



SPECIFICATION

for

**EXTENSION TO FISHERMEN'S SLIPWAY AND
REPAIRS TO SHEDS**

at

SWANAGE SLIPWAY

for

SWANAGE TOWN COUNCIL

Project Ref: 006048

**prepared by
Dorset Property**

DORSET COUNTY COUNCIL

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

SPECIFICATION

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PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

SECTION

1 Preliminaries

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A10 PROJECT PARTICULARS

110 THE PROJECT

- Name: Extension to Fishermen's Slipway and Repairs to Sheds.
- Nature: Extension to Slipway, new jetty and repairs to sheds.
- Location: Peveril Point Road, Swanage, BH19 2AY.
- Length of contract: 12 weeks.

120 EMPLOYER (CLIENT)

- Name: Swanage Town Council.
- Address: Town Hall, High Street, Swanage, BH19 2NZ.
- Contact: Mr G. Brookes, Operations Manager.
- Telephone: 01929 423636.
- E-mail: g.brookes@swanage.gov.uk.

130 PRINCIPAL CONTRACTOR (CDM)

- Name: The contractor.
- Address: To be confirmed.
- Contact: To be confirmed.
- Telephone: To be confirmed.
- E-mail: To be confirmed.

140 ARCHITECT/ CONTRACT ADMINISTRATOR

- Name: Vivienne Berry.
- Address: Dorset Property, Environment Directorate, Dorset County Council, County Hall, Colliton Park, Dorchester, DT1 1XJ.
- Contact: Vivienne Berry.
- Telephone: 01305 221920.
- E-mail: v.a.berry@dorsetcc.gov.uk.

150 PRINCIPAL DESIGNER

- Name: Dorset Property.
- Address: Dorset Property, Environment Directorate, Dorset County Council, County Hall, Colliton Park, Dorchester, DT1 1XJ.
- Contact: Vivienne Berry.
- Telephone: 01305 221920.
- E-mail: v.a.berry@dorsetcc.gov.uk.

200 CONSULTANTS

- Description: Structural Engineer.
- Name: Ian Foster.
- Address: Smith Foster, Suite 8, Branksome Park House, Bransome Business Park, Bourne Valley Road, Poole, BH21 1ED.
- Telephone: 01202 540888.

A11 TENDER AND CONTRACT DOCUMENTS

110 TENDER DRAWINGS

- The tender drawings are: As drawing schedule, see section 4.

120 CONTRACT DRAWINGS

- The Contract Drawings: The same as the tender drawings.

160A PRECONSTRUCTION INFORMATION

- Format: The Preconstruction information is described in Appendix D

A12 THE SITE/ EXISTING BUILDINGS

110 THE SITE

- Description: The site is adjacent to the existing stone cobbled slipway and consists of existing fishermen's sheds, a partial beach and concrete platforms..

120 EXISTING BUILDINGS ON/ ADJACENT TO THE SITE

- Description: On the site is a Second World War pillbox which must be protected and existing fishermen's sheds. Outside the site a boat park is to the south of the site and Duke of Wellington clocktower is on the western boundary, with the sea to the north and existing slipway on east side.

140 EXISTING UTILITIES AND SERVICES

- Drawings: (Information shown is indicative only): please refer to Appendix A.
- Other information: the generic safety information associated with each utility supplier is available on request.

160 SOILS AND GROUND WATER

- Information: Included in the tender documents.

200 ACCESS TO THE SITE

- Description: Access to the site is via Peveril Point Road and the main slipway off the boat park.
- Limitations: It is essential the access to the main slipway from the boat park is maintained at all times.

210 PARKING

- Restrictions on parking of the Contractor's and employees' vehicles: space will be set aside in the boat park, there will be no parking available elsewhere.

220 USE OF THE SITE

- General: Do not use the site for any purpose other than carrying out the Works.
- Limitations: The existing stone slipway will remain active by the fishermen during the site works and arrangements for safe working for both parties will be agreed in advance of commencement of the works, a public footpath crosses the site and temporary arrangements will be made to divert the path.

230 SURROUNDING LAND/ BUILDING USES

- General: Adjacent or nearby uses or activities are as follows:
 - The site is in a residential area. The RNLI Lifeboat station is also nearby.

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:
 - Refer to Pre Contract Information document.
- Information: The accuracy and sufficiency of this information is not guaranteed by the Employer or the Employer's representative. 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: the site is generally open access except for the sheds, access to some of the sheds may be available by prior arrangement with Vivienne Berry on 01305 221920.

A13 DESCRIPTION OF THE WORK

110 PREPARATORY WORK BY OTHERS

- Works: Carried out under a separate contract and completed before the start of work on site for this Contract.
- Description: Excavation to confirm the depth and size of Wessex Water Effluent Discharge Main.

120 THE WORKS

- Description: Formation of a new slipway, supply and installation of a winch and mooring rings, lighting, jetty, supply of combined toilet/shower and crustacean store block, repairs and/or replacement of some existing sheds, new roofs to the sheds.

130 WORK BY OTHERS CONCURRENT WITH THE CONTRACT

- Description: None.

140 COMPLETION WORK BY OTHERS

- Description: None.

A20 JCT MINOR WORK BUILDING CONTRACT (MW)

JCT MINOR WORKS BUILDING CONTRACT

- The Contract: JCT Minor Works Building Contract 2016 Edition.
- Requirement: Allow for the obligations, liabilities and services described.

THE RECITALS

First - THE WORKS AND THE CONTRACT ADMINISTRATOR

- The work comprises: Extension to slipway, new jetty and repairs to sheds.
- Architect/ Contract Administrator: See clause A10/140.

Second - CONTRACT DOCUMENTS

- Contract drawings: As listed in clause A11/120.
Contract documents: The following have been prepared which show and describe the work to be done a specification and schedule of works.

Third - PRICED DOCUMENTS

- Documents to be priced or provided by the Contractor: Preliminaries and Schedule of Works.

ARTICLES

3 - ARCHITECT/ CONTRACT ADMINISTRATOR

- Architect/ Contract Administrator: See clause A10/140.

4 and 5 - PRINCIPAL DESIGNER/ PRINCIPAL CONTRACTOR

- Principal Designer: See clause A10/150.
- Principal Contractor: See clause A10/130.

CONTRACT PARTICULARS

Fourth Recital and Schedule 2 - BASE DATE

- Base date: 10 days before date of tender.

Fourth Recital and clause 4.2 - CONSTRUCTION INDUSTRY SCHEME (CIS)

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

Fifth Recital - CDM REGULATIONS

- The project is notifiable.

Sixth Recital - FRAMEWORK AGREEMENT

- Framework agreement: Does not apply.
- Details:
 - Date: Not applicable.
 - Title: Not applicable.
 - Parties: Not applicable.

Seventh Recital and Schedule 3 - SUPPLEMENTAL PROVISIONS

- Collaborative working: Supplemental Provision 1 applies.
- Health and safety: Supplemental Provision 2 applies.
- Cost savings and value improvements: Supplemental Provision 3 applies.
- Sustainable development and environmental considerations: Supplemental Provision 4 applies.
- Performance indicators and monitoring: Supplemental Provision 5 does not apply.
- Notification and negotiation of disputes: Supplemental Provision 6 applies. Where Supplemental Provision 6 applies, the respective nominees of the parties are:
 - Employer's nominee: Vivienne Berry.
 - Contractor's nominee: _____.Or such replacement as each party may notify to the other from time to time.

Article 7 - ARBITRATION

- Article 7 and Schedule 1 apply.

Clause 2.2 - COMMENCEMENT AND COMPLETION

- Works commencement date: provisionally 4 June 2018.
- Date for Completion: provisionally 24 August 2018.

Clause 2.8 - LIQUIDATED DAMAGES

- At the rate of £383.00 per calendar day.

Clause 2.10 - RECTIFICATION PERIOD

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

Clause 4.3 - INTERIM PAYMENTS

- Interim Valuation Dates:
 - The first Interim Valuation Date is: tba.
 - Thereafter at intervals of: 4 weeks.
- Payments due prior to practical completion:
 - Percentage of total value of the work etc.: 95%.
- Payments becoming due on or after practical completion:
 - Percentage of the total amount to be paid: 97½ %.

Clause 4.3 and 4.8 - FLUCTUATIONS PROVISION

- The following fluctuations provision applies: No fluctuations provision applies.
- Where Schedule 2 applies, the percentage addition (paragraph 13) is not applicable.

Clause 4.8.1 - SUPPLY OF DOCUMENTATION FOR COMPUTATION OF AMOUNT TO BE FINALLY CERTIFIED

- Period: Three months from the date of practical completion.

Clause 5.3 - CONTRACTOR'S PUBLIC LIABILITY INSURANCE - INJURY TO PERSONS OR PROPERTY

- The required level of cover for any one occurrence or series of occurrences arising out of one event:
 - Not less than: £10,000,000.

Clauses 5.4A, 5.4B and 5.4C - INSURANCE OF THE WORKS, ETC. - ALTERNATIVE PROVISIONS

- Clause 5.4B applies.
- Where clause 5.4A or 5.4B applies, percentage to cover professional fees: 15 per cent.
- Where clause 5.4C applies, insurance arrangements - details of the required policy or policies: not applicable.

Clause 7.2 - ADJUDICATION

- The Adjudicator is: President or vice President of the Royal Institute of British Architects.
- Nominating body: Royal Institute of British Architects.

Schedule 1 paragraph 2.1 - ARBITRATION

- Appointor of Arbitrator (and of any replacement): President or a Vice president of the: Royal Institute of British Architects.

THE CONDITIONS

SECTION 1: DEFINITIONS AND INTERPRETATION

1.4 - RECKONING PERIODS OF DAYS

- Amendments: None.

1.8 - APPLICABLE LAW

- Amendments: None.

SECTION 2: CARRYING OUT THE WORKS

SECTION 3: CONTROL OF THE WORKS

SECTION 4: PAYMENT

SECTION 5: INJURY, DAMAGE AND INSURANCE

SECTION 6: TERMINATION

SECTION 7: SETTLEMENT OF DISPUTES

EXECUTION

- The Contract: Will be executed as a deed.

CONTRACT GUARANTEE BOND

- Contract Guarantee Bond: not applicable.

A30 TENDERING/ SUBLETTING/ SUPPLY

MAIN CONTRACT TENDERING

- 110 SCOPE
- General: These conditions are supplementary to those stated in the Invitation to Tender and on the form of tender.
- 145 TENDERING PROCEDURE
- General: In accordance with NBS Guide to Tendering for Construction Projects.
 - Errors: Alternative 1 is to apply.
- 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
- Acceptance: No guarantee is offered that any tender will be recommended for acceptance or be accepted, or that reasons for non acceptance will be given.
 - Costs: No liability is accepted for any cost incurred in the preparation of any tender.
- 190 PERIOD OF VALIDITY
- Period: After submission or lodgement, keep tender open for consideration (unless previously withdrawn) for not less than 90 days.
 - Date for possession/ commencement: See section A20.

PRICING/ SUBMISSION OF DOCUMENTS

- 210 PRELIMINARIES IN THE SPECIFICATION
- The Preliminaries/ General conditions sections (A10-A56 inclusive) must not be relied on as complying with SMM7/ NRM2.
- 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: Within one week of request.
- 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.
- 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.

550 HEALTH AND SAFETY INFORMATION

- Content: Describe the organisation and resources to safeguard the health and safety of operatives, including those of subcontractors, and of any person whom the Works may affect.
- Include:
 - A copy of the contractor's health and safety policy document, including risk assessment procedures.
 - Accident and sickness records for the past five years.
 - Records of previous Health and Safety Executive enforcement action.
 - Records of training and training policy.
 - The number and type of staff responsible for health and safety on this project with details of their qualifications and duties.
- Submit: Within one week of request.

570 OUTLINE CONSTRUCTION PHASE HEALTH AND SAFETY PLAN

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

590 SITE WASTE MANAGEMENT PLAN

- Person responsible for developing the Plan: The Contractor.
- Content: Include details of:
 - Principal Contractor for the purposes of the plan
 - Location of the site.
 - Description of the project.
 - Estimated project cost.
 - Types and quantities of waste that will be generated.
 - Resource management options for these wastes including proposals for minimization/ reuse/ recycling.
 - The use of appropriate and licensed waste management contractors.
 - Record keeping procedures.
 - Waste auditing protocols.
- Additional requirements: None.
- Submit with tender.

599 FREEDOM OF INFORMATION

- Records: Retain, make available for inspection and supply on request information reasonably required to allow response to requests made under the provisions of the Freedom of Information Act.
- Determination: Submit requests received. Do not supply information to anyone other than the project participants without express written permission.
- Confidentiality: Maintain at all times.

A31 PROVISION, CONTENT AND USE OF DOCUMENTS

DEFINITIONS AND INTERPRETATIONS

- 110 **DEFINITIONS**
- Meaning: Terms, derived terms and synonyms used in the preliminaries/ general conditions and specification are as stated therein or in the appropriate British Standard or British Standard glossary.
- 120 **COMMUNICATION**
- Definition: Includes advise, inform, submit, give notice, instruct, agree, confirm, seek or obtain information, consent or instructions, or make arrangements.
 - Format: In writing to the person named in clause A10/140 unless specified otherwise.
 - Response: Do not proceed until response has been received.
- 130 **PRODUCTS**
- Definition: Materials, both manufactured and naturally occurring, and goods, including components, equipment and accessories, intended for the permanent incorporation in the Works.
 - Includes: Goods, plant, materials, site materials and things for incorporation into the Works.
- 135 **SITE EQUIPMENT**
- Definition: All appliances or things of whatsoever nature required in or about the construction for completion of the Works but not materials or other things intended to form or forming part of the Permanent Works.
 - Includes: Construction appliances, vehicles, consumables, tools, temporary works, scaffolding, cabins and other site facilities.
- 140 **DRAWINGS**
- Definitions: To BSRIA BG 6 A design framework for building services. Design activities and drawing definitions.
 - CAD data: In accordance with BS 1192.
- 145 **CONTRACTOR'S CHOICE**
- Meaning: Selection delegated to the Contractor, but liability to remain with the specifier.
- 155 **SUBMIT PROPOSALS**
- Meaning: Submit information in response to specified requirements.

