior to procurement of materials)	Designer
6.26.7	Submission of details of method of paint application	H	10 days (prior to procurement of materials)	Supervisor

6.26.12	Submission of painting methods and procedures	H	10 days (prior to procurement of materials)	Supervisor
6.26.13	Notification of commencement of surface preparation for painting	N	3 days (prior to commencing preparation)	Supervisor
6.29.5	Submission of details of specialist Contractor for installing asphalt roofing system	H	10 days (prior to procurement of Contractor)	Supervisor / Designer
6.29.6	Submission of details of metal primers for adhering asphalt to metal surfaces	H	10 days (prior to procurement of materials)	Designer
6.29.16	Submission of details of bays for laying the roofing	H	10 days (prior to commencing work)	Designer
6.31.3	Submission of details of Contractors undertaking plumbing work	H	10 days (prior to procurement of Contractor)	Supervisor
6.31.4	Submission of details of personnel undertaking the plumbing work	N	3 days (prior to commencing work)	Supervisor
6.31.8	Submission of details of pipe joints	H	10 days (prior to procurement of materials)	Supervisor / Designer
6.32.4	Notification of checking of openings in walls	N	3 days (prior to commencing check)	Supervisor
6.35.6	Notification of inspection of framing for profiled steel cladding	N	3 days (prior to commencing inspection)	Supervisor
6.35.7	Submission of Samples of materials conforming to the systems to be used in the works	H	10 days (prior to procurement of materials)	Designer
6.38.8	Submission of details for jointing, installation and supports for soil waste, ventilation and rainwater pipework	H	10 days (prior to procurement of materials)	Supervisor / Designer
6.40.1	Submission of details of repair method of plaster and dry lining	H	10 days (prior to commencing work)	Supervisor / Designer
6.41.15	Notification of inspection and testing of works to be concealed by suspended ceilings	N	3 days (prior to commencing inspection and testing)	Supervisor

6.41.16	Notification of inspection of surfaces abutting or supporting suspended ceiling membranes	N	3 days (prior to commencing inspection)	Supervisor
6.42.14	Notification of inspection and testing of works concealed and/or supporting raised access floors	N	3 days (prior to commencing inspection and testing)	Supervisor
6.42.24	Submission of evidence demonstrating compliance with the stated performance requirements	H	10 days (prior to procurement)	Designer
6.43.8	Submission of request with details for use of heating cauldrons for mastic asphalt	H	5 days (prior to procurement of cauldrons)	Supervisor
6.43.9	Submission of layout drawings of bays for mastic asphalt flooring	H	10 days (prior to commencing work)	Designer
6.45.6	Notification of checking surfaces to receive flashings	N	3 days (prior to commencing check)	Supervisor
6.46.2	Submission of evidence of training for personnel installing caulking and sealing joints	H	5 days (prior to commencing work)	Supervisor
6.46.3	Submission of sample caulking and sealing joints	H	3 days (prior to commencing work)	Supervisor
6.46.11	Notification for preparation of joints and priming	N	3 days (prior to commencing work)	Supervisor

7 TESTING AND DISINFECTION

7.3.1	Submission of details for programme and testing/swabbing method	H	10 days (prior to undertaking tests/swabs)	Supervisor
7.3.2	Notification of testing pipelines	N	3 days (prior to commencing testing)	Supervisor
7.3.4	Submission of test results for pipework and chambers	H	5 days (prior to commencing connections)	Supervisor
7.3.5	Notification of testing pipelines and chambers	N	3 days (prior to commencing testing)	Supervisor

