



REPAIR WORKS TO MARKET ROAD RIVER WALL

At

MARKET ROAD, TAVISTOCK, PL19 0AR

For

TAVISTOCK TOWN COUNCIL

SCHEDULE OF WORKS

Tender Issue: 9th February 2023

The following documents are enclosed (refer also to Contract Schedule):

**Form of Tender
The Contract Schedule
Instruction to Tenderers
Employers Responsibility
Preliminaries
The Schedule of Work
The Drawings (enclosed separately)**

22-031 Front End Documents Rev1.docx

SEPTEMBER 2022

Design / Manage / Construct

phone: 07549 702 495
email: Simon.Crabb@CrabbDMC.co.uk
web: www.CrabbDMC.co.uk

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Truro, Cornwall TR49PZ



DOCUMENT RECORD SHEET

Document Number	DMC/22-031
Document Title	REPAIR WORKS TO MARKET ROAD RIVER WALL MARKET ROAD, TAVISTOCK, PL19 0AR CONTRACT DOCUMENTS

Rev	Date	Issue/Revision/Description
0	5 September 2022	Preliminary Design Submission
1	20 January 2023	Minor Amendments

Prepared by:	Simon J Crabb BSc HONS MCIQB MCABEng
Signature:	

Checked by:	Austin Roberts BSc HONS
Signature:	



FORM OF TENDER

To: The Proper Officer
 Tavistock Town Council
 Town Council Offices
 Drake Road
 Tavistock PL19 0AU

Tenders on this form together with the priced Schedule of Works to reach Tavistock Town Council no later than 12.00 PM on 09/03/2023 by post.

MARKET ROAD, TAVISTOCK, PL19 0AR
REPAIR WORKS TO MARKET ROAD RIVER WALL

We have examined the Schedule of Work and do hereby offer to perform and complete the whole of the Works described for the sum of

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being the tender total in the summary to the Schedule of Works.

In the event of your acceptance of this tender, we undertake to proceed within a period of:	Weeks
and complete and deliver the whole of the Works within a further period of:	Weeks

We understand that this tender together with your written acceptance thereof shall constitute a binding contract between us.

We have in force an annual insurance policy for our Public Liability to the value of (for any one accident, and the number of accidents is unlimited)	£
with	

We agree that this tender remains open for consideration for 12 weeks and understand you are not bound to accept the lowest or any tender you may receive.

Dated	
Signed	
Contractor	
Address	
Telephone	



THE CONTRACT SCHEDULE

(List of documents forming part of the contract)

- **The Agreement** (if any)
- **The Contractor's tender** (excluding any general or printed terms contained or referred to therein unless expressly agreed in writing to be incorporated in the Contract)
- **The Drawings.**

Drawing No	Revision	Title
22031-1-SL-51	B	Site Location Plan
22031-1-CB-300	B	Existing Site Plan
22031-1-CB-301	B	Existing Elevation and Section
22031-1-CB-400	B	Proposed Site Plan
22031-1-CB-401	B	Proposed Elevations, Section & Details

- The priced **Schedule of Works**
- The **Pre-Construction Information (PCI)**
- The Client Specification
- The following letters: (to be completed when Contract let)

From	To	Dated



INSTRUCTIONS TO TENDERERS

1. **Tenderers should refer also to Section A30 of the Contract Preliminaries**
2. The Contract does not allow for price fluctuations and the rates and prices will be fixed for the duration of the Contract. The Employer will be responsible for paying the Contractor the final account agreed and certified by the Contract Administrator on completion. Payment will be due from the Employer within 28 days of the date of the Contract Administrator's Certificate
3. You should return with your tender the following documents:
The Form of Tender
The priced Schedule of Work
4. **Tenders should be submitted to Tavistock Town Council by 12.00 PM on 09/03/2023** and any tenders received after this time will not be considered. Tenders must be sent by post in a plain envelope free from any identification of the name of the tenderer.
THE ENVELOPE SHOULD BE ENDORSED "CONFIDENTIAL - RIVER WALL TENDER"
5. Electronic copies of submitted reports should be available on request post the tender deadline.
6. Any queries that arise during the tender period will be dealt with by the Contract Administrator (CA): **Simon J Crabb BSc HONS MCIQB MCABEng (tel: 07549 702495)** or by email at Simon.Crabb@CrabbDMC.co.uk.
7. Tenders must be submitted strictly in accordance with the enclosed documents. Any amendments or qualifications made by the Contractor may result in the tender being rejected.
8. The Site may be visited during normal working hours during the tender period with reasonable prior notice. Arrangements for visiting the Site should be made with the Client: **Wayne Southall (tel: 01822 616134)** or by email at wayne.southall@tavistock.gov.uk.
9. If any tender is accepted a Form of Agreement will be signed by the Employer and Contractor based on the current edition of the JCT Agreement for Minor Building Works and both parties will be bound by the terms and conditions of that Agreement.
10. Tenderers are prohibited from contacting staff or councillors to canvass or encourage support for their tender outside of the prescribed process.

EMPLOYERS RESPONSIBILITY

1. The Employer is liable for paying the Contractor for the Works in accordance with the Agreement. Payment is due to the Contractor within **28 days** of the Contract Administrator's Certificate. **The Contractor will be entitled to interest on any outstanding amounts not paid by the due date for payment in accordance with the Contract Conditions.** The **Employer** is responsible for ensuring payments are made on time, by arranging private finance if necessary. Any indemnity offered by the Employer's Insurers does not relieve the Employer of the financial commitment for the Contract.
2. The Employer shall maintain adequate insurance for the existing buildings and contents during the Contract period.
3. The Employer shall hand over the Site on the agreed date and is to allow full and free access to The Contractor for the execution of the Works. Parking shall be vacated for the agreed period.
4. **The Employer is responsible for notifying residents in advance of the works and ensuring that there are no parked vehicles adjacent to the river wall at the time the contractor takes possession of the site.**



PRELIMINARIES

Project: Repair Works to Market Road River Wall
Address: Market Road, Tavistock, PL19 0AR
Reference: 22-031

**SECTION A
PRELIMINARIES**

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A10 PROJECT PARTICULARS

A10/110 THE PROJECT

Name: Repair Works to Market Road River Wall
Location: Market Road, Tavistock, PL19 0AR
Length of contract: TBC at contract award based on contractors programme

