

PRELIMINARIES

Site Address:	Foakes Memorial Hall, Stortford Road, Great Dunmow, Essex CM6 1DG
Client:	Great Dunmow Town Council
Project No:	11066
Project Title:	Proposed 3-Storey Extension
Date of Issue:	December 2021

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A

**JCT 2016 Intermediate Building Contract with
Contractor's Design (ICD)**

A10
PROJECT PARTICULARS

A10 PROJECT PARTICULARS**110 THE PROJECT**

Name: Foakes Memorial Hall

Nature: Construction of a new 3-storey side extension including basement and internal alterations to the existing building

Location: Stortford Road, Great Dunmow, Essex CM6 1DG

Length of Contract: 16 calendar weeks

120 EMPLOYER (CLIENT)

Name: Great Dunmow Town Council

Address: Foakes House, 47 Stortford Road, Great Dunmow, Essex CM6 1DG

Contact: Miss Ann Wood (Committee Clerk)

Telephone: 01371 872406

140A ARCHITECT & PRINCIPAL DESIGNER

Name: Edward Parsley Associates Ltd

Address: West End Barn, The Street, Rayne, Braintree, Essex CM77 6RY

Contact: Jon Scrivener

Telephone: 01376 349929

E-mail: jon@epadesign.co.uk

140E QUANTITY SURVEYOR

Name: Robert Mayes Associates Ltd

Address: Suite 4, The Chestnuts, 4 Stortford Road, Great Dunmow, Essex, CM6 1DA .

Contact: Robert Mayes

Telephone: 07798 641523

E-mail: bob@mayesassociates.co.uk

170 STRUCTURAL ENGINEER

Name: Edward Parsley Associates Ltd

Address: West End Barn, The Street, Rayne, Braintree, Essex CM77 6RY

Contact: Tom Lee

Telephone: 01376 349929

E-mail: tom@epadesign.co.uk

A11
TENDER AND CONTRACT DOCUMENTS

A11 TENDER AND CONTRACT DOCUMENTS

110 TENDER DRAWINGS

The tender drawings are: set out on the register included in the tender documents.

160 PRECONSTRUCTION INFORMATION

Format: The Preconstruction information is described in information provided by Edward Parsley Associates. An asbestos register for the existing building is available for inspection together with an underground drainage survey.

A12

THE SITE/EXISTING BUILDINGS

A12 THE SITE/EXISTING BUILDINGS**110 THE SITE**

Description: The site comprises the existing Foakes Memorial Hall and adjacent car park and is situated in Stortford Road, Great Dunmow, Essex.

It is intended that the existing building will be unoccupied during the Contract Works with the exception of occasional use of the Committee Room being required (with advance notification).

120 EXISTING BUILDINGS ON/ADJACENT TO THE SITE

The existing building is to be partially demolished to facilitate the construction of the new extension. This will involve the removal of an existing basement level retaining wall and access stairs.

160 SOILS AND GROUND WATER

See pre-construction information appended to these documents.

170 SITE INVESTIGATION

See pre-construction information appended to these documents.

200 ACCESS TO THE SITE & PARKING

Description: Access to the works is from Stortford Road. A public right of way runs through the site from the Recreation Ground at the rear (north side) through the car park to Stortford Road. This is to be diverted around the east side of the Memorial Hall (see Drawing No. R-07) for the duration of the works. Access must also be maintained at all times for the Tennis Club to the Pavilion which is part of the rear of the Hall and to the courts themselves.

Parking of Contractors' vehicles is to be limited to the site compound area shown on the drawing. It is proposed for the duration of the works that the car park entrance becomes the point of access to the Contractors' compound area and that the exit becomes sole point of access for the remaining portion, which will continue to operate as a car park.

230 SURROUNDING LAND/BUILDING USES

General: Adjacent or nearby uses or activities are as follows:

- Residential use adjacent to the site and opposite Stortford Road.
- Fire Station nearby.

250 SITE VISIT

Assessment: Ascertain the nature of the site, access thereto and all local conditions and restrictions likely to affect the execution of the Works.

Arrangements for visit: 01371 872406

Contact: Committee Clerk to Great Dunmow Town Council – Miss Ann Wood

A13
DESCRIPTION OF THE WORK

A13 DESCRIPTION OF THE WORK**110 PREPARATORY WORK BY OTHERS**

Works: Carried out under a separate contract and completed before the start of work on site for this Contract.

Description:

- Trial pit information
- Asbestos Survey and Register
- Underground drainage repairs and survey
- Removal of Nursery play equipment

120 THE WORKS

Description: The works comprise the enabling work and part demolition of existing retained structures and construction of a new 3-storey side extension including basement, internal alterations to the existing building, associated external works and drainage.

A20

**JCT INTERMEDIATE BUILDING CONTRACT WITH
CONTRACTOR'S DESIGN (ICD)**

A20 JCT INTERMEDIATE BUILDING CONTRACT WITH CONTRACTOR'S DESIGN (ICD)

INTERMEDIATE BUILDING CONTRACT WITH CONTRACTOR'S DESIGN (ICD)

The Contract: JCT Intermediate Building Contract with Contractor's Design 2016 Edition.

Requirement: Allow for the obligations, liabilities and services described.

THE RECITALS

First - THE WORKS

Comprise: A 3-storey side extension to an existing Memorial Hall

Location: E.T. Foakes Memorial Hall, Stortford Road, Great Dunmow, Essex CM6 1DG

Second - CONTRACTOR'S DESIGNED PORTION

The Works include the design and construction of:

Basement waterproofing system

Concrete beam and block flooring

Timber internal and steel external stairs

Mechanical Services installations

Electrical Services installations.

Third - CONTRACT DRAWINGS

The Contract Drawings: As Tender Drawing Schedule appended

Fourth - OTHER DOCUMENTS SUPPLIED BY THE EMPLOYER

Comprise: As listed

Fifth B - PRICING BY THE CONTRACTOR

Option B will apply: Option A will be deleted.

Priced Activity Schedule: The words 'and has provided the Employer with a priced schedule of activities annexed to this Contract (the Activity Schedule) will not be deleted.

THE ARTICLES

3 -ARCHITECT

See Clause A10/140A.

4 -QUANTITY SURVEYOR

Quantity Surveyor: See Clause A10/140E.

5 - PRINCIPAL DESIGNER

Principal Designer: See Clause A10/140A.

6 - PRINCIPAL CONTRACTOR

Principal Contractor: To be appointed.

CONTRACT PARTICULARS

Sixth Recital - CONTRACTOR'S PROPOSALS/ CDP ANALYSIS

Comprise: To be completed by the Contractor.

Specific Requirements: None.

Eighth Recital and Clause 4.6 - CONSTRUCTION INDUSTRY SCHEME

Employer at Base Date is a 'contractor' for the purposes of the CIS.

Tenth Recital - CDM REGULATIONS

The project is notifiable.

Thirteenth Recital and Schedule 5 – SUPPLEMENTAL PROVISIONS

Collaborative working: Supplemental Provision 1 applies.

Health and safety: Supplemental Provision 2 applies.

Cost savings and value improvements: Supplemental Provision 3 applies.

Sustainable development and environmental considerations: Supplemental Provision 4 applies.

Performance indicators and monitoring: Supplemental Provision 5 does not apply.

Notification and negotiation of disputes: Supplemental Provision 6 applies.

Where Supplemental Provision 6 applies, the respective nominees of the parties are:

- Employer's and Contractor's nominees: TBA

Article 8 - ARBITRATION

Article 8 and clauses 9.3 to 9.8 (arbitration) apply.

Clause 1.1 - BASE DATE

Base Date: December 2021

Clause 1.1 - DATE FOR COMPLETION OF THE WORKS

Date for completion of the Works (where completion by sections does not apply):

18 calendar weeks from date for possession of the site.

Clause 1.7 - ADDRESSES FOR SERVICE OF NOTICES

Employer and Contractor: As above

Clause 2.4 - DATE OF POSSESSION OF THE SITE

Date of Possession of the site: mid July 2022

Clause 2.5 - DEFERMENT OF POSSESSION OF THE SITE

Clause 2.5 applies.

Where clause 2.5 applies, maximum period of deferment is twelve weeks

Clause 2.23.2 - LIQUIDATED DAMAGES

Damages: At the rate of £1,156.00 per week or part thereof

Clause 2.30 - RECTIFICATION PERIOD

Period: 12 months from the date of practical completion of the Works.