160 TERMS USED IN SPECIFICATION

- Remove: Disconnect, dismantle as necessary and take out the designated products or work and associated accessories, fixings, supports, linings and bedding materials. Dispose of unwanted materials. Excludes taking out and disposing of associated pipework, wiring, ductwork or other services.
- Fix: Receive, unload, handle, store, protect, place and fasten in position and disposal of waste and surplus packaging including all labour, materials and site equipment for that purpose.
- Supply and fix: As above, but including supply of products to be fixed. All products to be supplied and fixed unless stated otherwise.
- Keep for reuse: Do not damage designated products or work. Clean off bedding and jointing materials. Stack neatly, adequately protect and store until required by the Employer/ Purchaser or for use in the Works as instructed.
- Make good: Execute local remedial work to designated work. Make secure, sound and neat. Excludes redecoration and/ or replacement.
- Replace: Supply and fix new products matching those removed. Execute work to match original new state of that removed.
- Repair: Execute remedial work to designated products. Make secure, sound and neat. Excludes redecoration and/ or replacement.
- Refix: Fix removed products.
- Ease: Adjust moving parts of designated products or work to achieve free movement and good fit in open and closed positions.
- Match existing: Provide products and work of the same appearance and features as the original, excluding ageing and weathering. Make joints between existing and new work as inconspicuous as possible.
- System: Equipment, accessories, controls, supports and ancillary items, including installation, necessary for that section of the work to function.

170 MANUFACTURER AND PRODUCT REFERENCE

- Definition: When used in this combination:
 - Manufacturer: the 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 referred to specification section dealing with general matters, ancillary products and execution also apply.
- Discrepancy or ambiguity: Before proceeding, obtain clarification or instructions.

220 REFERENCED DOCUMENTS

- Conflicts: Specification prevails over referenced documents.

230 EQUIVALENT PRODUCTS

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

240 SUBSTITUTION OF STANDARDS

- Specification to British Standard or European Standard: Substitution may be proposed complying with a grade or category within a national standard of another Member State of the European Community or an international standard recognised in the UK.
- Before ordering: Submit notification of all such substitutions.
- Documentary evidence: Submit for verification when requested as detailed in clause A31/200. Any submitted foreign language documents must be accompanied by certified translations into English.

250 CURRENCY OF DOCUMENTS AND INFORMATION

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

260 SIZES

- General dimensions: Products are specified by their co-ordinating sizes.
- Timber: Cross section dimensions shown on drawings are:
 - Target sizes as defined in BS EN 336 for structural softwood and hardwood sections.
 - Finished sizes for non-structural softwood or hardwood sawn and further processed sections.

DOCUMENTS PROVIDED ON BEHALF OF THE EMPLOYER

410 ADDITIONAL COPIES OF DRAWINGS/ DOCUMENTS

- Additional copies: Issued free of charge.

440 DIMENSIONS

- Scaled dimensions: Do not rely on.

450 MEASURED QUANTITIES

- Ordering products and constructing the Works: The accuracy and sufficiency of the measured quantities is not guaranteed.
- Precedence: The specification and drawings shall override the measured quantities.

460 THE SPECIFICATION

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

DOCUMENTS PROVIDED BY CONTRACTOR/ SUBCONTRACTORS/ SUPPLIERS

630 TECHNICAL LITERATURE

- Information: Keep on site for reference by all supervisory personnel:
 - Manufacturers' current literature relating to all products to be used in the Works.
 - Relevant British, EN or ISO Standards.

640 MAINTENANCE INSTRUCTIONS AND GUARANTEES

- Components and equipment: Obtain or retain copies, register with manufacturer and hand over on or before completion of the Works.
- Information location: In Building Manual.
- Emergency call out services: Provide telephone numbers for use after completion. Extent of cover: twenty four hours seven days a week.

A32 MANAGEMENT OF THE WORKS

GENERALLY

110 SUPERVISION

- General: Accept responsibility for coordination, supervision and administration of the Works, including subcontracts.
- Coordination: Arrange and monitor a programme with each subcontractor, supplier, local authority and statutory undertaker, and obtain and supply information as necessary for coordination of the work.

120 INSURANCE

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

130 INSURANCE CLAIMS

- Notice: If any event occurs which may give rise to any claim or proceeding in respect of loss or damage to the Works or injury or damage to persons or property arising out of the Works, immediately give notice to the Employer, the person named in clause A10/140 and the Insurers.
- Failure to notify: Indemnify the Employer against any loss, which may be caused by failure to give such notice.

140 CLIMATIC CONDITIONS

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

150 OWNERSHIP

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

PROGRAMME/ PROGRESS

210 PROGRAMME

- Master programme: Immediately when requested and before starting work on site submit in an approved form a master programme for the Works, which must include details of:
 - Planning and mobilisation by the Contractor
 - Subcontractor's work.
 - Running in, adjustment, commissioning and testing of all engineering services and installations.
 - Work resulting from instructions issued in regard to the expenditure of provisional sums.
 - Work by others concurrent with the Contract.
- Submit two copies.

245 START OF WORK ON SITE

- Notice: Before the proposed date for start of work on site give minimum notice of one week.

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: time, cost and quality.
 - 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: At site.
- Accommodation: Ensure availability at the time of such meetings.
- Attendees: Attend meetings and inform subcontractors and suppliers when their presence is required.
- Chairperson (who will also take and distribute minutes): Contract Administrator.

280 PHOTOGRAPHS

- Number of locations: 12.
- Frequency of intervals: Monthly.
- Image format: digital.
- Number of images from each location: two.
- Other requirements: None

290 NOTICE OF COMPLETION

- Requirement: Give notice of the anticipated dates of completion of the whole or parts of the Works.
- Associated works: Ensure necessary access, services and facilities are complete.
- Period of notice (minimum): Two weeks.

310 EXTENSIONS OF TIME

- Notice: When a notice of the cause of any delay or likely delay in the progress of the works is given under the contract, written notice must also be given of all other causes which apply concurrently.
- Details: As soon as possible submit:
 - Relevant particulars of the expected effects, if appropriate, related to the concurrent causes.
 - An estimate of the extent, if any, of the expected delay in the completion of the Works beyond the date for completion.
 - All other relevant information required.

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.

430 PROPOSED INSTRUCTIONS

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

440 MEASUREMENT

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

450 DAYWORK VOUCHERS

- Before commencing work: Give reasonable notice to person countersigning daywork vouchers.
- Content: Before delivery each voucher must be:
 - Referenced to the instruction under which the work is authorised.
 - Signed by the Contractor's person in charge as evidence that the operatives' names, the time daily spent by each and the equipment and products employed are correct.
- Submit: By the end of the week in which the work has been executed.

470 PRODUCTS NOT INCORPORATED INTO THE WORKS

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

A33 QUALITY STANDARDS/ CONTROL

STANDARDS OF PRODUCTS AND EXECUTIONS

110 INCOMPLETE DOCUMENTATION

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

120 WORKMANSHIP SKILLS

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

130 QUALITY OF PRODUCTS

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

135 QUALITY OF EXECUTION

- Generally: Fix, apply, install or lay products securely, accurately, plumb, neatly and in alignment.
- Colour batching: Do not use different colour batches where they can be seen together.
- Dimensions: Check on-site dimensions.
- Finished work: Without defects, e.g. not damaged, disfigured, dirty, faulty, or out of tolerance.
- Location and fixing of products: Adjust joints open to view so they are even and regular.

140 COMPLIANCE

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

150 INSPECTIONS

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

160 RELATED WORK

- Details: Provide all trades with necessary details of related types of work. Before starting each new type or section of work ensure previous related work is:
 - Appropriately complete.
 - In accordance with the project documents.
 - To a suitable standard.
 - 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.
- Agrément certified products: Comply with limitations, recommendations and requirements of relevant valid certificates.

180 WATER FOR THE WORKS

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

SAMPLES/ APPROVALS

210 SAMPLES

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

220 APPROVAL OF PRODUCTS

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

230 APPROVAL OF EXECUTION

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

ACCURACY/ SETTING OUT GENERALLY

320 SETTING OUT

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

330 APPEARANCE AND FIT

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

340 CRITICAL DIMENSIONS

- Critical dimensions: Set out and construct the Works to ensure compliance with the tolerances stated.
- Location: Detailed on drawings 69011/04; 69011/05 & 69011/06.

360 RECORD DRAWINGS

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

SERVICES GENERALLY

410 SERVICES REGULATIONS

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

420 WATER REGULATIONS/ BYELAWS NOTIFICATION

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

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

- 435 ELECTRICAL INSTALLATION CERTIFICATE
- Submit: When relevant electrical work is completed.
 - Original certificate: To be lodged in the Building Manual.

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

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

SUPERVISION/ INSPECTION/ DEFECTIVE WORK

- 525 ACCESS
- Extent: Provide at all reasonable times access to the Works and to other places of the Contractor or subcontractors where work is being prepared for the Contract.
 - Designate: Contract Administrator.

- 530 OVERTIME WORKING
- Notice: Prior to overtime being worked, submit details of times, types and locations of work to be done.
 - Minimum period of notice: One week.
 - Concealed work: If executed during overtime for which notice has not been given, it may be required to be opened up for inspection and reinstated at the Contractor's expense.

- 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 DEFECTIVE PRODUCTS/ EXECUTIONS

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

WORK AT OR AFTER COMPLETION

710 WORK BEFORE COMPLETION

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

720 SECURITY AT COMPLETION

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

730 MAKING GOOD DEFECTS

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

A34 SECURITY/ SAFETY/ PROTECTION

SECURITY, HEALTH AND SAFETY

120 EXECUTION HAZARDS

- Common hazards: Not listed. Control by good management and site practice.
- Significant hazards: The design of the project includes the following:
 - Hazard: Refer to Pre Construction Information.
 - Precautions assumed: Refer to Pre Construction Information.
 - Specification reference: N/A.
 - Drawing reference: N/A.

140 CONSTRUCTION PHASE HEALTH AND SAFETY PLAN

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

150 SECURITY

- Protection: Safeguard the site, the Works, products, materials, and any existing buildings affected by the Works from damage and theft.
- Access: Take all reasonable precautions to prevent unauthorized access to the site, the Works and adjoining property.
- Special requirements: the contractor is to provide block and mesh fencing to secure the site during the works to prevent public access.

160 STABILITY

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

170 OCCUPIED PREMISES

- Extent: Existing buildings will be occupied and/ or used during the Contract as follows: some fishermen's sheds may be continue to be in occasional use.
- Works: Carry out without undue inconvenience and nuisance and without danger to occupants and users.
- Overtime: If compliance with this clause requires certain operations to be carried out during overtime, and such overtime is not required for any other reason, the extra cost will be allowed, provided that such overtime is authorized in advance.

PROTECT AGAINST THE FOLLOWING

330 NOISE AND VIBRATION

- Standard: Comply with the recommendations of BS 5228-1, in particular clause 7.3, to minimize noise levels during the execution of the Works.
- Noise levels from the Works: Maximum level: exposure from the works shall not exceed a daily or weekly personal noise exposure of 80 dB(A) when measured from the site boundary.
- Equipment: Fit compressors, percussion tools and vehicles with effective silencers of a type recommended by manufacturers of the compressors, tools or vehicles.
- Restrictions: Do not use:
 - Percussion tools and other noisy appliances without consent during the hours of operation on site.
 - Radios or other audio equipment or permit employees to use in ways or at times that may cause nuisance.

340 POLLUTION

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

350 PESTICIDES

- Use: Not permitted.

360 NUISANCE

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

370 ASBESTOS CONTAINING MATERIALS

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

371 DANGEROUS OR HAZARDOUS SUBSTANCES

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

375 ANTIQUITIES

- Duty: Report immediately any fossils, antiquities and other objects of interest or value discovered during execution of the Works.
- Preservation: Keep objects in the exact position and condition in which they were found.
- Special requirements: none.

380 FIRE PREVENTION

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

- 390 SMOKING ON SITE
- Smoking on site: Not permitted.
- 400 BURNING ON SITE
- Burning on site: Not permitted.
- 420 INFECTED TIMBER/ CONTAMINATED MATERIALS
- Removal: Where instructed to remove material affected by fungal/ insect attack from the building, minimize the risk of infecting other parts of the building.
 - Testing: carry out and keep records of appropriate tests to demonstrate that hazards presented by concentrations of airborne particles, toxins and other micro organisms are within acceptable levels.
- 430 WASTE
- Includes: Rubbish, debris, spoil, surplus material, containers and packaging.
 - General: Minimize production. Prevent accumulations. Keep the site and Works clean and tidy.
 - Handling: Collect and store in suitable containers. Remove frequently and dispose off site in a safe and competent manner:
 - Non-hazardous material: In a manner approved by the Waste Regulation Authority.
 - Hazardous material: As directed by the Waste Regulation Authority and in accordance with relevant regulations.
 - Recyclable material: Sort and dispose at a Materials Recycling Facility approved by the Waste Regulation Authority.
 - Voids and cavities in the construction: Remove rubbish, dirt and residues before closing in.
 - Waste transfer documentation: Retain on site.
- 470 INVASIVE SPECIES
- General: Prevent the spread of species (e.g. plants or animals) that may adversely affect the site or Works economically, environmentally or ecologically.
 - Special precautions: none.
 - Duty: Report immediately any suspected invasive species discovered during execution of the Works.
 - Do not disturb.
 - Agree methods for safe eradication or removal.

PROTECT THE FOLLOWING

510 EXISTING SERVICES

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

520 ROADS AND FOOTPATHS

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

560 EXISTING FEATURES

- Protection: Prevent damage to existing buildings, fences, gates, walls, roads, paved areas and other site features, which are to remain in position during execution of the Works.
- Special requirements: none.

570 EXISTING WORK

- Protection: Prevent damage to existing work, structures or other property during the course of the work.
- Removal: Minimum amount necessary.
- Replacement work: To match existing.

610 ESPECIALLY VALUABLE/ VULNERABLE ITEMS

- Protection: Ensure provision and maintenance of special protective measures to prevent damage to the following:
 - World War 2 Pillbox gun turret.
- Method statement: Submit within one week of request describing special protection to be provided.

630 EXISTING STRUCTURES

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

A35 SPECIFIC LIMITATIONS ON METHOD/ SEQUENCE/ TIMING

130 METHOD/ SEQUENCE OF WORK

- Specific Limitations: Include the following in the programme:
- none.