A10/120 EMPLOYER (CLIENT)

Company: Tavistock Town Council
Representative: Carl Hearn
Address: Tavistock Town Council Offices, Drake Road, Tavistock, Devon, PL19 0AU
Tel: 01822613529

A10/130 PRINCIPAL CONTRACTOR (CDM)

Name: The Contractor

A10/140 PERSON EMPOWERED BY THE CONTRACT TO ACT ON BEHALF OF THE EMPLOYER

Title: Contract Administrator (CA)
Name: Simon J Crabb BSc HONS MCIQB MCABEng
Address: Crabb DMC Ltd
 25 Pollards Close, Goonhavern, Truro, Cornwall TR4 9PZ
Tel: 07549 702495
Email: Simon.Crabb@CrabbDMC.co.uk

A10/150 PRINCIPAL DESIGNER

Name: Simon Crabb
Company: Crabb DMC
Tel: 07549 702495
Email: Simon.Crabb@CrabbDMC.co.uk

A11 TENDER AND CONTRACT DOCUMENTS

A11/110 TENDER DRAWINGS

The tender drawings are:

Drawing No	Revision	Title
22031-1-SL-51	B	Site Location Plan
22031-1-CB-300	B	Existing Site Plan
22031-1-CB-301	B	Existing Elevation and Section
22031-1-CB-400	B	Proposed Site Plan
22031-1-CB-401	B	Proposed Elevations, Section & Details

A11/120 CONTRACT DRAWINGS

The Contract Drawings: The same as the tender drawings.

A11/160 PRECONSTRUCTION INFORMATION

Pre-Construction Information (PCI) is provided in a separate document.

DOCUMENT REFERENCE: 22-031 PCI

Safety information is also presented in the Schedule of Works (SoW)
 Format: The Preconstruction information is also described in these preliminaries in Section A34. It refers to information given elsewhere in the preliminaries and other tender documents. Health & Safety Plans and method statements will be required as described in the PCI and these preliminaries.



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

Description: Market Road is a busy one-way road belonging to Tavistock Town Council, comprising a single active carriage width and roadside parking along the top of the riverbank retaining wall with the River Tavy below.

A12/140 EXISTING UTILITIES AND SERVICES

Description: Existing statutory services searches are included at **SoW Section D**. Locations of services are to be established prior to commencing works.

A12/180 HEALTH AND SAFETY FILE

Availability for inspection: Any H&S Files for the site/building are available on site in the office belonging to the Town Hall. The files can be viewed on request.

A12/200 ACCESS TO THE SITE

Description: The site is in the centre of Tavistock. Access is off the A386 via Duke Street. Partial and full road closures are required as part of the project. See **SoW B10/040**.

A12/210 PARKING

Restrictions on parking of the Contractor's and employees' vehicles:
 Minimum provision is available within the curtilage of the site some access routes must remain clear throughout the works; Parking on site is limited, parking is available in the public car park nearby, see PCI 2.6.

A12/220 USE OF THE SITE

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

A12/230 SURROUNDING LAND/BUILDING USES

General Adjacent or nearby uses or activities are as follows:

- Market Road in use by varied road traffic and pedestrians, road serves as artery for local businesses and market.
- The river Tavy may be in use by the public for water sport/fishing.

A12/240 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:

- Erection of temporary structure.
- Stability of existing structures.
- Working at height.
- Working adjacent to a watercourse.
- Flood Risk.
- Overlap with the public.
- Existing buried services.
- Handling and storage of materials.
- Working with products.
- Manual handling/lifting operations.
- Stability of scaffold.

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 attention of all personnel to the nature of any possible contamination and the need to take appropriate precautionary measures.

A12/250 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:

Contact: **Wayne Southall** tel: 01822 616134, email wayne.southall@tavistock.gov.uk.



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**SECTION A
PRELIMINARIES****£ p****A13 DESCRIPTION OF THE WORKS**

A13/120 THE WORKS

Description: The works involve:

- PREPARATORY WORKS AND PROTECTION
- REMEDIAL WORKS AT RIVER LEVEL
- REMEDIAL WORKS AT ROAD LEVEL
- WITHDRAWAL FROM SITE



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A20 JCT MINOR WORKS BUILDING CONTRACT (MW)

A20/360 JCT MINOR WORKS BUILDING CONTRACT

The Contract: JCT Minor Works Building Contract 2016 Edition.

Requirement: Allow for the obligations, liabilities and services described therein against the headings below:

Conditions	Schedules
1. Definitions and Interpretation	1 Arbitration
2. Carrying out the Works	2 Fluctuations Options
3. Control of the Works	3 Supplemental Provisions
4. Payment	
5. Injury, Damage and Insurance	
6. Termination	
7. Settlement of Disputes	

Particular Insertions And Deletions To Conditions of Contract

The following insertions and deletions will apply to the JCT Agreement:

CONTRACT PARTICULARS		
RECITALS		
First	The work comprises	Repair Works to Market Road River Wall at Market Road, Tavistock, PL19 0AR
Second	Carried out under the direction of	Contract Administrator. See section A10/140
	Contract Documents	As listed in the Contract Schedule
Third	Pricing Documents	Form of Tender & Priced Schedule of Work
Fourth	Construction Industry Scheme	The Employer is not a contractor for the purposes of the CIS
Fifth	CDM Regulations	The project is notifiable
Sixth	Framework Agreement	Not applicable
Seventh	Supplemental Provisions	Schedule 3 – The following provisions APPLY: 1 Collaborative Working 2 Health and Safety 3 Cost savings and value improvements 4 Sustainable & environmental considerations
ARTICLES		
3	The Contract Administrator	See section A10/140
4	Principal Designer	See section A10/150
5	Principal Contractor	See section A10/130
6	Disputes - Adjudication.	As JCTMW (2016) Clause 7.2
7	Disputes - Arbitration	Article 7 & Schedule 1 do not apply
THE CONDITIONS		
1.1	CDM Planning Period	To be confirmed from date of Contract Award
2.2	Commencement and Completion dates	As A10/110 TBC at contract award based on contractors programme. Earliest start on site 1st June 2023 Latest Completion 30th September 2023.
2.8	Liquidated damages	£4000.00 per month
2.10	Rectification period	12 Months from the date of practical completion
4.3	Percentage of total value of work	95% up to Practical Completion 97.5% at Practical Completion
4.8.1	Supply of documentation	Prior to date of practical completion
4.11 & Sch. 2	Contribution, levy, etc.	Deleted
5.3.2	Contractor's Insurance cover	£10,000,000
5.4	Insurance of the Works	Clause 5.4C together with 5.4A apply Property Owner insures building Contractor insures the Works
7.2	Nominator of Adjudicator	President, Vice-President or chairman of RICS



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

A30/110 SCOPE

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

A30/145 TENDERING PROCEDURE

General: In accordance with the principles of the "Code of Procedure for Single Stage Selective Tendering.