Clause 2.34.3 - CONTRACTOR'S DESIGNED PORTION

Limit of Contractor's liability for loss of use: unlimited.

Clause 4.3 and 4.9 - FLUCTUATIONS PROVISION

Fluctuations Provision: See Provisional Sums.

Clause 4.8.1 - INTERIM PAYMENTS - INTERIM VALUATION DATES

The first Interim Valuation Date is: one month after work commences, and thereafter the same date in each month or the nearest Business Day in that month.

Clause 4.9.1 - INTERIM PAYMENTS - PERCENTAGE OF VALUE

Not achieved practical completion: Where the Works, or those works in a section, have not achieved practical completion, the percentage of total value in respect of the works that have not achieved practical completion is 95%.

Completed works: Where the Works, or those works in a section, have achieved practical completion, the percentage in respect of the completed works is 98.5%.

Clause 6.4.1 - CONTRACTOR'S PUBLIC LIABILITY INSURANCE : INJURY TO PERSONS OR PROPERTY

Insurance cover for any one occurrence or series of occurrences arising out of one event: £5 million

Clause 6.5.1 - INSURANCE - LIABILITY OF EMPLOYER

Insurance may be required.

Clause 6.7 and Schedule 1 - WORKS INSURANCE - INSURANCE OPTIONS

Schedule 1: Insurance option C applies.

Percentage to cover professional fees: 15 per cent.

Clause 6.15 - JOINT FIRE CODE

The Joint Fire Code: Does apply.

Clause 6.19 - CONTRACTOR'S DESIGN PORTION - PROFESSIONAL INDEMNITY INSURANCE

Level of cover: Amount of indemnity required:

- relates to claims or series of claims arising out of one event;
- and is £2 million

Cover for pollution and contamination claims: Maybe required

Expiry of required period of CDP Professional Indemnity Insurance: 6 years

Clause 7.2.2 - GUARANTEE FROM THE CONTRACTOR'S PARENT COMPANY

Guarantee: Is not required

Clause 7.3 - COLLATERAL WARRANTIES

Will be required for all elements of design required by the Contractor.

Clause 8.9.2 - PERIOD OF SUSPENSION (TERMINATION BY CONTRACTOR)

Period of suspension: Two months.

Clauses 8.11.1.1 to 8.11.1.5 - PERIOD OF SUSPENSION (TERMINATION BY EITHER PARTY)

Period of suspension: Two months.

Clause 9.2.1 - ADJUDICATION

The Adjudicator is: To be agreed.

Nominating body - where no Adjudicator is named or where the named Adjudicator is unwilling or unable to act (whenever that is established): The Royal Institution of Chartered Surveyors.

Clause 9.4.1 - ARBITRATION

Appointer of Arbitrator (and of any replacement): President or a Vice President of the Royal Institution of Chartered Surveyors.

THE CONDITIONS

3.7-NAMED SUB-CONTRACTORS

Mechanical & Electrical Services: Note that John Clark Services Ltd are the appointed Maintenance Contractor for M & E Services and may be contacted on 01376 553388 in order to offer a quotation in connection with this project.

Windows & External Doors: To be supplied and fixed by Rosewell Windows & Doors Ltd 57 Godfrey Way, Dunmow, CM6 2SE

EXECUTION

The Contract: Will be executed as a deed.

A30
TENDERING/SUBLETTING/SUPPLY

A30 TENDERING/ SUBLETTING/ SUPPLY**MAIN CONTRACT TENDERING****110 SCOPE**

General: These conditions are supplementary to those stated in the Invitation to Tender and on the form of tender.

145 TENDERING PROCEDURE

General: In accordance with the National Association of Local Councils guide and the Public Contracts Regulations 2015.

160 EXCLUSIONS

Inability to tender: Immediately inform if any parts of the work as defined in the tender documents cannot be tendered.

Relevant parts of the work: Define those parts, stating reasons for the inability to tender.

170 ACCEPTANCE OF TENDER

The Council reserves the right to not accept the lowest or any Tender.

190 PERIOD OF VALIDITY

Period: After submission or lodgement, keep tender open for consideration (unless previously withdrawn) for not less than twelve weeks.

Date for possession/ commencement: See section A20.

PRICING/ SUBMISSION OF DOCUMENTS**210 PRELIMINARIES IN THE SPECIFICATION**

Measurement rules: Preliminaries/ General Conditions must not be relied on as having been prepared in accordance with RICS NRM.

250 PRICED DOCUMENTS

Alterations: Do not alter or qualify the priced documents without written consent.

Tenders containing unauthorised alterations or qualifications may be rejected.

Measurements: Where not stated, ascertain from the drawings.

Deemed included: Costs relating to items, which are not priced, will be deemed to have been included elsewhere in the tender.

Submit: With tender.

300 QUANTITIES IN THE PRICED DOCUMENT

Quantities: Where included in the priced document, these have been prepared in accordance with SMM7/ NRM2 only where and to the extent stated.

Other items, descriptions and measurements not prepared in accordance with SMM7/ NRM2: Must be priced taking account of the information given elsewhere in the tender documents, including for all associated and ancillary work shown or clearly apparent as being necessary for the complete and proper execution of the work.

310 TENDER

General: Tenders must include for all work shown or described in the tender documents as a whole or clearly apparent as being necessary for the complete and proper execution of the Works.

360 PRICED ACTIVITY SCHEDULE

Not applicable

480 PROGRAMME

Programme of work: Prepare a summary showing the sequence and timing of the principal parts of the Works and periods for planning and design. Itemize any work which is excluded.

Submit: Within one week of request.

510 ALTERNATIVE METHOD TENDERS

N/A

515 ALTERNATIVE TIME TENDERS

Option "A" to be based upon a 18 calendar week construction period

Option "B" to be based upon an alternative construction period of the Contractor's choosing

520A DESIGN DOCUMENTS

Scope: Include the following in the Contractor's Proposals:

- Design drawings
- Technical information:
- To follow

530 SUBSTITUTE PRODUCTS

Details: If products of different manufacture to those specified are proposed, submit details with the tender giving reasons for each proposed substitution. Substitutions, which have not been notified at tender stage, may not be considered.

Compliance: Substitutions accepted will be subject to the verification requirements of clause A31/200.

540 QUALITY CONTROL RESOURCES

Statement: Describe the organisation and resources to control the quality of the Works, including the work of subcontractors.

QA staff: Identify in the statement the number and type of staff responsible for quality control, with details of their qualifications and duties.

Submit: Within one week of request

550 HEALTH AND SAFETY INFORMATION

Content: Describe the organisation and resources to safeguard the health and safety of operatives, including those of subcontractors, and of any person whom the Works may affect.

Include:

- A copy of the contractor's health and safety policy document, including risk assessment procedures.
- Accident and sickness records for the past five years.
- Records of previous Health and Safety Executive enforcement action.
- Records of training and training policy.
- The number and type of staff responsible for health and safety on this project with details of their qualifications and duties.

570 OUTLINE CONSTRUCTION PHASE HEALTH AND SAFETY PLAN

Content: Submit the following information within one week of request:

- Method statements on how risks from hazards identified in the pre-construction information and other hazards identified by the contractor will be addressed.
- Details of the management structure and responsibilities.
- Arrangements for issuing health and safety directions.
- Procedures for informing other contractors and employees of health and safety hazards.
- Selection procedures for ensuring competency of other contractors, the self-employed and designers.
- Procedures for communications between the project team, other contractors and site operatives.
- Arrangements for cooperation and coordination between contractors.
- Procedures for carrying out risk assessment and for managing and controlling the risk.
- Emergency procedures including those for fire prevention and escape.
- Arrangements for ensuring that all accidents, illness and dangerous occurrences are recorded.
- Arrangements for welfare facilities.
- Procedures for ensuring that all persons on site have received relevant health and safety information and training.
- Arrangements for consulting with and taking the views of people on site.
- Arrangements for preparing site rules and drawing them to the attention of those affected and ensuring their compliance.
- Monitoring procedures to ensure compliance with site rules, selection and management procedures, health and safety standards and statutory requirements.
- Review procedures to obtain feedback.

599 FREEDOM OF INFORMATION

Records: Retain, make available for inspection and supply on request information reasonably required to allow response to requests made under the provisions of the Freedom of Information Act.

Determination: Submit requests received. Do not supply information to anyone other than the project participants without express written permission.

Confidentiality: Maintain at all times.