160 USE OR DISPOSAL OF MATERIALS

- Specific limitations: comply with all legal requirements.

170 WORKING HOURS

- Specific limitations: no weekend or evening working without permission.

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

230 TEMPORARY ACCOMMODATION

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

TEMPORARY WORKS

340 NAME BOARDS/ ADVERTISEMENTS

- General: Obtain approval, including statutory consents, and provide a temporary name board displaying:
 - Title of project: Swanage Fishermen's Slipway Extension.
 - Name of Employer: Swanage Town Council.
 - Names of Consultants: Dorset County Council and Smith Foster .
 - Names of Contractor and Subcontractors: To be confirmed.
 - Special requirements: A brief description of the works being carried out.

SERVICES AND FACILITIES

420 LIGHTING AND POWER

- Supply: Electricity from the Employer's mains may be used for the Works as follows:
 - Metering: to be agreed.
 - Point of supply: fisherman sheds distribution board.
 - Available capacity: to be advised.
 - Frequency: 50 Hz.
 - Phase: unknown.
 - Current: Alternating.
- Continuity: The Employer will not be responsible for the consequences of failure or restriction in supply.

430 WATER

- Supply: The Employer's mains may be used for the Works as follows:
 - Metering: to be agreed.
 - Source: fishermen's sheds.
 - Location of supply point: to be advised.
 - Conditions/ Restrictions: to be agreed.
- Continuity: The Employer will not be responsible for the consequences of failure or restriction in supply.

440 TELEPHONES

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

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.

A37 OPERATION/ MAINTENANCE OF THE FINISHED WORKS

GENERALLY

- 110 THE BUILDING MANUAL
- Responsibility: The Contractor
 - Content: Obtain and provide comprehensive information for owners and users of the completed Works. Include an overview of the main design principles and describe key components and systems within the finished Works, so affording a complete understanding of the Works, including all buildings and their systems to enable efficient and safe operation and maintenance.
 - Specific requirements: none.
 - Format: paper and digital CD or stick.
 - Number of copies: one of each.
 - Delivery to: Vivienne Berry. by (date) TBA.
- 115 THE HEALTH AND SAFETY FILE
- Responsibility: the contractor.
 - Content: Obtain and provide the following information: as built drawings.
 - Format: paper and digital CD or stick
 - Delivery to: Vivienne Berry By (date): one week prior to practical completion.
- 155 CONTENT OF THE BUILDING MANUAL
- General: Details of the property, the parties, fire safety strategy, operational requirements and constraints of a general nature.
 - Building fabric: Design criteria, maintenance details, product details, and environmental and trafficking conditions.
 - 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.
- 160 PRESENTATION OF BUILDING MANUAL
- Format: A4 size, plastics covered, loose leaf, four ring binders with hard covers, each indexed, divided and appropriately cover titled.
 - Selected drawings needed to illustrate or locate items mentioned in the Manual: Where larger than A4, to be folded and accommodated in the binders so that they may be unfolded without being detached from the rings.
 - As-built drawings: The main sets may form annexes to the Manual.

A40 CONTRACTOR'S GENERAL COST ITEMS: MANAGEMENT AND STAFF

- 110 MANAGEMENT AND STAFF
 - Cost significant items: Site supervision.

A41 CONTRACTOR'S GENERAL COST ITEMS: SITE ACCOMMODATION

110 SITE ACCOMMODATION

- Details: Site accommodation required or made/ not made available by the Employer: See section A36.
- Cost significant items: Provision of storage and welfare facilities.

A42 CONTRACTOR'S GENERAL COST ITEMS: SERVICES AND FACILITIES

110 SERVICES AND FACILITIES

- Details: Services or facilities required or made/ not made available by the Employer: See section A36.
- Cost significant items: Contractors choice.

A43 CONTRACTOR'S GENERAL COST ITEMS: MECHANICAL PLANT

110 MECHANICAL PLANT

- Cost significant items: Contractor's choice.

A44 CONTRACTOR'S GENERAL COST ITEMS: TEMPORARY WORKS

110 TEMPORARY WORKS

- Details: Temporary works required or made/ not made available by the Employer: See section A36.
- Cost significant items: cofferdam, shuttering, site security temporary fencing, if not included elsewhere.

A54 PROVISIONAL WORK/ ITEMS

110A PROVISIONAL SUMS FOR DEFINED WORK

- All provisional sums are highlighted in the schedule of works.

590 CONTINGENCIES

- Provisional sum: Include: £30,000.

A55 DAYWORKS

150A DAYWORK CHARGES

- General: Where an instruction is issued requiring a variation which is not of a similar character or executed under similar conditions to work included in the Contract and where work cannot properly be measured and valued, the Contractor shall be allowed payment on a daywork basis. These are to be recorded on the Tender Summary Sheet.

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

SECTION

2 Preambles

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C20 Demolition

To be read with Preliminaries/ General conditions

GENERAL REQUIREMENTS

130A GROUNDWORKS

- Old foundations, slabs and the like: Break out existing stone paved ramp and concrete platform to front of sheds to enable construction of new slipway. Contaminated material: Remove, and carry out remediation required by the Enforcing Authority.

140 BENCH MARKS

- Unrecorded bench marks and other survey information: Give notice when found. Do not remove marks or destroy the fabric on which they are found.

150 FEATURES TO BE RETAINED

- General: Keep in place and protect the following: existing stone slipway, World War 2 pillbox, stone pavement to front of sheds.

SERVICES AFFECTED BY DECONSTRUCTION/ DEMOLITION

210 SERVICES REGULATIONS

- Work carried out to or affecting new and/ or existing services: Carry out in accordance with the byelaws and/ or regulations of the relevant Statutory Authority.

220 LOCATION OF SERVICES

- Services affected by deconstruction/ demolition work: Locate and mark positions.
- Mains services marking: Arrange with the appropriate authorities for services to be located and marked.
 - Marking standard: In accordance with National Joint Utilities Group 'Guidelines on the positioning and colour coding of underground utilities' apparatus'.

250 LIVE FOUL AND SURFACE WATER DRAINS

- Drains and associated manholes, inspection chambers, gullies, vent pipes and fittings:
 - Protect; maintain normal flow during deconstruction/ demolition.
 - Make good any damage arising from deconstruction/ demolition work.
 - Leave clean and in working order at completion of deconstruction/ demolition work.
- Other requirements: none.

270 SERVICES TO BE RETAINED

- Damage to services: Give notice, and notify relevant service authorities and/ or owner/ occupier regarding damage arising from deconstruction/ demolition.
- Repairs to services: Complete as directed, and to the satisfaction of the service authority or owner.

DECONSTRUCTION/ DEMOLITION WORK

310 WORKMANSHIP

- Standard: Demolish structures in accordance with BS 6187.
- Operatives:
 - Appropriately skilled and experienced for the type of work.
 - Holding, or in training to obtain, relevant CITB Certificates of Competence.
- Site staff responsible for supervision and control of work: Experienced in the assessment of risks involved and methods of deconstruction/ demolition to be used.

330 DUST CONTROL

- General: Reduce airborne dust by periodically spraying deconstruction/ demolition works with an appropriate wetting agent. Keep public roadways and footpaths clear of mud and debris.
- Lead dust: Submit method statement for control, containment and clean-up regimes.

340 HEALTH HAZARDS

- Precautions: Protect site operatives and general public from hazards associated with vibration, dangerous fumes and dust arising during the course of the Works.

350 ADJOINING PROPERTY

- Temporary support and protection: Provide. Maintain and alter, as necessary, as work proceeds. Do not leave unnecessary or unstable projections.
- Defects: Report immediately on discovery.
- Damage: Minimize. Repair promptly to ensure safety, stability, weather protection and security.
- Support to foundations: Do not disturb.

360 STRUCTURES TO BE RETAINED

- Extent: Refer to drawing no. P101.
- Parts which are to be kept in place: Protect.
- Interface between retained structures and deconstruction/ demolition: Cut away and strip out with care to minimize making good.

370 PARTLY DEMOLISHED STRUCTURES

- General: Leave in a stable condition, with adequate temporary support at each stage to prevent risk of uncontrolled collapse. Make secure outside working hours.
- Temporary works: Prevent overloading due to debris.
- Access: Prevent access by unauthorized persons.

380 DANGEROUS OPENINGS

- General: Provide guarding at all times, including outside of working hours. Illuminate during hours of darkness.
- Access: Prevent access by unauthorized persons.

391 ASBESTOS-CONTAINING MATERIALS – UNKNOWN OCCURRENCES

- Discovery: Give notice immediately of suspected asbestos-containing materials when discovered during deconstruction/ demolition work. Avoid disturbing such materials.
- Removal: Submit statutory risk assessments and details of proposed methods for safe removal.

410 UNFORESEEN HAZARDS

- Discovery: Give notice immediately when hazards such as unrecorded voids, tanks, chemicals, are discovered during deconstruction/ demolition.
- Removal: Submit details of proposed methods for filling, removal, etc.

450 SITE CONDITION AT COMPLETION

- Debris: Clear away and leave the site in a tidy condition.
- Other requirements: none.

MATERIALS ARISING

510 CONTRACTOR'S PROPERTY

- Components and materials arising from the deconstruction/ demolition work: Property of the Contractor except where otherwise provided.
- Action: Remove from site as work proceeds where not to be reused or recycled for site use.

520 RECYCLED MATERIALS

- Materials arising from deconstruction/ demolition work: Can be recycled or reused elsewhere in the project, subject to compliance with the appropriate specification and in accordance with any site waste management plan.
- Evidence of compliance: Submit full details and supporting documentation.
 - Verification: Allow adequate time in programme for verification of compliance.

C41 Repairing/ Renovating/ Conserving masonry

To be read with Preliminaries/ General conditions

GENERALLY/ PREPARATION

110 SCOPE OF WORK

- Schedule: repointing of stone walling to back wall of sheds at the bottom of the boat park.
- Records of masonry to be repaired: Before starting work, use measurements and photographs as appropriate to record bonding patterns, joint widths, special features, etc.
- Identification of masonry units to be removed, replaced or repaired: Mark clearly, but not indelibly, on face of masonry units or parts of units to be cut out and replaced. Transcribe markings to drawings/ photographs.

120 SITE INSPECTION

- Purpose: To confirm type and extent of repair/ renovation/ conservation work shown on drawings and described in survey reports and schedules of work.
- Parties involved: Contract administrator and Contractor's representative.
- Timing: to be agreed.
- Instructions issued during inspection: To be confirmed by contract administrator.

WORKMANSHIP GENERALLY

165 STRUCTURAL STABILITY

- General: Maintain stability of masonry. Report defects, including signs of movement that are exposed or become apparent during the removal of masonry units.

170 DISTURBANCE TO RETAINED MASONRY

- Retained masonry in the vicinity of repair works: Disturb as little as possible.
- Existing retained masonry: Do not cut or adjust to accommodate new or reused units.
- Retained loose masonry units and those vulnerable to movement during repair works: Prop or wedge so as to be firmly and correctly positioned.

180 WORKMANSHIP

- Skill and experience of site operatives: Appropriate for types of work on which they are employed.
 - Documentary evidence: Submit on request.

185 ADVERSE WEATHER

- General: Do not use frozen materials or lay masonry units on frozen surfaces.
- Air temperature: Do not bed masonry units or repoint:
 - In cement gauged mortars when ambient air temperature is at or below 3°C and falling or unless it is at least 1°C and rising, unless mortar has a minimum temperature of 4°C when laid and the masonry is adequately protected.
 - In hydraulic lime:sand mortars when ambient air temperature is at or below 5°C and falling or unless it is at least 3°C and rising.
 - In nonhydraulic lime:sand mortars in cold weather, unless approval is given.
- Temperature of the work: Maintain above freezing until mortar has fully set.
- Rain, snow and dew: Protect masonry by covering during precipitation, and at all times when work is not proceeding.
- Hot conditions and drying winds: Prevent masonry from drying out rapidly.
- New mortar damaged by frost: Rake out and replace.

MATERIAL/ PRODUCTION/ ACCESSORIES

245 REPLACEMENT STONE UNITS

- Sizes and profiles: To match existing masonry. Maintain existing joint widths.
- Sinkings for fixings, joggles and lifting devices: Accurately aligned and positioned in relation to existing masonry.
- Marking: Mark each block/ dressing clearly and indelibly on a concealed face to indicate the natural bed and position in the finished work.

250 STONE ORIENTATION

- Orientation of natural bed:
 - In plain walling: Horizontal.
 - In projecting stones and copings: Vertical and perpendicular to wall face.
 - In arches: Perpendicular to line of thrust.

DISMANTLING/ REBUILDING

310 DISMANTLING MASONRY FOR REUSE

- Masonry units to be reused: Remove carefully and in one piece.
 - Treatment: Clean off old mortar, organic growths and dirt, and leave units in a suitable condition for rebuilding.
 - Identification: Mark each unit clearly and indelibly on a concealed face, indicating its original position in the construction. Transcribe markings to drawings/ photographs.

MORTAR REPAIRS

510 PREPARATION FOR MORTAR REPAIRS

- Repair area: Scribe area of masonry to be removed using straight horizontal and vertical lines parallel to joints. Where repair area abuts joints, maintain existing joint widths and do not bridge joints.
- Decayed masonry: Cut back carefully to a minimum depth of 20 mm to a sound background. Where the depth of removal exceeds 50 mm, seek instructions.
- Precautions: Do not weaken masonry by removing excessive material. Do not damage adjacent masonry.
- Top and vertical reveals of repair area: Undercut.

540 APPLYING MORTAR

- Surfaces to receive mortar: Clean, and free from dust and debris. Dampen to control suction.
- Applying coats: Build up in layers to specified thickness. Apply mortar firmly, ensuring good adhesion with no voids. Form a mechanical key to undercoats by combing or scratching to produce evenly spaced lines.
Allow each layer to achieve an initial set before applying subsequent coats. Prevent each layer from drying out rapidly by covering immediately with plastics sheeting and/ or dampening intermittently with clean water.
- Finishing mortar coat: Form accurately to required planes/ profiles, and finish flush with adjacent masonry.
- Protection: Protect completed repairs from adverse weather until mortar has set.