Arithmetical errors: Overall price is dominant.

A30/160 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.

A30/170 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.

A30/250 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.

A30/310 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.

A30/320 THE PRICED SCHEDULE OF WORKS

Content: Alterations and qualifications to the schedule of works (SoW) or specification must not be made without the written consent of the CA. Tenders containing unauthorised alterations or qualifications may be rejected. Costs relating to items in the schedule of work which are not priced will be deemed to have been included elsewhere in the tender.

Submit: With tender.

A30/500 TENDER STAGE METHOD STATEMENTS

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

- **Procedures for design and erection of temporary in River structure.**
- **Procedures for managing Flood Risk.**
- **Procedures for managing and maintaining the stability of existing structures – particularly the existing voided river bank wall and roadway.**
- **Proposals for safely working at height.**
- **Procedures for working adjacent to a watercourse.**
- **Process/procedures for managing the interface with residents, public and site visitors; to include allowance for controlling transport of materials to and from the site and maintaining safe access and egress to and from the building.**
- **Managing restricted site access i.e. delivery and storage of materials.**
- **Proposals to include sequence of works for lifting/moving materials to and from the workforce.**
- **Procedures for managing excavations and location of existing buried services.**



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- **Procedures for managing storage of materials – in particular without surcharging riverbank wall and given restricted access.**
- **Procedures for safe working with products that may contain Substances Hazardous to Health.**
- **Procedures for controlling/minimising manual handling and controlling lifting operations i.e. LOLER.**
- **Proposals for safe erection, maintenance and dismantling of scaffold.**

Submit: with tender – failure to submit may result in tenders being considered inadmissible.

A30/530 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.

A30/550 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: The successful tenderer will be required to submit an acceptable Construction Phase Health & Safety Plan prior to construction.

A30/570 OUTLINE CONSTRUCTION PHASE HEALTH & 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.



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A30/590 SITE WASTE MANAGEMENT PLAN

Person responsible for developing the Plan: The Contractor.

Content: Include details of:

- Principal Contractor for the purposes of the regulations.
- 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.

Submit: Within one week of request

A31 PROVISION, CONTENT AND USE OF DOCUMENTS**DEFINITIONS AND INTERPRETATIONS****A31/110 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.

A31/120 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 person named in A10/140 unless specified otherwise.

Response: Do not proceed until response has been received.

A31/130 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.

A31/135 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.

A31/140 DRAWINGS

Definitions: To BSRIA BG 6/2009 A design framework for building services. Design activities and drawing definitions.

CAD data: In accordance with BS 1192.

A31/155 SUBMIT PROPOSALS

Meaning: Submit information in response to specified requirements.



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A31/160 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: Unload, handle, store, place and fasten in position including all labours and use of site equipment.

Supply and fix: Includes all labour and site equipment for unloading, handling, storing & execution. All products to be supplied & fixed unless stated otherwise.

Keep for reuse: Do not damage designated products or work. Clean off bedding/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.

A31/170 MANUFACTURER AND PRODUCT REFERENCE

Definition: When used in this combination:

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

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

A31/200 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.



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A31/210 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.

A31/220 REFERENCED DOCUMENTS

Conflicts: Specification prevails over referenced documents.

A31/230 EQUIVALENT PRODUCTS

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

A31/250 CURRENCY OF DOCUMENTS

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

A31/260 SIZES

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

Timber: Cross section dimensions shown on drawings are:

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

DOCUMENTS PROVIDED ON BEHALF OF EMPLOYER**A31/410 ADDITIONAL COPIES OF DRAWINGS/ DOCUMENTS**

Copies: PDF of each contract drawing and contract document will be issued free of charge (not counting any certified copies).

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

A31/440 DIMENSIONS

Scaled dimensions: Do not rely on.

A31/450 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.

A31/460 THE SPECIFICATION

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

A31/470 DIVERGENCE FROM THE STATUTORY REQUIREMENTS

Divergence: Between the drawings or specification and the requirements of the Building Regulations, other Statutes, statutory undertakers and other regulatory authorities.

Action: Inform immediately.

DOCUMENTS PROVIDED BY CONTRACTOR/ SUBCONTRACTORS/ SUPPLIERS**A31/640 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 the Health & Safety File.

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



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A32 MANAGEMENT OF THE WORKS**GENERALLY****A32/110 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.

A32/120 INSURANCE

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

A32/130 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.

A32/140 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.
- Daily wind speed.
- Daily rainfall.

A32/150 OWNERSHIP

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

PROGRAMME/ PROGRESS**A32/210 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.
- FRAP application period.
- Road closure planning period.
- Planned road closures.
- Period cofferdam is required in river.
- 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.
- Projected completion date

Submit: Digitally to the Clients Agent.

Review: Minimum Fortnightly whilst works are on site.

A32/250 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.

A32/255 NOTIFICATION OF COMPENSATION EVENT

Content: Notwithstanding the Contractor's obligations under the Contract, written notice must also be given of all other causes which apply concurrently.



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A32/290 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): 2 weeks.

A32/310 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**A32/420 REMOVAL/ REPLACEMENT OF EXISTING WORK**

Extent and location: Agree before commencement.

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

A32/430 PROPOSED INSTRUCTIONS

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

A32/440 MEASUREMENT

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

A32/450 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 authorized.
- 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.

A32/460 INTERIM VALUATIONS

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

Submission: At least seven days before established dates.

A32/470 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.

A32/475 PRODUCTS STORED OFF SITE

Evidence of Title: Submit reasonable proof that the property in items stored off site to be included in valuations is vested in the Contractor.

Include for products purchased from a supplier:

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

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



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

A33 QUALITY STANDARDS/ CONTROL**STANDARDS OF PRODUCTS AND EXECUTIONS****A33/110 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.