A31 PROVISION, CONTENT AND USE OF DOCUMENTS

DEFINITIONS AND INTERPRETATIONS

110 DEFINITIONS

Meaning: Terms, derived terms and synonyms used in the preliminaries/ general conditions and specification are as stated therein or in the appropriate British Standard or British Standard glossary.

120 COMMUNICATION

Definition: Includes advise, inform, submit, give notice, instruct, agree, confirm, seek or obtain information, consent or instructions, or make arrangements.

Format: In writing to the person named in clause A10/140 unless specified otherwise.

Response: Do not proceed until response has been received.

130 PRODUCTS

Definition : Materials, both manufactured and naturally occurring, and goods, including components, equipment and accessories, intended for the permanent incorporation in the Works.

Includes: Goods, plant, materials, site materials and things for incorporation into the Works.

135 SITE EQUIPMENT

Definition: All appliances or things of whatsoever nature required in or about the construction for completion of the Works but not materials or other things intended to form or forming part of the Permanent Works.

Includes: Construction appliances, vehicles, consumables, tools, temporary works, scaffolding, cabins and other site facilities.

140 DRAWINGS

Definitions: To BSRIA BG 6 A design framework for building services. Design activities and drawing definitions.

CAD data: In accordance with BS 1192.

145 CONTRACTOR'S CHOICE

Meaning: Selection delegated to the Contractor, but liability to remain with the specifier.

150 CONTRACTOR'S DESIGN

Meaning: Design to be carried out or completed by the Contractor and supported by appropriate contractual arrangements, to correspond with specified requirements.

155 SUBMIT PROPOSALS

Meaning: Submit information in response to specified requirements.

160 TERMS USED IN SPECIFICATION

Remove: Disconnect, dismantle as necessary and take out the designated products or work and associated accessories, fixings, supports, linings and bedding materials. Dispose of unwanted materials. Excludes taking out and disposing of associated pipework, wiring, ductwork or other services.

Fix: Receive, unload, handle, store, protect, place and fasten in position and disposal of waste and surplus packaging including all labour, materials and site equipment for that purpose.

Supply and fix: As above, but including supply of products to be fixed. All products to be supplied and fixed unless stated otherwise.

Keep for reuse: Do not damage designated products or work. Clean off bedding and jointing materials. Stack neatly, adequately protect and store until required by the Employer/ Purchaser or for use in the Works as instructed.

Make good: Execute local remedial work to designated work. Make secure, sound and neat. Excludes redecoration and/ or replacement.

Replace: Supply and fix new products matching those removed. Execute work to match original new state of that removed.

Repair: Execute remedial work to designated products. Make secure, sound and neat. Excludes redecoration and/ or replacement.

Refix: Fix removed products.

Ease: Adjust moving parts of designated products or work to achieve free movement and good fit in open and closed positions.

Match existing: Provide products and work of the same appearance and features as the original, excluding ageing and weathering. Make joints between existing and new work as inconspicuous as possible.

System: Equipment, accessories, controls, supports and ancillary items, including installation, necessary for that section of the work to function.

170 MANUFACTURER AND PRODUCT REFERENCE

Definition: When used in this combination:

- Manufacturer: The firm under whose name the particular product is marketed.
- Product reference: The proprietary brand name and/ or reference by which the particular product is identified.

Currency: References are to the particular product as specified in the manufacturer's technical literature current on the date of the invitation to tender.

200 SUBSTITUTION OF PRODUCTS

Products: If an alternative product to that specified is proposed, obtain approval before ordering the product.

Reasons: Submit reasons for the proposed substitution.

Documentation: Submit relevant information, including:

- manufacturer and product reference;
- cost;
- availability;
- relevant standards;
- performance;
- function;
- compatibility of accessories;
- proposed revisions to drawings and specification;
- compatibility with adjacent work;
- appearance;
- copy of warranty/ guarantee.

Alterations to adjacent work: If needed, advise scope, nature and cost.

Manufacturers' guarantees: If substitution is accepted, submit before ordering products.

210 CROSS REFERENCES

Accuracy: Check remainder of the annotation or item description against the terminology used in the section or clause referred to.

Related terminology: Where a numerical cross-reference is not given the relevant sections and clauses of the specification will apply.

Relevant clauses: Clauses in the referred to specification section dealing with general matters, ancillary products and execution also apply.

Discrepancy or ambiguity: Before proceeding, obtain clarification or instructions.

220 REFERENCED DOCUMENTS

Conflicts: Specification prevails over referenced documents.

230 EQUIVALENT PRODUCTS

Inadvertent omission: Wherever products are specified by proprietary name the phrase 'or equivalent' is to be deemed included.

240 SUBSTITUTION OF STANDARDS

Specification to British Standard or European Standard: Substitution may be proposed complying with a grade or category within a national standard of another Member State of the European Community or an international standard recognised in the UK.

Before ordering: Submit notification of all such substitutions.

Documentary evidence: Submit for verification when requested as detailed in clause A31/200. Any submitted foreign language documents must be accompanied by certified translations into English.

250 CURRENCY OF DOCUMENTS AND INFORMATION

Currency: References to published documents are to the editions, including amendments and revisions, current on the date of the Invitation to Tender.

260 SIZES

General dimensions: Products are specified by their co-ordinating sizes.

Timber: Cross section dimensions shown on drawings are:

- Target sizes as defined in BS EN 336 for structural softwood and hardwood sections.
- Finished sizes for non-structural softwood or hardwood sawn and further processed sections.

DOCUMENTS PROVIDED ON BEHALF OF EMPLOYER

410 ADDITIONAL COPIES OF DRAWINGS/ DOCUMENTS

Additional copies: Issued on request and charged to the Contractor.

440 DIMENSIONS

Scaled dimensions: Do not rely on.

450 MEASURED QUANTITIES

Ordering products and constructing the Works: The accuracy and sufficiency of the measured quantities is not guaranteed.

Precedence: The specification and drawings shall override the measured quantities.

460 THE SPECIFICATION

Coordination: All sections must be read in conjunction with Main Contract Preliminaries/ General conditions.

DOCUMENTS PROVIDED BY CONTRACTOR/ SUBCONTRACTORS/ SUPPLIERS

510 DESIGN AND PRODUCTION INFORMATION

Master programme: Make reasonable allowance for completing design/ production information, submission (including information relevant to the CDM Regulations), comment, inspection, amendment, resubmission and reinspection.

Design/ production information: Submit two copies, one could be returned with comments and this will be deemed to be a direction, notice or instruction under the Contract. Ensure that any necessary amendments are made without delay and resubmit unless it is confirmed that it is not required.

Contractor's changes to Employer's Requirements: Support request for substitution or variation with all relevant information.

Employer's amendments to Employer's Requirements: If considered to involve a variation, which has not already been acknowledged as a variation, notify without delay (maximum period 7 days), and do not proceed until instructed. Claims for extra cost, if made after it has been carried out, may not be allowed.

Final version of design/ production information: Submit two copies.

550 NAMED SUBCONTRACTORS: DESIGN AND PRODUCTION INFORMATION

General: Certain Subcontractors are/ will be required to provide design/ production information during the contract as described in the Conditions of Contract, clause 3.7.

Master programme: Make reasonable allowance, based on information in section A30, for completing design/ production information, checking, submission (including information relevant to the COM Regulations), comment, inspection, amendment, resubmission and reinspection.

Information from Subcontractors:

- Obtain in time to meet the programme and in accordance with NAM/T where applicable.
- Check dimensions are correct, account is taken of all related work, and construction is practicable. Note any comments on one copy of the design/ production information, then submit with the required number of additional unmarked copies. Such checking will not relieve the CA or the Subcontractors of their respective responsibilities for design, co- ordination and documentation.

Inspection and comments: One copy will be marked and returned to Contractor. This will not relieve the Subcontractors of their responsibility for design and documentation. Ensure that any necessary amendments are made without delay and resubmit unless it is confirmed that it is not required.

Final version of information: Distribute copies to all affected Subcontractors and others and keep one copy on site.

Submit two copies.

600A CONTRACTOR'S DESIGN INFORMATION

General: Complete the design and detailing of parts of the Works as specified.

Provide:

- Production information based on the drawings, specification and other information.
- Liaison to ensure coordination of the work with related building elements and services.

Master programme: Make reasonable allowance for completing design/ production information, submission (including information relevant to the CDM Regulations), comment, inspection, amendment, resubmission and reinspection.

Information required: Working drawings for comment.

