



Tender document

Volume C – Pricing Document

DCC Drill Shed Fort Dunree, Dunree, Buncrana,
Inishowen County Donegal, F93C424



Chartered property,
land and construction
surveyors



Document Control

DATE	REVISION	DESCRIPTION	PREPARED	REVIEWED	APPROVED
03.06.2026	1 st issue	For tender	NW	PB	AS

NW = Nigel Ward

PB = Patrick Brown

AS = Austin Sammon



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A10

Project particulars

Clauses

110 The works

Name: DCC Drill Shed Fort Dunree
Nature: Replacement drill shed at Fort Dunree.
Location: Fort Dunree, Dunree, Buncrana, Inishowen County Donegal, F93C424
Timescale for construction work: Refer to Tender & Schedule (FTS-5), Schedule Part 1 G

120 Employer (client)

Name: Donegal County Council
Address: County House LIFFORD F93 Y622 CO DONEGAL
Contact: Capital Projects Delivery Unit
Telephone: +353 74 915 3900
Email: info@donegalcoco.ie

130 Project supervisor construction stage

Project supervisor construction stage: The contractor.
Period of appointment: Between the Starting Date and the date of Substantial Completion of the Works contemplated in the Works Requirements

140 Person empowered by the contract to act on behalf of the employer

Title: Employer's Representative
Name: Patrick Brennan
Address: County House LIFFORD F93 Y622 CO DONEGAL
Telephone: +353 74 915 3900
Email: patrick.brennan@donegalcoco.ie

150 Project supervisor design process

Name: Donegal County Council
Address: County House LIFFORD F93 Y622 CO DONEGAL
Telephone: +353 74 915 3900

160 Quantity surveyor

Name: SAMMON
Address: Bogay, Letterkenny, Co. Donegal, F92 TA46
Contact: Nigel Ward
Telephone: 048 71 271323
Email: n.ward@sammon.eu

200 Consultants

Description: Structural engineer
Name: MFA Consulting Engineers
Contact: Edgar Henihan

Address: 2nd Floor, Source Building,
Harmony Hill, Co. Sligo
F91 YXV7
Telephone: +353 96 56095
Email: info@mflagroup.ie

Ω End of Section

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Tender and contract documents

Clauses

110 Tender documents

The tender documents are

The specification, including Preliminaries/ general conditions.

The following drawings:

Refer Volume A - Works Requirements.

120 Contract drawings

The contract drawings: The same as the tender drawings.

Exceptions:

160 Preliminary Safety and Health Information

Location: Information for insertion in the safety and health plan is included in these Preliminaries in section A34. It refers to information given elsewhere in the Preliminaries, specification, drawings and associated documents.

180 Other documents

Inspection: Drawings and other documents relating to the Contract but not included in the tender documents may be seen by appointment during normal office hours at the office of Donegal County Council.

The documents include: Refer Volume D - Information Pack

Ω End of Section

A12

The site/ existing buildings

Clauses

110 The site

Description: The site is located on the land plot of the previously demolished drill shed at Fort Dunree. Refer to site layout drawing No. DS01.

120 Existing buildings on/ adjacent to the site

Description: The drill shed sits within the Fort Dunree complex and is surrounded by existing historical buildings. Refer to site layout drawing. Adjacent buildings to be guarded against damage.

140 Existing utilities and services

Drawings: (Information shown is indicative only): Refer to Tender Drawings.

Other information: Refer to Preliminary Health & Safety File.

Contractor to proceed with caution and implement safe digging practices in line with HSG 47 'Avoiding danger from underground services'

180 Safety and health file

Availability for inspection: The Health and Safety File for the site/ building may be seen by appointment during normal office hours at: Refer A10/120 .

Other documents: Refer Volume D- Information Pack

Arrangements for inspection: See A10/120

200 Access to the site

Description: Site access to Fort Dunree drill shed is via main entrance and the spine road (through the old military village) .

Limitations: Do not block pedestrian or vehicular access. The site is open to the public (tourists) and care to be taken to not interfere with the site operations of the site.

Access for inspections: Provide access at reasonable times for both on-site and off-site work.

210 Parking

Restrictions on parking of the Contractor's and employees' vehicles: Contractor vans or employees vehicles will only be permitted to park in the carpark with parking permits for this carpark for the duration of the works

220 Use of the site

General: Do not use the site for any purpose other than carrying out the Works.

Limitations: Refer to the Preliminary Safety and Health File.

On-site construction works shall be between the hours of:0700-1700hrs Monday to Friday & 0900-1300hrs on Saturday and shall exclude Sundays and public holidays.

Limitations: The Contractor shall maintain and manage all aspects of the site boundary. All site entrances shall be controlled and monitored to ensure unauthorised access is avoided. The Contractor is reminded of his Civil Law duty to prevent trespass onto the site within the COM Regulations 2007.

230 Surrounding land/ building uses

General: Adjacent or nearby uses or activities are as follows:
Fort Dunree tourist attraction.

240 Health and safety hazards

General: The nature and condition of the site/ building cannot be fully and certainly ascertained before it is opened up. However the following hazards are or may be present:
See Preliminary Safety and Health File included in Volume D - information pack...
Information: The accuracy and sufficiency of this information is not guaranteed. Ascertain if any additional information is required to ensure the safety of all persons and the works.
Site staff: Draw to the attention of all personnel working on the site the nature of any possible contamination and the need to take appropriate precautionary measures.

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: Details for site visits are outlined on the Invitation to Tender letter

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A13

Description of the work

Clauses

120 The works

Description: Building new steel portal frame drill shed on the site of existing drill shed.

Ω End of Section

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OGP Public Works Contract for Minor Building and Civil Engineering Works Designed by the Employer

Clauses

Public Works Contract for Minor Building and Civil Engineering Works Designed by the Employer

The Contract: PW-CF5 Minor Works, Building and Civil Engineering Works v2.9 25-11-2025

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

Conditions - No Amendments

- 1 - The Contract - No Amendments
- 2 - The Law - No Amendments
- 3 - Loss, damage and injury - No Amendments
- 4 - Management - No Amendments
- 5 - Contractor's personnel - No Amendments
- 6 - Property - No Amendments
- 7 - The Site - No Amendments
- 8 - Quality, testing and defects - No Amendments
- 9 - Time and completion - No Amendments
- 10 - Claims and adjustments - No Amendments
- 11 - Payment - No Amendments
- 12 - Termination - No Amendments
- 13 - Disputes - No Amendments
- 14 - Covid-19 Mandatory Closure - No Amendments
- 15 - Price Variation - No Amendments

Schedule Part 1

Schedule

Document reference: FTS5 Tender & Schedule v2.9 25-11-2025

Will be completed as follows: See Volume B - Tender and Schedule

Execution

The contract will be executed: Under seal. Under hand.

Execution - No Amendments

Ω End of Section

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A30

Tendering/ subletting/ supply

Clauses

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 principals set out in section 8 and 9 of the Instructions to Tenders.

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 Employer and Employer's representatives

Offer no guarantee that any tender will be recommended for acceptance or be accepted.

Will not be responsible for any cost incurred in the preparation of any tender.

Acceptance: Conditional on evidence that documents referred to in the Suitability assessment questionnaire, insurances and other documents. It is a precedent to the award of the contract that the successful tenderer for the contract must comply with current Tax Clearance Procedures (available at www.finance.gov.ie). In most circumstances, for tenderers resident in the State, this means the successful tenderer must have a current Tax Clearance Certificate can be obtained.

190 Period of validity

Period: After submission or lodgement, keep tender open for consideration (unless previously withdrawn) for not less than refer to Volume B - Tender and Schedule.

Pricing/ submission of documents

210 Preliminaries in the specification

Measurement rules: Preliminaries/ General Conditions sections (A10 - A56 inclusive) have been prepared in accordance with ARM.

Method of measurement: ARM5

220 Pricing of preliminaries

Charges: When pricing Preliminaries, identify separately for each item where, for the purpose of valuing the work, the charge for that item is considered to be:

Fixed: (i.e. where the charge for the item does not depend on duration).

Time related: (i.e. where the charge for the item is dependent on duration).

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

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.

500 Tender stage method statements

Method statements: Prepare, describing how and when the following is to be carried out:

Commissioning and testing of engineering instalations. .

Statements: Submit within one week of request.

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.

570 Safety and health information

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

Include

A copy of the contractor's safety and health policy document, including risk assessment procedures.

Method statements on how risks from hazards identified in the preliminary safety and health plan will be addressed.

Arrangements for ensuring that all accidents, illness and dangerous occurrences are recorded.

Accident, sickness and enforcement action records for the past five years.

Relevant construction knowledge and experience of managing, coordinating and monitoring others.

Experience in preparing and monitoring compliance with safety plans/ files.

The number and type of staff available for this project with details of their training, skills, experience and duties.

Proposed site organization including emergency procedures, fire prevention and escape and arrangements for welfare facilities.

Review procedures to obtain feedback.

Submit: Within one week of request

590 Site Waste Management Plan

Details: Site Waste Management Plan is required.

Reference: Contractor to submit project construction waste management plan in accordance with the Waste Management Act and Regulations to the planning authority prior to commencement notice stage. The transfer off site must be carried out by operators holding appropriate and valid waste collection permits.

The removal and correct disposal of any asbestos material must be included as part of the Contractors H&S Plan

Format: 1 digital copy

Development

Responsibility: Contractor

Content: In accordance with the Waste Management Act and Regulation.

The Irish Environmental Protection Agency publication: 'Design Out Waste' and 'Best Practice Guidelines on the Preparation of Waste Management Plans for Construction & Demolition Projects' (DoEHLG, 2006).

To conform to Waste Management Acts and Local Authorities' adopted waste strategies, follow the 'Best practice guidelines on the preparation of waste management plans for construction and demolition projects' published by the Department of the Environment, Heritage and Local Government. Further information is also available from www.epa.ie

Submittal date: Prior to commencement notice stage.

Should be started at the earliest possible stage of the project and be continued throughout the construction phase.

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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 here or in the appropriate referenced document.

120 Communication

Definition: Includes advise, inform, submit, give notice, instruct, agree, confirm, seek, provide 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: Apparatus, appliances, machinery, vehicles or things of whatsoever nature required in or about the construction for the execution and 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.

Excludes: Products and equipment or anything intended to form or forming part of the permanent works.

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 removal and disposal of associated pipework, wiring, ductwork or other services.

Remediate: Action or measures taken to lessen, clean up, remove or mitigate the existence of hazardous materials; in accordance with standards, or requirements as may be set out by statutes, rules, regulations or specification.

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

Supply and fix: As above, but including supply of products, components or systems to be fixed, together with everything necessary for their fixing. All products, components or systems are 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, protect adequately and store until required by the employer/ purchaser, or until required for use in the works as instructed.

Keep for recycling: As 'keep for reuse', but relates to a naturally occurring material rather than a manufactured product.

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 restore something to its original working state. 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 person or legal entity under whose name or trademark the particular product, component or system is marketed

Product reference: the proprietary brand name and/ or identifier by which the particular product, component or system is described.

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 specification section referred to that deal with general matters, ancillary products and workmanship also apply.

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

220 Referenced documents

Conflicts: Specification prevails over referenced documents.

240 Substitution of standards

Specification to Irish 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 Ireland.

Before ordering: Submit notification of all such substitutions.

When requested: Submit for verification documentary evidence 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 coordinating sizes.

Timber: Cross section dimensions shown on drawings are:

Target sizes as defined in IS EN 336 for structural softwood and hardwood sections.

Finished sizes for non-structural softwood and hardwood sawn and further processed sections.

Documents provided on behalf of employer

410 Additional copies of drawings/ documents

Copies: Digital copies of contract drawings and contract document will be issued free of charge. Contractor will be responsible for printing hard copies of the drawings and documents.

440 Dimensions

Scaled dimensions: Do not rely on.

460 The specification

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

Documents provided by contractor/ subcontractors/ suppliers

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610 Production information

Contractor/ Domestic subcontractor provide: Shop drawings and proposals for review and sign off by relevant Design Team member.

Submit

For comment and make any necessary amendments.

Sufficient copies of final version for distribution to all affected parties.

630 Technical literature

Keep on site for reference by all supervisory personnel

Manufacturers' current literature relating to all products to be used in the Works.

Relevant IS Standards and Codes of Practice.

Copies: To be lodged in Building Manual.

640 Maintenance instructions and guarantees

Components and equipment: Obtain or retain copies, register with manufacturer and hand over on or before Practical Completion.

Emergency call out services: Provide subcontractors' telephone numbers for use after completion.

Copies: To be lodged in Building Manual.

Document/ data interchange - No Amendments

Ω End of Section

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 public service company/ authority. Obtain and supply information as necessary for coordination of the work.

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 administering the contract on behalf of the Employer, Project Supervisor Design stage and the Insurers.

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

Health and Safety: Advise the HSA of any notifiable occurrence.

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

250 Monitoring

Progress: Record on a copy of the programme kept on site.

Avoiding delays: If any circumstances arise which may affect the progress of the Works submit proposals or take other action as appropriate to minimize any delay and to recover any lost time.

Key Performance Indicators

Details: Contractors Progress Report

Performance: Record progress against each KPI.

Corrective action: If performance falls below target, submit proposals as soon as possible.

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): Employer's representative

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

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Control of cost

420 Removal/ replacement of existing work

Extent and location: Agree before commencement.

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

440 Measurement

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

460 Interim valuations

Applications: Include details of amounts requested under the Contract together with all necessary supporting information.

Submission: At least seven days before established dates.

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.

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 by subcontractors.

The number, type and capacity of all mechanical, electrical and power-operated equipment employed in connection with the Works or Services

Ω End of Section

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 FAS Construction Skills Certification Scheme or equivalent programme recognised by FAS.

Evidence: When requested, operatives must produce a card containing the following details:

- Name of the registering body.
- Registration number.
- Expiry date.
- Contact details of issuing body.
- Holder's name and photograph.

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 in 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 Evidence of Compliance

Proprietary products: Retain on site evidence that the proprietary product specified has been supplied.

Performance specification: 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.
 In a suitable condition to receive the new work.

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.

180 Water for the works

Mains supply: Clean and uncontaminated.

Other: If proposed, provide evidence of suitability.

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 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.

340 Critical dimensions

Critical dimensions: Set out and construct the Works to ensure compliance with the tolerances stated.

Location: Detailed on drawings A11/110.