A33/120 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.

A33/130 QUALITY OF PRODUCTS

Generally: New. (Proposals for recycled products may be considered).

Supply of each product: From the same source or manufacturer.

Whole quantity of each product required to complete the Works: Consistent in kind, size, quality and overall appearance.

Tolerances: Where critical, measure a sufficient quantity to determine compliance.

Deterioration: Prevent. Order in suitable quantities to a programme and use in appropriate sequence.

A33/135 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.

A33/140 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.



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A33/150 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.

A33/160 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.

A33/170 MANUFACTURER'S RECOMMENDATIONS/ INSTRUCTIONS

General: Comply with manufacturer's printed recommendations and instructions current on the date of the Invitation to tender.

Changes to recommendations or instructions: Submit details.

Ancillary products and accessories: Use those supplied or recommended by main product manufacturer.

Agreement certified products: Comply with limitations, recommendations and requirements of relevant valid certificates.

A33/180 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**A33/210 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.

A33/220 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.

A33/230 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.



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ACCURACY/ SETTING OUT GENERALLY**A33/320 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.

A33/330 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.

SERVICES GENERALLY**A33/410 SERVICES REGULATIONS**

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

A33/420 WATER REGULATIONS/ BYELAWS NOTIFICATION

Requirements: Notify Water Undertaker of 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.

A33/430 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.

Certificate location: Health & Safety File.

A33/435 ELECTRICAL INSTALLATION CERTIFICATE

Submit: When relevant electrical work is completed.

Original certificate: To be lodged in the Health & Safety File.

A33/445 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.

SUPERVISION/ INSPECTION/ DEFECTIVE WORK**A33/525 ACCESS**

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

A33/530 OVERTIME WORKING

Notice: Prior to overtime being worked, submit details of times, types and locations of work to be done.

- Minimum period of notice: 1 week.



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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.

A33/540 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.

A33/610 PROPOSALS FOR RECTIFICATION OF DEFECTIVE PRODUCTS/ EXECUTIONS

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

Acceptability: Such proposals may be unacceptable and contrary instructions may be issued.

WORK AT OR AFTER COMPLETION**A33/710 WORK BEFORE COMPLETION**

General: Make good all damage consequent upon the Works.

- Temporary markings, coverings and protective wrappings: Remove unless otherwise instructed.
- Arrange inspection by CA prior to removal of any access scaffolds.

Cleaning: Clean the Works thoroughly inside and out, including all accessible ducts and voids. Remove all splashes, deposits, efflorescence, rubbish and surplus materials.

Cleaning materials and methods: As recommended by manufacturers of products being cleaned, and must not damage or disfigure other materials or construction.

COSHH dated data sheets: Obtain for all materials used for cleaning and ensure they are used only as recommended by their 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.

A33/720 SECURITY AT COMPLETION

General: Leave the Works secure with, where appropriate, all accesses closed and locked.

Keys: Account for and adequately label all keys and hand over to Employer with itemised schedule, retaining duplicate schedule signed by Employer as a receipt.

A33/730 MAKING GOOD DEFECTS

Remedial work: Arrange access with the Employer .

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

Completion: Notify when remedial works have been completed.



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A34 SECURITY/ SAFETY/ PROTECTION**SECURITY, HEALTH AND SAFETY**

A34/110 PRECONSTRUCTION INFORMATION

Location: **Integral with the project Preliminaries, including but not restricted to the following sections:**

- **Description of project:** Sections A10 and A11.
- **Client's consideration and management requirements:** Sections A12, A13 and A36.
- **Environmental restrictions and on-site risks:** Section A12, A35 and A34.
- **Significant design and construction hazards:** Section A34.
- **The Health and Safety File:** Section A37.

A34/120 EXECUTION HAZARDS

Common hazards: Not listed. Control by good management and site practice.
 Significant hazards: The design of the project includes the following:

Hazard: Erection of a temporary in river structure (cofferdam)

Precautions assumed:

- Design by chartered engineer and competent temporary works designers/coordinators.
- Design specified to comply with BS 5975.
- Flood risk to be managed as B10/090

Requirement:

Provide RAMS to clarify arrangements and precautions to be taken, and sequence of proposed activities B10/090, B20/030, FRAP Process and BS 5975.

Hazard: Stability of existing structures – Existing River Wall and Roadway

Precautions assumed:

- Section of road above void will not be surcharged by construction loading.
- Voided section of wall will be propped Acrows or equivalent temporary support provided.
- Partial removal of riverbank wall will be done with 45 degree steps in stonework through height of wall to be removed.

Requirement:

Provide RAMS to clarify arrangements and precautions to be taken, and sequence of proposed activities, see B20/010 and B40/030

Hazard: Working at height

Precautions assumed:

- Riverbank wall to be retained as guarding, once section removed temporary rails/scaffold to be provided.
- Scaffold to be fully netted with safety/guarding rails.
- Scaffold to be regularly inspected.
- Remainder of site to be fenced and physically secured to prevent unauthorised access.

References: **B20/040 and B40/030**

Hazard: Working adjacent to and within watercourse - Flood risk

Precautions assumed:

- Work will be suspended during high flows.
- Ensure operatives are suitably protected – note that the watercourse can be considerably higher in flood conditions. Flood warning information service and site water levels and weather to be monitored.
- All operative in river to wear life jackets.
- Emergency water rescue procedure to be established.

Requirement:



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Provide RAMS to clarify arrangements and precautions to be taken for protecting operatives working within and near the river. See B10/090.

Hazard: **Interface with site users and the public:
Personal injury, Deliveries to/from site, Nuisance**

Precautions assumed:

- Temporary road closures will be in place.
- The site and compound to be demarcated and guarded by suitable barriers/fencing/signage;
- Site rules and procedures will be established, access routes will be identified and maintained, storage and compound areas will be identified, guarding of the site from adjacent features will need to be considered and will need to be assessed in the Risk Assessments and Method Statements (RAMS);
- Parking to be established off site;
- Client access to be coordinated with and controlled by Principal Contractor;
- Deliveries or collection of materials will be carried out by vehicles of a suitable size for the existing access.
- Access to the parking and working area will be arranged to minimise public disruption and hazard to road users.