- Format: Electronic. Paper copies of approved drawings.
- Number of copies: Two.

Submit: Within one week of request.

620 AS BUILT DRAWINGS AND INFORMATION

Contractor designed work: Provide drawings/ information

- Trades listed.

Submit: At least two weeks before date for completion.

630 TECHNICAL LITERATURE

Information: Keep on site for reference by all supervisory personnel:

- Manufacturers' current literature relating to all products to be used in the Works.
- Relevant British, EN or ISO Standards.

640 MAINTENANCE INSTRUCTIONS AND GUARANTEES

Components and equipment: Obtain or retain copies, register with manufacturer and hand over on or before completion of the Works.

Information location: In Building Manual.

Emergency call out services: Provide telephone numbers for use after completion. Extent of cover: twenty four hours week days only.

650 ENERGY RATING CALCULATION

Calculation documentation:

- Number of copies: Two.
- Deliver to: Energy Performance Certificate Assessor and also lodge in the Building Manual.

A32

MANAGEMENT OF THE WORKS

A32 MANAGEMENT OF THE WORKS**GENERALLY****110 SUPERVISION**

General: Accept responsibility for coordination, supervision and administration of the Works, including subcontracts.

Coordination: Arrange and monitor a programme with each subcontractor, supplier, local authority and statutory undertaker, and obtain and supply information as necessary for coordination of the work.

118 FREIGHT VEHICLE SAFETY REQUIREMENTS

Vehicle equipment: Ensure that all freight vehicles have the following:

- Audible alert to other road users to the planned movement of the vehicle when the vehicle's indicators are in operation.
- Prominent signage at the rear of the vehicle to warn cyclists of the dangers of passing the vehicle on the inside.
- Properly adjusted class VI mirror/s or Fresnel lens to eliminate the near side blind spot.
- Side under run guards.

Driver training:

- Drivers must be trained on vulnerable road user safety through an approved course and hold a current valid Certificate of Competence.
- Drivers must have a valid driving licence and be legally able to drive the vehicle.

Registration Scheme membership: Submit evidence of registration with and accreditation to the Freight Operator Registration Scheme (FORS)

Level of accreditation: Silver.

Submittal date: Before commencement of operations on site.

120 INSURANCE

Documentary evidence: Before starting work on site submit details, and/ or policies and receipts for the insurances required by the Conditions of Contract.

130 INSURANCE CLAIMS

Notice: If any event occurs which may give rise to any claim or proceeding in respect of loss or damage to the Works or injury or damage to persons or property arising out of the Works, immediately give notice to the Employer, the person named in clause A10/140 and the Insurers.

Failure to notify: Indemnify the Employer against any loss, which may be caused by failure to give such notice.

140 CLIMATIC CONDITIONS

Information: Record accurately and retain:

- Daily maximum and minimum air temperatures (including overnight).
- Delays due to adverse weather, including description of the weather, types of work affected and number of hours lost.

150 OWNERSHIP

Alteration/ clearance work: Materials arising become the property of the Contractor except where otherwise stated. Remove from site as work proceeds.

PROGRAMME/PROGRESS**210 PROGRAMME**

Master programme: When requested and before starting work on site, submit in an approved form a master programme for the Works, which must include details of:

- Design, production information and proposals provided by the Contractor/ Subcontractors/ Suppliers, including inspection and checking (see section A31).
- Planning and mobilization by the Contractor.
- Earliest and latest start and finish dates for each activity and identification of all critical activities.
- Running in, adjustment, commissioning and testing of all engineering services and installations
- Work resulting from instructions issued in regard to the expenditure of provisional sums (see section A54)
- Work by or on behalf of the Employer and concurrent with the Contract (see section A50). The nature and scope of which, the relationship with preceding and following work and any relevant limitations are suitably defined in the Contract Documents.

Exclusions: Where and to the extent that the programme implications for work which is not so defined are impossible to assess, the Contractor should exclude it and confirm this when submitting the programme.

Submit: two copies.

230 SUBMISSION OF PROGRAMME

Further information: Submission of the programme will not relieve the Contractor of the responsibility to advise of the need for further drawings or details or instructions in accordance with the Contract.

240 COMMENCEMENT OF WORK

Notice: Before the proposed date for commencement of work on site give minimum notice of two weeks.

260 SITE MEETINGS

General: Site meetings will be held to review progress and other matters arising from administration of the Contract.

Frequency: Every month.

Location: On site.

Accommodation: Ensure availability at the time of such meetings.

Attendees: Attend meetings and inform subcontractors and suppliers when their presence is required.

Chairperson (who will also take and distribute minutes): Contract Administrator.

265 CONTRACTOR'S PROGRESS REPORT

General: Submit a progress report at least Two days before the site meeting.

Content: Notwithstanding the Contractor's obligations under the Contract the report must include:

- A progress statement by reference to the master programme for the Works.
- Details of any matters materially affecting the regular progress of the Works.
- Subcontractors' and suppliers' progress reports.
- Any requirements for further drawings or details or instructions to fulfil any obligations under the Conditions of Contract.

290 NOTICE OF COMPLETION

Requirement: Give notice of the anticipated dates of completion of the whole or parts of the Works.

Associated works: Ensure necessary access, services and facilities are complete.

Period of notice (minimum): Two weeks

310 EXTENSIONS OF TIME

Notice: When a notice of the cause of any delay or likely delay in the progress of the works is given under the contract, written notice must also be given of all other causes which apply concurrently.

Details: As soon as possible submit:

- Relevant particulars of the expected effects, if appropriate, related to the concurrent causes
- An estimate of the extend, if any, of the expected delay in the completion of the Works
- All other relevant information required

CONTROL OF COST**410 CASH FLOW FORECAST**

Submission: Before starting work on site submit a forecast showing the gross valuation of the Works at the date of each Interim Certificate throughout the Contract period. Base on the programme for the Works.

420 REMOVAL/REPLACEMENT OF EXISTING WORK

Extent and location: Agree before commencement

Execution: Carry out in ways that minimize the extent of work

430 PROPOSED INSTRUCTIONS

Estimates: If a proposed instruction requests an estimate of cost, submit without delay and in any case within seven days

Include:

- A detailed breakdown of the cost, including any allowance for direct loss and expense
- Details of any additional resources required
- Details of any adjustments to be made to the programme for the Works
- Any other information as is reasonably necessary to fully assess the implications of Issuing such an instruction

Inability to comply: Inform immediately if it is not possible to comply with any of the above requirements

440 MEASUREMENT

Covered work: Give notice before covering work required to be measured

450 DAYWORK VOUCHERS

Before commencing work: Give reasonable notice to person countersigning daywork vouchers

Content: Before delivery each voucher must be:

- Referenced to the instruction under which the work is authorised
- Signed by the Contractor's person in charge as evidence that the operatives' names, the time daily spent by each and the equipment and products employed are correct

Submit: By the end of the week in which the work has been executed

470 PRODUCTS NOT INCORPORATED INTO THE WORKS

Ownership: At the time of each valuation, supply details of those products not incorporated into the Works which are subject to any reservation of title inconsistent with passing of property as required by the Conditions of Contract, together with their respective values

Evidence: When requested provide evidence of freedom of reservation of title

475 LISTED PRODUCTS STORED OFF SITE

Evidence of Title: Submit reasonable proof that the property in "listed items" is vested in the Contractor

Include the products purchased from a supplier:

- A copy of the contract of sale and a written statement from the supplier that any conditions of the sale relating to the passing of property have been fulfilled and the products are not subject to any encumbrance or charge

Include for products purchased from a supplier by a subcontractor or manufactured or assembled by any subcontractor:

- Copies of the subcontract with the subcontractor and a written statement from the Subcontractor that any conditions relating to the passing of property have been fulfilled

480 LABOUR AND EQUIPMENT RETURNS

- Records: Provide for verification at the beginning of each week in respect of each of the previous seven days
- Records must show:
 - The number and description of craftsmen, labourers and other persons directly or indirectly employed on or in connection with the Works or Services, including those employed in connection with the Works or Services

A33
QUALITY STANDARDS/CONTROL

A33 QUALITY STANDARDS/CONTROL**STANDARDS OF PRODUCTS AND EXECUTIONS****110 INCOMPLETE DOCUMENTATION**

- General: Where and to the extent that products or work are not fully documented, they are to be:
 - Of a kind and standard appropriate to the nature and character of that part of the Works where they will be used
 - Suitable for the purposes stated or reasonably to be inferred from the project documents.
- Contract documents: Omissions or errors in description and/or quantity shall not vitiate the Contract nor release the Contractor from any obligations or liabilities under the Contract