POINTING/ REPOINTING

810 PREPARATION FOR REPOINTING

- Existing mortar: Working from top of wall downwards, remove mortar carefully, without damaging adjacent masonry or widening joints, to a minimum depth of 30 mm.
 - Loose or friable mortar: Seek instructions when mortar beyond specified recess depth is loose or friable and/ or if cavities are found.
- Raked joints: Remove dust and debris.

820 POINTING RUBBLE STONE WALL TO BACK OF SHEDS

- Preparation of joints: Carefully brush away loose mortar.
- Mortar: As section Z21.
 - Mix: cement/lime mortar with aggregate mix to match existing.
 - Sand source/ type: sample to be approved.
- Joints profile/ finish: to match adjacent finishes.
- Other requirements: none.

840 POINTING WITH TOOLS/ IRONS

- General: Press mortar well into joints using pointing tools/ irons that fit into the joints, so that they are fully filled.
- Face of masonry: Keep clear of mortar. Use suitable temporary adhesive tape on each side of joints where necessary. Finish joints neatly.

C52 Fungus/ beetle eradication

To be read with Preliminaries/ General conditions.

115 SURVEY AND REPORT

- Survey generally:
 - Purpose: To ascertain nature and extent of fungal/ beetle attack. To ascertain sources and extent of any dampness.
 - Timing: Before starting eradication work carry out survey and submit survey report.
- Survey report content:
 - Description of investigation methods.
 - Factors affecting execution of the work: Identify problematic site conditions and restrictions, including the presence of bats, barn owls, other protected species or breeding birds.
 - Laboratory results identifying attacking organisms. Plan and section drawings or annotated photographs, defining extent of attack.
 - Proposals for eradication treatments and procedures, including measures to halt damp penetration and promote drying out.
 - Measurements of wood moisture content, with identification of instances above 20%.
 - Identification of neighbouring buildings that may be involved in attack.
 - Associated work: Nature and extent of repair/ replacement work required to load bearing constructions and to the building fabric in general.
 - Other information: Any considered relevant.

120 ASSOCIATED WORK

- Work shown to be necessary by survey: Carry out as part of main contract works.

140 OPENING UP/ CUTTING OUT/ REMOVAL OF BUILDING FABRIC

- Extent: Submit proposals.
- Retained building fabric: Maintain stability and do not damage.

162 PREPARATION GENERALLY FOR PRESERVATIVE/ FUNGICIDE TREATMENTS TO TIMBERS/ MASONRY

- Furnishings/ components/ finishes within treated areas: Prevent staining and other adverse effects.
- Water supplies: Do not contaminate.
- Electrical equipment and supplies: Isolate circuits as required and prevent ingress of treatment fluids.
- Cleanliness: Remove loose material, dust and debris from surfaces to be treated.

220 WET ROT

- Decayed timber to be removed: Cut out until sound timber is reached.
 - Disposal of previously treated timber: At a tip approved by a waste regulation authority.
- Decayed timber to be retained: None.

230 BEETLE INFESTATION

- Infected timber: Cut, scrape and trim back to sound timber where heat treatment is not employed. Remove debris immediately and dispose of safely at a tip approved by a waste regulation authority. Prevent contamination of other parts of the building.

240 SALVAGED MATERIALS

- Sound, uninfected materials: Give notice before reusing/ recycling.

- 310 TIMBER PRESERVATIVES/ MASONRY FUNGICIDES GENERALLY
- Products: Registered by the Health and Safety Executive (HSE) and listed on the HSE website under non-agricultural pesticides.
 - Application: In accordance with statutory conditions of approval given on product labels and as manufacturers' recommendations.
- 318 TIMBER PRESERVATIVE TREATMENT GENERALLY
- Preservative type: Contractor's choice.
 - Tint: Not required.
 - Treatment method: To suit type, scale and location of fungal/ beetle attack.
- 390 GUARANTEE
- Type: insurance protection. Administered by an independent insurance protection company.
 - Guarantee period from completion of installation (minimum): 20 years.
 - Documentation: Provide certificates/ guarantees at completion of installation.

D20 Excavating and filling

To be read with Preliminaries/General conditions

GENERALLY/THE SITE

110 SITE INVESTIGATION

- Report: on borehole sampling and testing prepared for adjacent RNLI station is included in the tender documents.

150 EXISTING SERVICES, FEATURES AND STRUCTURES

- Services: See section A12 for locations.
- Site features to be retained: See section A12 for details.
- Structures: See section A34 for details of protection.

CLEARANCE/EXCAVATING

250 PERMISSIBLE DEVIATIONS FROM FORMATION LEVELS

- Beneath mass concrete foundations: ± 25 mm.
- Beneath ground bearing slabs and r.c. foundations: ± 15 mm.
- Embankments and cuttings: ± 50 mm.
- Ground abutting external walls: ± 50 mm, but such as to ensure that finished level is not less than 150 mm below dpc.

260 INSPECTING FORMATIONS

- Give notice: Make advance arrangements for inspection of formations for slipway and jetty.
 - Notice (minimum): 3 days.
- Preparation: Just before inspection remove the last 150 mm of excavation. Trim to required profiles and levels, and remove.
 - Loose material: Remove.
- Seal: Within 4 hours of inspection, seal formations with concrete.

265 INSPECTING FORMATIONS IN SAND AND GRAVEL

- Notice for inspection (minimum): 3 days.
- Preparation: Just before inspection remove the last 150 mm of excavation. Trim to required profiles and levels and mechanically compact formation.
- Seal: Within 4 hours of inspection, seal formations with lean mix concrete.

270 FOUNDATIONS GENERALLY

- Give notice if:
 - A natural bearing formation of undisturbed subsoil is not obtained at the depth shown on the drawings.
 - The formation contains soft or hard spots or highly variable material.

310 UNSTABLE GROUND

- Generally: Ensure that the excavation remains stable at all times.
- Give notice: Without delay if any newly excavated faces are too unstable to allow earthwork support to be inserted.
- Take action: If instability is likely to affect adjacent structures or roadways, take appropriate emergency action.

330 UNRECORDED FEATURES

- Give notice: If unrecorded foundations, beds, voids, basements, filling, tanks, pipes, cables, drains, manholes, watercourses, ditches, etc. not shown on the drawings are encountered.

360 EXCESS EXCAVATION

- Excavation taken wider than required:
 - Backfill: As clause 700.
- Excavation taken deeper than required:
 - Backfill: With well graded granular material or lean mix concrete.

DISPOSAL OF MATERIALS

450 WATER

- Generally: Keep all excavations free from water until:
 - Formations are covered.
 - Below ground constructions are completed.
 - Basement structures and retaining walls are able to resist leakage, water pressure and flotation.
- Drainage: Form surfaces of excavations and fill to provide adequate falls.
- Removal of water: Provide temporary drains, sumps and pumping as necessary. Do not pollute watercourses with silt laden water.

457 PUMPING

- General: Do not disturb excavated faces or stability of adjacent ground or structures.
- Pumped water: Discharge without flooding the site or adjoining property.
- Sumps: Construct clear of excavations. Fill on completion.
 - Locations: Contractor's choice.

FILLING

500 PROPOSED FILL MATERIALS

- Details: Submit full details of proposed fill materials to demonstrate compliance with specification, including:
 - Type and source of imported fill.
 - Proposals for processing and reuse of material excavated on site.
 - Test reports as required elsewhere.
- Timing: At least 21 days before starting filling.

510 HAZARDOUS, AGGRESSIVE OR UNSTABLE MATERIALS

- General: Do not use fill materials which would, either in themselves or in combination with other materials or ground water, give rise to a health hazard, damage to building structures or instability in the filling, including material that is:
 - Frozen or containing ice.
 - Organic.
 - Contaminated or noxious.
 - Susceptible to spontaneous combustion.
 - Likely to erode or decay and cause voids.
 - With excessive moisture content, slurry, mud or from marshes or bogs.
 - Clay of liquid limit exceeding 80 and/or plasticity index exceeding 55.
 - Unacceptable, class U2 as defined in the Highways Agency 'Specification for highway works', clause 601.

520 FROST SUSCEPTIBILITY

- General: Except as allowed below, fill must be non frost-susceptible as defined in Highways Agency 'Specification for highway works', clause 801.8.
- Test reports: If the following fill materials are proposed, submit a laboratory report confirming they are non frost-susceptible:
 - Fine grained soil with a plasticity index less than 20%.
 - Coarse grained soil or crushed granite with more than 10% retained on a 0.063 mm sieve.
 - Crushed chalk.
 - Crushed limestone fill with average saturation moisture content in excess of 3%.
 - Burnt colliery shale.
- Frost-susceptible fill: May only be used:
 - At depths below the finished ground surface greater than 500 mm.
 - Within the external walls of buildings below spaces that will be heated. Protect from frost during construction.
 - Where frost heave will not affect structural elements.

530 PLACING FILL

- Surfaces of excavations and areas to be filled: Free from loose soil, topsoil, organic material, rubbish and standing water.
- Freezing conditions: Do not place fill on frozen surfaces. Remove material affected by frost. Replace and recompact if not damaged after thawing.
- Adjacent structures, membranes and buried services:
 - Do not overload, destabilise or damage.
 - Submit proposals for temporary support necessary to ensure stability during filling.
 - Allow 14 days (minimum) before backfilling against in situ concrete structures.
- Layers: Place so that only one type of material occurs in each layer.
- Earthmoving equipment: Vary route to avoid rutting.

550 GEOTEXTILE SHEET

- Manufacturer: Submit proposals.
 - Product reference: Submit proposals.
- Type: Contractor's choice.
- Polymer type: Contractor's choice.
- Recycled content: Submit proposals.
- Jointing: 300 mm overlap.
- Preparation of subgrade: Before laying sheet, remove humps and sharp projections. Fill hollows.
- Protect from:
 - Exposure to light.
 - Contaminants.
 - Materials listed as potentially deleterious by geotextile manufacturer.
 - Wind uplift.

617 HIGHWAYS AGENCY TYPE 1 UNBOUND MIXTURE

- Fill: To Highways Agency 'Specification for highway works', clauses 801 and 803:
 - Crushed rock (other than argillaceous rock).
 - Crushed concrete.
 - Recycled aggregates.
 - Crushed non-expansive slag to clause 801.2.
 - Well-burned non-plastic colliery shale.
- Amendments to requirements in Highways Agency 'Specification for highway works': None.
- Filling: To Highways Agency 'Specification for highway works', clause 802.

700 BACKFILLING AROUND FOUNDATIONS

- Under oversite concrete and pavings: Hardcore.
- Under grassed or soil areas: Material excavated from the trench, laid and compacted in 300 mm maximum layers.

730 BLINDING

- Surfaces to receive sheet overlays or concrete:
Blind with:
 - Concrete where shown on drawings; or
 - Sand, fine gravel, or other approved fine material applied to fill interstices. Moisten as necessary before final rolling to provide a flat, closed, smooth surface.
- Sand for blinding: To BS EN 12620, grade 0/4 or 0/2 (MP).
- Permissible deviations on surface level: +0 -25 mm.

850 COMPACTED GENERAL FILLING/ EARTHWORKS

- Specification: Highways Agency 'Specification for highway works', Earthworks section, clauses series 600.
 - Appendices (see clauses 900-970 in this section): 6/1.
 - Amendments to requirements in Highways Agency 'Specification for highway works': None.
- Definition: References to the 'Overseeing Organisation' are deemed to be to the issuer of this specification.
- Fill material:
 - Permitted classes/ source: N.
 - Assessment of acceptability: Tests as table 6/1 carried out by Contractor.
 - Preliminary tests: Not required.
- Compaction: As table 6/4.

E05 In situ concrete construction generally

To be read with Preliminaries/General conditions.

290 ACCURACY OF CONSTRUCTION

- Setting out: To BS 5964-1.
- Geometrical tolerances: To BS 5606.
 - Conflicts: Notwithstanding tolerances specified elsewhere, do not exceed requirements for compliance with the designated code of practice.
 - Substitution of alternative requirements: None.

E10 Mixing/casting/curing in situ concrete

To be read with Preliminaries/General conditions.

CONCRETE MIXES

- 101 SPECIFICATION
- Concrete generally: To BS 8500-2.
 - Exchange of information: Provide concrete producer with information required by BS 8500-1, clauses 4 and 5.
- 105 DESIGNATED CONCRETE SLIPWAY AND JETTY
- Designation: RC40/50.
 - Fibres: Not required.
 - Aggregates:
 - Size (maximum): 20 mm.
 - Coarse recycled aggregates: Contractor's choice.
 - Additional aggregate requirements: None.
 - Special requirements for cement/ combinations: CEM IIB-V or IIIA.
 - Consistence class: S3.
 - Chloride class: Cl 0.40.
 - Admixtures: Sika Feeoguard 901 corrosion inhibitor, 12 l/m³.
 - Additional mix requirements: None.

MATERIALS, BATCHING AND MIXING

- 215 READY-MIXED CONCRETE
- Production plant: Currently certified by a body accredited by UKAS to BS EN ISO/IEC 17065 for product conformity certification of ready-mixed concrete.
 - Source of ready-mixed concrete: Obtain from one source if possible. Otherwise, submit proposals.
 - Name and address of depot: Submit before any concrete is delivered.
 - Delivery notes: Retain for inspection.
 - Declarations of nonconformity from concrete producer: Notify immediately.
- 225 CHANGES TO SPECIFICATION
- Changes to specification of fresh concrete (outside concrete producer's responsibility): Prohibited .

PLACING/ COMPACTION/ CURING AND PROTECTION

- 630 PREMATURE WATER LOSS
- Requirement: Prevent water loss from concrete laid on absorbent substrates.
 - Underlay: Select from:
 - Polyethylene sheet: 250 micrometres thick.
 - Building paper: To BS 1521, grade B1F.
 - Installation: Lap edges 150 mm.
- 650 SURFACES TO RECEIVE CONCRETE
- Cleanliness of surfaces immediately before placing concrete: Clean with no debris, tying wire clippings, fastenings or free water.