7.4.8	Notification of testing/ inspecting pipelines and chambers	N	3 days (prior to commencing testing/ inspecting)	Supervisor
7.5.4	Submission of statement regarding water test for non- pressure pipelines	H	5 days (prior to commencing testing)	Supervisor
7.9.7	Submission of test plan for testing pressure pipelines	H	5 days (prior to commencing testing)	Supervisor
7.9.8	Notification of testing / inspecting valves	N	3 days (prior to commencing testing/ inspecting)	Supervisor
7.11.5	Submission of request for operation of valves or making connections	H	3 days (prior to commencement of action)	Supervisor
7.11.6	Submission of test plan for disinfection	H	10 days (prior to commencing testing)	Supervisor / Designer
7.11.6 (iv)	Results of disinfection testing	H	Immediate	Supervisor
7.19.1	Notification of all testing	N	3 days (on site) 10 days (off site) prior to testing	Supervisor / Designer
7.20.2	Submission of results of test failures and details of proposed rectification	H	Results of test failures – immediate Rectification – to be agreed	Supervisor / Designer
7.21.6	Submission of proposals to rectify failures	H	To be agreed	Supervisor / Designer
7.22.2 (i)	Submission of details of mandrel for testing lines and level of pipelines	H	5 days (prior to commencing testing)	Supervisor
7.245.1	Notification of testing of bundled areas	N	3 days (prior to commencing test)	Supervisor
7.26.2	Notification of hydraulic testing of plumbing services	N	3 days (prior to commencing test)	Supervisor
7.26.4	Notification of residual chlorine level testing of services	N	3 days (prior to commencing testing)	Supervisor
7.27.2	Notification of checking of cable ducts	N	3 days (prior to commencing checking)	Supervisor
7.27.3	Submission of details of mandrel for testing cable ducts	H	5 days (prior to commencing testing)	Supervisor

7.28.1	Notification of checking of conduits	N	3 days (prior to commencing checking)	Supervisor
7.30.1	Submission of results to prove profiled steel cladding system design	H	10 days (prior to procurement of materials)	Supervisor / Designer
7.30.2	Submission of results proving strength of fasteners for profiled steel cladding system	H	10 days (prior to procurement of materials)	Designer
7.30.3	Submission of details of watertightness testing for profiled steel cladding system	H	10 days (prior to testing)	Supervisor
7.30.3	Notification of undertaking watertightness testing	N	3 days (prior to commencing test)	Supervisor
7.31.1	Notification of undertaking tests detailed in BS EN 1090: Part 2 for steelwork	N	3 days (prior to commencing test)	Supervisor
7.31.1(i)	Notification of welding on a first operation basis for steelwork	N	3 days (prior to commencing work)	Supervisor
7.31.1(ii)	Notification of weld repairs for steelwork	N	3 days (prior to commencing work)	Supervisor
7.31.1(iii)	Notification of completion of surface preparation for steelwork	N	3 days (prior to commencing work on top of surface)	Supervisor
7.31.1(iv)	Notification of inspection of bolts before final tightening for steelwork	N	3 days (prior to commencing work)	Supervisor
7.31.2	Submission of test reports and certification for steelwork	H	2 days (after tests)	Supervisor
7.31.3	Submission of results of setting out and proposed remedial works for steelwork	H	10 days (prior to utilising foundations/holding down bolts)	Supervisor / Designer
7.32.1	Notification of testing runway beams and trolley rails	N	10 days (prior to commencing testing)	Supervisor
7.33.1	Notification of inspection of industrial flooring, walkways and stair treads	N	3 days (prior to commencing inspection)	Supervisor
7.34.2	Submission of results of inspections/tests on protective treatments to steelwork	H	2 days (after inspection/tests)	Supervisor
7.35.1	Notification of checking coat thickness	N	3 days (prior to commencing tests)	Supervisor

7.35.2	Notice for undertaking inspections/testing of steelwork	H	5 days (prior to commencing tests/ inspections)	Supervisor
7.35.3	Notification for thickness tests	N	3 days (prior to commencing tests)	Supervisor
7.35.4	Submission of results of testing fire protection systems	H	2 days (after inspection/tests)	Supervisor
7.36.3	Notification of testing of mortar mixes	N	3 days (prior to commencing tests)	Supervisor
7.36.4	Notification of site control tests for masonry	N	3 days (prior to commencing tests)	Supervisor
7.36.7	Submission of results of site control tests for masonry	H	2 days (after completion of tests)	Supervisor
7.36.8	Submission of sample panels for masonry	H	10 days (prior to procurement of materials)	Supervisor / Designer
7.36.9	Submission of details of inspection procedure for masonry	H	5 days (prior to commencing the work)	Supervisor
7.37.1	Notification of checking timber elements	N	3 days (prior to commencing checks)	Supervisor
7.37.2	Notification of testing of moisture content of timber	N	3 days (prior to commencing tests)	Supervisor
7.37.3	Notification of checking tightness of fastenings	N	3 days (prior to commencing checks)	Supervisor
7.39.1	Submission of testing report and samples of weatherproof membrane bonded to insulation for built-up roofing systems	H	10 days (prior to procurement of materials)	Designer
7.39.2	Submission of results of pull-out tests for fixings for built-up roofing systems	H	10 days (prior to procurement of materials)	Designer
7.39.3	Submission of details of proposed leak tests for roofs	H	5 days (prior to commencing tests)	Supervisor
7.39.3	Notification of undertaking leak tests on roofs	N	3 days (prior to commencing tests)	Supervisor
7.40.1	Notification of inspections of prepared surfaces to receive substrates for roofs	N	3 days (prior to commencing inspections)	Supervisor