120 WORKMANSHIP SKILLS

- Operatives: Appropriately skilled and experienced for the type and quality of work
- Registration: With Construction Skills Certification Scheme
- Evidence: Operatives must produce evidence of skills/qualifications when requested

130 QUALITY OF PRODUCTS

- Generally: New. (Proposals for recycled products may be considered)
- Supply of each product: From the same source or manufacturer
- Whole quantity of each product required to complete the Works: Consistent kind, size, quality and overall appearance
- Tolerances: Where critical, measure a sufficient quantity to determine compliance.
- Deterioration: Prevent. Order in suitable quantities to a programme and use in appropriate sequence

135 QUALITY OF EXECUTION

- Generally: Fix, apply, install or lay products securely, accurately, plumb, neatly and in alignment
- Colour batching: Do not use different colour batches where they can be seen together
- Dimensions: Check on-site dimensions
- Finished work: Not defective, e.g., not damaged, disfigured, dirty, faulty, or out of tolerance
- Location and fixing of products: Adjust joints open to view so they are even and regular

140 COMPLIANCE

- Compliance with proprietary specifications: Retain on site evidence that the proprietary product specified has been supplied
- Compliance with performance specifications: Submit evidence of compliance, including test reports indicating:
 - Properties tested
 - Pass/fail criteria
 - Test methods and procedures
 - Test results
 - Identity of testing agency
 - Test dates and times
 - Identities of witnesses
 - Analysis of results

150 INSPECTIONS

- Products and executions: Inspection or any other action must not be taken as approval unless confirmed in writing referring to:
 - Date of inspection
 - Part of the work inspected
 - Respects or characteristics which are approved
 - Extent and purpose of the approval
 - Any associated conditions

160 RELATED WORK

- Details: Provide all trades with necessary details of related types of work. Before starting each new type or section of work ensure previous related work is:
 - Appropriately complete
 - In accordance with the project documents
 - To a suitable standard
- Preparatory work: Ensure all necessary preparatory work has been carried out

170 MANUFACTURER'S RECOMMENDATIONS/INSTRUCTIONS

- General: Comply with manufacturer's printed recommendations and instructions current on the date of the Invitation to Tender
- Changes to recommendations or instructions: Submit details
- Ancillary products and accessories: Use those supplied or recommended by main product manufacturer
- Agreement certified products: Comply with limitations, recommendations and requirements of relevant valid certificates

180 WATER FOR THE WORKS

- Mains supply: Clean and uncontaminated
- Other: Do not use until:
 - Evidence of suitability is provided
 - Tested to BS EN 1008 if instructed

SAMPLES/APPROVALS

210 SAMPLES

- Products or executions: Comply with all other specification requirements and in respect of the stated or implied characteristics either:
 - To an express approval
 - To match a sample expressly approved as a standard for the purpose

220 APPROVAL OF PRODUCTS

- Submissions, samples, inspections and tests: Undertake or arrange to suit the Works programme
- Approval: Relates to a sample of the product and not to the product as used in the Works. Do not confirm orders or use the product until approval of the sample has been obtained
- Complying sample: Retain in good, clean condition on site. Remove when no longer required

230 APPROVAL OF EXECUTION

- Submissions, samples, inspections and tests: Undertake or arrange to suit the Works programme
- Approval: Relates to the stated characteristics of the sample. (if approval of the finished work as a whole is required this is specified separately). Do not conceal, or proceed with affected work until compliance with requirements is confirmed
- Complying sample: Retain in good, clean condition on site. Remove when no longer Required

ACCURACY/SETTING OUT GENERALLY

320 SETTING OUT

- General: Submit details of methods and equipment to be used in setting out of the Works
- Levels and dimensions: Check and record the results on a copy of drawings. Notify discrepancies and obtain instructions before proceeding
- Inform: When complete and before commencing construction

330 APPEARANCE AND FIT

- Tolerances and dimensions: If likely to be critical to execution or difficult to achieve, as early as possible either:
 - Submit proposals or
 - Arrange for inspection of appearance of relevant aspects of partially finished work
- General tolerances (maximum): To BS 5606, tables 1 and 2

350 LEVELS OF STRUCTURAL FLOORS

- Maximum tolerances for designed levels to be:
 - Floors to be self-finished, and floors to receive sheet or tile finishes directly bedded in adhesive +/- 10mm
 - Floors to receive dry board/panel construction with little or no tolerance on thickness: +/- 10mm
 - Floors to receive mastic asphalt flooring/underlays directly: +/- 10mm
 - Floors to receive mastic asphalt flooring/underlays laid on mastic asphalt levelling coat(s): +/- 15mm
 - Floors to receive fully bonded screeds/toppings/beds: +/- 15mm
 - Floors to receive unbonded or floating screeds/beds: +/- 20mm

360 RECORD DRAWINGS

- Site setting out drawing: Record details of all grid lines, setting-out stations, benchmarks and profiles. Retain on site throughout the contract and hand over on completion

SERVICES GENERALLY

410 SERVICES REGULATIONS

- New or existing services: Comply with the Byelaws or Regulations of the relevant Statutory Authority

420 WATER REGULATIONS/BYELAWS NOTIFICATION

- Requirements: Notify Water Undertaker of any work carried out to or which affects new or existing services and submit any required plans, diagrams and details
- Consent: Allow adequate time to receive Undertaker's consent before starting work. Inform immediately if consent is withheld or is granted subject to significant conditions

430 WATER REGULATIONS/BYELAWS CONTRACTOR'S CERTIFICATE

- On completion of the work: Submit (copy where also required to the Water Undertaker) a Certificate including:
 - The address of the premises
 - A brief description of the new installation and/or work carried out to an existing installation
 - The Contractor's name and address
 - A statement that the installation complies with the relevant Water Regulations or Byelaws
 - The name and signature of the individual responsible for checking compliance
 - The date on which the installation was checked

435 ELECTRICAL INSTALLATION CERTIFICATE

- Submit: When relevant electrical work is completed
- Original certificate: To be lodged in the Building Manual

440 GAS, OIL AND SOLID FUEL APPLIANCE INSTALLATION CERTIFICATE

- Before the completion date stated in the Contract: Submit a certificate stating:
 - The address of the premises
 - A brief description of the new installation and/or work carried out to an existing Installation
 - Any special recommendations or instructions for the safe use and operation of appliances and flues
 - The Contractor's name and address
 - A statement that the installation complies with the appropriate safety, installation and use regulations
 - The name, qualification and signature of the competent person responsible for checking compliance
 - The date on which the installation was checked
- Certificate location: Building Manual

445 SERVICE RUNS

- General: Provide adequate space and support for services, including unobstructed routes and fixings
- Ducts, chases and holes: Form during construction rather than cut
- Coordination with other works: Submit details of locations, types/methods of fixing of services to fabric and identification of runs and fittings

450 MECHANICAL AND ELECTRICAL SERVICES

- Final tests and commissioning: Carry out so that services are in full working order at completion of the Works
- Building Regulations notice: Copy to be lodged in the Building Manual

SUPERVISION/INSPECTION/DEFECTIVE WORK

510 SUPERVISION

- General: In addition to the constant management and supervision of the Works provided by the Contractor's person in charge, all significant types of work must be under the close control of competent trade supervisors to ensure maintenance of satisfactory quality and progress
- Replacement: Give maximum possible notice before changing person in charge or site agent

520 COORDINATION OF ENGINEERING SERVICES

- Suitability: Site organisation staff must include one or more persons with appropriate knowledge and experience of mechanical and electrical engineering services to ensure compatibility between engineering and the Works generally
- Evidence: Submit when requested CV's or other documentary evidence relating to the staff concerned

540 DEFECTS IN EXISTING WORK

- Undocumented defects: When discovered, immediately give notice. Do not proceed with affected related work until response has been received
- Documented remedial work: Do not execute work which may:
 - Hinder access to defective products or work or
 - Be rendered abortive by remedial work

550 ACCESS FOR INSPECTION

- Removal: Before removing scaffolding or other facilities for access, give notice of not less than two days

560 TESTS AND INSPECTIONS

- Timing: Agree and record dates and times of tests and inspections to enable all affected parties to be represented
- Confirmation: One working day prior to each such test or inspection. If sample or test is not ready, agree a new date and time.
- Records: Submit a copy of test certificates and retain copies on site