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: +/- 10 mm.

Floors to receive dry board/ panel construction with little or no tolerance on thickness: +/- 10 mm.

Floors to receive mastic asphalt flooring/ underlays directly: +/- 10 mm.

Floors to receive mastic asphalt flooring/ underlays laid on mastic asphalt levelling coat(s): +/- 15 mm.

Floors to receive fully bonded screeds/ toppings/ beds: +/- 15 mm.

Floors to receive unbonded or floating screeds/ beds: +/- 20 mm.

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 Local Authority responsible for the water supply 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 all necessary consent before starting work. Inform immediately if consent is withheld or is granted subject to significant conditions.

440 Gas 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 gas appliances and flues.

The installer's name and address.

A declaration of conformity that the installation is in accordance with

The name and signature of the competent person responsible for checking compliance, who must be a current registered by QQI.

The date on which the installation was checked.

Copy: To be lodged in 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.

Confirmation: All systems must be commissioned in accordance with approved procedures.

Records: Copies to be lodged in building manual.

Supervision/ inspection/ defective work

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.

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.

610 Proposals for rectification of defective products/ executions

Proposals: Immediately any execution 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.

Work at or after completion

710 Work before completion

General: Make good all damage consequent upon the work.

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.

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 together with an itemized schedule, retaining duplicate schedule signed as a receipt.

730 Making good defects

Remedial work: Arrange access with Client.

Rectification: Give reasonable notice for access to the various parts of the Works.

Completion: Notify when remedial works have been completed.

740 Highway/ sewer adoption

Adoption procedure: Refer Volume A - Works Requirements

Details: Refer Volume A - Works Requirements

Standard: To the technical approval of the relevant statutory authority

Defects liability/ rectification period: 12 months

Maintenance

Undertake to the satisfaction of the relevant statutory authority, including:

Making good of damage due to reasonable wear and tear occurring during the period.

Clean at the end of the period.

Ω End of Section

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Security/ safety/ protection

Security, health and safety

120 Execution hazards

Common hazards: **Hazard:** General site risks (e.g., slips, trips, and falls)

Hazard: Vehicle movement on-site

Significant hazards:

Hazard: Working at Height

Hazard: Electrical Hazards (e.g., wiring and equipment)

Hazard: Manual Handling (lifting heavy materials)

Hazard: Asbestos or hazardous materials on site

Hazard: **Hazard:** General site risks (e.g., slips, trips, and falls)

Hazard: Vehicle movement on-site

Hazard: Working at Height

Hazard: Electrical Hazards (e.g., wiring and equipment)

Hazard: Manual Handling (lifting heavy materials)

Hazard: Asbestos or hazardous materials on site

Precautions assumed: Proper site housekeeping, clear signage for obstacles, maintaining clean and dry walkways.

Traffic management plan, designated pedestrian walkways, trained site vehicle operators.

Use of fall arrest systems, scaffolding with guardrails, safety harnesses.

Isolation of power, regular inspection of electrical equipment, warning signs, trained electricians.

Use of lifting equipment, team lifting, proper training in manual handling techniques.

Hazardous material identification, appropriate PPE, licensed removal contractors.

Specification reference: General Safety Protocols (Section 4.1)

Section 6.2 – Site Traffic Management

Section 5.4 – Work at Height Safety Protocol

Section 7.2 – Electrical Safety Procedures

Section 6.3 – Manual Handling Safety

Section 8.5 – Hazardous Materials Handling

Drawing reference: Site layout plan (Drawing No. S-101)

Site Traffic Flow Diagram (Drawing No. S-105)

Scaffold plan (Drawing No. A-102)

Electrical layout (Drawing No. M-003)

Demolition drawings (Drawing No. D-001)

130 Product hazards

Hazardous substances: Exposure to hazardous substances must be minimized in accordance with occupational exposure standards. Personnel must use appropriate PPE and follow guidelines outlined in the **Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001**. Dust suppression, proper ventilation, and controlled material handling must be implemented on-site.

Common hazards: Dust and airborne particles from cutting, drilling, and grinding.

Manual handling risks from heavy materials.

Slips, trips, and falls due to uneven surfaces and construction debris.

Noise exposure from machinery and power tools.

Vibration hazards from prolonged use of power tools.

Fire risks from flammable materials and hot works.

Significant hazards: Silica Dust Inhalation, Lung diseases, including asbestosis and mesothelioma and Fire hazards from flammable construction materials and ignition sources.

Hazard: Silica dust inhalation from concrete and masonry work.

Exposure to isocyanates in spray foam insulation and adhesives.

Handling of asbestos-containing materials in renovation or demolition work.

Material: Concrete, mortar, and brick products containing crystalline silica.

Polyurethane-based insulation and coatings.

Old insulation, roofing sheets, or pipe lagging.

Specification reference: Compliance with **HSA guidelines on silica dust control**, including the use of water suppression and respiratory protective equipment (RPE).

Compliance with **COSHH Regulations on isocyanates**, ensuring adequate ventilation and use of full-face respirators.

Follow **Asbestos Regulations 2006**, requiring specialist removal teams and strict containment procedures.

140 Safety and health plan construction phase

Submission: Present to the Employer/ Client no later than two weeks before commencement of work on site..

Confirmation: Do not start construction work until the Employer has confirmed in writing that the Safety and Health Plan for the construction stage includes the procedures and arrangements required by the Safety, Health and Welfare at Work (Construction) Regulations.

Content: Develop the plan from and draw on the Outline Construction Phase Safety and Health Plan, clause A30/570, and the information communicated by the Project Supervisor Design process.

150 Security

Protection: Site Access Control

All personnel and visitors must sign in and out at designated entry points.

Only authorized personnel with valid ID and induction training are permitted on-site.

Security fencing and gates must be maintained to prevent unauthorized access.

Surveillance and Monitoring

CCTV cameras must be installed at key entry points, storage areas, and high-risk zones.

Security personnel or site supervisors will conduct regular patrols, especially during off-hours.

Access: All site access points must be controlled to ensure only authorized personnel, visitors, and deliveries can enter. Security fencing and gated entry points will be maintained at all times, with access restricted to those with valid identification and site induction. Sign-in procedures must be followed, and unauthorized entry will be strictly prohibited. Temporary access routes will be clearly marked, ensuring safe movement for workers and vehicles while minimizing risks to the public and surrounding areas.

Special requirements: Security measures must be maintained at all times to prevent unauthorized access, theft, or damage to materials and equipment. Secure fencing, locked storage areas, and CCTV monitoring will be implemented where necessary. All personnel and visitors must carry valid identification and sign in upon entry. Night-time security patrols or surveillance may be required for high-risk areas. Any breaches of security protocols must be reported immediately, and corrective actions will be enforced to maintain site integrity.

160 Stability

Responsibility: The contractor is responsible for ensuring the structural stability of all temporary and permanent works on-site. This includes compliance with all relevant regulations, design specifications, and industry standards. Regular inspections and risk assessments must be conducted to identify potential stability issues, and corrective measures should be implemented as required. Any concerns regarding stability must be reported to the site manager or structural engineer immediately.

Design loads: All structures must be designed to withstand the expected loads, including dead loads, live loads, wind loads, and any temporary construction loads. Design calculations must comply with applicable building regulations and engineering standards. The structural integrity must be maintained throughout all phases of construction, with load-bearing elements adequately supported and protected from overloading. Adjustments to load requirements must be approved by the project engineer before implementation.

170 Occupied premises

Extent: Existing buildings will be occupied and/ or used during the contract as follows: The existing buildings, including Fort Dunree site, cafe, museum and the surrounding outbuildings, will remain occupied and utilized throughout the contract period. Various spaces throughout the the Fort Dunree site will continue to serve their intended functions for the Fort Dunree tourist site. While the works take place, it will be essential to carefully plan and phase activities to ensure minimal disruption to the ongoing operations and that the safety of the building's occupants is prioritized at all times. Coordination with the Client and other stakeholders will be crucial to maintaining functionality during construction..

Works: The works will include a combination of structural, cladding, mechanical, and electrical interventions to construct the new buildings. These tasks will require careful sequencing to avoid conflicts with the ongoing usage of the Fort Dunree site. Temporary barriers and measures will be implemented to ensure safety and reduce disruptions to the Fort Dunree staff and tourists.

Overtime: Given the ongoing use of the premises and the nature of the works, overtime may be required to meet project deadlines, particularly in areas where there is limited opportunity for work during regular hours due to normal Fort Dunree site operation. The Consultant and Contractor will need to anticipate situations where additional hours are necessary, such as working outside of regular operating hours or on weekends. Any overtime will be managed in line with safety protocols to ensure the well-being of all occupants and workers while minimizing disruptions to the normal functioning of the premises.

190 Occupier's rules and regulations

Compliance: The Consultant and Contractor must comply with the occupier's rules and regulations set forth by Donegal County Council for the ongoing operation of Fort Dunree and its associated facilities. This includes adherence to safety standards, building usage protocols, and any specific operational rules that are in place to ensure the smooth running of the Fort Dunree site. The Consultant should ensure that these rules are integrated into the planning and execution of works to prevent any potential disruptions, as well as ensure that both the construction process and the ongoing use of the building remain fully compliant with legal, safety, and operational requirements.

Copies

Location: Copies of the occupier's rules and regulations should be provided to the Consultant and Contractor at the outset of the project. These documents can typically be located in the project files maintained by Donegal County Council or within the official project documentation provided to the Consultant at the beginning of the contract. Additionally, any updates or revisions to these rules during the course of the project will be communicated and copies will be made available to ensure compliance throughout the duration of the works.

Arrangements for inspection: Arrangements for inspection of the occupied premises and ensuring compliance with the rules and regulations will be managed through regular site visits and coordination with the Client. The Consultant will facilitate periodic inspections with relevant parties to confirm that the construction activities are in line with the occupier's requirements. These inspections will be scheduled at key points throughout the project, and any non-compliance or issues arising will be promptly addressed by the Consultant, in collaboration with the Client and the Contractor, to avoid any disruption to the ongoing use of the premises.

200 Mobile telephones and portable electronic equipment

Restrictions on use

In accordance with the project's health and safety protocols, the use of mobile telephones and portable electronic equipment will be restricted on-site to ensure the safety, security, and efficient operation of construction activities. Mobile phones and portable electronic devices may be prohibited in certain high-risk areas, such as those where heavy machinery is operating or where sensitive work, such as electrical or hazardous material handling, is being carried out..

210 Employer's representative site visits

Safety: During site visits, the Employer's Representative (ER) must adhere to all safety protocols established for the construction site to ensure both their safety and the safety of all site personnel. This includes following the specific site safety rules, procedures, and hazard identification measures as outlined by the Health and Safety Plan for the project. The ER must be aware of potential risks, including but not limited to, working at heights, moving machinery, and hazardous materials, and take necessary precautions to avoid these risks.

Protective clothing and/ or equipment: The Employer's Representative is required to wear the appropriate protective clothing and equipment while on-site. This includes:

Safety helmet (hard hat): To protect against head injuries from falling objects.

High-visibility vest or jacket: To ensure visibility of the ER among other site workers and machinery, especially in low-light conditions.

Safety boots: To protect feet from heavy objects or potential injury from sharp items.

Protective gloves: To protect hands from exposure to hazardous materials or sharp objects, depending on the task or area.

Hearing protection: In areas with high noise levels due to machinery or equipment.

Safety eyewear: In areas where there is a risk of debris, dust, or chemical exposure.

Protect against the following

330 Noise and vibration

Standard: During the execution of the works at Fort Dunree, all noise and vibration activities must comply with the provisions of the **Safety, Health, and Welfare at Work (General Application) Regulations**. This ensures that construction work adheres to set limits on noise and vibration to prevent harm to both workers and the surrounding community.

The consultant and contractor must implement noise control measures, especially during high-impact activities like demolition and structural works, which are likely to create substantial noise or vibration. Since the site is open to the public, efforts must be made to minimize disturbances to site users, with particular attention paid to vibration levels. The consultant will be responsible for ensuring these standards are upheld, especially in the context of the sensitive areas.

Percussion tools and other noisy appliances: Do not use without consent during the hours of **8:00 PM to 7:00 AM**. This restriction is in place to prevent disruption to the local community and Fort Dunree normal operations. Such tools should only be used during daytime working hours unless prior written approval is obtained from the client and local authorities..

Radios or other audio equipment: Radios or other audio equipment can be used on-site but **must comply with the regulations** regarding noise levels, especially during construction activities. These should be **played at low volume** to avoid disturbing workers or the surrounding community, particularly since noise control is crucial as the site is being developed. Specific guidelines should be followed to ensure radios are not played loudly as to affect the normal operation and enjoyment of the Fort Dunree site.

The consultant or contractor will be responsible for ensuring compliance with this rule.

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340 Pollution

Prevention: All site operations must follow the **Environmental Protection** guidelines to ensure that pollution is minimized during the course of construction and other related activities. Measures should be implemented to prevent any discharge of pollutants into air, water, and soil. These include regular monitoring of dust, noise, and emissions from machinery. The **Environmental Deliverables** report that assesses the potential impacts on the surrounding area must be adhered to. Additionally, contractors should ensure proper waste management, control construction runoff, and minimize any risk of environmental degradation to nearby properties.

Contamination: To avoid contamination of the surrounding environment, it is essential that the site is managed in accordance with environmental best practices. Any hazardous materials found during the **Pre-Demolition and Asbestos Survey** must be safely removed and disposed of in line with regulatory guidelines. Adequate barriers or containment measures must be in place around areas where hazardous substances (such as asbestos) are found to ensure no leakage or contamination. The consultant must ensure that the site is cleared of any potential contaminants before construction begins, and that contamination risks are mitigated through careful handling and disposal.

350 Pesticides

Use: The use of pesticides on the site must be carefully regulated to prevent contamination, particularly in areas that may be used for horticulture or landscaping. Given that the Fort Dunree grounds will be maintained to a high standard, it is essential that pesticides, if required, be used in accordance with the relevant health and safety regulations and environmental guidelines. Only trained and authorized personnel should handle pesticides, and their use must comply with the **Safety, Health and Welfare at Work (General Application) Regulations** to prevent potential harm to the environment and the community. Any pesticide application should only be used when necessary to prevent pest or disease damage, ensuring the safety of all workers and public.