Requirement:

Provide RAMS to clarify arrangements and precautions to be taken, and sequence of proposed activities. Provide Method Statements to clarify arrangements and precautions to be taken for managing delivery and collection vehicles on site and guarding and protecting working areas. See A12/110, A12/200, A12/230, A30/500, A34/150, A34/170, A34/330 and B10/040

Hazard: **Off-loading, storage and movement of materials. Manual handling / lifting operations**

Precautions assumed:

- Proposals for storage of materials on site to be identified.
- Proposals for offloading of deliveries and traffic/pedestrian management to be identified.
- Material weights to be identified.
- Material to be moved by machine wherever possible.
- Lifting plan to be developed in accordance with LOLER.

Requirement:

Provide RAMS to clarify arrangements and precautions to be taken. See A12/110, A12/200, A12/230, A30/500, A34/160, A34/170, A34/360

Hazard: **Existing Services -
Electrocution/Explosion/Flooding/Scalding**

Precautions assumed:

- Services searches completed and included at Section D of the schedule of works, documents will be made available to the site team.
- Services to lighting columns and street cabinets exist on site and **are not shown** on statutory services search drawings. Services to be cat scanned and marked in advance of works.
- Services will be traced and located in advance of the works.
- Excavations adjacent to services will be by hand.
- Measures will be taken to ensure safe isolation of services, and prevent unauthorised reconnection/recharging.
- Known overhead services will be marked.

Requirement:

Provide RAMS to clarify arrangements and precautions to be taken, CAT Scan and mark services in areas of prior to breaking ground. Mark overhead cables.



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Hazard: Working with Chemicals

Precautions assumed:

- COSHH Data will be available and communicated on site.
- PPE will be worn.
- COSHH Store will be provided.
- Eye and hand wash facilities will be available on site.

Requirement:

Provide RAMS to clarify arrangements and precautions to be taken, See A33/710.

Hazard: Scaffolding. Stability of temporary structure. Falls from height, falling materials.

Precautions assumed:

- Scaffold will be designed by competent designer.
- Scaffold will be designed and secured to resist river flows.
- Guidance in NASC SG4:15 Preventing falls in scaffolding operations to be followed during erection and dismantling of scaffold.
- Max occupation and material loads to be identified.
- Maximum safe working wind speed for scaffold to be identified.
- Access to the scaffold to be secured at all times.
- Consideration to be given to movement of materials on the scaffold i.e. materials lift to be installed and form part of the scaffold design.
- Scaffold to be fully netted at first floor level and above prior to commencement of the works and netting maintained until completion.
- Toe boards and guardrails as standard.

Requirement:

Risk Assessment and Method Statement to be developed, see A12/110, A12/200, A12/230, A30/500, A34/160, A34/170, A34/360 and B20/040.

A34/140 CONSTRUCTION PHASE HEALTH AND SAFETY PLAN

Submission: Present to the Employer Client no later than 1 week before commencement.

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 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.

A34/150 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.

A34/160 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.

A34/210 EMPLOYER'S REPRESENTATIVES SITE VISITS

Safety: Submit details in advance, to the Employer or the person identified in clause A10/140, of safety provisions and procedures (including those relating to materials, which may be deleterious), which will require their compliance when visiting the site.

Protective clothing and/ or equipment: Provide and maintain on site for the Employer and the person stated in clause A10/140 and other visitors to the site.

PROTECT AGAINST THE FOLLOWING

A34/330 NOISE CONTROL



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Standard: Comply with the recommendations of BS 5228-1, in particular clause 7.3, to minimize noise levels during the execution of the Works.

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:

- Pneumatic drills and other noisy appliances without consent.
- Radios or other audio equipment or permit employees to use in ways or at times that may cause nuisance. Such equipment is not to be used outside, or inside where noise can carry.

A34/340 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.

Maintain biosecurity in respect of invasive species transported to/from site.

A34/350 PESTICIDES

Use: Not permitted.

A34/360 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.

A34/370 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.

A34/371 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.

A34/375 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.

A34/380 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 the Construction Confederation and The Fire Protection Association (The 'Joint Fire Code').

A34/390 SMOKING ON SITE

Smoking on site: Not permitted, to include vaping.

A34/400 BURNING ON SITE

Burning on site: Not permitted.

A34/430 WASTE

Includes: Rubbish, debris, spoil, containers and surplus material.

Minimize: Keep the site and Works clean and tidy.

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.



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Voids and cavities in the construction: Remove rubbish, dirt and residues before closing in.

Waste transfer documentation: Retain on site.

A34/470 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.

Duty: Report immediately any suspected species discovered during execution of the Works.

- Do not disturb.
- Agree methods for safe eradication or removal.

PROTECT THE FOLLOWING**A34/510 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 mains/ 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.

A34/520 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.

A34/530 EXISTING TOPSOIL/ SUBSOIL

Duty: Prevent over compaction of existing topsoil and subsoil in those areas which may be damaged by construction traffic, parking of vehicles, temporary site accommodation or storage of materials and which will require reinstatement prior to completion of the Works.

Protection: Before starting work submit proposals for protective measures.

A34/540 RETAINED TREES/ SHRUBS/ GRASSED AREAS

Protection: Preserve and prevent damage, except those not required.

Replacement: Mature trees and shrubs if uprooted, destroyed, or damaged beyond reasonable chance of survival in their original shape, as a consequence of the Contractor's negligence, must be replaced with those of a similar type and age at the Contractor's expense.

A34/560 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.



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A34/570 EXISTING WORK

Protection: Prevent damage to existing work, structure or other property during the course of the work.

Removal: Minimum amount necessary.

Replacement work: To match existing.

A34/580 BUILDING INTERIORS

Protection: Prevent damage from exposure to the environment, including weather, flora, fauna, and other causes of material degradation during the course of the work.

A34/600 EXISTING FURNITURE, FITTINGS AND EQUIPMENT

Protection: Prevent damage or move as necessary any remaining fixtures and fittings to enable the Works to be executed. Reinstate in original positions.

Extent: Limited – contents should be removed prior to works.

A34/630 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.

A34/640 MATERIALS FOR RECYCLING/ REUSE

Duty: Sort and prevent damage to stated products or materials, clean off bedding and jointing materials and other contaminants.

Storage: Stack neatly and protect until required by the Employer or for use in the Works as instructed.