570 AIR PERMEABILITY

- Testing organisation: UKAS accredited and registered with the Air Tightness Testing and Measurement Association (ATTMA)
- Method:
 - Pressure test in accordance with the ATTMA publication: TS 1: Measuring Air Permeability of Building Envelopes (Dwellings)
- Standard:
 - Design Air tightness value (maximum): As specification. m³/(h.m²)
- Results:
 - Content: Include test results and all supporting data
 - Copies: Required for building control inspection and inclusion in Building Manual
 - Electronic deposit: Through the ATTMA lodgement database
 - Additional copies: Provide on request

580 CONTINUITY OF THERMAL INSULATION

- Record and report: Confirm that work to new, renovated or upgraded thermal elements has been carried out to conform to specification. Include:
 - The address of the premises
 - The Contractor's name and address
 - The name, qualification and signature of the competent person responsible for checking compliance
 - The date on which the installation was checked
- Submit: Before completion of the Works
- Copy: To be lodged in the Building Manual

610 PROPOSALS FOR RECTIFICATION OF DEFECTIVE PRODUCTS/EXECUTIONS

- Proposals: Immediately any work or product is known, or appears, to be not in accordance with the Contract, submit proposals for opening up, inspection, testing, making good, adjustment of the Contract Sum, or removal and re-execution
- acceptability: Such proposals may be unacceptable and contrary instructions may be issued

620 MEASURES TO ESTABLISH ACCEPTABILITY

- General: Wherever inspection or testing shows that the work, materials or goods are not in accordance with the contract and measures (e.g., testing, opening up, experimental making good) are taken to help in establishing whether or not the work is acceptable, such measures:
 - Will be at the expense of the Contractor
 - Will not be considered as grounds for revision of the completion date

630 QUALITY CONTROL

- Procedures: Establish and maintain to ensure that the Works, including the work of Sub-contractors, comply with specified requirements
- Records: Maintain full records, keep copies on site for inspection, and submit copies on request
- Content of records:
 - Identification of the element, item, batch or lot including location in the Work
 - Nature and dates of inspections, tests and approvals
 - Nature and extent of nonconforming work found
 - Details of corrective action

WORK AT OR AFTER COMPLETION

710 WORK BEFORE COMPLETION

- General: Make good all damage consequent upon the Works
- Temporary markings, coverings and protective wrappings: Remove unless otherwise instructed
- Cleaning: Clean the Works thoroughly inside and out, including all accessible ducts and voids. Remove all splashes, deposits, efflorescence, rubbish and surplus materials
- Cleaning materials and methods: As recommended by manufacturers of products being cleaned, and must not damage or disfigure other materials or construction
- COSHH dated data sheets: Obtain for all materials used for cleaning and ensure they are used only as recommended by their manufacturer
- Minor faults: Touch up in newly painted work, carefully matching colour and brushing out edges. Repaint badly marked areas back to suitable breaks or junctions
- Moving parts of new work: Adjust, ease and lubricate as necessary to ensure easy and efficient operation, including doors, windows, drawers, ironmongery, appliances, valves and controls

720 SECURITY AT COMPLETION

- General: Leave the Works secure with, where appropriate all accesses closed and locked
- Keys: Account for and adequately label all keys and hand over to Employer with itemised schedule, retaining duplicate schedule signed by Employer as a receipt

730 MAKING GOOD DEFECTS

- Remedial work: Arrange access with Contract Administrator
- Rectification: Give reasonable notice for access to the various parts of the Works
- Completion: Notify when remedial works have been completed

A34
SECURITY/SAFETY/PROTECTION

A34 SECURITY/SAFETY/PROTECTION**SECURITY, HEALTH AND SAFETY****110 PRECONSTRUCTION INFORMATION**

See separate document appended to this information.

140 CONSTRUCTION PHASE HEALTH AND SAFETY PLAN

- Submission: Present to the Employer/Client no later than two weeks before the commencement of works
- Confirmation: Do not start construction work until the Employer has confirmed in writing that the Construction Phase Health and Safety Plan includes the procedures and arrangements required by the CDM Regulations
- Content: Develop the plan from and draw on the Outline Construction Phase Health and Safety Plan, clause A30/570, and the Pre-tender Health and Safety Plan/Preconstruction information

150 SECURITY

- Protection: Safeguard the site, the Works, products, materials and any existing buildings affected by the Works from damage and theft
- Access: Take all reasonable precautions to prevent unauthorised access to the site, the Works and adjoining property
- Special requirements: See sketch layout indicating location of Contractor's compound and site hoarding

160 STABILITY

- Responsibility: Maintain the stability and structural integrity of the Works and adjacent structures during the Contract
- Design loads: Obtain details, support as necessary and prevent overloading

200 MOBILE TELEPHONES AND PORTABLE ELECTRONIC EQUIPMENT

- Restrictions on use:
 - None

210 EMPLOYER'S REPRESENTATIVES SITE VISITS

- Safety: Submit details in advance to the Employer or the person identified in clause A10/140 of safety provisions and procedures (including those relating to materials, which maybe deleterious) which will require their compliance when visiting the site
- Protective clothing and/or equipment: Provide and maintain on site for the Employer and the person stated in clause A10/140 and other visitors to the site

PROTECT AGAINST THE FOLLOWING**340 POLLUTION**

- Prevention: Protect the site, the Works and the general environment including the atmosphere, land, streams and waterways against pollution
- Contamination: If pollution occurs inform immediately, including to the appropriate Authorities and provide relevant information

350 PESTICIDES

- Use: Only where specified or approved, and then only suitable products listed on www.pesticides.gov.uk
- Restrictions: Work near water, drainage ditches or land drains must comply with the "Guidelines for the use of herbicides on weeds in or near watercourses and lakes"
- Containers: Comply with manufacturer's disposal recommendations. Remove from site immediately empty or no longer required
- Competence: Operatives must hold a BASIS Certificate of Competence or work under supervision of a Certificate holder

360 NUISANCE

- Duty: Prevent nuisance from smoke, dust, rubbish, vermin and other causes
- Surface water: Prevent hazardous build-up on site, in excavations and to surrounding areas and roads

370 ASBESTOS CONTAINING MATERIALS

- Duty: Report immediately any suspected materials discovered during execution of the Works
 - Do not disturb
 - Agree methods for safe removal or encapsulation

371 DANGEROUS OR HAZARDOUS SUBSTANCES

- Duty: Report immediately suspected materials discovered during execution of the Works
 - Do not disturb
 - Agree methods for safe removal or remediation

375 ANTIQUITIES

- Duty: Report immediately any fossils, antiquities and other objects of interest or value discovered during execution of the Works
- Preservation: Keep objects in the exact position and condition in which they are found

380 FIRE PREVENTION

- Duty: Prevent personal injury or death and damage to the Works or other property from fire
- Standard: Comply with Joint Code of Practice "Fire Prevention on Construction Sites" published by Construction Industry Publications and The Fire Protection Association (The "Joint Fire Code")

390 SMOKING ON SITE

- Smoking on site: Not permitted

400 BURNING ON SITE

- Burning on site: Not permitted

410 MOISTURE

- Wetness or dampness: Prevent, where this may cause damage to the Works
- Drying out: Control humidity and the application of heat to prevent
 - Blistering and failure of adhesion
 - Damage due to trapped moisture
 - Excessive movement

420 INFECTED TIMBER/CONTAMINATED MATERIALS

- Removal: Where instructed to remove material affected by fungal/insect attack from the building, minimize the risk of infecting other parts of the building
- Testing: Carry out and keep records of appropriate tests to demonstrate that hazards presented by concentrations of airborne particles, toxins and other micro organisms are within acceptable levels

430 WASTE

- Includes: Rubbish, debris, spoil, surplus material, containers and packaging
- General: Minimize production. Prevent accumulations. Keep the site and Works clean and tidy
- Handling: Collect and store in suitable containers. Remove frequently and dispose off site in a safe and competent manner
 - Non-hazardous material: In a manner approved by the Waste Regulation Authority
 - Hazardous material: As directed by the Waste Regulation Authority and in accordance with relevant regulations
- Recyclable material: Sort and dispose at a Materials Recycling Facility approved by the Waste Regulation Authority
- Voids and cavities in the construction: Remove rubbish, dirt and residues before closing in
- Waste transfer documentation: Retain on site