371 Dangerous or hazardous substances

Duty: The Consultant is responsible for ensuring that any **dangerous or hazardous substances** present on-site are identified during the initial stages of the project, as outlined in the **Pre-Demolition and Asbestos Survey** and other **environmental assessments**. The **Pre-Demolition Survey** will include a thorough inspection for any hazardous materials, including lead, asbestos, and other chemicals that could pose a risk to health or safety. The Consultant will also ensure compliance with relevant **Health and Safety Regulations**, including those pertaining to the management and removal of hazardous substances. If any **dangerous or hazardous substances** are identified on-site, it is critical that they are **not disturbed** until proper procedures are in place. The **Consultant will agree on methods for the safe removal or remediation** of these materials, ensuring that all work complies with the required safety protocols and environmental regulations. **Risk assessments and remediation plans** will be developed, and appropriate **personal protective equipment (PPE)** and **safety measures** will be specified. Only licensed contractors with expertise in handling hazardous substances will be permitted to carry out removal or containment works. For substances that require removal or remediation, the Consultant will collaborate with the Client to agree on the **appropriate methods** for safely addressing these materials. This includes **safe removal, containment, or encapsulation** as necessary. The Consultant will ensure that all works are carried out in compliance with safety regulations, environmental protection standards, and relevant legislation, ensuring the safety of workers and the surrounding community.

Do not disturb.

Agree methods for safe removal or remediation.

380 Fire prevention

Duty: The Consultant has a responsibility to ensure that **fire prevention measures** are effectively incorporated into the project. As part of the **detailed design** and **construction** stages, the Consultant must adhere to all relevant fire safety regulations, ensuring that the building design

includes fire-resistant materials, appropriate fire exits, and suitable firefighting equipment. Additionally, the Consultant must ensure that all staff and contractors on-site are fully aware of fire safety protocols and receive the necessary training.

Standard: The Consultant will adhere to the **relevant national fire safety standards and regulations** that apply to the construction of the Youth and FET Centre. This includes complying with the **Fire Safety Regulations** under the **Safety, Health and Welfare at Work Act** and the **Building Regulations (Fire Safety)**. These standards will be followed during the design phase to ensure the building's compliance with fire prevention measures, and during construction to ensure fire safety protocols are maintained. Any required **fire certification** and modifications will be submitted to the **Tipperary County Council's Fire Officer** for approval.

390 Smoking on-site

Smoking on-site: In accordance with health and safety guidelines for the project, smoking will be **strictly prohibited within the building site** and any enclosed or indoor areas. To minimize risks, designated smoking areas will be established outside of the main workspaces, away from potential fire hazards and areas where hazardous materials may be present, such as near **asbestos-containing materials** or **dangerous substances**. These measures are in line with the overall **fire prevention** strategy and the health and safety protocols in place.

Smoking regulations and procedures will be communicated clearly to all site personnel during **site inductions**, and **appropriate signage** will be displayed at designated smoking areas. Compliance will be enforced throughout the project's stages to ensure a safe environment for workers and visitors, particularly as it pertains to **fire prevention** and safety regulations within the **construction zone** and other work areas.

If any construction workers or contractors are found violating the smoking policy, **disciplinary actions** may be enforced to maintain safety standards on-site.

400 Burning on site

Burning on site: In line with the **environmental** guidelines and regulations for the **Donegal County Council Fort Dunree Drill Shed** project, **burning on-site** will not be permitted unless explicitly agreed upon and pre-approved by the client and relevant authorities. Given the presence of potentially hazardous materials on the site, such as **asbestos-containing materials** or other **dangerous substances**, any burning of waste or debris must be carried out in a manner that poses no risk to health, safety, or the environment.

For specific materials that may need to be disposed of, the **method of removal or remediation** will be agreed upon in advance. Procedures for the safe handling and disposal of waste materials will adhere to the safety protocols for hazardous substances, ensuring that no harmful fumes or pollutants are generated by burning activities.

In the event that burning is required under controlled conditions (such as for certain waste management), strict **supervision** and compliance with **safety procedures** must be followed, including having fire extinguishing equipment readily available and ensuring that no **flammable materials** or substances are present in the vicinity. The project team will closely monitor all activities to ensure compliance with health and safety standards, particularly regarding **fire prevention**.

410 Moisture

Wetness or dampness: In the context of the **Donegal County Council Fort Dunree Drill Shed** project, any wetness or dampness within the new structure must be carefully monitored, particularly given the potential impact on **structural integrity** and **finishes**. Moisture can lead to issues such as **blistering** of paint or coatings, failure of **adhesion** for finishes, and possible **damage** to sensitive components of the building.

If any **dampness** is observed during any stage of the construction process, it will need to be thoroughly investigated. Remedial actions, such as **waterproofing** or **ventilation improvements**, must be implemented as part of the **detailed design** and monitored throughout the project. Moisture control will be essential to ensure the **safety** and **longevity** of finishes and the **health of the occupants**.

Drying out: The drying out of materials, particularly in areas that may have been affected by dampness, must be carried out in accordance with standard practices for **moisture control**. This should be included in the **construction works** timeline to avoid **delays**. During the construction phase, special **attention** should be paid to the **curing** and **drying** of materials like **timber**, which could be vulnerable to moisture damage. Furthermore, moisture should be prevented from infiltrating the building's interior through appropriate weatherproofing measures in line with the **preliminary design**.

Heating and proper **ventilation** must be implemented to ensure the area dries out before any finishes or coverings are applied to prevent **blistering** and **failure of adhesion**. This is especially relevant in the context of **wet areas** such as **workshops**, where water ingress is a potential concern.

Blistering and failure of adhesion:

As outlined in the **construction phase** of the project, the risk of **blistering** and **failure of adhesion** can arise from trapped moisture in finishes, especially coatings, paints, or wall coverings. Such damage must be carefully assessed as part of the **quality control** inspections during both the **pre-demolition** and **detailed design** stages.

Preventative measures include ensuring that **substrates** (such as timber, walls, or flooring) are fully **dried** before the application of finishes. The **quality control** measures employed by the **consultant** during the construction phase should catch issues related to **blistering** and **adhesion failure** early on, ensuring that repairs or reworks can be implemented without major delays.

Damage due to trapped moisture / Excessive movement:

Excess moisture, if not adequately addressed, can lead to **damage due to trapped moisture**, resulting in **excessive movement** in materials. This could affect **structural elements** such as timber beams and panels, affecting the overall **structural integrity** of the building. During the **detailed design** phase, special attention must be paid to incorporating **moisture-resistant materials** and **ventilation systems** that allow the building to breathe and prevent moisture from accumulating in concealed spaces. Additionally, given the **existing outbuildings** and the **nature-based sustainable urban drainage system design**, measures to prevent moisture buildup around the foundation and walls should be incorporated in the overall drainage strategy.

If trapped moisture is detected, the **moisture control plan** will be revisited, ensuring that all areas that may experience dampness are **treated**, and no **structural** damage occurs due to the excess moisture buildup. Regular checks for excessive movement, particularly in areas susceptible to humidity, should be scheduled throughout the **construction phase** to ensure materials stay within safe tolerances.

Blistering and failure of adhesion.

Damage due to trapped moisture.

Excessive movement.

430 Waste

Waste: In the **Donegal County Council Fort Dunree Drill Shed** project, waste management must be carefully planned and executed to ensure compliance with environmental standards and health and safety regulations. Waste generated from demolition, construction, and refurbishment works—including **infected materials**, **packaging**, and general construction debris—will be carefully segregated and handled to avoid contamination and reduce environmental impact. All

waste will be stored in designated containers to prevent any potential hazards, including spills or the spread of dust and debris.

Requirement: It is a requirement that all waste generated on-site is managed according to the **Waste Management (Facility Permit and Registration) Regulations 2007**. This includes minimizing waste generation by using efficient construction practices and promoting **sustainable methods** to reduce the amount of waste produced. The contractor should also ensure the proper categorization and separation of waste into **general waste, hazardous waste, and recyclable materials** for proper disposal.

Disposal: Waste disposal should be carried out in accordance with relevant **legislation**, including the **Waste Management Act 1996**, to ensure that all materials are disposed of correctly.

Hazardous waste, such as **asbestos** or **chemically contaminated materials**, must be disposed of by **licensed contractors** at licensed facilities. **General waste**, such as construction debris and packaging, will be sent to a registered **waste disposal facility** for safe disposal, adhering to all local council regulations and national guidelines.

The contractor will ensure that **environmentally hazardous** materials, including **solvents, paints, and chemicals**, are handled and disposed of properly. **Written consent** must be obtained for the disposal of such materials, and their removal must be tracked with the **proper waste transfer notes**.

Recyclable material: As part of the project's commitment to sustainability, recyclable materials—such as **timber, metals, and plastics**—will be separated from other waste for recycling. The project will aim to achieve a high recycling rate, aiming for the **reuse and recycling** of as much material as possible, including clean materials such as **concrete and metal scrap**.

The **recycling** process will comply with the waste management hierarchy, prioritizing reuse and recycling over disposal. The contractor will ensure that recyclable materials are processed through authorized recycling facilities, with proper documentation to verify the materials are handled in an environmentally responsible manner.

Documentation: To comply with regulatory requirements, all waste handling activities will be carefully documented. The contractor is required to maintain detailed records of all waste generated, including:

The **type of waste** (hazardous, recyclable, general, etc.)

The **quantity** of waste generated and disposed of

The **destination** of waste (disposal site, recycling facility, etc.)

Relevant **waste transfer notes**, including consignment notes for hazardous materials

Invoices from authorized disposal sites or recycling centers.

This documentation will be available for inspection by regulatory authorities and will ensure compliance with environmental and safety standards.

Removal Contractors:

To ensure the safe and compliant disposal of waste, the removal contractors engaged for the project must hold the following licenses and certifications:

A waste collection permit issued by the relevant waste management authority, ensuring they are legally allowed to transport waste.

A license issued by the Environment Protection Agency (EPA) for specified waste recovery and disposal activities.

A permit from the local authority or a **certificate of registration** from either the **EPA** or the local authority, validating that the waste removal company is authorized to deal with particular categories of waste, especially hazardous waste.

Removal contractors must hold

A waste collection permit issued by the waste management authority.

A license issued by the Environment Protection Agency (EPA) for specified waste recovery and disposal activities.

A permit from a local authority or certificate of registration from the EPA/ local authority.

440 Electromagnetic interference

Duty: In line with the project specifications, the **Consultant** has a responsibility to identify any potential sources of **electromagnetic interference (EMI)** on the site, particularly from equipment or machinery that may affect the functioning of surrounding systems. The **construction activities** and **temporary installations** must not interfere with critical communication systems, especially in areas with **sensitive electrical systems**, such as the **IT room**, **audio/visual equipment**, or any areas that involve **learning resources** for staff and learners.

As the site may host a variety of **construction equipment**, including **welding tools**, **power generators**, or **high-powered electrical devices**, all such equipment must adhere to **electromagnetic compatibility (EMC) standards**. The Consultant should ensure that equipment used throughout the project is tested and certified to prevent **harmful EMI emissions** that could disrupt nearby properties or the **existing operations** at **Dan Breen House**, such as the **IT room** and **audio/visual systems**.

Moreover, in cases where specific **electrical interference** may disrupt services or neighboring properties, the **Consultant** should review and implement effective mitigation measures. These could include **shielding**, the use of **EMI filters**, or scheduling the operation of certain equipment to prevent interference during critical times.

Given the nature of the project—specifically focusing on areas for **teaching**, **IT resources**, and **community interaction**—EMI must be controlled to ensure there are no disruptions to the quality of services provided.

470 Invasive species

General: In line with the project for the **Donegal County Council Drill Shed**, located at **Fort Dunree**, invasive species control is an essential part of the environmental management procedures. The works involve areas with **green spaces and landscaping**, which may attract invasive plant and animal species. The team must ensure that any invasive species identified are managed according to the **contract requirements** and **environmental standards**. Regular inspections for invasive species are required to prevent the spread of these species during the works.

Special precautions: In case invasive species are identified on-site, specific **precautions** are required to manage their removal and containment to minimize their environmental impact:

Invasive species should not be disturbed or moved without appropriate **method statements** or safe removal protocols.

If necessary, **containment** measures should be implemented immediately to prevent the spread of these species during construction works.

Contractors must follow **environmental management plans** and refer to relevant **local authority** or **EPA** guidelines to control invasive species.

Ensure that any affected **soil**, **plant material**, or **waste** containing invasive species is disposed of according to **hazardous material** guidelines.

Contractors should coordinate with **local authorities** to ensure compliance with regulations on **invasive species** removal and disposal.

Duty: The **Employer** or **Consultant** has the **duty** to ensure that all staff, subcontractors, and workers are aware of the risks and responsibilities related to the management of invasive species. **Training** should be provided to workers on how to identify invasive species and how to proceed if they are encountered. The **Consultant** is also responsible for ensuring that the **contractors** comply with all relevant **environmental standards** and that the **construction works** do not contribute to the spread of invasive species. Detailed documentation of any encountered invasive species, along with the **mitigation** measures taken, should be recorded and provided to the relevant authorities for proper monitoring.

Do not disturb.

Agree methods for safe eradication or removal.

Protect the following

510 Existing services

Confirmation: Before starting the works, it's essential to confirm the location and condition of all **existing services** on-site, including utilities like **electricity, water, gas, and telecommunications**. The **Employer** or **Consultant** will ensure these services are correctly identified and located in the project documentation. All **service providers** or **statutory authorities** must be consulted to confirm these services are identified and mapped accurately, with a full risk assessment in place.

Identification: Identification of **existing services** must be done prior to the commencement of work. The **Contractor** is required to **confirm the exact location** of all **overhead** and **underground services**. This includes checking **water pipes, gas lines, electricity cables, and telecommunications**. Accurate service identification will involve coordination with **service providers**, and utilizing **maps, site drawings, or electromagnetic detection** methods where applicable to identify and verify underground services.

Work adjacent to services

Comply with service provider's/ statutory authority's recommendations.

Adequately protect, and prevent damage to services: It is imperative that the **Contractor** takes all necessary precautions to **protect** existing services from damage during the execution of works. This includes setting up barriers, using warning signs, and implementing physical protective measures such as **temporary covers** or **marker tapes**. The services must be adequately safeguarded to ensure no accidental damage occurs, and if any services are impacted, immediate corrective action must be taken.