680 PLACING

- Records: Maintain for time, date and location of all pours.
- Timing: Place as soon as practicable after mixing and while sufficiently plastic for full compaction.
- Temperature limitations for concrete: 30°C (maximum) and 5°C (minimum), unless otherwise specified. Do not place against frozen or frost covered surfaces.
- Continuity of pours: Place in final position in one continuous operation up to construction joints. Avoid formation of cold joints.
- Discharging concrete: Prevent uneven dispersal, segregation or loss of ingredients or any adverse effect on the formwork or formed finishes.
- Thickness of layers: To suit methods of compaction and achieve efficient amalgamation during compaction.
- Poker vibrators: Do not use to make concrete flow horizontally into position, except where necessary to achieve full compaction under void formers and cast-in accessories and at vertical joints.

690 COMPACTING

- General: Fully compact concrete to full depth to remove entrapped air. Continue until air bubbles cease to appear on the top surface.
 - Areas for particular attention: Around reinforcement, under void formers, cast-in accessories, into corners of formwork and at joints.
- Consecutive batches of concrete: Amalgamate without damaging adjacent partly hardened concrete.
- Methods of compaction: To suit consistence class and use of concrete.

810 CURING GENERALLY

- Evaporation from surfaces of concrete: Prevent, including from perimeters and abutments, throughout curing period.
 - Surfaces covered by formwork: Retain formwork in position and, where necessary to satisfy curing period, cover surfaces immediately after striking.
 - Top surfaces: Cover immediately after placing and compacting. If covering is removed for finishing operations, replace it immediately afterwards.
- Surface temperature: Maintain above 5°C throughout the specified curing period or four days, whichever is longer.
- Records: Maintain details of location and timing of casting of individual batches, removal of formwork and removal of coverings. Keep records on site, available for inspection.

811 COVERINGS FOR CURING

- Sheet coverings: Suitable impervious material.
- Curing compounds: Selection criteria:
 - Curing efficiency: Not less than 75% or for surfaces exposed to abrasion 90%.
 - Colouring: Fugitive dye.
 - Application to concrete exposed in the finished work: Readily removable without disfiguring the surface.
 - Application to concrete to receive bonded construction/ finish: No impediment to subsequent bonding.
- Interim covering to top surfaces of concrete: Until surfaces are in a suitable state to receive coverings in direct contact, cover with impervious sheeting held clear of the surface and sealed against draughts at perimeters and junctions.

840 PROTECTION

- Prevent damage to concrete, including:
 - Surfaces generally: From rain, indentation and other physical damage.
 - Surfaces to exposed visual concrete: From dirt, staining, rust marks and other disfiguration.
 - Immature concrete: From thermal shock, physical shock, overloading, movement and vibration
 - In cold weather: From entrapment and freezing expansion of water in pockets, etc.

E20 Formwork for in situ concrete

To be read with Preliminaries/ General conditions.

GENERALLY/ PREPARATION

110 LOADINGS

- Requirement: Design and construct formwork to withstand the worst combination of the following:
 - Total weight of formwork, reinforcement and concrete.
 - Construction loads including dynamic effects of placing, compacting and construction traffic.
 - Wind and snow loads.

CONSTRUCTION

310 ACCURACY

- General requirement for formwork: Accurately and robustly constructed to produce finished concrete in the required positions and to the required dimensions.
- Formed surfaces: Free from twist and bow (other than any required cambers).
- Intersections, lines and angles: Square, plumb and true.

320 JOINTS IN FORMS

- Requirements including joints in form linings and between forms and completed work:
 - Prevent loss of grout, using seals where necessary.
 - Prevent formation of steps. Secure formwork tight against adjacent concrete.

STRIKING

510 STRIKING FORMWORK

- Timing: Prevent any disturbance, damage or overloading of the permanent structure.

521 MINIMUM PERIOD FOR RETAINING FORMWORK/ TEMPORARY SUPPORTS IN POSITION

- Concrete strength at time of formwork removal (minimum): 20 N/mm² cube strength.
- Assumptions: Maturity of adjacent elements of structure is at least equal to element under consideration.
 - Before removing formwork: Submit proposals if assumptions will not be realised.
- Method to be used in assessing early age strength of concrete: Submit proposals.

FORMED FINISHES

610 BASIC FINISH

- Location: faces below ground level.
- Finish: Faces fully compacted and cover to reinforcement provided.

620 PLAIN FINISH

- Location: Exposed faces.
- Finish: Even and dense. Arrange formwork panels in a regular pattern as a feature of the surface.
- Permissible deviation of surfaces:
 - Sudden irregularities (maximum): 3 mm.
 - Gradual irregularities (maximum): 3 mm, when measured from the underside of a 1 m straightedge, placed anywhere on surface.
- Variations in colour:
 - Permitted: Those caused by impermeable formwork linings.
 - Not permitted: Those caused by contamination or grout leakage.
- Surface blemishes:
 - Permitted: Blowholes less than 10 mm in diameter and at an agreed frequency.
 - Not permitted: Voids, honeycombing, segregation and other large defects.
- Formwork tie holes: In a regular pattern and filled with matching mortar.

E30 Reinforcement for in situ concrete

To be read with Preliminaries/ General conditions.

- 110 QUALITY ASSURANCE OF REINFORCEMENT
- Standards:
 - Reinforcement: To BS 4449, BS 4482, BS 4483 or BS 6744.
 - Cutting and bending: To BS 8666.
 - Source of reinforcement: Companies holding valid certificates of approval for product conformity issued by the UK Certification Authority for Reinforcing Steels (CARES).
- 140 PLAIN BAR REINFORCEMENT
- Standard: To BS 4482.
 - Strength grade: 250.
- 150 RIBBED BAR REINFORCEMENT
- Standard: To BS 4449.
 - Strength grade: B500B.
- 210 STANDARD FABRIC REINFORCEMENT
- Standard: To BS 4483.
 - Strength grade: B500B or B500C.
- 310 CUTTING AND BENDING REINFORCEMENT
- General: To schedules and to BS 8666.
 - Bending on site, including minor adjustments: Obtain instructions.
- 320 PROTECTION OF REINFORCEMENT
- Dropping from height, mechanical damage and shock loading: Prevent.
 - Cleanliness of reinforcement at time of pouring concrete: Free from corrosive pitting, loose mill scale, loose rust and contaminants which may adversely affect the reinforcement, concrete, or bond between the two.
- 451 FIXING REINFORCEMENT
- Standard: To BS 7973-1 and -2.
 - Installation: In addition to any spacers and chairs shown on drawings or schedules, provide adequate support, tie securely and maintain the specified cover.
 - Tying:
 - Wire type: 16 gauge black annealed. Use stainless steel wire for stainless steel reinforcement.
 - Ends of tying wire: Prevent intrusion into the concrete cover. Remove loose ends.
 - Compatibility of metals: Prevent contact between ordinary carbon steel and stainless or galvanized reinforcement.
- 480 NOMINAL COVER TO REINFORCEMENT
- Nominal cover 75 mm.

F20 Natural stone rubble walling

To be read with Preliminaries/ General conditions.

LAYING AND JOINTING

315 ADVERSE WEATHER

- General: Do not use frozen materials or lay on frozen surfaces.
- Air temperature: Do not lay stones:
 - In cement gauged mortars: At or below 3°C and falling or below 1°C and rising.
 - In hydraulic lime:sand mortars: At or below 5°C and falling or below 3°C and rising.
- Temperature of walling during curing: Above freezing until mortar hardened.
- Newly erected walling: Protect at all times from:
 - Rain and snow.
 - Drying out too rapidly in hot conditions and in drying winds.

325 LAYING GENERALLY

- Absorbent stones: Dampen in warm weather to reduce suction. Do not soak.
- Mortar joints:
 - Laying: Full bed of mortar with all joints and voids filled.
 - Appearance: Neat and consistent.
- Orientation for natural bed of stones: Appropriate to properties of stones and positions in walling/ dressings.
- Appearance and bonding: Consistent overall appearance and good bond.
 - Random walling: Distribute different shapes, sizes and colours evenly throughout the face of the wall. Avoid long continuous vertical joints.
- Accuracy:
 - Walling generally: Plumb, unless specified otherwise.
 - Setting out: Achieve satisfactory junctions and joints with adjoining or built-in elements and components.
- Cleanliness: Keep facework clean. Rubbing and other abrasive or chemical cleaning methods to remove marks and stains, not permitted.

330 WALLING BELOW GROUND LEVEL

- Extent of facework below finished level of adjoining ground or external works (minimum): 150 mm.

360 QUOINS AND JAMBS IN RUBBLE WALLING

- Selection of stones: Large stones, dressed to a regular shape.
- Laying: In advance of main body of walling.

370 BONDERS FOR WALLS FACED BOTH SIDES

- Bonding stones:
 - Length: Two thirds the thickness of the wall.
 - Height: Not less than one third of length.
 - Distribution: One to every square metre of each side of wall and staggered.

380 COURSED WORK

- Courses: True to line and level.

390 BRUSHED FINISH TO JOINTS

- General: After the initial set has taken place, brush joints to remove laitance/ excess fines and give a coarse texture.

G20 Carpentry/ timber framing/ first fixing

To be read with Preliminaries/ General conditions.

GENERAL

105 TIMBER PROCUREMENT

- Timber (including timber for wood based products): Obtained from well managed forests/ plantations in accordance with:
 - The laws governing forest management in the producer country or countries.
 - International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).
- Documentation: Provide either:
 - Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied, or
 - Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood based products.

150 STRENGTH GRADING OF TIMBER

- Grader: A company currently registered under a third party quality assurance scheme operated by a certification body approved by the UK Timber Grading Committee.

160 GRADING AND MARKING OF SOFTWOOD

- Timber of a target/ finished thickness less than 100 mm and not specified for wet exposure: Graded at an average moisture content not exceeding 20% with no reading being in excess of 24% and clearly marked as 'DRY' or 'KD' (kiln dried).
- Timber graded undried (green) and specified for installation at higher moisture contents: Clearly marked as 'WET' or 'GRN'.
- Structural timber members cut from large graded sections: Regraded to approval and marked accordingly.

PRODUCTS

230 STRUCTURAL SOFTWOOD (STRENGTH CLASS NOT SPECIFIED) REPAIRS TO SHED STRUCTURE

- Species: European whitewood.
- Grading standard: To the appropriate standard or rules for the specified grade and so marked.
 - Grade: GS to BS 4978.
- Treatment:
 - Preservative treatment: submit proposals.
Design service life: 20 years.
 - Fire retardant treatment: None required.

270 UNGRADED SOFTWOOD FOR INTERNAL NONSTRUCTURAL USE

- Quality of timber: Free from decay, insect attack (except pinhole borers) and with no knots wider than half the width of the section.
- Surface finish: Planed all round.
- Treatment:
 - Preservative treatment: Submit proposals.
Design service life: 20 years.
 - Fire retardant treatment: none.

275 WOOD TRIM SHED CLADDING

- Species: European whitewood.
- Standard: To BS 1186-3.
 - Class: 2.
- Treatment: Submit proposals.
 - Design service life: 20 years.
- Fixing: Two 50 mm lost head nails to each support.
- Other requirements: Undercut bottom edge of boards to form drip.

WORKMANSHIP GENERALLY

401 CROSS SECTION DIMENSIONS OF STRUCTURAL SOFTWOOD AND HARDWOOD

- Dimensions: Dimensions in this specification and shown on drawings are target sizes as defined in BS EN 336.
- Tolerances: The tolerance indicators (T1) and (T2) specify the maximum permitted deviations from target sizes as stated in BS EN 336, clause 4.3:
 - Tolerance class 1 (T1) for sawn surfaces.
 - Tolerance class 2 (T2) for further processed surfaces.

402A CROSS SECTION DIMENSIONS OF NON-STRUCTURAL SOFTWOOD

- Dimensions: Dimensions to match existing.
- Maximum permitted deviations from finished sizes: As stated in BS EN 1313-1:
 - Clause 6 for sawn sections.

430 SELECTION AND USE OF TIMBER

- Timber members damaged, crushed or split beyond the limits permitted by their grading: Do not use.

435 NOTCHES, HOLES AND JOINTS IN TIMBER

- Notches and holes:
 - General: Avoid if possible.
 - Sizes: Minimum needed to accommodate services.
 - Position: Do not locate near knots or other defects.
 - In same joist: Minimum 100 mm apart horizontally.
 - Notches in joists:
 - Position: Locate at top. Form by sawing down to a drilled hole.
 - Depth (maximum): 0.15 x joist depth.
 - Distance from supports: Between 0.1 and 0.2 x span.
 - Holes in joists:
 - Position: Locate on neutral axis.
 - Diameter (maximum): 0.25 x joist depth.
 - Centres (minimum): 3 x diameter of largest hole.
 - Distance from supports: Between 0.25 and 0.4 of span.
 - Notches in roof rafters, struts and truss members: Not permitted.
 - Holes in struts and columns: Locate on neutral axis.
 - Diameter (maximum): 0.25 x minimum width of member.
 - Centres (minimum): 3 x diameter of largest hole.
 - Distance from ends: Between 0.25 and 0.4 of span.
- Scarf joints, finger joints and splice plates: Do not use without approval.

440 PROCESSING TREATED TIMBER

- Cutting and machining: Carry out as much as possible before treatment.
- Extensively processed timber: Retreat timber sawn lengthways, thickness, planed, ploughed, etc.
- Surfaces exposed by minor cutting/ drilling: Treat with two flood coats of a solution recommended by main treatment solution manufacturer.

450 MOISTURE CONTENT

- Moisture content of wood and wood based products at time of installation: Not more than:
 - Covered in generally unheated spaces: 24%.
 - Covered in generally heated spaces: 20%.
 - Internal in continuously heated spaces: 20%.

510 PROTECTION

- Generally: Keep timber dry and do not overstress, distort or disfigure sections or components during transit, storage, lifting, erection or fixing.
- Timber and components: Store under cover, clear of the ground and with good ventilation. Support on regularly spaced, level bearers on a dry, firm base. Open pile to ensure free movement of air through the stack.
- Trussed rafters: Keep vertical during handling and storage.

550 EXPOSED TIMBER

- Planed structural timber exposed to view in completed work: Prevent damage to and marking of surfaces and arrises.

JOINTING TIMBER

570 JOINTING/ FIXING GENERALLY

- Generally: Where not specified precisely, select methods of jointing and fixing and types, sizes and spacings of fasteners in compliance with section Z20.