440 ELECTROMAGNETIC INTERFERENCE

- Duty: Prevent excessive electromagnetic disturbance to apparatus outside the site

450 LASER EQUIPMENT

- Construction laser equipment: Install, use and store in accordance with BS EN 60825-1 and the manufacturer's instructions
- Class 1 or Class 2 laser equipment: Ensure laser beam is not set at eye level and is terminated at the end of its useful path
- Class 3A and Class 3B laser equipment: Do not use without approval and subject to submission of a method statement on its safe use

PROTECT THE FOLLOWING**510 EXISTING SERVICES**

- Confirmation: Notify all service authorities, statutory undertakers and/or adjacent owners of proposed works not less than one week before commencing site operations
- Identification: Before starting work, check and mark positions of utilities/services. Where positions are not shown on drawings obtain relevant details from service authorities, statutory undertakers or other owners
- Work adjacent to services:
 - Comply with service authorities/statutory undertaker's recommendations
 - Adequately protect and prevent damage to services: Do not interfere with their operation without consent of service authorities/statutory undertakers or other owners
- Identifying services:
 - Below ground: Use signboards, giving type and depth
 - Overhead: Use headroom markers
- Damage to services: If any results from execution of the Works:
 - Immediately give notice and notify appropriate service authority/statutory undertaker
 - Make arrangements for the work to be made good without delay to the satisfaction of service authority/statutory undertaker or other owner as appropriate
 - Any measures taken to deal with an emergency will not affect the extent of the Contractor's liability
- Marker tapes or protective covers: Replace, if disturbed during site operations, to service authorities/statutory undertaker's recommendations

520 ROADS AND FOOTPATHS

- Duty: Maintain roads and footpaths within and adjacent to the site and keep clear of mud and debris
- Damage caused by site traffic or otherwise consequent upon the Works: Make good to the satisfaction of the Employer, Local Authority or other owner

530 EXISTING TOIISOIL/SUBSOIL

- Duty: Prevent over compaction of existing topsoil and subsoil in those areas which may be damaged by construction traffic, parking of vehicles, temporary site accommodation or storage of materials and which will require reinstatement prior to completion of the Works
- Protection: Before starting work submit proposals for protective measures

540 RETAINED TREES/SHRUBS/GRASSED AREAS

- Protection: Preserve and prevent damage, except those not required
- Replacement: Mature trees and shrubs if uprooted, destroyed or damaged beyond reasonable chance of survival in their original shape, as a consequence of the Contractor's negligence, must be replaced with those of a similar type and age at the Contractor's expense

550 RETAINED TREES

- Protected area: Unless agreed otherwise do not:
 - Dump spoil or rubbish, excavate or disturb topsoil, park vehicles or plant, store materials or place temporary accommodation within an area which is the larger of the branch spread of the tree or an area with a radius of half the tree's height, measured from the trunk
 - Sever roots exceeding 25mm in diameter. If unintentionally severed give notice and seek advice
 - Change level of ground within area 3m beyond branch spread

620 ADJOINING PROPERTY

- Permission: Obtain as necessary from owners if requiring to erect scaffolding on or otherwise use adjoining property

625 ADJOINING PROPERTY RESTRICTIONS

- Precautions:
 - Prevent trespass of workpeople and take precautions to prevent damage to adjoining property
 - Pay all charges
 - Remove and make good on completion or when directed
- Damage: Bear cost of repairing damage arising from execution of the Works

630 EXISTING STRUCTURES

- Duty: Check proposed methods of work for effects on adjacent structures inside and outside the site boundary
- Supports: During execution of the Works:
 - Provide and maintain all incidental shoring, strutting, needling and other supports as may be necessary to preserve stability of existing structures on the site or adjoining, that may be endangered or affected by the Works
 - Do not remove until new work is strong enough to support existing structure
- Adjacent structures: Monitor and immediately report excessive movement
- Standard: Comply with BS 5975 and BS EN 12812

640 MATERIALS FOR RECYCLING/REUSE

- Duty: Sort and prevent damage to stated products or materials, clean off bedding and jointing materials and other contaminants
- Storage: Stack neatly and protect until required by the Employer or for use in the Works as instructed

SPECIFIC LIMITATIONS ON METHOD/SEQUENCE/TIMING

A35 SPECIFIC LIMITATIONS ON METHOD/SEQUENCE/TIMING

110 SCOPE

- General: The limitations described in this section are supplementary to limitations described or implicit in information given in other sections or on the drawings

140 SCAFFOLDING

- Scaffolding: Make available to sub-contractors and others at all times

180 COMPLETION IN SECTIONS OR IN PARTS

- General: Where the Employer is to take possession of any Section or part of the Works and such Section or part will, after its practical completion, depend for its adequate functioning on work located elsewhere on the site: Complete such other work in time to permit such possession to take place
- Remainder of the Works: During execution, ensure that completed Sections or parts of the Works have continuous and adequate provision of services, fire precautions, means of escape and safe access

190 HOURS OF WORKING

Working hours shall be restricted to 0800 to 1800 Mondays to Fridays, 0800 to 1300 Saturdays. No works Sundays or Bank Holidays.

A36

FACILITIES/TEMPORARY WORK/SERVICES

A36 FACILITIES/TEMPORARY WORK/SERVICES**GENERALLY****110 SPOIL HEAPS, TEMPORARY WORKS AND SERVICES**

Location: Within Contractor's compound

Maintenance: Alter, adapt and move as necessary. Remove when no longer required and make good

ACCOMMODATION

(See Drawing No. R-07 for location)

210 ROOM FOR MEETINGS

- Facilities: Provide suitable temporary accommodation for site meetings, adequately heated and lit. The room may be part of the Contractor's own site offices
- Furniture and Equipment: Provide table and chairs for eight people

230 TEMPORARY ACCOMMODATION

- Proposals for temporary accommodation and storage for the Works: Submit two weeks prior to starting on site
- Details to be included: Type of accommodation and storage, its siting and the programme for site installation and removal

260 SANITARY ACCOMMODATION

- Requirement: Provide sanitary accommodation for the Employer/Purchaser and other members of the consultant team, either separate or shared with the Contractor's supervisory staff. Maintain in clean condition and provide all consumables

TEMPORARY WORKS**SERVICES AND FACILITIES****410 LIGHTING**

- Finishing work and inspection: Provide temporary lighting, the intensity and direction of which closely resembles that delivered by the permanent installation

440 MOBILE TELEPHONES

- Direct communication: As soon as practicable after the start on site:
 - Provide the Contractor's person in charge with a mobile telephone
 - Pay all charges reasonably incurred

470 E-MAIL AND INTERNET FACILITY

- General: As soon as practicable after the start on site provide a suitable e-mail facility on site, with a separate dedicated telephone line, for the use of the Contractor, Sub-Contractors and those acting on behalf of the Employer
- Use of behalf of Employer: Allow for the cost of a reasonable number of transmissions made by those acting on behalf of the Employer
- Peripherals: To be agreed

520 USE OF PERMANENT HEATING SYSTEM

- Permanent heating installation: May be used for drying out the Works/services and controlling temperature and humidity levels
- Installation: if used:
 - Take responsibility for operation, maintenance and remedial work
 - Arrange supervision by and indemnification of the appropriate sub-contractors
 - Pay costs arising

530 BENEFICIAL USE OF INSTALLED SYSTEMS

- Permanent systems: Unless specific permission is given by the Employer and installer, do not use for any purpose other than running in, testing and commissioning
- Other uses: If permission is given for any other use of a system before the Works are accepted as complete, enter into a separate written agreement recording details of the terms and conditions of use

540 METER READINGS

- Charges for service supplies: Where to be apportioned ensure that:
 - Meter readings are taken by relevant authority at possession and/or completion as appropriate
 - Copies of readings are supplied to interested parties

550 THERMOMETERS

- General: Provide on site and maintain in accurate condition a maximum and minimum thermometer for measuring atmospheric shade temperature, in an approved location

570 PERSONAL PROTECTIVE EQUIPMENT

- General: Provide for the sole use of those acting on behalf of the Employer, in sizes to be specified:
 - Safety helmets to BS EN 397, neither damaged nor time expired: Number required: 2
 - High visibility waistcoats to BS EN ISO 20471 Class 2. Number required: 2
 - Safety boots with steel insole and toecap to BS EN ISO 20345. Pairs required: 0
 - Disposable respirators to BS EN 149.FFP1S
 - Eye protection to BS EN 166
 - Ear protection – muffs to BS EN 352-1, plugs to BS EN 352-2
 - Hand protection – to BS EN 388, 407, 420 or 511 as appropriate