Identifying services

Below ground: The **Contractor** is responsible for confirming the location of all **underground services**. This may include **water mains, gas pipelines, telecommunications cables, electricity lines, and sewer systems**. Prior to digging or excavating, the **Contractor** must ensure that all underground services have been clearly identified using **electromagnetic detection** and verified through documentation provided by **service providers**.

Overhead: For **overhead services**, such as **power lines and telecommunications cables**, the **Contractor** must confirm their exact locations and ensure proper clearance. **Safety measures** must be implemented to ensure that no workers come into contact with these overhead services during operations, and that these services are marked clearly on-site.

Damage to services: If any **damage** occurs to existing services during the course of the work, it must be reported **immediately** to the **service provider** or **statutory authority**. The **Contractor** is required to notify the appropriate service provider without delay and make arrangements to restore or repair the damaged service to the satisfaction of the **service provider** or **statutory authority**. Any **emergency actions** taken will not affect the **Contractor's liability** for the damage caused. Once damage is reported, necessary steps should be taken to address the issue without causing further disruption to the services or project timeline.

Immediately give notice and notify appropriate service provider/ statutory authority.

Make arrangements for the work to be made good without delay to the satisfaction of service provider/ statutory authority 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: In order to prevent accidental damage to **existing services**, the **Contractor** should use **marker tapes, warning signs, or protective covers** to demarcate sensitive areas. These markers should be clearly visible and placed around areas of concern. If excavating or conducting works in proximity to utilities, physical barriers or protective covers should be used as a precaution to minimize the risk of damage.

520 Roads and footpaths

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Duty: It is the **Contractor's duty** to ensure the **protection of roads and footpaths** during the execution of the works. The **Contractor** must be mindful of the **existing infrastructure**, ensuring no damage occurs to the surrounding roads, footpaths, and surrounding areas. All work must be carried out while considering **traffic flow**, **pedestrian safety**, and avoiding obstructions or debris that could cause accidents or hazards. This aligns with the **duty to protect existing services** as previously mentioned, ensuring that no part of the surrounding environment, including roads and footpaths, is neglected or harmed during the process.

Damage caused by site traffic or otherwise consequent upon the Works: In cases where **site traffic** or any other activities related to the **works** cause damage to the **roads or footpaths**, the **Contractor** must immediately **notify the appropriate authorities** such as service providers, statutory authorities, or local bodies. Damage could result from **heavy vehicles**, **construction materials**, or other equipment used during the works, as referenced earlier in the **contractor's responsibilities** for mitigating risk. If damage occurs, the **Contractor** is required to make arrangements for **repairing or restoring** the affected area **without delay** and to the **satisfaction of the appropriate authorities**.

The **Contractor** must ensure that any necessary **emergency measures** or immediate actions taken do not affect their **liability for repair or remediation** of damage. This aligns with the need to ensure **restoration of affected surfaces** is in line with statutory guidelines and that **repairs** are completed swiftly and in full compliance with regulations. **Repairs and remediation** should be performed with care, as earlier indicated, to prevent **further disruption** to traffic or pedestrian flow and to preserve the integrity of the infrastructure.

540 Retained trees/ shrubs/ grassed areas

Protection: The **Contractor** must ensure the protection of **retained trees, shrubs, and grassed areas** in line with the **site safety** and **environmental management protocols** outlined.

Adequate **measures** must be put in place to avoid any damage or disturbance to these areas during construction. This includes using **protective barriers** around the trees and plants, ensuring **no damage** occurs from machinery, equipment, or general site activities.

When working adjacent to these areas, the **Contractor** must comply with any **recommendations** made by the **site-specific environmental plan** or any **local authority** guidelines.

Specifically, the **Contractor** must ensure the **root systems** of trees and shrubs are preserved, and **soil compaction** is minimized, in line with the regulations regarding **existing services** and surrounding site features.

The **Contractor** should adhere to the same **protective guidelines** mentioned earlier for adjacent services and infrastructure, ensuring that no part of the construction activity inadvertently impacts these natural features.

Replacement: If any **retained vegetation** (trees, shrubs, grass) is **damaged beyond repair** during construction, **replacement** must be completed by the **Contractor** as per the **environmental and landscape standards** previously outlined.

Replacement should be in accordance with **local authority** specifications and, where applicable, **Tree Preservation Orders (TPOs)**, ensuring that any lost greenery is replaced with suitable **species** and planted in the same locations or designated areas.

The **Contractor** must also ensure that the replacement is adequately cared for post-planting to prevent further damage, following proper **watering, feeding, and soil care** practices until the replacement vegetation is well-established.

All replacement materials and efforts must be documented to ensure compliance with the project's **environmental management plan**.

550 Retained trees

Protected area: The **protected area** around retained trees must be respected at all times. **Do not dump spoil or rubbish**, excavate, disturb topsoil, park vehicles, store materials, or place temporary accommodation within the root protection area. Severing roots larger than **25mm in**

diameter is prohibited unless absolutely unavoidable. In the case of unintentional root severing, **immediately give notice and seek expert advice**. Additionally, **do not change the level of the ground within an area 3 meters beyond the tree's branch spread**, as this can damage the root system and hinder the tree's ability to absorb water and nutrients. Any activities within this area, including machinery movement or material storage, could severely harm the tree's health. Always be aware that the protection of these trees is a key responsibility, and immediate notice must be provided should any roots or ground levels be disturbed.

Dump spoil or rubbish, excavate or disturb topsoil, park vehicles or plant, store materials or place temporary accommodation within the root protection area.

Sever roots exceeding 25 mm in diameter. If unintentionally severed, give notice and seek advice.

Change level of ground within an area 3 m beyond branch spread.

555 Wildlife species and habitats

General: Safeguard the following: During the course of the project, it is crucial to safeguard wildlife species and habitats within the worksite. All operations should be carefully planned to minimize any disruption to the environment. This includes ensuring the protection of habitats and species that are either locally significant or legally protected under environmental regulations. No activities that could harm wildlife should be carried out without considering their impact on the local ecosystem..

Protected habitats and species: Specific attention must be given to any **protected habitats and species** identified in the area. The site should be thoroughly assessed to identify these elements, and all work should avoid disturbing or damaging these protected areas. Workers must be instructed to avoid any physical interference with these species or habitats, including activities like excavation or construction in areas that may harbor sensitive wildlife. If any protected species are found to be at risk, the relevant authorities should be notified immediately, and work should be adjusted accordingly to protect these elements.

Education: Workers must be educated about the potential impact their activities could have on the local wildlife and habitats. Training sessions should be conducted to inform all personnel about the importance of the environment and the steps required to ensure that protected species and habitats are not harmed. Staff should also be provided with clear instructions on recognizing and reporting any issues that may arise during the project, ensuring that environmental protection remains a priority throughout the construction process.

560 Existing features

Protection: All existing features on the site, including any retained trees, structures, or landscape elements, must be adequately protected throughout the project. Barriers and other protective measures should be put in place to prevent any damage from construction activities. Special attention must be given to the areas around retained trees, grassed areas, and shrubs. Measures should be taken to avoid disturbing or damaging these features, particularly within their designated root protection zones. Additionally, existing services (such as utilities) and paths must be safeguarded by preventing any damage during the works. In case of any damage to existing services or features, immediate notice should be given to the appropriate service provider or authority.

Special requirements: Certain areas may require special measures depending on the type of existing feature. For example, areas with historical significance, such as heritage trees or structures, must be handled with care according to the site's particular needs. Any excavation work within 3 meters of retained trees or landscaping should be carefully managed to avoid changes in ground level or any unintended severing of roots over 25 mm in diameter. The project should also comply with any statutory regulations regarding the protection of wildlife habitats or species present on-site. If there's a possibility of contamination or other environmental hazards, specific remediation measures should be followed. Regular consultation with experts or local authorities may also be necessary to ensure that these special features are respected during construction.

570 Existing work

Protection: All existing buildings, utilities, services, and features that will remain occupied or used during the contract must be properly safeguarded. These existing elements must not be disturbed unless specifically outlined in the contract. Protective measures must be taken to ensure the integrity of structures, utilities, and other features in use. For example, areas around the work site should be clearly marked to prevent accidental damage from equipment or construction activities.

Removal: Any removal of existing work or features, including structures or systems that are to be replaced, must be carried out in accordance with safety guidelines. The contractor must ensure that existing systems, utilities, and features that remain in use are adequately protected during removal. Where damage to such features is unavoidable, immediate action must be taken to notify the appropriate service providers or authorities. Work should not proceed until damage has been reported and rectified.

Replacement work: Replacement work should follow the approved design and must comply with the safety and environmental guidelines specified for the project. Special care must be taken to ensure that new installations align seamlessly with existing features and that new materials meet the project's quality standards. For example, if existing services are impacted by construction, replacement services or infrastructure must be installed promptly, in compliance with the relevant authority's guidelines. If any temporary measures are necessary, they should be documented and assessed regularly to prevent further disruption.

600 Existing furniture, fittings and equipment

Protection: All existing furniture, fittings, and equipment within the project site must be carefully protected during the construction work. This includes ensuring that items are shielded from any potential damage caused by construction activities, dust, or debris. Proper covering, barriers, or physical separation will be put in place to safeguard these items. If the existing items are to remain in use or operation during the project, a risk assessment will be conducted to ensure their continued safety and functionality. Any areas around the existing furniture or equipment that may be affected by the ongoing work will be clearly marked to prevent accidental interference.

Extent: The extent of protection required for the furniture, fittings, and equipment in the project will be detailed in the project scope. This will specify which specific items need safeguarding and the methods for doing so. This may include temporary relocation, covering, or designated storage for more sensitive pieces. These protective measures will be agreed upon before the commencement of the project, ensuring that the existing furniture, fittings, and equipment remain unaffected by the construction activities.

Prevent damage or move as necessary to enable the Works to be executed. Reinstate in original positions...

620 Adjoining property

Agreement: Before beginning any work that may impact adjoining properties, a formal agreement will be sought with the respective property owners or tenants. This agreement will outline the scope of work that could affect the neighboring properties, including potential risks, noise, and access requirements. The agreement will address any protective measures to minimize disruption to the adjoining properties during the construction process. It will also ensure that the rights and interests of the neighboring property owners are respected and that any necessary repairs or compensation arrangements are made if damage occurs due to the construction activities.

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Permission: For any work that requires access to or may affect the adjoining properties, explicit permission will be obtained from the property owners or authorized representatives. This permission will include, but not be limited to, approval for the use of access points, parking, or storage that may extend beyond the construction site boundaries. The necessary permits and documentation will be secured before any work proceeds, ensuring full legal compliance and

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minimizing potential conflicts or disputes. Additionally, any impact on shared utilities or infrastructure will be communicated in advance, and relevant permissions will be obtained from the appropriate authorities.

630 Existing structures

Duty: The duty is to ensure the safety and stability of all existing structures on the site or any adjoining properties that may be impacted by the Works. The contractor is responsible for identifying and mitigating any risks to these structures throughout the construction process.

Supports: In order to protect the integrity of existing structures, the contractor must provide and maintain all necessary supports. This may include shoring, strutting, needling, or other forms of temporary reinforcement to preserve the stability of the existing buildings or adjacent properties. These supports must be carefully monitored throughout the works, and their removal should only occur when new construction work is strong enough to bear the load previously supported by the existing structures.

The contractor is required to ensure that the completed work is not overstressed when removing these temporary supports, and that the structural safety of both new and existing work is not compromised.

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.

Prevent overstressing of completed work when removing supports.

Adjacent structures: Any work conducted near adjacent structures must be carried out with care and proper planning to avoid damage. All safety precautions should be taken to prevent any negative impact on neighboring properties, and any required support measures for these structures must be in place throughout the construction process to maintain stability. This includes monitoring and adjusting supports as necessary, ensuring that the integrity of all surrounding structures is safeguarded.

640 Materials for recycling/ reuse

Duty: The contractor is responsible for ensuring that all materials suitable for recycling or reuse are handled in accordance with relevant environmental regulations and site requirements. This duty includes identifying materials that can be salvaged, reducing waste, and ensuring proper disposal or repurposing in line with sustainability goals. The contractor must also comply with any specific guidelines set by the project or local authorities regarding recycling practices.

Storage: Materials designated for recycling or reuse must be stored in appropriate conditions to prevent contamination or degradation. The storage areas should be clearly marked and organized to separate recyclable or reusable materials from general waste. These materials should be protected from weather and any conditions that could damage or hinder their potential for recycling or reuse. The contractor is also responsible for maintaining the cleanliness of these storage areas and ensuring that all recyclable materials are properly sorted and kept until they can be removed from the site or reused in the project.

Ω End of Section

A35

Specific limitations on method/ sequence/ timing

Clauses

130 Method/ sequence of work

Specific Limitations: Include the following in the programme:

The Contractor is responsible to achieve Building Control approval of their construction details.
Note if information provided is not acceptable to Building Control initially, the time delay and or cost are at the contractor's own risk should further information be required by Building Control before approval.

170 Working Hours

Specific limitations:

0700-1700 hours Monday - Friday

0900 - 1300 hours Saturday

Ω End of Section

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A36 Facilities/ temporary work/ services

Generally

110 Spoil heaps, temporary works and services

Location: Give notice and details of intended siting.

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

Accommodation

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

340 Name boards/ advertisements

Name boards/ advertisements: Obtain approval, including statutory consents, and provide a temporary name board

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.

420 Lighting and power

Supply: Electricity from the existing mains may be used for the Works as follows:

Metering: Metered by the Contractor and charged to the Contractor

Point of supply: To be agreed on site

Available capacity:

Frequency: 50 Hz.

Phase:

Current: Alternating.

Continuity: No responsibility will be accepted for the consequences of failure or restriction in supply.

430 Water

Supply: The existing mains may be used for the Works as follows:

Metering: Metered by the Contractor and charged to the Contractor

Source:

To be determined on site

Location of supply point: to be determined on site

Conditions/ Restrictions:

Continuity: No responsibility will be accepted for the consequences of failure or restriction in supply.

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440 Telephones

Direct communication: As soon as practicable after the Date of Possession provide the Contractor's person in charge with a mobile telephone.

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 Subcontractors.

Pay costs arising.

530 Beneficial use of installed systems

Details: Unless specific permission is given by the Employer and installer, do not use for any purpose other than running in, testing and commissioning.

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 IS EN 397, neither damaged nor time-expired. Number required: 5

High-visibility waistcoats to IS EN ISO 20471 Class 2. Number required: 5.