7.40.2	Notification of sampling and testing mastic asphalt	N	3 days (prior to commencing sampling/tests)	Supervisor
7.40.3	Notification of final inspection of roofs	N	3 days (prior to commencing inspections)	Supervisor
7.41.1	Notification of inspections of prepared surfaces to receive substrates for roofs	N	3 days (prior to commencing inspections)	Supervisor
7.41.2	Notification of sampling and testing mastic asphalt	N	3 days (prior to commencing sampling/tests)	Supervisor
7.43.1	Notification of inspection of prepared surfaces to receive substrates for floor finishes	N	3 days (prior to commencing inspections)	Supervisor
7.43.2	Notification of impact testing for floor finishes	N	3 days (prior to commencing tests)	Supervisor
7.43.3	Agreement to number and location of impact tests.	H	3 days (prior to commencing tests)	Supervisor
7.43.3	Submission of results of impact tests	H	1 day (after testing)	Supervisor
7.44.2(vi)	Notification of electrical resistance test for electrostatic control	N	3 days (prior to commencing tests)	Supervisor
7.47.1	Notification of testing of anchor systems	N	3 days (prior to commencing tests)	Supervisor
7.47.2	Notification of visible inspections of completed anchor systems	N	3 days (prior to commencing inspections)	Supervisor
7.48.1	Notification of testing of transformer noise enclosures for water ingress	N	3 days (prior to commencing tests)	Supervisor
7.50.1 & 7.50.2	Submission of results of piling and embedded walls' tests	H	2 days (after completion of tests)	Supervisor
7.51.1	Submission of samples and test results for topsoil	H	10 days (prior to procurement of material)	Supervisor
7.52.1	Submission of samples and details of filling materials	H	10 days (prior to procurement of materials)	Designer
7.52.2	Submission of details of proposed testing laboratory	H	10 days (prior to procurement of laboratory)	Designer

7.52.3	Notification of undertaking compaction tests	N	3 days (prior to commencing tests)	Supervisor
7.52.4	Submission of details of trial areas and testing of filling	H	10 days (prior to commencing tests)	Supervisor / Designer
7.52.4	Submission of results of trial areas and testing of filling	H	10 days (prior to commencing work)	Supervisor / Designer
7.52.5	Notification of field tests	N	3 days (prior to commencing tests)	Supervisor
7.52.6	Submission of details of compaction and testing to match trial area for filling	H	Immediate	Supervisor
7.56.4	Submission of details of proposed adjustments to setting out	H	5 days (prior to commencing work)	Supervisor / Designer
7.56.6	Submission of information in relation to non-compliance for setting out	H	Immediate	Supervisor / Designer

8 ROADWORKS

8 (general)	Various actions defined between the Contractor and the Overseeing Organisation in the Specification for Highway Works	H & N	To be stated in Particular Specification	Supervisor / Designer
8.13.2	Submission of samples of paving blocks	H	10 days (prior to commencing works)	Designer
8.14.2	Notification of survey of such tolerances which comply with Highways Agency's 'Specification for Highway Works', Series 700, 800, 900 and 1000, CESW17 (including 8.14.1), this Specification or the Particular Specification.	N	3 days (prior to commencing work)	Supervisor
8.14.3	Submission of Results of Surveys	H	10 days (prior to commencing roadworks construction)	Supervisor
8.16.4	Submission of fabrication drawings of the traffic signs	H	10 days (prior to commencing roadworks construction)	Designer