580 FRAMING ANCHORS

- Manufacturer: Contractor's choice.
 - Product reference: Contractor's choice.
- Material/ finish: Galvanized low carbon steel.
- Fasteners: Galvanized or sherardized square twist nails.
 - Size: Not less than size recommended by anchor manufacturer.
- Fixing: Secure using not less than the number of nails recommended by anchor manufacturer.

630 BOLTED JOINTS

- Bolt spacings (minimum): To BS EN 1995-1-1, section 8.5.
- Holes for bolts: Located accurately and drilled to diameters as close as practical to the nominal bolt diameter and not more than 2 mm larger.
- Washers: Placed under bolt heads and nuts that would otherwise bear directly on timber. Use spring washers in locations which will be hidden or inaccessible in the completed building.
- Bolt tightening: So that washers just bite the surface of the timber. Ensure that at least one complete thread protrudes from the nut.
 - Checking: At agreed regular intervals up to Completion. Tighten as necessary.

670 ANTI-CORROSION FINISHES FOR FASTENERS

- Galvanizing: To BS 7371-6, with internal threads tapped and lightly oiled following treatment.
- Sherardizing: To BS 7371-8, Class 1.
- Zinc plating: To BS EN ISO 4042 and passivated.

H21 Timber weatherboarding

- 15 HORIZONTAL TIMBER WEATHERBOARDING REPAIRS TO SHEDS
- Battens:
 - Size: as existing.
 - Centres: as existing.
 - Fixing: 38 mm x 8 gauge stainless steel c/s screws at 500mm centres.
 - Boarding:
 - Standard: To BS EN 14915.
 - Quality of timber (exposed surfaces): To BS 1186-3, Class 3.
 - Species: European whitewood.
 - Profile: Shiplap.
 - Finished face dimension (overall width): as existing.
 - Finished thickness: as existing.
 - Moisture content at time of fixing: 13-19 %.
 - Treatment: Preservative impregnation.
Standard: To NBS section Z12 and Wood Protection Association Commodity Specification C6.
Type: Copper-organic.
 - Method of fixing to each support: Twice nailed with 50 mm stainless steel lost head annular ring shank nails.
 - Other requirements: all to match existing.
- 30 BATTENS/ COUNTERBATTENS
- Timber: Regularized softwood free from decay, insect attack (except ambrosia beetle damage) and with no knots wider than half the section width.
 - Preservative treatment:
 - Standard: To NBS section Z12 and BWPDA Commodity Specification C8.
 - Type: Copper-organic.
 - Moisture content: Not exceeding 20% at time of fixing.
- 31 FIXING BATTENS/ COUNTERBATTENS TO MASONRY
- Setting out: In straight, vertical lines.
 - Batten/ Counterbatten length (minimum): 1200 mm.
 - Installation: Fastener heads to finish flush with or slightly below batten face.
- 32 FIXING BATTENS/ COUNTERBATTENS TO FRAMING/ SHEATHING
- Setting out: In straight, vertical lines at centres coincident with vertical framing members.
 - Batten/ Counterbatten length (minimum): 1200 mm.
 - Installation: Where sheathing is provided, fix through sheathing into framing. Fastener heads to finish flush with or slightly below batten face.
- 33 FIXING BATTENS TO COUNTERBATTENS
- Setting out: In straight, horizontal lines. Align on adjacent areas.
 - Batten/ Counterbatten length (minimum): 1200 mm.
 - Joints: Square cut, butted centrally on counterbattens and not occurring more than once in any group of four battens on any one counterbatten.
 - Installation: Fix each batten to each counterbatten. Use splay fixings at joints. Fastener heads to finish flush with or slightly below batten face.
- 40 TREATED TIMBER
- Surfaces exposed by minor cutting and/ or drilling: Treat with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.

50 SURFACE TREATMENT

- Finishing system: Before fixing boards, apply first coat of specified system to all surfaces. Apply liberally to end grain.

60 FIXING BOARDING

- General: Fix boards securely to give flat, true surfaces free from undulations, lipping, splits, hammer marks and protruding fasteners.
- Movement: Allow for movement of boards and fixings to prevent cupping, springing, excessive opening of joints or other defects.
- Heading joints: Position centrally over supports and at least two board widths apart on any one support.
- Nail heads: Punch below surfaces that will be seen in the completed work.

H30 Fibre cement profiled sheet cladding/ covering

10 FIBRE CEMENT

- Support structure: as existing.
- External sheets: To BS EN 494, Type NT (nonasbestos).
 - Manufacturer: Contractor's choice.
 - Product reference: to match existing.
 - Fragility class to ACR(M)001: A.
 - Finish/ Colour: Natural uncoated.
- Fittings: As shown on drawings and recommended by cladding manufacturer.
- Primary cladding/ covering sheet fasteners: Self-drilling and tapping steel screws with oversize hole forming wings and assembled sealing washers and plastics caps.
 - Fastener profile location: as manufacturer recommendation.
 - Number of fasteners per sheet width:
 - Eaves and end laps: as manufacturer recommendation.
 - Intermediate supports: as manufacturer recommendation.
- End laps size (minimum): 300 mm.
 - Sealing: Two rows of partially cross linked butyl rubber sealant tape..
- Side laps size: 131 mm.
 - Sealing: Two rows of partially cross linked butyl rubber sealant tape..
- Unsupported overhang (maximum): 200mm.
- Breather membrane: Not required.
- Spacers: Not required.
 - Fasteners: as manufacturer recommendation.
- Thermal insulation: Not required.
- Vapour control layer: Not required.
- Lining: Not required.

60 PROFILE FILLERS

- Material: contractor's choice.
- Manufacturer: Contractor's choice.
 - Product reference: Contractor's choice.
- Colour: Black.
- Thickness: 50 mm.
- Fixing: Self-adhesive tape.
 - Requirement: To close cavities/ regulate air paths within the external envelope. Tight fit with no unintended gaps.
 - Fire resisting profile fillers: Use adhesive recommended by profile filler manufacturer.

70 FIXING GENERALLY

- Cut edges: Clean, true lines.
- Sheet orientation: Smooth surface uppermost and exposed joints of side laps away from prevailing wind. Lay verge sheets terminating with a crown.
- Sheet ends, laps and raking cut edges: Fully supported, with fixings at top of lap.
- Fasteners: Drill holes. Position at regular intervals in straight lines, centred on support bearings.
 - Hook/ Crook bolt and non wing device type fasteners: Position centrally within oversized drilled holes.
- Debris and dust: Remove before fixing sheets.
- Completion: Check fixings to ensure watertightness and that sheets are secure.

73 **FIXING FIBRE CEMENT SHEETS**

- Holes for primary fixings: 2 mm larger than diameter of fasteners (unless self-drilling type that create suitable clearance) and located not less than 40 mm from edge of sheets and fittings.
- Mitre joints: Open butt, 3-6 mm wide.
 - Box/ Check joints: Not permitted.

75 **FIXING PLASTICS SHEETS**

- Crown fixing: For sheets with a profile depth greater than 20 mm, support crowns at primary fasteners with profile fillers.
- Fastener holes: As recommended by sheet manufacturer.
- End laps between plastics sheets: Use two strips of sealant tape, one along each edge of lap.

80 **SEALING LAPS ON EXTERNAL SHEETS**

- Sealant tape: Types recommended for the purpose by sheet manufacturer.
- Position of tape: Below fixing positions in straight, unbroken lines parallel to and slightly back from edge of sheet.
- End lap sealant tape position:
 - Single line tape: Immediately below line of fasteners.
 - Second line tape (where specified): Slightly set back from the edge of the external sheet.
- Side lap sealant tape position:
 - Single line tape: Outside line of fasteners.
 - Second line tape (where specified): On the other side of the fasteners.

90 **SAFETY SIGNS**

- Fixing locations of signs: As indicated on drawings.
- Manufacturer: Contractor's choice.
 - Product reference: Contractor's choice.
- Material: Aluminium with polyester powder coated base colour, screen printed graphics and lettering.
- Signs description:
 - General warning sign as BS EN ISO 7010 reference number ISO 7010-W001 with supplementary text sign, lettering 'DANGER fragile roof'.
 - General mandatory action sign as BS EN ISO 7010 reference number ISO 7010-M001 with supplementary text sign, lettering 'Use crawling boards'.

Q20 Granular sub-bases to roads/ pavings

To be read with Preliminaries/ General conditions.

- 110 THICKNESSES OF SUB-BASE/ SUBGRADE IMPROVEMENT LAYERS
- Thicknesses: See sections:
 - Q21 In situ concrete roads/ pavings/ bases.
- 145 PREPARATION AND COMPACTION OF SUBGRADES
- Timing: Immediately before placing sub-base.
 - Soft or damaged areas: Obtain instructions.
 - Compaction: Thoroughly, by roller or other suitable means, adequate to resist subsidence or deformation of the subgrade during construction and of the completed roads/ pavings when in use. Take particular care to compact fully at intrusions, perimeters and where local excavation and backfilling has taken place.
- 150 SUBGRADES FOR VEHICULAR AREAS
- Preparation and treatment: To Highways Agency 'Specification for highway works', clauses 616 and 617.
- 170 GEOTEXTILE FILTER/ SEPARATOR MEMBRANE IF REQUIRED
- Manufacturer: Contractor's choice.
 - Product reference: Manufacturer's choice.
 - Jointing: 300 mm overlap.
 - Protect from:
 - Exposure to light, except during laying (maximum five hours).
 - Contaminants.
 - Materials listed as potentially deleterious by geotextile manufacturer.
 - Damage, until fully covered by fill.
 - Wind uplift, by laying not more than 15 m before covering with fill.
 - Preparation: Remove humps and sharp projections and fill hollows before laying.
- 180 NOTICE
- Give notice: After preparation and compaction of subgrades.
 - Period of notice: 5 working days.
- 211 GRANULAR MATERIAL
- Quality: Of a known suitability for use in sub-base, free from excessive dust, well graded, all pieces less than 75 mm in any direction, minimum 10% fines value of 50 kN when tested in a soaked condition to BS 812-111 or a resistance to fragmentation of LA50 for the Los Angeles test to BS EN 1097-2, and in any one layer only one of the following:
 - Crushed rock (other than argillaceous rock) or quarry waste with not more binding material than is required to help hold the stone together.
 - Crushed concrete, crushed brick or tile, free from plaster, timber and metal.
 - Gravel or hoggin with not more clay content than is required to bind the material together, and with no large lumps of clay.
 - Natural gravel.
 - Natural sand.
 - Filling: Spread and levelled in 150 mm maximum layers, each layer thoroughly compacted.
- 230 PLACING GRANULAR MATERIAL GENERALLY
- Preparation: Loose soil, rubbish and standing water removed.
 - Structures, membranes and buried services: Ensure stability and avoid damage.

- 240 LAYING GRANULAR SUB-BASES FOR VEHICULAR AREAS
- General: Spread and levelled in layers. As soon as possible thereafter compact each layer.
 - Standard: To Highways Agency 'Specification for highway works' clause 802.
 - At drainage fittings, inspection covers, perimeters and where local excavation and backfilling has taken place: Take particular care to compact fully.
- 241 LAYING GRANULAR SUB-BASES FOR VEHICULAR AREAS
- Proposals: Well in advance of starting work submit details of:
 - Maximum depth of each compacted layer.
 - Type of plant.
 - Minimum number of passes per layer.
 - General: Spread and levelled in layers. As soon as possible thereafter compact each layer.
 - At drainage fittings, inspection covers, perimeters and where local excavation and backfilling has taken place: Take particular care to compact fully.
 - Defective areas: Remove loose, segregated or otherwise defective areas to the full thickness of the layer and lay and compact new material.
 - Sub-base surface after compaction and immediately before overlaying: Uniformly well closed and free from loose material, cracks, ruts or hollows.
- 310A ACCURACY
- Permissible deviation from required levels, falls and cambers (maximum):
 - Subgrades:
 - Slipway: +20 -30 mm.
 - Footways and recreation areas: ± 20 mm.
 - Sub-bases:
 - Slipway: ± 20 mm.
 - Footways and recreation areas: ± 20 mm .
- 330 COLD WEATHER WORKING
- Frozen materials: Do not use.
 - Freezing conditions: Do not place fill on frozen surfaces. Remove material affected by frost. Replace and recompact if not damaged after thawing.
- 340 PROTECTION
- Sub-bases: As soon as practicable, cover with subsequent layers, specified elsewhere.
 - Subgrades and sub-bases: Prevent degradation by construction traffic, construction operations and inclement weather.

Q21 In situ concrete roads/ pavings/ bases

To be read with Preliminaries/ General conditions.

TYPES OF PAVING

- 115A PAVING WITH EMBEDDED METAL (DESIGNATED CONCRETE) SLIPWAY.
- Subgrade improvement layer: Not required.
 - Compacted thickness: Not applicable.
 - Geotextile filter: Not required.
 - Granular sub-base: Highways Agency Type 1 unbound mixture, as section D20.
 - Compacted thickness: min. 150 mm.
 - Separation membrane: Polyethylene sheet 125 micrometres thick, edges lapped 300 mm.
 - Embedded metal: Fabric reinforcement A393 mesh.
 - Concrete: As E10
Slab thickness (minimum): 300.
 - Finish: Tamped.

GENERAL/ PREPARATION

- 140 READY-MIXED CONCRETE
- Production plant: Currently certified by a body accredited by UKAS to BS EN ISO/IEC 17065 for product conformity certification.
 - Source of ready-mixed concrete: Obtain from one source if possible. Otherwise, submit proposals.
 - Name and address of depot: Submit before any concrete is delivered.
 - Delivery notes: Retain for inspection.
 - Declarations of nonconformity from concrete producer: Notify immediately.
- 150 REINFORCEMENT SLIPWAY
- Standard: To As E30.
 - Product form/ designation: As E30.
 - Strength grade: 650.
 - Cutting and bending: To BS 8666.
 - Supplier: A firm currently approved by the UK Certification Authority for Reinforcing Steels (CARES).
 - Nominal cover (minimum): 75MM.
 - Cleanliness: Free from corrosive pitting, loose material and contaminants which may adversely affect reinforcement, concrete, or bond between the two.
- 240 SUB-BASE PREPARATION
- Surface: Sound, free of debris, mud and soft spots, and suitably close textured.
 - Levels and falls: Within specified tolerances:
 - Vehicular areas: ± 20 mm.
 - Pedestrian areas: ± 12 mm.
 - Drainage outlets: +0 to -10 mm of required finished level.
 - Kerbs and edgings: Complete, adequately bedded and haunched, and to required levels.