Safety boots with steel insole and toecap to IS EN ISO 20345. Pairs required: 5

Disposable respirators to IS EN 149. FFP1S.

Eye protection to IS EN ISO 16321-1 and IS EN ISO 16321-3.

Ear protection - muffs to IS EN 352-1, plugs to IS EN 352-2

Hand protection - to IS EN 388, 407, 420 or 511, as appropriate.

Ω End of Section

A37

Operation/ maintenance of the finished works

Generally

105 The building manual

Responsibility: To be produced by the Contractor.

General: Obtain and provide comprehensive information for owners and users of the completed works, including all buildings and their systems, to enable efficient and safe operation and maintenance.

Content

Building fabric: Design criteria for contractor-designed elements; manufacturer's instructions for cleaning, repair and maintenance of products.

Building services: Description and operation of systems, diagrammatic drawings, record drawings, identification of services, product details, equipment settings, maintenance schedules, consumable items, spares and emergency procedures.

Documentation: Guarantees, warranties, maintenance agreements, test certificates and reports.

Specific requirements: Sub Contractors, Suppliers/Installers, Systems etc. Declarations from the group list below covering the following aspects will be required and must state the following principles:

Design, manufacture and installation are in substantial compliance with the relevant Building Regulations.

State the relevant Codes of Practice/Standards that the system/product have been designed to comply with, eg (I.S, BS E.N or EN) and that the installation complies with such. No BS Certification is permitted.

State that the installation on site has been carried out in compliance with the manufacturer's specification/recommendation/instructions.

State the guarantee/warranty issued with the product/installation clearly assigned to the specific contract and beneficiaries.

Signed 'As Built' general arrangement drawings.

Such Declarations are mandatory from the following group list which is not exhaustive:

Fire sprinkler systems.

Fire alarm system.

Fire detection system

Emergency lighting/signage system

Fire protection – coatings, claddings, barriers

Fire protection – stoppings, collars, mastics etc.

Fire door sets.

Fire rated screens, panels, partitions.

Structural Glulam systems

Structural pre-cast systems (floors, wall beams, initials etc.).

Lift installations.

Hydrants/risers.

Mechanical plant and systems (heating, h/c w.s. etc.).

Ventilation plant and systems

Electrical plant and systems.

Drainage plant and systems.

Proprietary support systems (brackets, beams, purlins etc.).

Curtain walling system.

Glazing (window) systems.

Planner (frameless) systems.

Cladding systems

Rainscreen systems.

Stone systems.

Pre fabricated bathroom/wc/kitchen pods.

Key suiting

Rooflights.

All roofing membranes/liquid applied coatings.

D.P.M.'s (including radon and waterproof membranes / additives).

Cavity trays.

D.P.C.'s.

Breather membranes/building papers (including behind rainscreen).

Inverted roof insulation (blue insulation).

General thermal insulation.

Maintenance/safety/fall arrest equipment.

Part 'M' sanitary kits.

Render systems.

Automatic doors.

Assisted doors.

Handrails/balustrading/guarding's/stairs

Emergency signage (fire doors etc.).

Raised access floor systems.

Suspended ceiling systems.

Fire fighting sundries (extinguishers).

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Escalator systems.

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Format: Paper bound (x2 hard copy), properly indexed and bound; and PDF format (x1 soft copy), encrypted USB drive, to be well formatted e.g. use of Bookmarks.

Number of copies: 2 hard copy and 1 soft copy

Delivery to: See A10/140 by (date) two weeks prior to the issue of the Certificate of Substantial completion.

110 Safety File

Purpose: To provide information about the structure or materials used, which might affect the health or safety of anyone if construction works, (including cleaning, maintenance, alterations, refurbishment and demolition) is carried out.

Content: Obtain or prepare the following and submit to the Project Supervisor Design Process:

Construction drawings, specification and pricing documents used and produced throughout the construction process for all design work the Contractor is responsible for.

Maintenance facilities, procedures and requirements for the structure.

The nature, location and markings of utilities and services, including emergency and fire fighting.

Manuals and certificates produced by specialist contractors and suppliers which outline operating and maintenance procedures and schedules for products and equipment installed as part of the structure (typically lifts, electrical and mechanical installations, pressure vessels, control and instrumentation systems, window cleaning facilities).

Manuals, certificates and instructions for dismantling and removal of products, equipment and systems.

Details of hazards associated with products and executions used in the construction.

Access requirements/ restrictions.

Authorities and statutory undertakers plus copies of consents and approvals.

Contractors, subcontractors, suppliers and manufacturers including name and number of individuals to be contacted in case of emergency.

The fire safety strategy for the buildings and site: Include drawings showing fire appliance routes, emergency escape routes, fire resisting doors, location of emergency and fire fighting systems, services shut-off valves, switches, etc.

Submit: Within two weeks of request from Project Supervisor Design Process.

Format: Paper bound (x2 hard copy), properly indexed and bound; and PDF format (x1 soft copy), encrypted USB drive, to be well formatted e.g. use of Bookmarks.

Number of copies: 2 hard copy and 1 soft copy

210 Information for commissioning of services

General: Submit relevant drawings and preliminary performance data to enable the building user's staff to familiarise themselves with the installation.

Time of submission: At commencement of commissioning.

210 Information for commissioning of services Building Works Contractor

General: The Building Works Contractor will provide a detailed and co-ordinated programme for all commissioning and client/ Mechanical and Electrical service demonstrations

Time of submission: One month prior the commencement of commissioning

210 Information for commissioning of services Electrical sub-contractor

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General: The Electrical specialist contractor shall be responsible for carrying out the following tests and providing associated certificates of the same for inclusion within the Operating and Maintenance Manuals, which forms part of the safety file.

Time of submission: One month prior the commencement of commissioning

Tests and Certificates for: Complete electrical cabling test of entire building which includes (but not limited to):

- Continuity of protective conductors.
- Continuity of ring circuit conductors.
- Insulation resistance.
- Polarity.
- Earth electrode resistance.
- Earth fault loop impedance.
- Prospective fault current functional testing.
- Complete emergency lighting test (Central Test Unit) including out of hours
- Lux test to be carried out during hours of darkness.
- Sound level test of fire alarm prior to commissioning.
- Bonding and earthing testing.
- Structured cabling tests (fibre optic, computer cabling).
- RDC trip testing
- Label verification testing.

General: The Electrical sub contractors shall fully commission the following systems and demonstrate them to the Client and the Electrical Services Consultant. The sub contractor will provide associated certificates witnessed by the Client and the Electrical Services Consultant for inclusion within the safety file (but not limited to):

- Disable toilet call systems.
- Television system.
- Induction loop system
- Door access control.
- Fire alarm system including sound level test and all interface to other plant and equipment, e.g. ventilation system, door opening motors and electromagnetic locks.

Lighting management set up test.

Smoke ventilation interface with fire alarm installation.

- Lighting dimming control system.
- Intruder alarm system.
- Lighting protection.
- Emergency lighting lux test.
- CCTV system.

210 Information for commissioning of services Mechanical sub contractor

General: The Mechanical specialist contractor shall be responsible for carrying out the following tests, commissioning and providing associated certificates of the same for inclusion within the Operating and Maintenance Manuals which forms part of the Health & Safety file:

Time of submission: One month prior the commencement of commissioning

Tests and Certificates for: Complete mechanical test of entire building which includes (but not limited to):

Plumbing pipework chlorinated.
 Heating pipework flushed and cleaned.
 Heating pipework chemically treated.
 Plumbing pipework pressure tested
 Heating pipework pressure tested.
 Plumbing pipework flushed and cleaned.
 Pipework welding tests.
 Soils and waste hydraulic static test.
 Boiler plant tested and certificate of conformity.
 Pumps and pressurisation unit certificates of hydraulic and performance conformity.
 BMS field device checks and termination.
 Fans tested and certificate of conformity.
 Ductwork leakage tests.
 Calorifer certificate of performance.
 External mains water and fire hydrant pressure test.
 Refrigerant pipework and AC unit.

Systems to be commissioned: The Mechanical sub contractors shall fully commission the following systems. The sub contractor will provide associated certificates witnessed by the Client and the Mechanical Services Consultant for inclusion within the safety file 9but not limited to):

Air flow balance and recordings for air systems
 Heating balance and recordings at all meeting stations (for new project and future extension load).
 Balancing of domestic hot water and cold water system.
 Commissioning of solar panel system.
 Commissioning of air conditioning plant under full and part load conditions.
 Commissioning of all control device and systems.
 Commissioning of the controls energy meter display.
 Commissioning of interface between linked systems to confirm correct operation.
 Fire extinguisher certificate of conformity.

Demonstration: Mechanical demonstration to Client/Consultant (but not limited to):

BMS operation and control of all associated plant.
 Commissioning results of the heating installation
 Project walk through of O&M manuals and sire services.
 BMS front end graphics and link to main front end PC

220 Training

Objective: Before completion, explain and demonstrate to the Employer's maintenance staff the purpose, function and operation of the installations including items and procedures listed in the Safety File.

Level of training: Level of knowledge to be assumed: From no knowledge to user level (refer objective above)

Operating time: Include a minimum of two days

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Time of training: At least two weeks ahead of the issue of the certificate of Substantial Completion.

Ω End of Section

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A40

Contractor's general cost items: management and staff

Clauses

110 Management and staff

Cost-significant items: Include management, trades supervision, engineering, programming and production, quantity surveying support staff and the like.

Cost-significant items: TO BE COMPLETED BY CONTRACTOR

Ω End of Section

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A41

Contractor's general cost items: site accommodation

Clauses

110 Site accommodation

Details: Site accommodation required or made/ not made available by the Employer: See section A36.

Cost significant items: Includes offices, cabins, stores, compounds, canteens, sanitary facilities and the like.

Cost significant items: TO BE COMPLETED BY CONTRACTOR

Ω End of Section

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A42

Contractor's general cost items: services and facilities

Clauses

110 Services and facilities

Details: Services or facilities required or made/ not made available by the Employer: See section A36.

Cost significant items: TO BE COMPLETED BY CONTRACTOR

Ω End of Section

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A43

Contractor's general cost items: mechanical plant

Clauses

110 Mechanical plant

Cost significant items: TO BE COMPLETED BY CONTRACTOR

Ω End of Section

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A44

Contractor's general cost items: temporary works

Clauses

110 Temporary works

Details: Temporary works required or made/ not made available by the Employer: See section A36.

Cost significant items: TO BE COMPLETED BY CONTRACTOR

Ω End of Section

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A50

Work/ products by/ on behalf of the employer

Clauses

120 Products provided by/ on behalf of employer

General: Details of such products are given in the work sections, for fixing as part of the contract. Use for no other purpose than the Works.

Handling: Accept delivery, check against receipts and take into appropriate storage.

Surplus products: Keep safe and obtain instructions.

Ω End of Section

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Bill Nr. A Collection

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Ω End of Section

Bill Nr. 2 Drill Shed

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(10) PREPARED SITE - DEMOLITIONS AND ALTERATIONS</u>				
03	DEMOLITION AND ALTERATIONS				
03.1	Demolition				
03.1.3	Demolishing individual structures				
03.1.3.1	Existing drill shed				
2	Existing drill shed superstructure has been removed by others, only subfloor and partial foundations remain; Include grubbing up and removal off site of remaining drill shed sub-structure to facilitate the building of the new drill shed; contractor to visit site to assess the extent of this work; no claim for failure to visit site to assess nature and extent of the works will be entertained. (approx. size 18.00m x 10.00m)	1	item		
2211.1	Bill: 2 / Page: 1 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(13) FLOORS IN SUBSTRUCTURES</u>				
01	GENERAL RULES				
01	Generally				
01	Information				
3	For a detailed description of materials and workmanship, contractors are to refer to contract drawings and specifications	1	item		
01	Drawings; refer to the following drawings and specifications				
4	0594-MFA-XX-ZZ-DR-T-600-100	1	item		
5	0594-MFA-XX-ZZ-DR-T-600-101	1	item		
6	0594-MFA-XX-ZZ-DR-T-600-102	1	item		
7	0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2	1	item		
2211.1	Bill: 2 / Page: 2 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(13) FLOORS IN SUBSTRUCTURES</u> <u>(Cont'd)</u>				
04	EXCAVATION AND EARTHWORK				
04.2	Excavation				
04.2.4	Excavation				
04.2.4.2	Reduce levels				
04.2.4.2.1	Maximum depth <=2.00m				
8	Generally	129	m ³		
04.2.9	Disposal				
04.2.9.1	Water				
04.2.9.1.1	Surface				
9	Generally	1	item		
04.2.9.1.2	Ground				
10	Generally	1	item		
04.2.9.3	Excavated material				
04.2.9.3.2	Off-site				
11	To licensed local authority waste disposal site	129	m ³		
04.2.10	Granular subgrade fill; Fill to be compliant with I.S EN 13242 and SR 21:2014 + A1:2016 annex E; Subgrade material to be produced from producer with third party certification in accordance with assessment and verification of constancy of performance (AVCP), system 2				
04.2.10.2	To make up levels				
04.2.10.2.2	Average thickness >250mm				
12	Well compacted in layers max 225mm thick	86	m ³		
04.2.11	Surface treatments				
04.2.11.1	Blinding filling; 50mm fine quarry dust; compacted				
13	Horizontal	172	m ²		
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Drill Shed - Stage (ii)c: Detailed design & tender documentation

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(13) FLOORS IN SUBSTRUCTURES</u> <u>(Cont'd)</u>				
06	CONCRETE WORK				
06.1	In-Situ Concrete; Strength class: C32/40; as per section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2				
06.1.9	Beds				
06.1.9.2	Thickness >150				
14	Reinforced; to blinded hardcore	34	m ³		
06.2	Sundries				
06.2.2	Surface finishes				
06.2.2.1	Power floating				
15	Generally	172	m ²		
06.2.1	Designed joints				
06.2.1.1	Perimeter expansion joint; 150mm deep x 20mm wide; 20mm flexcell compressible filler, sealed with Expoflex 800 (20mm x 20mm) by Fosroc or equal approved				
16	depth 200mm; vertical	55	m		
06.2.1.1	Induced contraction (saw-cut) joint; 50mm deep x 5mm wide saw cut; sealed with Expoflex 800 by Fosroc or equal approved				
17	depth 200mm; vertical	47	m		
06.3	Reinforcement; mesh reinforcement to BS 4483; refer to section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2				
06.3.2	Fabric				
06.3.2.1	Ref A393 in bottoms of slab; minimum 75mm cover; minimum 500mm laps for mesh reinforcement; laps to be laced				
06.3.2.1.2	Horizontal				
18	Generally	172	m ²		
06.3.3	Spacers and chairs				
06.3.3.2	Design at Contractor's discretion				
19	Generally; to mesh in bottoms of slabs	172	m ²		
2211.1	Bill: 2 / Page: 4 To Collection				