8.16.5	Submission of details of the road studs	H	10 days (prior to commencing roadworks construction)	Designer
8.18.1	Submission of details of construction plant and other traffic using road surfaces	H	10 days (prior to commencing roadworks construction)	Supervisor
8.19.1	Submission of details of methodology to achieve specified performance	H	10 days (prior to commencing roadworks construction)	Supervisor
8.20.2	Submission of trial test results	H	10 days (prior to procurement of materials)	Supervisor / Designer
8.20.4	Notification of the commencement of each test and field survey	N	3 days (prior to commencing work)	Supervisor

12 STRUCTURAL STEELWORK AND ALUMINIUM

12.1.4	Submission of information described in the specified Standards, Specifications and Quality Plans	H	To be stated in Particular Specification	Supervisor / Designer
12.3.1	Submission of test results to demonstrate effects of forming aluminium elements	H	10 days (prior to commencing procurement of materials)	Supervisor / Designer
12.4.1	Submission of welding information described in the specified Standards, Specifications and Quality Plans	H	To be stated in Particular Specification	Supervisor / Designer
12.4.2	Submission of welding instructions	H	20 days (prior to commencing welding)	Supervisor / Designer
12.4.3	Submission of methodology for butt welds	H	20 days (prior to commencing welding)	Supervisor / Designer
12.4.4	Submission of request and details for undertaking intermittent welds	H	10 days (prior to commencing welding)	Supervisor / Designer
12.5.1	Submission of methodology regarding shape of ends of hollow sections	H	10 days (prior to commencing work)	Supervisor / Designer

12.5.5	Submission of test specimens for welding structural hollow sections	H	10 days (prior to commencing work)	Supervisor / Designer
12.6.1	Submission of request and details of enlarging holes by reaming	H	10 days (prior to commencing work)	Designer
12.7.4	Submission of proof of suitability of using electrically driven impact wrenches	H	10 days (prior to procurement of wrench)	Supervisor / Designer
12.9.1	Submission of details for tightening high strength friction grip bolts	H	10 days (prior to commencing work)	Supervisor / Designer
12.13.2	Submission of request and details of shims for steelwork	H	10 days (prior to commencing work)	Designer
12.13.3	Notification of setting steel columns and other members prior to grouting/concreting	N	3 days (prior to grouting/concreting)	Supervisor
12.14.1	Notification of setting aluminium columns and other members prior to grouting/concreting	N	3 days (prior to grouting/concreting)	Supervisor
12.15.1	Submission of details of jointing grease for aluminium surfaces	H	10 days (prior to procuring grease)	Designer
12.17.6	Submission of sample plate for protective treatment	H	10 days (prior to procurement of materials)	Designer
12.18.2	Submission of details of personnel undertaking fire protection	H	5 days (prior to commencing work)	Supervisor
12.18.3	Submission of details for protecting surfaces not to receive fire protection	H	5 days (prior to procurement of materials)	Supervisor
12.18.6	Submission of details for preparation of surfaces for fire protection	H	5 days (prior to procurement of materials)	Supervisor
12.18.8	Submission of samples of steel with welded pins and/or mesh	H	5 days (prior to procurement of materials)	Supervisor
12.18.9	Submission of details of fire protection	H	20 days (prior to procurement of materials)	Supervisor / Designer
12.18.10	Notification of commencement of fire protection	N	3 days (prior to commencement of work)	Supervisor
12.18.13	Submission of samples of surface finish for fire protection	H	10 days (prior to procurement of materials)	Supervisor / Designer

12.20.2	Notification of survey for partition areas	N	3 days (prior to survey)	Supervisor
12.21.8	Submission of a sample of each type of crane rail fastening clip with manufacturer's technical data and method of installation	H	10 days (prior to procurement of materials)	Designer

13 MINOR ELECTRICAL WORKS

13.1.2	Submission of details of circuit and wiring	H	To be stated in Particular Specification	Supervisor
13.1.3	Notification of connection of electricity supply	N	5 days (prior to connection)	Supervisor
13.3.2	Submission of samples of labels for cable identification	H	5 days (prior to procurement)	Supervisor
13.9.7	Submission of details of each type of proposed distribution panel boards	H	10 days (prior to procurement of materials)	Designer
13.11.20	Submission of request and details for drilling holes into steelwork or prestressed concrete	H	10 days (prior to undertaking the work)	Designer
13.11.21	Submission of details of cartridge fired bolts for fixing into concrete or masonry	H	5 days (prior to procurement)	Supervisor
13.11.27	Submission of details of male bushes for use in accessory boxes	H	5 days (prior to procurement)	Designer
13.12.6	Submission of Samples and technical data sheets of each type of cable trays and cable ladders including proprietary fittings	H	10 days (prior to procurement of materials)	Designer
13.14.1	Submission of relevant information to enable the <i>Contract Administrator</i> to determine the specification requirements for the conduits	H	20 days (prior to procurement)	Designer
13.14.5	Submission of Elbows and tees, inspection or solid type details should the contractor warrant their use.	H	10 days (prior to procurement of materials)	Designer
13.14.9	Inspection boxes located in floor slabs shall be non-ferrous metal floor traps	H	3 days (prior to commencing inspection)	Designer