250 LAYING FABRIC REINFORCEMENT

- Flatness: Lay in flat sheets, straight and out of winding.
- Main reinforcement: Parallel to long axis of slab.
- Temporary support: Securely fix and support fabric during construction of slab.
- Lapping at joints (minimum):
 - Longitudinal bars: 450 mm.
 - Transverse bars: 300 mm.
- Extent of fabric: Fully within slab.
 - Stopping short of slab edges by: 100 ±20 mm.
 - Stopping short of centre line of transverse joints by: 100 ±20 mm.
 - Stopping short of centre line of longitudinal joints: 100 ±20 mm.
- Alternative placing method: Fabric may be placed on top of first compacted layer of concrete, followed by top layer of concrete, placed within two hours of the first layer.

LAYING CONCRETE

310 TRANSPORTING CONCRETE

- General: Avoid contamination, segregation, loss of ingredients, excessive evaporation and loss of workability. Protect from heavy rain.
- Entrained air: Anticipate effects of transport and placing methods in order to achieve specified air content.
- Placing: Use suitable walkways and barrow runs for traffic over reinforcement and freshly placed concrete.

320 LAYING CONCRETE GENERALLY

- Timing: Place as soon as practicable after mixing and while sufficiently plastic for full compaction. After discharge from the mixer do not add water or retemper.
- Temperature of concrete at point of delivery:
 - In hot weather (maximum): 30°C.
 - In cold weather (minimum): 5°C.
- Cold weather:
 - Do not use frozen materials.
 - Do not place concrete against frozen or frost covered surfaces.
 - Do not place concrete when air temperature is below 3°C on a falling thermometer. Do not resume placing until rising air temperature has reached 3°C.
- Surfaces on which concrete is to be placed: Free from debris and standing water.
- Placing in final position: Place in one continuous operation up to construction joints.
 - Do not place concrete simultaneously on both sides of movement joints.
- Spreading: Spread and strike off with surcharge sufficient to obtain required compacted thickness.
- Adjacent work: Form neat junctions and prevent damage. Keep clean all channels, kerbs, inspection covers, etc.

330 COMPACTING

- General: Fully compact concrete to full depth (until air bubbles cease to appear on the surface) especially around reinforcement, cast-in accessories, into corners and at joints.
- Poker vibrators: Do not use to make concrete flow into position. Do not allow to come into contact with fabric reinforcement.
- Wet formed joint grooves: Rectify any irregularities by means of a vibrating float.
- Finish: A dense, even textured surface free from laitance or excessive water.
 - Excess concrete: Remove from top of groove formers.

- 340 MANHOLE COVER AND GULLY GRATING FRAMES
- General: Set frames in independent concrete slabs placed over, but slightly larger than, exterior of manhole shaft or gully pot and any concrete surround.
 - Positioning of joints in main slab: Set out so that manhole/ gully slabs are adjacent to a main transverse joint, wherever possible.
 - Joints: Separate the independent slabs from main slabs with 25 mm thick joint filler board. Set board 20 mm below top of slab to form a sealing groove.

- 350 LEVELS
- Lines and levels of finished surface: Smooth and even, with regular falls to prevent ponding.
 - Finished surfaces: Within ± 6 mm of required levels (+6 or -0 mm adjacent to gullies and manholes).

- 360 SURFACE REGULARITY
- General: Where appropriate in relation to the geometry of the surface, the variation in gap under a 3 m straightedge (with feet) placed anywhere on the surface to be not more than 5 mm.
 - Sudden irregularities: Not permitted.

JOINTS

- 410 JOINTS GENERALLY
- Layout: All joints to be accurately located, straight and well aligned.
 - Construction joints made at end of working day: Form as contraction joints.
 - Modifications to joint design or location: Submit proposals.
 - Temporary support: Prior to concreting, set formwork, dowel bars, tie bars, joint filler boards, sealing groove fillets and the like rigidly in position and support to prevent displacement. Maintain support until concrete has set.
 - Keep clean:
 - Do not allow concrete to enter any gaps or voids in formwork or to render movement joints ineffective.
 - Do not allow concrete to impregnate or penetrate materials used as compressible joint fillers.

- 440 LONGITUDINAL CONSTRUCTION JOINTS
- Definition: Longitudinal joints are those parallel to the main axis of the paving.
 - Standard: To Concrete Society Technical Report 28.
 - Formed groove:
 - Size (minimum width x depth): 15 x 13 mm.
 - Preparation: Repair damaged edges of initially cast slab prior to forming groove.
 - Method: Fix preformed fillet against top edge of the initially cast slab before placing the adjacent slab. Remove when concrete is fully cured.
 - Completion: Round upper edges of slabs at joints to 5 mm radius. Do not overwork concrete.

SURFACE FINISH

- 520 TAMPED FINISH
- Method: Tamp surface with edge of a board or beam to give an even texture of parallel ribs.
 - Direction: At right angles to the longitudinal direction of the slab.

CURING/ PROTECTION/ FINISHING

610 CURING

- General: Immediately after completion of surface treatment prevent evaporation from surface and exposed edges of slabs for a minimum period of seven days.
- Early curing:
 - Cover with waterproof sheeting held clear of surface. Seal against draughts at edges and junctions.
 - Do not apply sprayed compounds or sheets in direct contact until surface is in a suitable state and will not be marked.
- Coverings for curing: Contractor's choice of:
 - Impervious sheet material.
 - Resin based aluminized curing compound containing a fugitive dye and with an efficiency index of 90% when tested to BS 7542.
 - Sprayed plastics film.

Q41 Barriers/ guardrails

To be read with Preliminaries/ General conditions.

TYPES OF BARRIERS/ GUARDRAILS

135 PROPRIETARY PROTECTIVE BARRIERS REPLACE EXISTING TO FRONT OF SHEDS

- Standard: To BS 6180.
- Manufacturer: Contractor's choice.
 - Product reference: Kee Klamp type twin rail .
- Height above datum: 1100 mm .
 - Applied horizontally at: 1100 mm .
 - Material/ Protection: Steel, galvanized to BS EN ISO 1461 after fabrication .
- Surface finish: None .
 - Colour/ Texture: None .
 - Minimum film thickness: N/A .
- Fixings/ Foundations: Side fixed .
- Other requirements: Hand rails to steps .

INSTALLATION

420 ALIGNMENT

- Erection: Fences/ barriers to present a flowing alignment. Tops of posts to follow ground profile.
- Tolerance: ± 30 mm of prescribed alignment and, within any 10 m length, ± 15 mm from the straight or required radius.

430 ERECTION GENERALLY

- Protection: Coat all internal and external surfaces of aluminium and steel posts below and up to 150 mm above ground level, with two coats of bituminous paint to BS 6949 type 2, unless other applied surface finish is specified.
- Prevention of electrolytic corrosion: Isolate dissimilar metals.
- Steel components: Do not drill, cut or weld after galvanizing.

480 CONCRETE FOUNDATIONS FOR POSTS

- Excavations: To have vertical sides. Dispose of all arisings. Blind excavation bottoms with a 50 mm layer of concrete.
- Concrete mix: To BS 8500-2, Designated mix not less than GEN 4 or Standard mix not less than ST5. Do not use admixtures.
- Placing concrete: Fill holes to not less than the specified depth and fully compact. Do not backfill for at least four days.
- Temporary support to posts: Provide for at least four days after placing concrete.

490 DAMAGE REPAIR TO GALVANIZED SURFACES

- Areas of repair: Minor damage, including fixings and fittings.
 - Total area of repair not to exceed 0.5% of total surface area.
 - Each area not to exceed 1000 mm².
- Renovation: Use low melting point zinc alloy repair rods or powders or at least two coats of zinc-rich paint to BS 4652.

R10 Rainwater drainage systems

To be read with Preliminaries/ General conditions.

GENERAL

SYSTEM PERFORMANCE

- 210 DESIGN
- Design: Complete the design of the rainwater drainage system.
 - Standard:
 - To BS EN 12056-3, clauses 3–7, Annex A and National Annexes.
 - To BS EN 12056-5, clauses 3, 4, 6 and 11.
 - Proposals: Submit drawings, technical information, calculations and manufacturers' literature.
- 221 COLLECTION AND DISTRIBUTION OF RAINWATER
- General: Complete, and without leakage or noise nuisance.

PRODUCTS

- 350 PVC-U GUTTERS
- Standard: To the relevant parts of BS EN 607 and BS EN 1462, Kitemark certified.
 - Manufacturer: Contractor's choice.
 - Product reference: half round.
 - Recycled content: Contractor's choice.
 - Profile: Half round.
 - Nominal size: 100 mm.
 - Colour: Black.
 - Brackets: uPVC.
 - Fixings: Stainless steel screws.
Size: 30 x 4 mm.
 - Accessories: Gutter stop ends and outlets.
- 360 SEALANT FOR GUTTERS
- Type: silicone.
- 420 PVC-U PIPEWORK - EXTERNAL
- Standard: To BS EN 12200-1, Kitemark certified.
 - Manufacturer: Contractor's choice.
 - Product reference: Contractor's choice.
 - Recycled content: Contractor's choice.
 - Section: Round.
 - Nominal size: to suit selected gutter.
 - Colour: Black.
 - Brackets: PVC-U clips, black.
 - Fixings: Stainless steel screws.
Size: 30 x 4 mm.
 - Accessories: Rainwater shoes.

EXECUTION

600 PREPARATION

- Work to be completed before commencing work specified in this section:
 - Below ground drainage. Alternatively, make temporary arrangements for dispersal of rainwater without damage or disfigurement of the building fabric and surroundings.
 - Painting of surfaces which will be concealed or inaccessible.

605 INSTALLATION GENERALLY

- Electrolytic corrosion: Avoid contact between dissimilar metals where corrosion may occur.
- Plastics and galvanized steel pipes: Do not bend.
- Allowance for thermal and building movement: Provide and maintain clearance as fixing and jointing proceeds.
- Protection:
 - Fit purpose made temporary caps to prevent ingress of debris.
 - Fit access covers, cleaning eyes and blanking plates as the work proceeds.

610 FIXING AND JOINTING GUTTERS

- Joints: Watertight.
- Brackets: Securely fixed.
 - Fixings: Supply and fit additional support for brackets.
Fixing centres: 600 mm.
 - Additional brackets: Where necessary to maintain support and stability, provide at joints in gutters and near angles and outlets.
- Roofing underlay: Dressed into gutter.

615 SETTING OUT EAVES GUTTERS - TO FALLS

- Setting out: To true line and even gradient to prevent ponding or backfall. Position high points of gutters as close as practical to the roof and low points not more than 50 mm below the roof.
- Outlets: Align with connections to below ground drainage.

630 INSTALLING RAINWATER OUTLETS

- Fixing: Secure. Fix before connecting pipework.
 - Method: submit proposals.
- Junctions between outlets and pipework: Accommodate movement in structure and pipework.

635 FIXING PIPEWORK

- Pipework: Fix securely, plumb and/ or true to line.
- Branches and low gradient sections: Fix with uniform and adequate falls to drain efficiently.
- Externally socketed pipes and fittings: Fix with sockets facing upstream.
- Additional supports: Provide as necessary to support junctions and changes in direction.
- Vertical pipes:
 - Provide a loadbearing support at least at every storey level.
 - Tighten fixings as work proceeds so that every storey is self supporting.
 - Wedge joints in unsealed metal pipes to prevent rattling.
- Wall and floor penetrations: Isolate pipework from structure.
 - Pipe sleeves: As section P31.
 - Masking plates: Fix at penetrations if visible in the finished work.
- Expansion joint pipe sockets: Fix rigidly to buildings. Elsewhere, provide brackets and fixings that allow pipes to slide.

650 JOINTING PIPEWORK AND GUTTERS

- General: Joint with materials and fittings that will make effective and durable connections.
- Jointing differing pipework and gutter systems: Use adaptors intended for the purpose.
- Cut ends of pipes and gutters: Clean and square. Remove burrs and swarf. Chamfer pipe ends before inserting into ring seal sockets.
- Jointing or mating surfaces: Clean and, where necessary, lubricate immediately before assembly.
- Junctions: Form with fittings intended for the purpose.
- Jointing material: Strike off flush. Do not allow it to project into bore of pipes and fittings.
- Surplus flux, solvent jointing materials and cement: Remove.

COMPLETION

910 GUTTER TEST

- Preparation: Temporarily block all outlets.
- Testing: Fill gutters to overflow level and after 5 minutes closely inspect for leakage.

Z21 Mortars

To be read with Preliminaries/ General conditions.

CEMENT GAUGED MORTARS

- 110 CEMENT GAUGED MORTAR MIXES
- Specification: Proportions and additional requirements for mortar materials are specified elsewhere.
- 120 SAND FOR SITE MADE CEMENT GAUGED MASONRY MORTARS
- Standard: To BS EN 13139.
 - Grading: 0/2 (FP or MP).
 - Fines content where the proportion of sand in a mortar mix is specified as a range (e.g. 1:1: 5-6):
Lower proportion of sand: Use category 3 fines.
Higher proportion of sand: Use category 2 fines.
 - Sand for facework mortar: Maintain consistent colour and texture. Obtain from one source.
- 135 SITE MADE LIME:SAND FOR CEMENT GAUGED MASONRY MORTARS
- Permitted use: Where a special colour is not required and in lieu of factory made ready-mixed material.
 - Lime: Nonhydraulic to BS EN 459-1.
 - Type: CL 90S.
 - Mixing: Thoroughly mix lime with sand, in the dry state. Add water and mix again. Allow to stand, without drying out, for at least 16 hours before using.
- 160 CEMENTS FOR MORTARS
- Cement: To BS EN 197-1 and CE marked.
 - Types: Portland cement, CEM I.
Portland limestone cement, CEM II/A-L or CEM II/A-LL.
Portland slag cement, CEM II/B-S.
Portland fly ash cement, CEM II/B-V.
 - Strength class: 32.5, 42.5 or 52.5.
 - White cement: To BS EN 197-1 and CE marked.
 - Type: Portland cement, CEM I.
 - Strength class: 52.5.
 - Sulfate resisting Portland cement:
 - Types: To BS EN 197-1 Sulfate resisting Portland cement, CEM I/SR and CE marked.
To BS EN 197-1 fly ash cement, CEM II/B-V and CE marked.
 - Strength class: 32.5, 42.5 or 52.5.
 - Masonry cement: To BS EN 413-1 and CE marked.
 - Class: MC 12.5.
- 180 ADMIXTURES FOR SITE MADE CEMENT GAUGED MORTARS
- Air entraining (plasticizing) admixtures: To BS EN 934-3 and compatible with other mortar constituents.
 - Other admixtures: Submit proposals.
 - Prohibited admixtures: Calcium chloride, ethylene glycol and any admixture containing calcium chloride.