A35 SPECIFIC LIMITATIONS ON METHOD/ SEQUENCE/ TIMING**A35/130 METHOD/ SEQUENCE OF WORK**

Specific Limitations: Generally to suit the programme and method of working proposed, taking account of the need to co-ordinate the works of subcontractors and others employed direct.

See SoW B40/010.

Method statements, developed from the tender stage method statements where requested, must be submitted within one week of request describing how and when the Contractor proposes and undertakes to carry out the works. These method statements will then be included in the Construction Phase Health And Safety Plan (A34/140).

A35/170 WORKING HOURS

Specific limitations: Obtain prior permission from CA to any desired working outside normal working hours of 0800-1730 Monday to Friday.

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

Location: Give notice of intended siting.

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

ACCOMMODATION**A36/230 TEMPORARY ACCOMMODATION**

Proposals for temporary accommodation and storage for the Works: Submit two weeks prior to starting on site.



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Details to be included: Type of accommodation and storage, its siting and the programme for site installation and removal.

SERVICES AND FACILITIES

A36/420 A36/420 LIGHTING AND POWER

A36/420 LIGHTING AND POWER

Supply: A site supply is not available.

Allow for temporary supply/generation

Make arrangements for distribution around site

Continuity: The Employer will not be responsible for the consequences of failure or restriction in supply.

A36/430 WATER

Supply: A site supply is not available.

Source: Make arrangements for providing water from a bowser.

Continuity: The Employer will not be responsible for the consequences of failure or restriction in supply.

A36/440 TELEPHONES

Direct communication: As soon as practicable after the Date of Possession provide the Contractor's person in charge with a mobile telephone, and if reception is poor or inadequate ensure that alternative arrangements are effected to ensure any necessary contact with emergency services is facilitated.

Do not allow lone working on site.

A36/540 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.

A36/550 THERMOMETERS

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

A36/570 PERSONAL PROTECTIVE EQUIPMENT

General: Provide for the sole use of those acting on behalf of the Employer, in sizes to be specified:

- Safety helmets to BS EN 397, neither damaged nor time expired.
- High visibility waistcoats to BS EN 471 Class 2.
- Safety boots with steel insole and toecap to BS EN ISO 20345.

Disposable respirators to BS EN 149.FFP1S.

- Eye protection to BS EN 166.
- Ear protection - muffs to BS EN 352 - 1, plugs to BS EN 352 - 2.
- Hand protection - to BS EN 388, 407, 420 or 511 as appropriate.

A37 OPERATION/ MAINTENANCE OF THE FINISHED WORKS**GENERALLY**

A37/110 THE HEALTH & SAFETY FILE

Responsibility: Principal Contractor

Content: As A37/155 and **PCI Section 5:**

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 finishing Works, so affording a complete understanding of the Works, including all buildings and their systems to enable efficient and safe operation and maintenance.

Number of copies: 2 number hard copies 1 number full scanned PDF copy collated into a single digital file.

Delivery to: CA Prior to practical completion.



PRELIMINARIES

Project: Repair Works to Market Road River Wall
Address: Market Road, Tavistock, PL19 0AR
Reference: 22-031

**SECTION A
PRELIMINARIES**

£ p

NOTE: Practical completion will not be certified until the Health & Safety File has been presented, reviewed and accepted by the CA.

A37/155 CONTENT OF THE HEALTH & SAFETY FILE

General: Details of the facility, the parties, operational requirements and constraints of a general nature.

Documentation:

- Design drawings and tender documentation
- Preliminary Ecological Appraisal.
- Construction Phase Plan.
- FRAP Documentation – application and consent details.
- Temporary Works design details.
- RAMS for the projects.
- Construction Environmental Plan
- Water Quality Monitoring logs
- As Built Drawings
- Product Information, Guarantees, warranties, maintenance agreements, test certificates and reports.

A37/160 PRESENTATION OF HEALTH & SAFETY FILE

Format: Provide in two formats:

- **Hard Copy:** 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.
- Complete electronic copy in PDF format



PRELIMINARIES

Project: Repair Works to Market Road River Wall
Address: Market Road, Tavistock, PL19 0AR
Reference: 22-031

**SECTION A
PRELIMINARIES**

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A40 CONTRACTOR'S GENERAL COST ITEMS: MANAGEMENT AND STAFF

A40/110 MANAGEMENT AND STAFF

A41 CONTRACTOR'S GENERAL COST ITEMS: SITE ACCOMMODATION

A41/110 SITE ACCOMMODATION SEE SECTION A36

A42 CONTRACTOR'S GENERAL COST ITEMS: SERVICES AND FACILITIES

A42/110 SERVICES AND FACILITIES SEE SECTION A36

A43 CONTRACTOR'S GENERAL COST ITEMS: MECHANICAL PLANT

A43/110 MECHANICAL PLANT

A44 CONTRACTOR'S GENERAL COST ITEMS: TEMPORARY WORKS

A44/110 TEMPORARY WORKS SEE SECTION A36

A53 WORK BY STATUTORY AUTHORITIES/UNDERTAKERS

A53/110 WORK BY LOCAL AUTHORITY

Item: Building Control Inspections

Description of work: Payment of the Local Authority inspection fees will be made by the Employer.

Make allowance elsewhere for liaison with the Local Authority and notification of inspections. On completion the Contractor shall obtain the Building Control Completion Certificate.

Include Provisional Sum for Building Regulations Inspection Fee**£2,000.00**

Allow for general attendance.

Carry forward all provisional and contingency sums to tender summary.**A54 PROVISIONAL WORK/ITEMS**

A54/590 CONTINGENCIES

Include a Contingency Sum to be expended only by instructions from the CA
 Contractor to identify contingency sum based on total for tender. Contingency identified to be total for tender plus 10%.

Contingencies based on 10% of tender sum**£**

Carry forward all provisional and contingency sums to tender summary.



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B10 GENERALLY

B10/010 PREAMBLE:

Market Road provides one-way access to the rear of Tavistock Pannier Market and other businesses. it also provides parking adjacent to the river wall.

The retaining wall forms the boundary between Market Road and the River Tavy and is a c.4m high natural stone masonry retaining wall; atop the wall there is parking and a single lane of active traffic.

Market Road belongs to Tavistock Town Council and provides access for pedestrians and vehicles to the town and local businesses.

This project details the necessary repairs to a void in the wall at river level which extends through the face of the wall underneath the road. Consequently, works are required at river and road levels to repair the void.