13.22.8	Submission of the confirmation of the mechanical security of the crimp termination prior to installation	H	10 days (prior to procurement of materials)	Supervisor
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14 MAINTENANCE PAINTING OF SUBSTATION PLANT, EQUIPMENT AND STRUCTURES

No notification or hold points

15 MECHANICAL AND ELECTRICAL EQUIPMENT

15.2.2	Submission of test results and certification for oil separators	H	10 days (prior to delivery to site)	Designer
15.2.14	Submission of details of oil separators	H	10 days (prior to procurement)	Designer
15.2.16	Submission of installation procedure for oil separator	H	10 days	Designer
15.2.26	Submission of oil separator manuals	H	10 days	Designer
5.2.28	Submission of details of size of oil separator instrument pillars	H	10 days (prior to procurement)	Designer

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APPENDIX X ENGINEERING DOCUMENTS TO BE SUBMITTED BY THE CONTRACTOR

The descriptions below for the specific requirements are only a summary and not necessarily exhaustive. The *Contractor shall* review the specification clause quoted in its entirety and take the appropriate action.

CLAUSE REFERENCE

DOCUMENT DESCRIPTION

1 GENERAL

1.2.5	Details of siting of accommodation
1.3.1	Details of billposting and advertising
1.6.2	Records of entry onto and departure from all property, land, roads, footpaths and thoroughfare including erection and removal of elements
1.7.2	Results of survey of highways, properties and lands
1.8.1 & 1.8.7	Details of bench marks, setting out stations and monitoring points
1.8.11	Co-ordinates and levels of Permanent Setting Out Stations
1.8.20	Details of survey methods and equipment
1.10.3	Details of arrangements of wayleaves or accommodation outside the Site
1.11.1	Details of interference with access to property, apparatus or service
1.12.1	Details of any damage or injury due to execution of the Works
1.12.2	Details of complaints, claims or warnings
1.13.3	Details of any leakages or damage to services, highways or roads
1.14.1	Information regarding use of herbicides and pesticides
1.17.3	Drawing of all services and apparatus encountered
1.17.6	Information highlighting any differences between apparatus information provided by the Contract and actual details surveyed on Site
1.18.2	Details regarding methods of working in relation to traffic requirements
1.18.3	Details of the requirements of the Highways or Roads and Police Authorities
1.18.7	List of operatives on Site with accreditation for NRSWA
1.19.1	Contact details for organising emergency works
1.20.1	Details for bring hazardous substances to Site
1.20.2	Details of locations of each explosives magazines and stores or any other hazardous substances
1.23.1	Asset records

**CLAUSE
REFERENCE**

DOCUMENT DESCRIPTION

1.25.2	Quality Plan for the Works
1.25.8	Quality Plans for works by sub-contractors
1.26.1	Method statements
1.27.1	Manufacturers' information
1.27.2	Details for use of damaged or non-compliant materials
1.27.4	Details of conflicts between manufacturers' instructions and Standards/Specifications
1.28.1	Details of permanent retention of temporary works
1.30.1	Commissioning programme and detailed Civil Commissioning Test Schedules
1.30.2	Notice for commencement of commissioning
1.31.2	Design Input Statements for approval
1.31.3	Design information
1.31.6	Information in relation to curing period, handling, storage and transportation requirements and erection/installation requirements
1.32.1	Details of variations to design or assumptions