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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(13) FLOORS IN SUBSTRUCTURES</u> <u>(Cont'd)</u>				
09	ROOFING, CLADDING AND WATERPROOFING				
09.1	Mastic Asphalt, Viscous Liquid Coatings, Waterproof and Gas Proof Non-Metal Flexible Sheet Coverings				
09.1.4	Gas proofing and DPM; Radon and waterproofing system; to specialist contractors design and details - contractor to submit proposals; bonded joints; installed in accordance with manufacturers instructions; refer to section 3.1 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2				
09.1.4.1	Horizontal				
09.1.4.1.2	>300				
20	Generally	172	m ²		
09.1.4.2	Vertical				
09.1.4.2.1	<=300				
21	Generally	55	m		
09.1	Radon sumps and the like; Radon sump system; to specialist contractors design and details - contractor to submit proposals; bonded joints; installed in accordance with manufacturers instructions; refer to section 3.1 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2				
09.1	Generally				
22	Radon sump; bonded to radon barrier in accordance with manufacturers requirements	2	nr		
23	Radon pipework; 125mm; laid in hardcore sub-base	20	m		
24	Radon terminal at external wall; bonded to radon barrier in accordance with manufacturers requirements	1	nr		
25	Extra over for forming opening through reinforced concrete wall for pipework; seal around	1	item		
26	Extra over for bends and junctions as required	1	item		
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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(13) FLOORS IN SUBSTRUCTURES</u> <u>(Cont'd)</u>				
26	TESTS AND SAMPLES				
26.1	Tests and Samples				
26.1.1	Material samples				
26.1.1.1	Granular fill				
27	To off-site lab	1	item		
26.1.1.1	Concrete cube samples				
28	To off-site lab (as per section 4.20 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2)	1	item		
26.1.4	Tests and reports				
26.1.4.1	Granular fill				
26.1.4.1.1	Pyrite testing to be carried out from site samples in accordance with I.S. 398-1:2017				
29	Generally	1	item		
26.1.4.1	Concrete				
26.1.4.1.1	Concrete testing (as per section 4.20 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2)				
30	Generally	1	item		
2211.1	Bill: 2 / Page: 6 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(16) FOUNDATIONS, RISING WALLS</u>				
01	GENERAL RULES				
01	Generally				
01	Information				
31	For a detailed description of materials and workmanship, contractors are to refer to contract drawings and specifications	1	item		
01	Drawings; refer to the following drawings and specifications				
32	0594-MFA-XX-ZZ-DR-T-600-100	1	item		
33	0594-MFA-XX-ZZ-DR-T-600-101	1	item		
34	0594-MFA-XX-ZZ-DR-T-600-102	1	item		
35	0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2	1	item		
2211.1	Bill: 2 / Page: 7 To Collection				

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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(16) FOUNDATIONS, RISING WALLS</u> <u>(Cont'd)</u>				
04	EXCAVATION AND EARTHWORK				
04.2	Excavation				
04.2.4	Excavation				
04.2.4.4	Foundation trenches				
04.2.4.4.1	Maximum depth <=2.00m				
36	Generally	55	m ³		
04.2.5	Extra over excavation items for				
04.2.5.4	Breaking up existing				
04.2.5.4.1	Rock				
37	Generally	20	m ³		
04.2.6	Earthwork support				
04.2.6.2	Maximum depth <=2.00m				
04.2.6.2.1	Distance between opposing faces <=2.00m				
38	Next to existing buildings	121	m ²		
04.2.7	Working space to				
04.2.7.3	Foundations				
04.2.7.3.1	Maximum depth <=2.00m				
39	Backfilling with granular material as per structural engineers specification	121	m ²		
04.2.9	Disposal				
04.2.9.1	Water				
04.2.9.1.1	Surface				
40	Generally	1	item		
04.2.9.1.2	Ground				
41	Generally	1	item		
04.2.9.3	Excavated material				
04.2.9.3.2	Off-site				
42	To licensed local authority waste disposal site	55	m ³		
2211.1	Bill: 2 / Page: 8 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(16) FOUNDATIONS, RISING WALLS</u> <u>(Cont'd)</u>				
04	EXCAVATION AND EARTHWORK (Cont'd)				
04.2	Excavation (Cont'd)				
04.2.10	Granular subgrade fill; Fill to be compliant with I.S EN 13242 and SR 21:2014 + A1:2016 annex E; Subgrade material to be produced from producer with third party certification in accordance with assessment and verification of constancy of performance (AVCP), system 2				
04.2.10.2	To excavations				
04.2.10.2.2	Average thickness >250mm				
43	Well compacted in layers max 225mm thick	28	m ³		
04.2.11	Surface treatments				
04.2.11.1	Compacting bottoms of foundations				
44	Horizontal	55	m ²		
2211.1	Bill: 2 / Page: 9 To Collection				

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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(16) FOUNDATIONS, RISING WALLS</u> <u>(Cont'd)</u>				
06	CONCRETE WORK				
06.1	In-Situ Concrete; Strength class: C20 lean mix; as per section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2.				
06.1.2	Blinding				
45	Poured on or against earth or unblinded hardcore	6	m ³		
06.1	In-Situ Concrete; Strength class: C32/40; as per section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2.				
06.1.4	Foundations; strip foundations				
46	Reinforced	11	m ³		
06.1.4	Foundations; pad foundations				
47	Reinforced	7	m ³		
06.1.16	Column casings				
06.1.16.1	Cross-sectional area <=0.10m2				
48	Reinforced	1	m ³		
06.1.12	Walls				
06.1.12.2	Thickness >150				
49	Reinforced	11	m ³		
06.2	Sundries				
06.2.2	Surface finishes				
06.2.2.1	Troweling tops of foundations				
50	Generally	55	m ²		
06.2.3	Labours				
06.2.3.4	Holding down bolt assemblies				
06.2.3.4.1	Setting in concrete				
51	Generally (bolts measured elsewhere)	52	nr		
06.3	Reinforcement; mesh reinforcement to BS 4483; refer to section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2				
06.3.2	Fabric				
06.3.2.1	Ref A393 in bottoms of strip foundations; minimum 75mm cover; minimum 500mm laps for mesh reinforcement; laps to be laced				
06.3.2.1.2	Horizontal				
52	Generally	37	m ²		
2211.1	Bill: 2 / Page: 10 To Collection				

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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
06.3.2.1	Ref A393 to walls; minimum 75mm cover; minimum 500mm laps for mesh reinforcement; laps to be laced				
06.3.2.1.2	Vertical				
53	Generally	45	m ²		
06.3.3	Spacers and chairs				
06.3.3.2	Design at Contractor's discretion				
54	Generally; to mesh in bottoms of strip foundations	37	m ²		
06.3	Reinforcement bars; of various diameter; to comply with B.S. 8666:2005; spacers and chairs at the discretion of the contractor; in accordance with structural engineers specification				
06.3.1	Bar				
06.3.1.1	Straight or bent				
06.3.1.1.1	Nominal size <=12mm diameter				
55	Generally; starter bars for external walls and bars to stepped foundations	0.90	t		
06.4	Formwork				
06.4.2	Sides of foundations				
06.4.2.2	Height/width >250 <=500				
56	Generally; 350mm high to pad foundations	62	m		
57	Generally; 300mm high to strip foundations	93	m		
06.4.12	Kickers				
06.4.12.1	Walls				
58	Generally	56	m		
06.4.18	Column casing				
06.4.18.2	Attached				
06.4.18.2.1	Rectangular				
59	Height less than 4.00m high	16	m ²		
06.4.13	Walls				
06.4.13.1	Vertical				
60	Height less than 4.00m high	89	m ²		
2211.1	Bill: 2 / Page: 11 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(16) FOUNDATIONS, RISING WALLS</u> <u>(Cont'd)</u>				
26	TESTS AND SAMPLES				
26.1	Tests and Samples				
26.1.1	Material samples				
26.1.1.1	Granular fill				
61	To off-site lab	1	item		
26.1.1.1	Concrete cube samples				
62	To off-site lab (as per section 4.20 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2)	1	item		
26.1.4	Tests and reports				
26.1.4.1	Granular fill				
26.1.4.1.1	Pyrite testing to be carried out from site samples in accordance with I.S. 398-1:2017				
63	Generally	1	item		
26.1.4.1	Concrete				
26.1.4.1.1	Concrete testing (as per section 4.20 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2)				
64	Generally	1	item		
2211.1	Bill: 2 / Page: 12 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(21) EXTERNAL WALLS</u>				
01	GENERAL RULES				
01	Generally				
01	Drawings; refer to the following drawings and specifications				
65	0594-MFA-XX-ZZ-DR-T-600-100	1	item		
66	0594-MFA-XX-ZZ-DR-T-600-101	1	item		
67	0594-MFA-XX-ZZ-DR-T-600-102	1	item		
68	0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2	1	item		
2211.1	Bill: 2 / Page: 13 To Collection				

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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(21) EXTERNAL WALLS (Cont'd)</u>				
06	CONCRETE WORK				
06.1	In-Situ Concrete; Strength class: C32/40; as per section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2.				
06.1.12	Walls				
06.1.12.2	Thickness >150				
69	Reinforced	19	m³		
06.2	Sundries				
06.2.2	Surface finishes				
06.2.2.2	Troweling				
70	Tops of walls	12	m²		
06.3	Reinforcement; mesh reinforcement to BS 4483; refer to section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2				
06.3.2	Fabric				
06.3.2.1	Ref A393 to walls; minimum 75mm cover; minimum 500mm laps for mesh reinforcement; laps to be laced				
06.3.2.1.1	Vertical				
71	Generally	74	m²		
06.3.3	Spacers and chairs				
06.3.3.2	Design at Contractor's discretion				
72	Generally	1	item		
06.4	Formwork				
06.4.13	Walls				
06.4.13.1	Vertical				
73	Height less than 4.00m high	149	m²		
74	Ends of walls; 250mm wide	9	m		
2211.1	Bill: 2 / Page: 14 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(21) EXTERNAL WALLS (Cont'd)</u>				
10	WOODWORK				
10.1	Structural and First Fixings				
10.1.3	Carcassing; Sawn softwood, sawn, C16, Grading standard to BS 5268: Part 2, Table 2 and IS EN 388 and so marked; impregnated; as per section 6 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2.				
10.1.3.1	Walls or partitions				
10.1.3.1.1	225mm x 75mm; include for M12 GR 8.8 SS coach bolt connections to the structural frame				
75	Rails for cladding	204	m		
76	Framing to doors	20	m		
10.1.3.1	Composite member; 2nr 225mm x 44mm timber supports for sliding doors; include for M12 GR 8.8 SS coach bolt connections to the structural frame				
77	Generally	7	m		
2211.1	Bill: 2 / Page: 15 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(27) ROOFS</u>				
01	GENERAL RULES				
01	Generally				
01	Drawings; refer to the following drawings and specifications				
78	0594-MFA-XX-ZZ-DR-T-600-100	1	item		
79	0594-MFA-XX-ZZ-DR-T-600-101	1	item		
80	0594-MFA-XX-ZZ-DR-T-600-102	1	item		
81	0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2	1	item		
2211.1	Bill: 2 / Page: 16 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(27) ROOFS (Cont'd)</u>				
10	WOODWORK				
10.1	Structural and First Fixings				
10.1.3	Carcassing; Sawn softwood, sawn, C16, Grading standard to BS 5268: Part 2, Table 2 and IS EN 388 and so marked; impregnated; as per section 6 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2.				
10.1.3.3	Pitched roofs				
10.1.3.3.1	225mm x 75mm; include for M12 GR 8.8 SS coach bolt connections to the structural frame				
82	Rails for cladding	183	m		
2211.1	Bill: 2 / Page: 17 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(28) FRAMES</u>				
01	GENERAL RULES				
01	Generally				
01	Drawings; refer to the following drawings and specifications				
83	0594-MFA-XX-ZZ-DR-T-600-100	1	item		
84	0594-MFA-XX-ZZ-DR-T-600-101	1	item		
85	0594-MFA-XX-ZZ-DR-T-600-102	1	item		
86	0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2	1	item		
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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(28) FRAMES (Cont'd)</u>				
11	STRUCTURAL				
11.1	Structural steel frame; Structural steel generally shall conform to BS EN 10025: "Hot Rolled Products of Structural Steels". Structural sections shall be in accordance with BS4, Part 1; as per section 5 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2; include for fabrication off site and erection on site; include for all bolted connections.				
11.1.2	Fabricated members, primary steelwork				
11.1.2.1	Beams				
87	UB 127 x 76 x 13; Not exceeding 25kg/m	0.05	t		
88	UB 203 x 133 x 25; Not exceeding 25kg/m	0.90	t		
89	UB 395 x 127 x 37; 25kg/m to 50kg/m	2.08	t		
11.1.2.2	Stanchions				
90	UB 127 x 76 x 13; Not exceeding 25kg/m	0.15	t		
91	UB 395 x 127 x 37; 25kg/m to 50kg/m	2.01	t		
11.1.2.3	Bracings				
92	CHS 60.3x3.2; Not exceeding 25kg/m	0.40	t		
93	RSA 90 x 90 x 7; Not exceeding 25kg/m	0.42	t		
11.1.2.10	Fittings				
94	Generally	1.01	t		
11.1.8	Protective coatings				
11.1.8.1	Preparation and treatments				
11.1.8.1.1	Surface Preparation; Blast Cleaning				
95	Generally; All structural steelwork; Prepare by blast cleaning the steel surface to give preparation grade of surface quality Sa 2½ in accordance with BS 7079 or equivalent.	245	m²		
11.1.8.1.1	Painting; internal steelwork; Apply high build Zinc phosphate epoxy primer to minimum 80µm thickness				
96	Generally; Internal Steelwork	245	m²		
11.1.11	Holding down assemblies				
11.1.11.1	Holding down bolts; grade 8.8 M20 x 300mm long with 100 x 100 x 18mm M.S. washer plate; embedded 250mm; with 75mm dia tube or polystyrene cone				
97	Generally	52	nr		
2211.1	Bill: 2 / Page: 19 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(28) FRAMES (Cont'd)</u>				
11	STRUCTURAL (Cont'd)				
11.1	Structural steel frame; Structural steel generally shall conform to BS EN 10025: "Hot Rolled Products of Structural Steels". Structural sections shall be in accordance with BS4, Part 1; as per section 5 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2; include for fabrication off site and erection on site; include for all bolted connections. (Cont'd)				
11.1.13	Grouting				
11.1.13.1	Holding down bolts				
98	Generally	52	nr		
11.1.13.2	Base plates				
11.1.13.2.1	500mm x 200mm				
99	Grout bases; 25mm cementitious non-shrink grout by Larsen OSA (or equal approved)	13	nr		
2211.1	Bill: 2 / Page: 20 To Collection				