HAZARD: A section of the road has been fenced off to prevent surcharging and/or loading of the road above due to the presence of the void below.

B10/020 THE WORKS:

The work requires repairs to the existing river wall flanking Market Road, Tavistock. The work includes the following:

- **PREPARATORY WORKS AND PROTECTION**
- **REMEDIAL WORKS AT RIVER LEVEL**
- **REMEDIAL WORKS AT ROAD LEVEL**
- **WITHDRAWAL FROM SITE**

Prior to commencement:

Take full record details and photographs of site and other adjacent features to assist in determining any defect reinstatement requirements.

THE FOLLOWING ITEMS DESCRIBE THE MAIN ITEMS OF WORK TO BE CARRIED OUT. ALLOW FOR ALL WORKS NECESSARY TO SATISFACTORILY COMPLETE THE WORKS.

B10/030 COMPLIANCE WITH CDM REGULATIONS:

Allow for complying with the CDM Regulations, including the preparation of Construction Phase Plan & providing on site Welfare Facilities.



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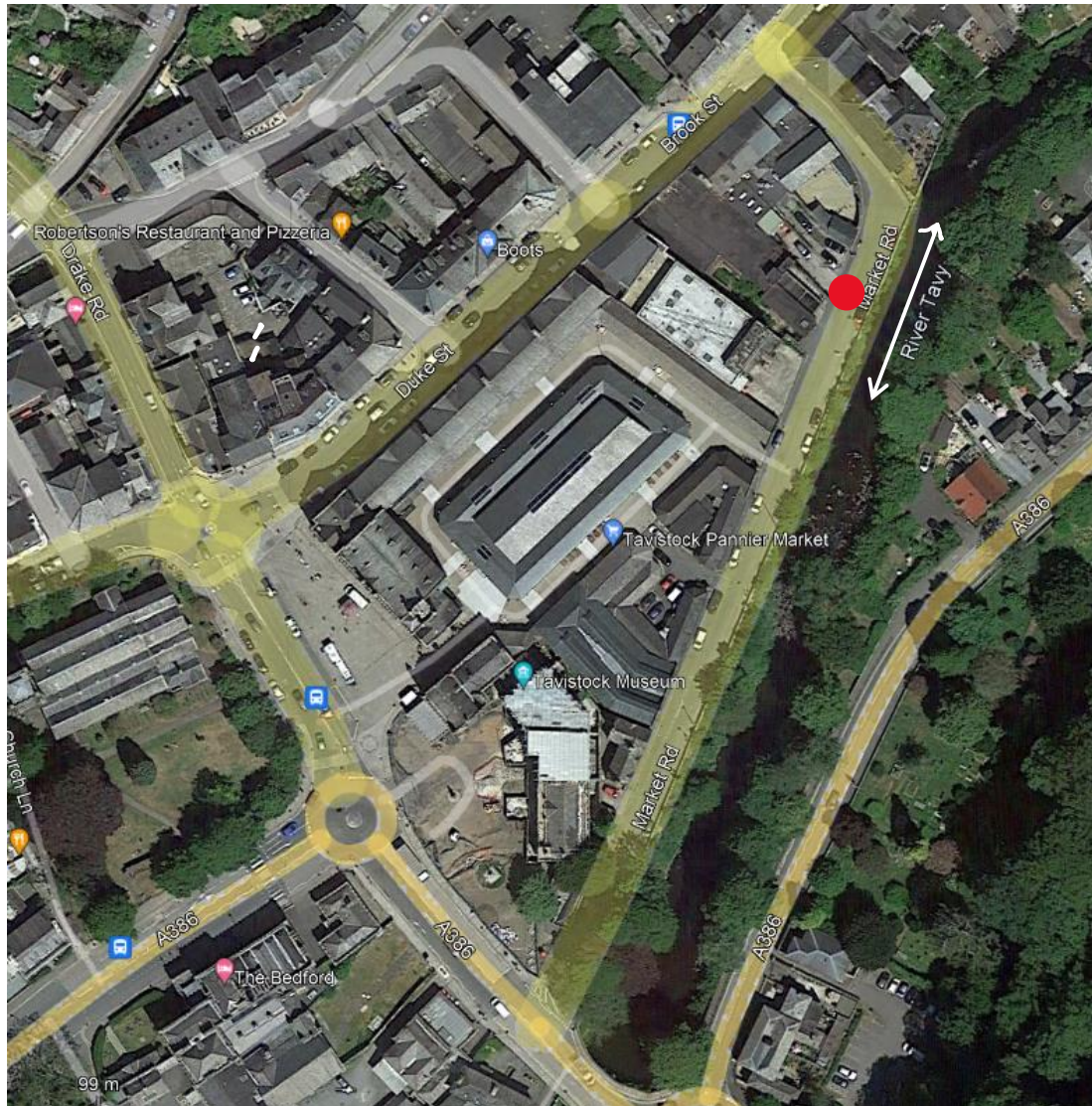
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B10/040 ACCESS TO SITE:

Drawing 22-031-1-SL-51

The site is in the centre of Tavistock. Access to Market Road is one way off the A386 via Duke Street.

A satellite image of the site is included below, the red mark indicates the approximate location of the works:



The image above shows Tavistock Town centre, Market Road and the River Tavy, the approximate extent of the river wall requiring repair is shown show the

The following photos are included to show the site:



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Market Road looking south at north end of site.



Market Road looking south.



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Market Road looking north towards the site.



Market Road looking north towards the site.



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Market Road at Junction with A386.

The contractor will be required to arrange closure of Market Road to facilitate the works.

Market Road will need to be fully closed to allow the installation and removal of the cofferdam and temporary closures will be required from Devon County Council. To complete this task, Devon County Council will need to be given prior notice of the temporary closure, submit programme (A32/210) identifying minimum number and period of road closures necessary to complete the works.

It is expected that the road will be partially reopened to provide access to businesses whilst the temporary cofferdam is in place. The current parking area adjacent to the river wall will remain shut and in use as a contractor's compound and laydown area.

Notice of planned full road closures will be provided to Tavistock Town Council a minimum of 14 days in advance, the Town Council will advertise the planned road closures.

Consideration must be given to enabling and maintaining a safe means of access for the works, and for delivery of materials and removal of arisings.