2 MATERIALS

2.0.1	Certificates of conformity and test certificates for materials
2.0.4	Details of discrepancies between manufacturers' instructions and Standards/Specifications
2.0.7	Manufacturers' recommendations/ instructions for materials
2.1.2	Certification to demonstrate compliance of materials in contact with potable water
2.3.3	Details of admixtures for concrete or grout including verification of suitability if applicable
2.14.11	Samples of bricks and blocks
2.17.4	Details of grout under bases
2.17.9	Details of admixtures for grout for ducts with post tensioned tendons
2.22.1	Details of ready-mix concrete supplier
2.22.2	Details of alternative sources and suppliers of concrete
2.26.3	Certificates for jacking pipes
2.30.1	Details of cover blocks and spacers for reinforcement

CLAUSE REFERENCE	DOCUMENT DESCRIPTION
2.31.2	Samples of damp-proof courses
2.32.6	Details of manufacturers of doors, frames and linings
2.32.7	Sample sections of doors and frames
2.43.2	Samples of flashings
2.55.2	Certificates for heave of sub-base material
2.56.3	Samples of grass seed mixes with certificate of germination
2.62.2	Details of sources and composition of organic topsoil
2.62.3	Samples of topsoil
2.63.2	Samples of imported turves
2.64.9	Fabrication details including calculations for industrial flooring, walkways and stair treads
2.64.10	Manufacturer's test and material certificates for industrial flooring, walkways and stair treads
2.67.10	Manufacturers' technical literature for joint sealing compounds and sealants
2.77.2	Samples and information on materials forming mastic asphalt roofing systems
2.77.6	Certificates for verifying mastic asphalt complies with Specification
2.77.8	Details of proprietary bitumen based primers for mastic asphalt roofing and flooring
2.77.10	Details of alternative grade of dressing compounds for chippings
2.78.6	Details for use of mechanical couplings for pipelines and fittings
2.80.3	Details of wall ties with polypropylene insulation retaining clips
2.82.5	Submission of details of equipment for gauging mix proportions for mortar on Site
2.82.6	Details of hand mixing of mortar
2.82.7	Details of method of mixing of mortar
2.86.10	Calculations and drawings for proprietary anchor systems
2.86.11	Certification for proprietary anchor systems proving compliance with specified design parameters
2.88.9	Details of manufacturers of paint and painting materials
2.111.4	Details of pfa for use as a fill materials
2.125.3	Details of adhesives
2.126.6	Documentation showing sources of timber
2.135.8	Details of water fittings and appliances with samples

CLAUSE REFERENCE	DOCUMENT DESCRIPTION
2.136.7	Details and method statements for waterstops
2.138.2	Submission of details of manufacturer for windows
2.138.2	Submission of sample sections of windows
2.143.1	Evidence of training for personnel installing anchor systems
2.143.2	Details for drilling holes for anchor systems
2.147.9	Samples and details to demonstrate compliance with the Specification for GRP trench covers
2.149.2	Details of metal partition systems
2.152.1	Details of pipe supports and fixing systems
2.152.4	Samples and details of supports for plastic and copper pipes
2.154..2	Details of pre-cast concrete unit production facilities
2.162	Details of waterproofing membrane systems

3 EXCAVATION, BACKFILLING AND RESTORATION

3.1.5	Submission of request and details for removal from Site of excavated material designated for re-use
3.1.10	Details of method of excavation
3.1.14	Details of method of working
3.1.16	Documentation for removal/pruning of trees/hedges
3.1.19	Details regarding encountering contaminated material
3.4.1	Details of location for disposal of water
3.4.1	Details of material for filling sumps
3.4.5	Details of method for dealing with water
3.6.7	Proposals for compaction of backfill
3.12.1	Records of land drains affected by the works
3.14.1	Information in relation to use of explosives
3.16.4	Details identifying trees to be removed
3.16.7	Information regarding unforeseen structures or services encountered
3.16.13	Details for method of removal and disposal of asbestos on Site
3.16.15	Information in relation method of treatment/disposal of stone fill and other materials in contact or contaminated with oil

CLAUSE REFERENCE	DOCUMENT DESCRIPTION
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4 CONCRETING AND FORMWORK

4.1.1	Information regarding concrete supply
4.1.3	Submission of information for concrete work
4.7.3	Details for method to maintain concrete temperature below specified limit
4.8.1	Details for variation to curing specified
4.14.2	Details for bending projecting reinforcement
4.18.1	Details of welding procedures
4.20.1	Details of variations in specified construction joints
4.35.2	Details of installing, tensioning and anchoring tendons as well as load transfer
4.37.3	Details of holding down assemblies
4.37.4	Method statement for grouting holding down assemblies
4.37.6	Details for protection of holding down assemblies
4.38.2	Details of construction joints for sprayed concrete