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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(31) EXTERNAL WALL: COMPLETIONS WITHIN OPENINGS</u>				
12	METALWORK				
12.1	Non-Structural				
12.1.1	Composite items				
12.1.1.3	Door and frame sets; Manufacturer: (securityshuttersni.com) Industrial door specialists or equivalent; Product reference: Security steel hinged personnel door sets; Door Frame Material: 1.8mm Galvanised Steel; Door Frame Depth: 90mm; Door Leaf Material: Double skinned 1.0mm galvanised steel – Mineral wool insulation; Door Leaf Depth: 50mm; Door Leaf Core: Mineral wool insulation; Internal Strengthening: 2 x horizontal & 1 x vertical reinforced bars; Construction: Fully welded construction, Galvanised Steel; Hinges: 4 Stainless steel ball bearing hinges; Locks or Door Furniture: Latham's trademark 19 point locking system; Cylinder: Tradelock Euro Cylinder as standard; Handles: Stainless Steel handles as standard; Seal: Nylon self adhesive V-seal; Dog Bolts: 4 Dog bolts; Jemmy Bar Lip: At door jam, hinge side & top; Threshold: DDA (Disability Discrimination Act) compliant threshold; Security Type: Medium.				
12.1.1.3.1	Size 990mm x 2095mm; Colour RAL 7916; Opening inwards				
100	Generally; fixing to concrete and timber	2	nr		
12.1.1.3	Doors; Contractor designed sliding doors; Manufacturer: Advanced roller door systems Ltd or equivalent; Product reference: Sliding doors; Welded galvanised steel door leaves with primed finish (with corrugated cladding to match building / measured elsewhere); Heavy duty galvanised sliding door gear and track				
12.1.1.3.1	Structural opening 3521mm wide x 3137mm high; 2nr equal size sliding leaves				
101	Generally; fixing to concrete floor and timber	1	nr		
102	Extra over for flashings to cover sliding gear	1	item		
103	Extra over for locks	1	nr		
104	Extra over for pull handles	2	nr		
12.1	Sundries				
105	Bedding and pointing frames; silicone, colour to match frame colour	10	m		
106	Air tightness seals; sealing junction between door frame and masonry	10	m		
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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(41) WALL FINISHES EXTERNALLY</u>				
09	ROOFING, CLADDING AND WATERPROOFING				
09.3	Rigid Sheet Coverings and Decking				
09.3.2	Coverings shall comply with BS 449, BS 476, BS 5427: Part 1 and BS 5950; Type: corrugated profile suitable for exposed costal environment; Protection: galvanised and powder coated finish; Colour: standard colour range TBC; Fixing: stainless steel fixings with butyl seals and coloured cappings to match cladding, for fixing to timber cladding rails; All flashing details to manufacturers standard details and best practice.				
09.3.2.2	Vertical cladding				
09.3.2.2.2	>300 wide				
107	Vertical	239	m ²		
108	Vertical; covering to sliding doors	13	m ²		
109	Extra over for fixing to concrete dado wall	74	m ²		
110	Extra over for raking cutting; sealing edges of cut edge to prevent corrosion	23	m		
09.3.2.18	Vertical external angles				
111	400mm girth flashing, 1nr bent, 2nr weltd edges, complete with fillers and seals	16	m		
09.3.2.8	Aprons/sills drip flashing				
112	250mm girth flashing, 2nr bent, 1nr weltd edges, complete with fillers and seals	50	m		
09.3.2.16	Jamb flashing to doors				
113	600mm girth flashing, 3nr bent, 2nr weltd edges, complete with fillers and seals	14	m		
09.3.2.16	Head flashing to doors				
114	600mm girth flashing, 3nr bent, 2nr weltd edges, complete with fillers and seals	7	m		
2211.1	Bill: 2 / Page: 22 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(43) FLOOR FINISHES</u>				
21	PAINTING AND DECORATING				
21.1	Painting				
21.1.4	Floor paint; Antislip quick drying concrete floor paint; Contractor to submit proposals to provide durability, impact resistance and suitability for heavy duty industrial areas; number of coats as required.				
21.1.4.1	Girth >300				
115	General areas: Floors	172	m²		
2211.1	Bill: 2 / Page: 23 To Collection				

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(47) ROOF FINISHES</u>				
01	GENERAL RULES				
01	Generally				
01	Drawings; refer to the following drawings and specifications				
116	0594-MFA-XX-ZZ-DR-T-600-100	1	item		
117	0594-MFA-XX-ZZ-DR-T-600-101	1	item		
118	0594-MFA-XX-ZZ-DR-T-600-102	1	item		
119	0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2	1	item		
2211.1	Bill: 2 / Page: 24 To Collection				

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DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(47) ROOF FINISHES (Cont'd)</u>				
09	ROOFING, CLADDING AND WATERPROOFING				
09.3	Rigid Sheet Coverings and Decking				
09.3.2	Coverings shall comply with BS 449, BS 476, BS 5427: Part 1 and BS 5950; Type: corrugated profile suitable for exposed costal environment; Protection: galvanised and powder coated finish; Colour: standard colour range TBC; Fixing: stainless steel fixings with butyl seals and coloured cappings to match cladding, for fixing to timber cladding rails; All flashing details to manufacturers standard details and best practice.				
09.3.2.4	Sloping >15 degrees <=25 degrees				
09.3.2.4.2	>300 wide				
120	Roofs generally	213	m²		
09.3.2.18	Eaves				
121	300mm girth flashing, 1nr bent, 2nr welted edges, complete with fillers and seals	18	m		
09.3.2.18	Verges				
122	500mm girth flashing, 4nr bent, 2nr welted edges, complete with fillers and seals	23	m		
09.3.2.18	Ridges				
123	500mm girth flashing, 1nr bent, 2nr welted edges, complete with fillers and seals	18	m		
2211.1	Bill: 2 / Page: 25 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

DRILL BUILDING

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(52) DRAINAGE AND REFUSE DISPOSAL</u>				
22	DRAINAGE				
22.1	Disposal above Ground				
22.1.2	Pipes				
22.1.2.1	Aluminum rainwater pipes; Manufacturer: Contractor to submit proposals; Thickness: 1.2mm: Profile: circular; Finish: Polyester powder coated finish to match cladding; fixing with brackets at 900mm centres to cladding				
124	100mm diameter	16	m		
22.1.3	Extra over pipes on which they occur for				
22.1.3.1	Fittings to downpipes				
22.1.3.1.1	Nominal diameter 100mm				
125	Shoes	4	nr		
22.1.8	Gutters				
22.1.8.1	Aluminum rainwater gutters; Manufacturer: Kingspan industrial highline gutter or equal approved; Thickness: 1.6mm: Profile: box; Finish: Polyester powder coated finish to match cladding; fixing with brackets at 900mm centres to steel frame				
126	Kingspan highline gutter; 200 x 200	36	m		
22.1.9	Extra over gutters on which they occur for				
22.1.9.1	Fittings to gutters				
22.1.9.1.1	Gutter; 200 x 200				
127	Ends	4	nr		
128	Outlets for 100mm dia pipes	4	nr		
2211.1	Bill: 2 / Page: 26 To Collection				

DRILL BUILDING

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Bill Nr. 3 External Works

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
129	<u>(40) ROADS, PATHS & PAVINGS</u>	1	item		
	NOTE Concrete path to be provide to one side of drill shed (approx. 20m x 1.5m wide) and to drill shed main doorway (approx. 6m x 5m)				
2211.1		Bill: 3 / Page: 1		To Collection	

Drill Shed - Stage (ii)c: Detailed design & tender documentation

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(40) ROADS, PATHS & PAVINGS (Cont'd)</u>				
04	EXCAVATION AND EARTHWORK				
04.2	Excavation				
04.2.4	Excavation				
04.2.4.2	Reduce levels				
04.2.4.2.1	Maximum depth <=2.00m				
130	Generally	30	m ³		
04.2.9	Disposal				
04.2.9.1	Water				
04.2.9.1.1	Surface				
131	Generally	1	item		
04.2.9.1.2	Ground				
132	Generally	1	item		
04.2.9.3	Excavated material				
04.2.9.3.2	Off-site				
133	To licensed local authority waste disposal site	30	m ³		
04.2.10	Granular subgrade fill; Fill to be compliant with I.S EN 13242 and SR 21:2014 + A1:2016 annex E; Subgrade material to be produced from producer with third party certification in accordance with assessment and verification of constancy of performance (AVCP), system 2				
04.2.10.2	To make up levels				
04.2.10.2.1	Average thickness <=250mm				
134	Well compacted in layers max 225mm thick	18	m ³		
04.2.11	Surface treatments				
04.2.11.1	Blinding filling; 50mm fine quarry dust; compacted				
135	Horizontal	60	m ²		
2211.1	Bill: 3 / Page: 2 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(40) ROADS, PATHS & PAVINGS (Cont'd)</u>				
06	CONCRETE WORK				
06.1	In-Situ Concrete; Strength class: C32/40; as per section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2				
06.1.9	Beds				
06.1.9.2	Thickness <=150				
136	Reinforced; to blinded hardcore	9	m³		
06.2	Sundries				
06.2.2	Surface finishes				
06.2.2.1	Brushed finish to paths				
137	Generally	60	m²		
06.3	Reinforcement; mesh reinforcement to BS 4483; refer to section 4 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2				
06.3.2	Fabric				
06.3.2.1	Ref A252 in bottoms of slab; minimum 75mm cover; minimum 500mm laps for mesh reinforcement; laps to be laced				
06.3.2.1.2	Horizontal				
138	Generally	60	m²		
06.3.3	Spacers and chairs				
06.3.3.2	Design at Contractor's discretion				
139	Generally; to mesh in bottoms of slabs	60	m²		
06.4	Formwork				
06.4.3	Edges of beds				
06.4.3.1	Height/width <=250				
140	Generally	39	m		
2211.1	Bill: 3 / Page: 3 To Collection				

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(40) ROADS, PATHS & PAVINGS (Cont'd)</u>				
26	TESTS AND SAMPLES				
26.1	Tests and Samples				
26.1.1	Material samples				
26.1.1.1	Granular fill				
141	To off-site lab	1	item		
26.1.1.1	Concrete cube samples				
142	To off-site lab (as per section 4.20 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2)	1	item		
26.1.4	Tests and reports				
26.1.4.1	Granular fill				
26.1.4.1.1	Pyrite testing to be carried out from site samples in accordance with I.S. 398-1:2017				
143	Generally	1	item		
26.1.4.1	Concrete				
26.1.4.1.1	Concrete testing (as per section 4.20 of 0594-MFA-WRE-A2-600-001 C&S Works Requirement Volume A2)				
144	Generally	1	item		
2211.1	Bill: 3 / Page: 4 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(50) UNDERGROUND DRAINAGE</u>				
22	DRAINAGE				
22.2	Below Ground				
22.2.1	Excavating trenches for				
22.2.1.1	Pipe <=250 nominal diameter				
22.2.1.1.1	Average depth of trench 500-1000mm				
145	Backfilled with excavated material above bed and surround	55	m		
22.2.2	Extra over excavating trenches irrespective of depth for				
22.2.2.1	Breaking up material in excavations				
22.2.2.1.1	Rock				
146	Generally	20	m ³		
22.2.2.8	Lifting sods for preservation				
22.2.2.8.1	Width of trenching				
147	Re-laying sods	55	m		
22.2.3	Disposal				
22.2.3.1	Groundwater				
148	Generally	1	item		
22.2.3.2	Surface water				
149	Generally	1	item		
22.2.6	Beds and surrounds				
22.2.6.1	Granular beds and surrounds; pea gravel				
150	450mm x 600mm to suit 150mm dia pipe	55	m		
22.2.8	Pipes				
22.2.8.1	Drains; approved uPVC pipes and fittings				
151	150 mm Pipe laid in trenches	55	m		
22.2.9	Extra over pipes on which they occur for				
22.2.9.1	150mm dia pipes				
152	Bends	10	nr		
153	T junctions	2	nr		
154	Back inlet gully trap	5	nr		
2211.1	Bill: 3 / Page: 5 To Collection				