A37

OPERATION/MAINTENANCE OF THE FINISHED WORKS

A37 OPERATION/MAINTENANCE OF THE FINISHED WORKS

GENERALLY

110 THE BUILDING MANUAL

- Purpose: The Manual is to be a comprehensive information source and guide for owners and users of the completed Works. It should provide an overview of the main design principles and describe key components and systems to enable proper understanding, efficient and safe operation and maintenance
- Scope:
 - Part 1: General: Content as clause 120
 - Part 2: Fabric: Content as clause 130
 - Part 3: Services: Content as clause 140
 - Part 4: The Health and Safety File: Content as clause 150
 - Part 5: Building User Guide: Content as clause 151
- Responsibility: The Building Manual is to be produced by contractor and must be complete no later than Practical Completion
- Information provided by others: Details: As built drawings
- Compilation:
 - Prepare all information for Contractor designed or performance specified work including as-built drawings
 - Obtain or prepare all other information to be included in the Manual
- Reviewing the Manual: Submit a complete draft. Amend in the light of any comments and resubmit. Do not proceed with production of the final copies until authorised
- Final copies of the Manual:
 - Number of copies: Two
 - Format: Electronic
 - Latest date for submission: One week before the date for completion stated in the Contract
- As-built drawings and schedules:
 - Number of copies: Two
 - Format: Electronic

115 THE HEALTH AND SAFETY FILE

- Responsibility: The Contractor
- Content: Obtain and provide the following information: As recommended by HSE L153
- Format: Electronic
- Delivery to: Contract Administrator by (date): Practical Completion

120 CONTENT OF THE BUILDING MANUAL PART 1: GENERAL

- Content: Obtain and provide the following, including all relevant details not included in other parts of the manual:
- Index: List the constituent parts of the manual, together with their location in the document
- The Works:
 - Description of the buildings and facilities
 - Ownership and tenancy, where relevant
 - Health and Safety information – other than that specifically require by the Construction (Design and Management) Regulations
- The Contract:
 - Names and addresses and contact details of all significant consultants, contractors, sub-contractors, suppliers and manufacturers
 - Overall design criteria
 - Environmental performance requirements
 - Relevant authorities, consents and approvals
 - Third party certification, such as those made by competent persons in accordance with the Building Regulations
- Operational requirements and constraints of a general nature:
 - Maintenance contracts and contractors
 - Fire safety strategy for the buildings and the site. Include drawings showing emergency escape and fire appliance routes, fire resisting doors location of emergency alarm and fire fighting systems, services, shut off valves switches, etc.
 - Emergency procedures and contact details in case of emergency
 - Other specific requirements: None
- Description and location of other key documents
- Timescale for completion: Practical Completion

130 CONTENT OF THE BUILDING MANUAL PART 2: BUILDING FABRIC

- Content: Obtain and provide the following, including all relevant details not included in other parts of the manual:
- Detailed design criteria, including:
 - Floor and roof loadings
 - Durability of individual components and elements
 - Loading restrictions
 - Insulation values
 - Fire ratings
 - Other relevant performance requirements
- Construction of the building:
 - A detailed description of methods and materials used
 - As-built drawings recording the construction, together with an index
 - Information and guidance concerning repair, renovation or demolition/deconstruction
- Periodic building maintenance guide chart
- Inspection reports
- Manufacturer's instructions index, including relevant COSHH data sheets and recommendations for cleaning, repair and maintenance of components
- Fixtures, fittings and components schedule and index
- Guarantees, warranties and maintenance agreements – obtain from manufacturers, suppliers and sub-contractors
- Test certificates and reports required in the specification or in accordance with legislation, including:
 - Air permeability
 - Resistance to passage of sound
 - Continuity of insulation
 - Electricity and Gas safety
- Other specific requirements: None
- Timescale for completion: Practical Completion

140 CONTENT OF THE BUILDING MANUAL PART 3: BUILDING SERVICES

- Content: Obtain and provide the following, including all relevant details not included in other parts of the manual:
- Detailed design criteria and description of the systems, including:
 - Services capacity, loadings and restrictions
 - Services instructions
 - Services log sheets
 - Manufacturer's instruction manuals and leaflets index
 - Fixtures, fittings and component schedule index
- Detailed description of methods and materials used
- As-built drawings for each system recording the construction, together with an index, including:
 - Diagrammatic drawings indicating principal items of plant, equipment and fittings
 - Record drawings showing overall installation
 - Schedules of plant, equipment, valves, etc. describing location, design performance and unique identification cross referenced to the record drawings
 - Identification of services – a legend for colour coded services
- Product details, including for each item of plant and equipment:
 - Name, address and contact details of the manufacturer
 - Catalogue number or reference
 - Manufacturer's technical literature, including detailed operating and maintenance instructions
 - Information and guidance concerning dismantling, repair, renovation or decommissioning
- Operation: A description of the operation of each system, including:
 - Starting up, operation and shutting down
 - Control sequences
 - Procedures for seasonal changeover
 - Procedures for diagnostics, troubleshooting and faultfinding
- Guarantees, warranties and maintenance agreements – obtain from manufacturers, suppliers and sub-contractors
- Commissioning records and test certificates list for each item of plant, equipment, valves, etc. used in the installations – including:
 - Electrical circuit tests
 - Corrosion tests
 - Type tests
 - Work tests
 - Start and commissioning tests
- Equipment settings: Schedules of fixed and variable equipment settings established during commissioning
- Preventive maintenance: Recommendations for frequency and procedures to be adopted to ensure efficient operation of the systems
- Lubrication: Schedules of all lubricated items
- Consumables: A list of all consumable items and their source
- Spares: A list of recommended spares to be kept in stock, being those items subject to wear and tear or deterioration and which may involve an extended delivery time when replacements are required
- Emergency procedures for all systems, significant items of plant and equipment
- Annual maintenance summary chart
- Other specific requirements: None
- Timescale for completion: Practical Completion

150 CONTENT OF THE BUILDING MANUAL PART 4: THE HEALTH AND SAFETY FILE

- Content: Obtain and provide the following, including all relevant details not included in other parts of the manual, including
 - Residual hazards and how they have been dealt with
 - Hazardous materials used
 - Information regarding the removal or dismantling of installed plant and equipment
 - Health and Safety information about equipment provided for cleaning or maintaining the structure
 - The nature, location and markings of significant services
 - Information and as-built drawings of the structure, its plan and equipment
- Information prepared by others: Details: As built drawings
- Timescale for completion: Practical Completion
- Submit to: Contract Administrator

151 CONTENT OF THE BUILDING MANUAL PART 5: THE BUILDING USER GUIDE

- Content: Obtain and provide the following:
 - Building services information
 - Emergency information]
 - Energy and environmental strategy
 - Water use
 - Transport facilities
 - Materials and waste policy
 - Re-fit/re-arrangement considerations
 - Training
 - Links and references
- Other specific requirements: None
- Timescale for completion: Practical Completion

160 PRESENTATION OF BUILDING MANUAL

- Format: A4 size, plastic covered, loose leaf, four ring binders with hard covers, each indexed, divided and appropriately cover titled
- Selected drawings needed to illustrate or locate items mentioned in the Manual: Where larger than A4, to be folded and accommodated in the binders so that they may be unfolded without being detached from the rings
- As-built drawings: The main sets may form annexes to the Manual

220 TRAINING

- Objective: Before completion, explain and demonstrate to designated maintenance staff the purpose, function and operation of the installations including items and procedures listed in the Building Manual
- Level of training: Face to Face
- Time allowance: Include a minimum of one day

230 SPARE PARTS

- General: Before completion submit a priced schedule of spare parts that the Contractor recommends should be obtained and kept in stock for maintenance of the services installations
- Content: Include in the priced schedule for:
 - Manufacturers' current prices, including packaging and delivery to site
 - Checking receipts, marking and numbering in accordance with the schedule of spare parts
 - Referencing to the plant and equipment list in Part 3 of the Building Manual
 - Painting, greasing, etc. and packing to prevent deterioration during storage
- Latest date for submission: Practical Completion

250 TOOLS

- General: Provide tools and portable indicating instruments for the operation and maintenance of all services plant and equipment (except any installed under Named Sub-contracts) together with suitable means of identifying, storing and securing
- Quantity: Two complete sets
- Time of submission: At completion