5 CONSTRUCTION OF PIPELINES AND ANCILLARY WORKS

5.2.2	Details of use of mechanical compactors
5.7.5	Details of method for laying pipes curved
5.8.4	Details for use of electrofusion jointing for polyethylene pipes
5.11.4	Details of welding and welding repair procedures as well as undertaking test welds for steel pipes
5.21.8	Details of painting system for manhole covers and hard surfaces to show orientation of pipework and flow direction
5.22.3	Details of positions of junctions on existing sewers
5.25.2	Schedule of co-ordinates of marker posts
5.27.9	Survey records for cable ducts
5.27.10	Details of protection against accidental damage for ends of cable ducts
5.34.2	Details of discrepancies regarding positions /levels of existing chambers and pipes

**CLAUSE
REFERENCE**

DOCUMENT DESCRIPTION

5.35.3 Details of method for drilling/ cutting holes into duct trenches

6 BUILDING WORKS

6.1.7 Details for cutting or chasing brickwork and blockwork

6.11.7 Details for use of bed corner jointing tape

6.12.7 Details for plastering by mechanical application method

6.12.13 Samples of plastering

6.14.6 Details of specialist Contractor and materials for concrete floor finishes

6.14.7 Details of admixtures and bonding agents for concrete floors

6.14.8 Details and samples of materials for concrete floor finishes

6.14.10 Details for cutting back and making good cracks and loose pockets in concrete floors

6.14.14 Details of construction joints in concrete floors

6.14.17 Details for laying pavings in the switchgear areas

6.15.3 Details of specialist Contractor and materials for floor tiling

6.15.26 Details and samples of materials for rigid floor tiling

6.15.28 Details and samples of materials for flexible floor tiling

6.15.30 Setting out layout drawings for tiling

6.17.2 Details for rendering by mechanical application method

6.17.6 Sample panels for rendering

6.18.5 Sample panels for wall tiling

6.18.2 Samples and manufacturers' literature for wall tiles

6.18.9 Details of wall tiles' adhesives

6.18.10 Submission of details wall tiles' grout

6.19.6 Details for timber joints over bearings

6.19.15 Details of framing anchors

6.21.6 Details for erecting trussed rafters

6.21.7 Details of inaccuracies, defects and proposed rectification of bearings for trussed rafters

6.21.11 Results of checks/inspections of timberwork

6.23.6 Manufacturers' information for door frames

CLAUSE REFERENCE	DOCUMENT DESCRIPTION
6.26.7	Paint samples
6.26.7	Details of method of paint application
6.26.12	Painting methods and procedures
6.29.5	Details of specialist Contractor for installing asphalt roofing system
6.29.6	Details of metal primers for adhering asphalt to metal surfaces
6.29.16	Details of bays for laying the roofing
6.31.3	Details of Contractors undertaking plumbing work
6.31.4	Details of personnel undertaking the plumbing work
6.31.8	Details of pipe joints
6.35.7	Samples of materials forming profiled steel sheeting systems
6.38.8	Details for jointing, installation and supports for soil waste, ventilation and rainwater pipework
6.40.1	Details of repair method of plaster and dry lining
6.42.24	Details to demonstrate compliance with performance requirements for raised access floor systems
6.43.8	Details for use of heating cauldrons for mastic asphalt
6.43.9	Layout drawings of bays for mastic asphalt flooring
6.565.2	Evidence of training for personnel installing caulking and sealing joints
6.56.3	Sample caulking and sealing joints
6.56.11	Notification for preparation of joints and priming

7 TESTING AND DISINFECTION

7.3.1	details for programme and testing/swabbing method
7.3.4	Test results for pipework and chambers
7.5.3	Statement regarding water test for non-pressure pipelines
7.9.7	Test plan for testing pressure pipelines
7.11.3	Test plan for disinfection
7.11.4 (iv)	Results of disinfection testing
7.20.2	Results of test failures and details of proposed rectification
7.21.6	Proposals to rectify failures