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(50) UNDERGROUND DRAINAGE (Cont'd)</u>				
22	DRAINAGE (Cont'd)				
22.2	Below Ground (Cont'd)				
22.2.12	Soakaways				
22.2.12.1	Forming Soakaways; including for all excavation, disposal off site; filling with 20-40mm crushed limestone (no fines) wrapped in Terram Geotextile				
155	Generally; 1.00m x 2.00m x 1.00m deep	2	nr		
22.2.19	Connections to				
22.2.19.2	Mains private				
156	Allow for connection of new 150mm diameter into existing manhole; include for locating and excavating to expose existing drain, temporary diversion, break into existing manhole; maintain the existing system in operation during the work and make good on completion. Allow for temporary protection, watching and lighting outside the site boundaries during the execution of the surface water services connections.	2	nr		
22.2.20	Testing and Commissioning				
22.2.20.1	Storm water drainage				
157	Generally	1	item		
2211.1	Bill: 3 / Page: 6 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(50) UNDERGROUND DRAINAGE (Cont'd)</u>				
22	WATER MAINS				
22.2	Below Ground				
22.2.1	Excavating trenches for				
22.2.1.1	Pipe <=250 nominal diameter				
22.2.1.1.1	Average depth of trench 500-1000mm				
158	Backfilled with excavated material above bed and surround	50	m		
22.2.2	Extra over excavating trenches irrespective of depth for				
22.2.2.1	Breaking up material in excavations				
22.2.2.1.1	Rock				
159	Generally	20	m ³		
22.2.2.8	Lifting sods for preservation				
22.2.2.8.1	Width of trenching				
160	Re-laying sods	50	m		
22.2.3	Disposal				
22.2.3.1	Groundwater				
161	Generally	1	item		
22.2.3.2	Surface water				
162	Generally	1	item		
22.2.6	Beds and surrounds				
22.2.6.1	Granular beds and surrounds; sand				
163	450mm x 600mm to suit 25mm dia pipe	50	m		
22.2.8	Pipes				
22.2.8.1	Pipes; type Watermain Pipe Polyethylene 'PE', compression joints				
164	25mm Pipe laid in trenches	50	m		
22.2.9	Extra over pipes on which they occur for				
22.2.9.1	25mm dia pipes				
165	Bends	4	nr		
22.2	Sundries				
166	Plastic service warning tape laid above watermain in trench backfilling at a depth of 400 mm below finished ground level.	50	m		
2211.1	Bill: 3 / Page: 7 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(50) UNDERGROUND DRAINAGE (Cont'd)</u>				
22	WATER MAINS (Cont'd)				
22.2	Below Ground (Cont'd)				
22.2	Pipe Accessories				
167	Shut off Valve; complete with unit, surface box, marker post and chamber, including access pipe cover and cap	1	nr		
22.2.19	Connections to				
22.2.19.2	Mains private				
168	Allow for connection of new 25mm diameter into existing watermains; include for locating and excavating to expose existing water mains, temporary diversion, break into existing; maintain the existing system in operation during the work and make good on completion. Allow for temporary protection, watching and lighting outside the site boundaries during the execution of the surface water services connections.	1	nr		
22.2.20	Testing and Commissioning				
22.2.20.1	Water mains				
169	Provide for testing watermain under hydraulic pressure in accordance with Uisce Eireann Specification.	1	item		
170	Swabbing and sterilisation of watermain	1	item		
2211.1	Bill: 3 / Page: 8 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(60) UNDERGROUND SERVICES</u>				
22	ELECTRICAL INSTALLATIONS				
22.2	Below Ground				
22.2.1	Excavating trenches for				
22.2.1.1	Pipe <=250 nominal diameter				
22.2.1.1.1	Average depth of trench 500-1000mm				
171	Backfilled with excavated material above bed and surround	50	m		
22.2.2	Extra over excavating trenches irrespective of depth for				
22.2.2.1	Breaking up material in excavations				
22.2.2.1.1	Rock				
172	Generally	20	m ³		
22.2.2.8	Lifting sods for preservation				
22.2.2.8.1	Width of trenching				
173	Re-laying sods	50	m		
22.2.3	Disposal				
22.2.3.1	Groundwater				
174	Generally	1	item		
22.2.3.2	Surface water				
175	Generally	1	item		
22.2.6	Beds and surrounds				
22.2.6.1	Granular beds and surrounds; sand				
176	450mm x 600mm to suit 100mm dia pipe	1	m		
22.2.8	Pipes				
22.2.8.1	Pipes; (1 nr - 100mm dia RED PVC Duct); not exceeding 250mm nominal diameter				
177	100mm Pipe laid in trenches	50	m		
22.2.9	Extra over pipes on which they occur for				
22.2.9.1	100mm dia pipes				
178	Bends	2	nr		
179	Slow radius bend into building; including forming openings in reinforced concrete walls and floor slab; sealing around	1	nr		
2211.1	Bill: 3 / Page: 9 To Collection				

EXTERNAL WORKS

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(60) UNDERGROUND SERVICES (Cont'd)</u>				
22	ELECTRICAL INSTALLATIONS (Cont'd)				
22.2	Below Ground (Cont'd)				
22.2	Sundries				
180	Plastic service warning tape laid above electric main in trench backfilling at a depth of 400 mm below finished ground level.	50	m		
22.2	Pipe Accessories				
181	Include for forming below ground concrete cable draw pits 600mm x 600mm, including cast iron cover	1	nr		
22.2.19	Connections to				
22.2.19.2	Mains private				
182	Allow for connection of new 100mm diameter duct into existing underground ductwork; include for locating and excavating to expose existing electric mains, temporary diversion, break into existing; maintain the existing system in operation during the work and make good on completion. Allow for temporary protection, watching and lighting outside the site boundaries during the execution of the surface water services connections.	1	nr		
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EXTERNAL WORKS

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Bill Nr. 4 MEP Service

Drill Shed - Stage (ii)c: Detailed design & tender documentation

MEP SERVICES

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(5-) SERVICES (MAINLY PIPED AND DUCTED)</u>				
14	MECHANICAL INSTALLATIONS				
14.1	Mechanical Installations				
14.1.1	General Rules				
14.1.1.1	The contractor is to design, supply and install a plumbing installation for the new drill shed to comprise: 1nr external water tap; 1nr sink complete with hot and cold water supply; waste connections to external storm drain.				
183	Generally	1	item		
14.1.4	Primary equipment				
14.1.4.1	Sink				
184	Stainless steel wash hand basin; Heavy duty stainless steel 1.6mm thick wash basin 500 x 400 x 140mm; complete with waste and trap; wall mounted; fixings to concrete	1	nr		
185	Lever operated basin taps (hot and cold); set	1	nr		
14.1.4	Water heater				
186	Triton instaflow stored water heater 1.5KW 5 litre storage	1	nr		
14.1.4	Water tap (external)				
187	Provide stainless steel water tap; wall mounted; fixings to concrete	1	nr		
14.1.6	Pipework				
14.1.6.1	15mm pipework; hot and cold water supply to sink				
188	Generally	1	item		
14.1.6.1	25mm pipework; cold water supply to external tap				
189	Generally	1	item		
14.1.6.1	38mm pipework; PVC wastes to sink				
190	Generally	1	item		
14.1.7	Pipework fittings and ancillaries				
191	Allowance for bends, joints, tees, reducers, etc.	1	item		
14.1.10	Insulation				
14.1.10.1	Pipework				
192	Allowance for all required	1	item		
2211.1	Bill: 4 / Page: 1 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

MEP SERVICES

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(5-) SERVICES (MAINLY PIPED AND DUCTED) (Cont'd)</u>				
14	MECHANICAL INSTALLATIONS (Cont'd)				
14.1	Mechanical Installations (Cont'd)				
14.1.10	Insulation (Cont'd)				
14.1.10.3	Primary equipment				
193	Allowance for all required	1	item		
14.1.10.4	Terminal equipment and fittings				
194	Allowance for all required	1	item		
14.1.11	Identification				
195	Identification plates, labels and the like	1	item		
14.1.12	Testing				
196	Generally	1	item		
14.1.13	Commissioning and system validation				
197	Generally	1	item		
14.1.14	Operation and maintenance manuals				
198	Generally	1	item		
14.1.15	Drawing preparation				
14.1.15.1	Installation				
199	Generally	1	item		
14.1.15.3	As installed and recorded				
200	Generally	1	item		
14.1.16	Training				
14.1.16.1	Mechanical installation				
201	Generally	1	item		
14.1.17	Demonstration				
14.1.17.1	Mechanical installation				
202	Generally	1	item		
2211.1	Bill: 4 / Page: 2 To Collection				

MEP SERVICES

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(5-) SERVICES (MAINLY PIPED AND DUCTED) (Cont'd)</u>				
14	MECHANICAL INSTALLATIONS (Cont'd)				
14.1	Mechanical Installations (Cont'd)				
14.1.19	Post completion services				
14.1.19.1	Maintenance				
14.1.19.1.1	Mechanical installation; 12 months maintenance after substantial completion				
203	Generally	1	item		
2211.1	Bill: 4 / Page: 3 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

MEP SERVICES

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(6-) SERVICES (MAINLY ELECTRICAL)</u>				
15	ELECTRICAL INSTALLATIONS				
15.1	Electrical Installations				
15.1.1	General Rules				
15.1.1.1	The contractor is to design, supply and install an electrical installation for the new drill shed to comprise lighting, 4nr power sockets, independent distribution board and cable connections to the existing electrical supply. The installation will comply with Ireland's National Rules for Electrical Installations standard I.S. 10101:2020+AC1:2020 as published by the NSAI.				
204	Generally	1	item		
15.1.4	Primary equipment				
15.1.4.1	Distribution board				
15.1.4.1.1	Metal-clad consumer unit (18th Edition compliant) Standard: BS EN 61439-3; Supply: 230V AC, 50 Hz, single phase; Earthing system: TN-S / TN-C-S (confirm on site); Location: Indoor (shed), surface mounted; Ingress Protection: recommend IP40–IP65; Main Switch: 100A double pole isolator; Surge Protection Device (SPD): Type 2 SPD; Lighting circuits: 2 × 6A RCBOs; Power circuits: 1 × 32A RCBO; Water heater circuits: 10A RCBO; Spare ways (minimum 3)				
205	Generally	1	nr		
15.1.5	Terminal equipment and fittings				
15.1.5.1	Switches				
206	Light switch IP65 (two way)	2	nr		
15.1.5	Sockets				
207	Double socket IP65	4	nr		
208	Spur socket for water heater IP65	1	nr		
15.1.5	Lights				
209	Siteco Monsun 21 standard or equivalent; Lamp (Type / Wattage OR Lumen Output): 26w; Efficiency (lm/W): 162; Dims (mm) / Weight (kg): 1299L x 90W	8	nr		
210	Siteco Monsun 21 emergency or equivalent; Lamp (Type / Wattage OR Lumen Output): 26w; Efficiency (lm/W): 162; Dims (mm) / Weight (kg): 1299L x 90W	4	nr		
15.1.6	Cable containment				
15.1.6.1	Exposed conduits				
211	Galvanised steel conduits as required	1	item		
2211.1	Bill: 4 / Page: 4 To Collection				

Drill Shed - Stage (ii)c: Detailed design & tender documentation

MEP SERVICES

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(6-) SERVICES (MAINLY ELECTRICAL)</u> <u>(Cont'd)</u>				
15	ELECTRICAL INSTALLATIONS (Cont'd)				
15.1	Electrical Installations (Cont'd)				
15.1.7	Cable containment fittings				
15.1.7.1	Exposed conduits				
212	Galvanised steel fitting as required	1	item		
15.1.8	Cables				
15.1.8.1	Internal cables				
213	Allow for all internal cables required for the complete electrical installation	1	item		
15.1.8.1	External cables				
214	Allow for all external armoured cables required to connect the new shed with existing supply. Contractor to visit site to assess the length of cable required.	1	item		
15.1.9	Cable terminations and joints				
215	Allowance for all cable terminations and joints required	1	item		
15.1.16	Identification				
216	Identification plates, labels and the like	1	item		
15.1.17	Testing				
217	Generally	1	item		
15.1.18	Commissioning and system validation				
218	Generally	1	item		
15.1.19	Operation and maintenance manuals				
219	Generally	1	item		
15.1.20	Drawing preparation				
15.1.20.1	Installation				
220	Generally	1	item		
15.1.20.3	As installed and recorded				
221	Generally	1	item		
15.1.21	Training				
15.1.21.1	Electrical installations				
222	Generally	1	item		
2211.1	Bill: 4 / Page: 5 To Collection				

MEP SERVICES

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MEP SERVICES

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(6-) SERVICES (MAINLY ELECTRICAL)</u> <u>(Cont'd)</u>				
17	BUILDERS' WORK IN CONNECTION WITH MECHANICAL AND ELECTRICAL INSTALLATIONS AND MOVEMENT SYSTEMS				
17.1	Builders' Work in Connection with Mechanical and Electrical Installations and Movement Systems				
17.1.2	General builders' work in connection with				
17.1.2.1	Builders' Work in Connection with Mechanical and Electrical Installations				
17.1.2.1	Note: divergence from ARM5 method of measurement. Measured as global "item" pricing items. The contractor to include for all works necessary.				
225	Contractor to include for the cost of all Builders work in connection with services to include cutting, forming holes, chasing, making good and the like	1	item		
2211.1	Bill: 4 / Page: 7 To Collection				

MEP SERVICES

Ref.	Description	Quantity	Unit	Rate	Total
	<u>(6-) SERVICES (MAINLY ELECTRICAL)</u> <u>(Cont'd)</u>				
18	FIRESTOPPING				
18.1	Firestopping				
18.1.3	Fire sealing and fire barriers				
18.1.3.1	Firestopping in Connection with Mechanical and Electrical Installations				
18.1.3.1	Note: divergence from ARM5 method of measurement. Measured as global "item" pricing items. The contractor to include for all works necessary.				
226	Generally; Contractor to include for the cost of all Fire Stopping and other associated fire protection work; to include fire stopping all holes, opes etc. as required	1	item		
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MEP SERVICES

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GENERAL SUMMARY

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Amount for:

Bill Nr. 1 Preliminaries / General conditions.....brought forward €

Bill Nr. 2 Drill Shedbrought forward €

Bill Nr. 3 External Worksbrought forward €

Bill Nr. 4 MEP Servicesbrought forward €

Sub total; Bill Nr. 1, 2, 3 and 4 (Item A) €

PROJECT SUPERVISOR

(per PW-CF5 sub-clause 2.4)

We agree to nominate a suitably qualified person to provide the required services and have included for all costs associated with the provision of such services to fulfil the function and perform on behalf of the Employer the duties of the Project Supervisor for the Construction Stage as set out in Paragraphs 6 & 7 of the Safety, Health and Welfare at Work (Construction) Regulations 2006 and co-operating with the Project Supervisor Design Process in the preparation and hand-over to the Client of the Safety File on Substantial Completion; complying with the conditions of the Collateral Agreement including any insurance costs.

Sub total; AMOUNT FOR PROJECT SUPERVISOR (Item B) €

INSURANCES

(per PW-CF5 Clause 3)

Insurance of the Works, public liability insurance and employers' liability insurance

Sub total; AMOUNT FOR PERFORMANCE BOND (Item C) €

PERFORMANCE BOND

(per PW-CF5 sub-clause 1.5)

The contractor shall enter a Performance Bond (refer Model Form 1.6)

Sub total; AMOUNT FOR PERFORMANCE BOND (Item D) €

Amount of tender (excluding VAT)

TOTAL FORWARD TO TENDER PRICE FORM €

(i.e., Volume B – Tender & Schedule)

Contractor's signature _____

Contractor's name _____

Address _____

Date _____

Telephone Nr. _____

E-mail _____

Ω End of Section



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