210 MAKING CEMENT GAUGED MORTARS

- Batching: By volume. Use clean and accurate gauge boxes or buckets.
 - Mix proportions: Based on dry sand. Allow for bulking of damp sand.
- Mixing: Mix materials thoroughly to uniform consistency, free from lumps.
 - Mortars containing air entraining admixtures: Mix mechanically. Do not overmix.
- Working time (maximum): Two hours at normal temperatures.
- Contamination: Prevent intermixing with other materials.

LIME:SAND MORTARS

310 LIME:SAND MORTAR MIXES

- Specification: Proportions and additional requirements for mortar materials are specified elsewhere.

320 SAND FOR LIME:SAND MASONRY MORTARS

- Type: Sharp, well graded.
 - Quality, sampling and testing: To BS EN 13139.
 - Grading/ Source: As specified elsewhere in relevant mortar mix items.

345 ADMIXTURES FOR HYDRAULIC LIME:SAND MORTARS

- Air entraining (plasticizing) admixtures: To BS EN 934-3 and compatible with other mortar constituents.
- Prohibited admixtures: Calcium chloride, ethylene glycol and any admixture containing calcium chloride.

360 MAKING LIME:SAND MORTARS GENERALLY

- Batching: By volume. Use clean and accurate gauge boxes or buckets.
- Mixing: Mix materials thoroughly to uniform consistency, free from lumps.
- Contamination: Prevent intermixing with other materials, including cement.

390 KNOCKING UP NONHYDRAULIC LIME:SAND MORTARS

- Knocking up before and during use: Achieve and maintain a workable consistency by compressing, beating and chopping. Do not add water.
 - Equipment: Roller pan mixer or submit proposals.

400 MAKING HYDRAULIC LIME:SAND MORTARS

- Mixing hydrated hydraulic lime:sand: Follow the lime manufacturer's recommendations for each stage of the mix.
 - Water quantity: Only sufficient to produce a workable mix.
- Working time: Within limits recommended by the hydraulic lime manufacturer.

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

SECTION

3 Schedule of Works

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

Schedule of Works

All works to be carried out in accordance with the Preambles and the structural engineers drawings.

Item	Description	Cost
1	Demolitions	
1.2	Old foundations, slabs and the like, break out existing stone paved ramp and concrete platform to front of sheds and concrete cover to Wessex Water effluent disposal main as necessary to enable construction of new slipway.	
1.3	Lift and relocate to adjacent areas large stones and rocks on seaward side of footpath where slipway is to be extended.	
1.4	Neatly breakout concrete on existing slipway to for pockets for support rings to jetty, allow for restatement as required.	
1.5	Neatly breakout concrete of existing slipway to enable jetty stepped abutment to be set in, allow for restatement as required.	
1.6	Take down existing Kee Klamp type barrier rail and dispose.	
2	Excavations	
2.1	Excavate in seabed to required levels to enable slipway construction include for all temporary structures.	
2.2	Excavate as required in beyond edge of existing concrete slipway in seabed to create pockets for support rings to jetty, include for all temporary structures.	
3	Slipway	
3.1	Fill to make up levels, granular material in accordance with specification for highway works, table 6/1 class N, well compacted.	
3.2	Form insitu concrete concrete slipway, include for toe, edge thickening, inset for steps and all reinforcement.	
4	Maintenance platform	
4.1	Insitu concrete cast over existing concrete platform.	
5	Jetty	
5.1	Jetty structure - precast concrete manhole rings filled with concrete and supporting 300mm thick insitu concrete slab reinforced with two layers of A393 mesh, include for all fenders, ladders and rails, matching or similar to existing adjacent jetty to main boat park slipway.	
6	Barrier rail	
6.1	Supply and fit Kee Klamp type twin barrier rail to replace existing on stone pavement to front of sheds, including for rails to steps, allow for 50m.	

To Collection

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

Schedule of Works

All works to be carried out in accordance with the Preambles and the structural engineers drawings.

Item	Description	Cost
7	Repairs to existing sheds	
7.01	Repoint stone walling, allow for 10 m ² .	
7.02	Add half round uPVC gutter and downpipes at sufficient locations, size to suit drainage calculations for roof, supply and fit additional support to brackets to extend gutter to roof drip edge.	
7.03	Inspect and Treat suspected woodworm (to Sheds 1 to 6)	
7.04	2 no. small repairs to rendered plinths to match existing – approximately 300 x 200 x 50mm deep to shed 12 and 22	
7.05	Replace door to sheds 7, 8 and 22 (and allow for 2 no. additional door replacements), to match existing.	
7.06	Replace Ironmongery throughout with the following - Hinges to be replaced on all shed doors with 1st Fix Stainless Steel 450mm (18in) Tee Hinges from Marine Grade 316 Stainless Steel. Thickness 2.6mm	
7.07	Hinges to be replaced on all shed window hatches with 1 st Fix Stainless Steel 300mm (12in) Tee Hinges from Marine Grade 316 Stainless Steel.	
7.08	Bolts to be replaced to all doors with Stainless Steel 150mm Medium Brenton Bolt made from 316 Marine Grade Stainless Steel installed at mid-level.	
7.09	Double doors to have heavy duty 14inch swivel locking bars installed at higher level.	
7.10	Single doors to have heavy duty hasp and Staple Stainless Steel Marine Grade.	
7.11	Replace padlocks with Abus 180lb/ 50 Marine 4 digit combination padlock in Brass to be supplied to each fixing.	
7.12	Refix loose timber slat to rear of shed 18	
7.13	Replace damaged section of timber cladding to shed 22, profile and finish to match existing.	
7.14	Replace door frame to Shed 19	
7.15	Clean Treat and preserve timber cladding, doors and hatches, once dry apply 2 no. coats of wood preserver to match existing.	
7.16	Clear drain that runs along the rear of sheds 16-22 and ensure free draining.	

To Collection

PROJECT: EXTENSION TO FISHERMEN’S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

Schedule of Works

All works to be carried out in accordance with the Preambles and the structural engineers drawings.

Item	Description	Cost
7.17	All new timber works to use treated timber to resist against chemical contaminants such as NaCl (Sea Water), and Ground Water treated if required in it’s intended location. All cut ends, notches or drill holes to be treated with Brush-On End Grain Preserver	
8	New Roofs to Sheds	
8.1	Strip all existing pitched roofs of corrugated sheeting. Allow for temporary tarpaulins and keep shed weatherproof during replacement.	
	Replacement roof alternative 1 (see provisional sums for alternative 2)	
8.2	Strip all existing pitched roofs of corrugated sheeting. Allow for temporary tarpaulins and keep shed weatherproof during replacement.	
8.3	Supply and fit replacement fibre cement profile roof sheeting to timber with drive screws, allow for eaves filler, ridge capping and gable end barge board, include for all other accessories.	
	To Collection	<hr/>
	Collection Page 3/1 Page 3/2 Page 3/3	
	Total carried forward to Tender Summary Sheet	<hr/> <hr/>

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

Schedule of Works

All works to be carried out in accordance with the Preambles and the structural engineers drawings.

Item	Description	Cost
1	PROVISIONAL SUMS	
1.01	Modular unit for toilet shower and crustacean store	40,000.00
1.02	Drainage	2,000.00
1.03	Winch and lockable housing	4,000.00
1.04	Mooring rings	250.00
1.05	Lighting	5,000.00
1.06	Temporary container accomodation to replace sheds	5,000.00
1.07	Replacement roof alternative 2 - monopitch roof profile including raising stone walling to rear upper shed tearrace only OR fence in boat park to rear of sheds to prevent climbing on roofs.	20,000.00
1.08	Costs in connection with footpath diversion	1,000.00
1.09	Signage including roof safety signs	1,000.00
	Carried to tender summary sheet	78,250.00

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

SECTION

4 Drawings

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

Drawing Schedule

Drawing No.	Description of Drawing
69011/04 T1	Proposed Slipway Extension Plan and Section A-A
69011/05 T1	Proposed Shore Profiles Sections B-B to D-D
69011/06 T1	Jetty Section Aa-Aa
LDS/14213-TP1/A	Topographic Survey
006048 P101	Existing General Layout

A3

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Notes and Revisions 16

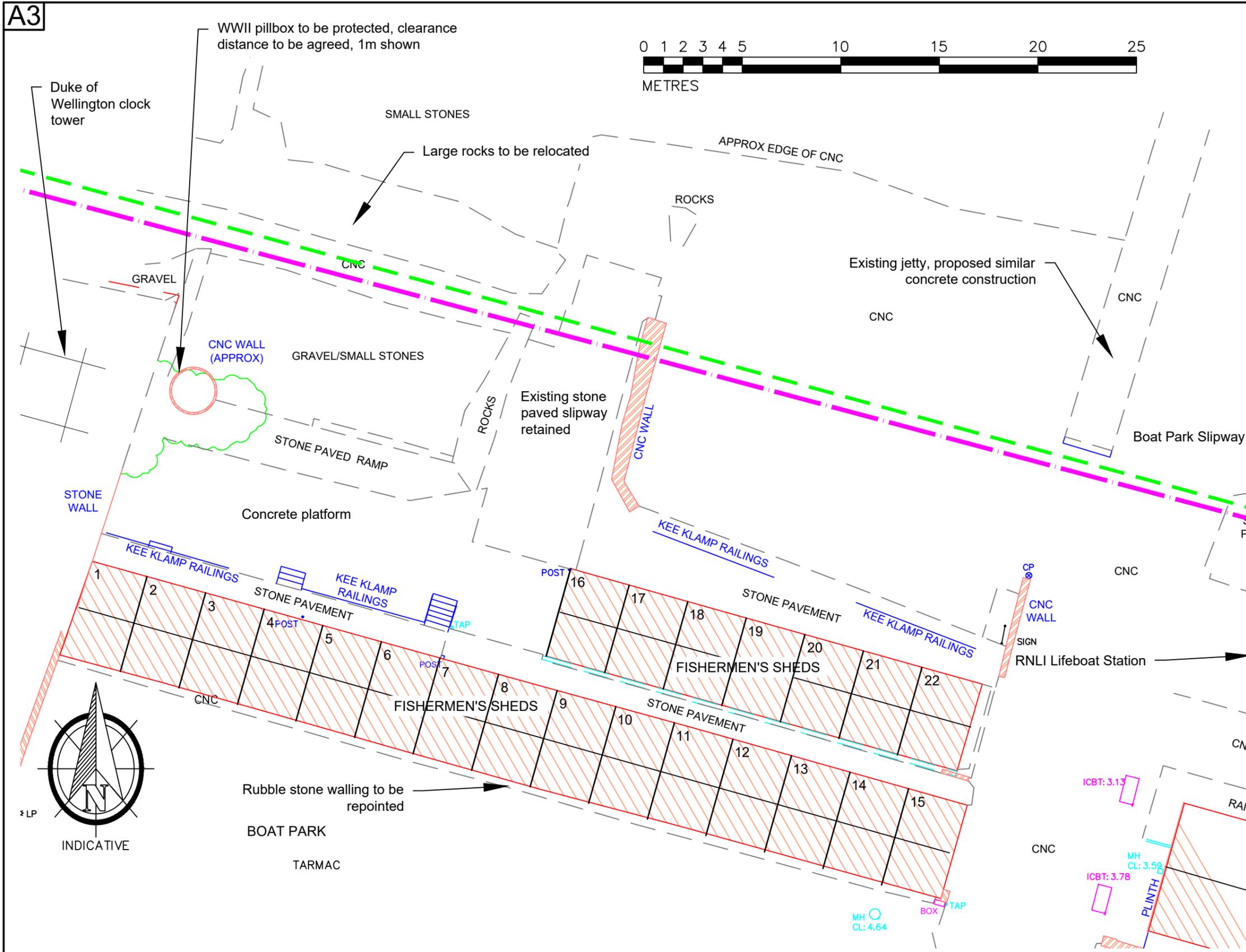
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KEY

-  Wessex Water Effluent Disposal Main
-  Public Footpath



REVISIONS

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Client
SWANAGE TOWN COUNCIL
 Job Title
FISHERMAN'S SLIPWAY
 PEVERIL POINT ROAD, SWANAGE

Drawing Title
GENERAL LAYOUT
 EXISTING

Scale 1:200	Date FEB 2018	Drawn By VAB	Filename
Property Ref.	Pims No. 006048	Drawing No. P101	Revision

Dorset County Council

Working together for a strong and successful Dorset

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

SECTION

5 Tender Summary Sheet

PROJECT: EXTENSION TO FISHERMEN'S SLIPWAY AND REPAIRS TO SHEDS

LOCATION: SWANAGE SLIPWAY, PEVERIL POINT ROAD, SWANAGE BH19 2AY

Schedule of Works

Dorset County Council - Dorset Property

Client: SWANAGE TOWN COUNCIL

Project: Fisherman's Slipway

Tender Summary Sheet

				Costs
1 - Preliminaries				£
2 - Preambles				£
3 - Schedule of Works				£
Provisional sums				£78,250.00
Contingency				£30,000.00
4 - Dayworks Summary (See Notes in Preliminaries)				
<u>Labour</u>	<u>(all hourly rates incl transport)</u>		<u>Rate/hr</u>	<u>Total</u>
25 hrs Building Craftsman	£		£	
25 hrs Building Labourer	£		£	
15 hrs NICEIC approved Electrician	£		£	
15 hrs Electricians Mate	£		£	
Materials (all trades)		£ 750		
Add Percentage Profit	@	%	£	
Plant (all trades)		£ 200		
Add Percentage Profit	@	%	£	
			Total Dayworks	£
Total Tender Amount (to be carried forward to form of tender) excl VAT				£

TO BE RETURNED WITH FORM OF TENDER