CLAUSE REFERENCE	DOCUMENT DESCRIPTION
7.22.2 (i)	Details of mandrel for testing lines and level of pipelines
7.27.3	Details of mandrel for testing cable ducts
7.29.3	Commissioning plan and documents
7.30.1	Results to prove profiled steel cladding system design
7.30.2	Results proving strength of fasteners for profiled steel cladding system
7.30.3	Details of watertightness testing for profiled steel cladding system
7.31.2	Test reports and certification for steelwork
7.31.3	Results of setting out and proposed remedial works for steelwork
7.34.2	Results of inspections/tests on protective treatments to steelwork
7.35.4	Results of testing fire protection systems
7.36.7	Results of site control tests for masonry
7.36.8	Sample panels for masonry
7.36.9	Details of inspection procedures for masonry
7.39.1	Testing report and samples of weatherproof membrane bonded to insulation for built-up roofing systems
7.39.2	Results of pull-out tests for fixings for built-up roofing systems
7.39.3	Details of proposed leak tests for roofs
7.50.1 & 7.50.2	Results of piling and embedded walls' tests
7.51.1	Samples and test results for topsoil
7.52.1	Samples and details of filling materials
7.52.2	Submission of details of proposed testing laboratory
7.52.4	Details of trial areas and testing of filling
7.52.4	Results of trial areas and testing of filling
7.52.6	Details of compaction and testing to match trial area for filling
7.52.7	Summary of tests on fill material
7.53.4	Details of proposed adjustments to setting out
7.53.6	Information in relation to non-compliance for setting out
8 ROADWORKS	
8.13.2	Samples of paving blocks
8.14.3	Results of surveys for pavements

CLAUSE REFERENCE	DOCUMENT DESCRIPTION
8.16.4	Fabrication details for traffic signs
8.16.5	Details of road studs
8.19.1	Details of methodology to achieve specified performance
8.20.2	Results of trial tests for roadworks

12 STRUCTURAL STEELWORK AND ALUMINIUM

12.1.4	Information described in the specified Standards, Specifications and Quality Plans
12.3.1	Test results to demonstrate effects of forming aluminium elements
12.4.1	Welding information described in the specified Standards, Specifications and Quality Plans
12.4.2	Welding instructions
12.4.3	Methodology for butt welds
12.4.4	Details for undertaking intermittent welds
12.5.1	Methodology regarding shape of ends of hollow sections
12.5.5	Test specimens for welding structural hollow sections
12.6.1	Details of enlarging holes by reaming
12.7.4	Proof of suitability of using electrically driven impact wrenches
12.9.1	Details for tightening high strength friction grip bolts
12.13.2	Details of shims for steelwork
12.15.1	Details of jointing grease for aluminium surfaces
12.17.3	Sample plate for protective treatment
12.18.2	Details of personnel undertaking fire protection
12.18.3	Details for protecting surfaces not to receive fire protection
12.18.6	Details for preparation of surfaces for fire protection
12.18.8	Samples of steel with welded pins and/or mesh
12.18.9	Details of fire protection
12.18.13	Samples of surface finish for fire protection
12.21.8	Samples with technical data for crane rail fastening clips

CLAUSE REFERENCE	DOCUMENT DESCRIPTION
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13 MINOR ELECTRICAL WORKS	
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13.1.2	Circuit/wiring drawings
13.2.1	Certification as required by standard specified
13.3.2	Samples of labels for identifying cables
13.4.3	Manufacturer's identification labels for cables supplied
13.9.7	Details of Distribution Panel Boards
13.11.20	Details of proposed holes for drilling into structural steelwork or prestressed concrete
13.11.21	Details for cartridge fired bolts
13.11.27	Details of males bushes for use in accessory boxes
13.12.6	Samples and technical data sheets for cable trays and ladders
13.14.1	Details of electrical installations to enable sizing of conduits
13.14.5	Details of elbows and tees for conduits
13.14.9	Details of inspection boxes on conduits for electrical installations

14 MAINTENANCE PAINTING OF SUBSTATION PLANT, EQUIPMENT AND STRUCTURES
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There are no engineering documents to be submitted by the contractor.

15 MECHANICAL AND ELECTRICAL EQUIPMENT

15.2.2	Test results and certification for oil separators
15.2.14	Details of oil separators
15.2.16	Details for installation of oil separators
15.2.28	Details of size of oil separator instrument pillars

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