Submit a tender stage method statement confirming proposals for access, following a tender stage inspection to ascertain site conditions.

Allow for the provision of site facilities and for the safe storage of materials/equipment/demolitions. Allow to secure and prevent unauthorised access to the site. Allow for the hire and location of skips, to include the removal of all debris from site.

Allow for all costs associated with installing signage, fencing barriers and traffic/pedestrian control as necessary. Put forward proposals for a contractor's compound and coordinate with road closure of Market Road.

Allow for all costs associated with making applications for the road closures of Market Road to facilitate access to the site.

Allow for providing notice to all resident businesses and Town Council.

Apply for necessary statutory closures, show associated timescales on tender stage programme.



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Allow for all costs associated with the supply, installation, and maintenance of a signage, establishing diversions, barriers etc required to safely manage the planned road closure.

Identify number and period of planned road closures on tender stage programme i.e., total period of disruption.

On contract award adjust programme to reflect dates including allowance for applications for closure and timescales to obtain approval.

Work with market traders and occupants of Butchers Hall as identified at PCI section 3.1.

Allow for providing safe access to river level from Market Road level.

Submit costs with tender against Item B10/040.

B10/050 FLOOD RISK ACTIVITY PERMIT (FRAP)

The contractor shall be required to apply for an obtain a Flood Risk Activities Permit (FRAP) in advance of the works. The Environment Agency can take up to 16 weeks to process and approve the application. This critical activity shall be shown on the contract programme (A32/210).

The contractor shall complete the application submitting as a minimum:

- Form EPA: Application for an environmental permit – Part A about you
- Form EPB: Application for an environmental permit – Part B10 Flood Risk Activities.
- Form EPF: Application for an environmental permit – Part F3 Charging for Flood Risk Activities and declarations
- Risk assessment and method statements for the FRAP.
- A Construction Environmental Management Plan (CEMP).
- A site layout plan.
- Details of the cofferdam and temporary works design.

The Principal Contractor shall undertake the FRAP application process to gain approval for the cofferdam and access scaffold and working method.

The contractor shall allow for all costs associated with applying for and obtaining the FRAP.

B10/060 WATER QUALITY MONITORING:

The contractor shall develop an environmental plan to include monitoring for silt disturbance. To provide confidence that silt curtains are operating correctly the contractor shall employ a Water Quality Officer (WQO) to provide water quality monitoring on site to monitor Dissolved Oxygen (DO) content and temperature downstream and watch for fish stress. The WQO shall call work to halt if required while DO levels recover.

Water quality downstream should not exceed Temp, 16 - 18 deg C and contain a minimum dissolved Oxygen content of DO 5mg/l.

Water quality test logs shall be collated daily and shared at the end of the working day with the CA by email, logs shall be included in the Health & Safety file on completion of the project.

Submit details, name, qualification, and experience of WQO with tender for evaluation, tenders without detail will be considered inadmissible.



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B10/070 ENVIRONMENTAL CLERK OF WORKS (ECOW):

The contractor shall employ and provide an Environmental Clerk of Works (ECoW) for the project, the ECoW shall complete site checks for wildlife in accordance with the CEMP and in advance of the works and confirm it is acceptable to commence work. The Preliminary Ecological appraisal will form part of the CEMP.

Submit details, name, qualification, and experience of ECoW with tender for evaluation, tenders without detail will be considered inadmissible.

B10/080 FISH RESCUE

The contractor will provide fish rescue during all operations to pump down the cofferdam. Fish shall be either netted and transferred to the main River body, alternatively electrofishing may be used in conjunction with nets.

Submit details, name, qualification, and experience of fish rescue team with tender for evaluation, tenders without detail will be considered inadmissible.

B10/090 WATER LEVEL MONITORING

Drawings 22-031-1-CB-300 & 22-031-1-CB-301

HAZARD: The Tavy has a reputation as being one of England's fastest flowing rivers. Over the 28km from the source to the tidal limit at Lopwell it drops over 560m at an average gradient of 15.9m/km. As the catchment is impermeable with granite and slate the groundwater store is small. This, in conjunction with the steep topography, means that floods are characterised by a rapid rise and fall in water level.

As part of the FRAP Process the site shall be added to the EAs "High Risks Sites Log" the Flood Incident Duty Officer (FIDO) will contact the Site Manager should a flood warning be identified.

A responsible person shall also be identified and named by the contractor to monitor water levels within the river.

The contractor shall identify the responsible person prior to commencement of the works. It is anticipated that this will be the Site Manager.

Data on water levels for the last 5 days is available at: <https://check-for-flooding.service.gov.uk/target-area/114FWF1I6AA00>

The National River Flow Archive provides live data, and historic data on flow rates at: <https://nrfa.ceh.ac.uk/data/station/liveData/47024>

It is expected that the Site Manager will sign up to the Environment Agency flood warning system at <https://www.gov.uk/sign-up-for-flood-warnings>. The information informs the actions taken by the contractor as identified in the following table which, where blank, shall be completed by the contractor in advance of commencement of the works:

Alert Level	Definition	Action	Responsibility
Flooding Alert	Flooding is possible be prepared		Site Manager
Flood Warnings	Flooding is expected – immediate action required		Site Manager
Sever Flood Warning	Severe flooding danger to life	Work called off in advance i.e. before flood event.	Site Manager



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		Site closed, vacated, and secured	
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In addition to flood alerts the Site Manager will also be required to sign up to the Met Office weather warning system at: <https://www.metoffice.gov.uk/public/weather/warnings> The information inform the actions taken by the contractor as identified in the following table which, where blank, shall be completed by the contractor in advance of commencement of the works:

Alert Level	Definition	Action	Responsibility
Yellow: Be Aware	Yellow warnings can be issued for a range of weather situations. Many are issued when it is likely that the weather will cause some low-level impacts, including some disruption to travel in a few places. Other yellow warnings are issued when the weather could bring much more severe impacts to many people but the certainty of those impacts occurring is much lower. It is important to read the content of yellow warnings to determine which weather situation is being covered by the yellow warning		Site Manager
Amber: Be Prepared	There is an increased likelihood of impacts from severe weather, which could potentially disrupt your works plans. This means there is the possibility of travel delays, road and rail closures, power		Site Manager



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	cuts and the potential risk to life and property.		
Red: Take Action	Dangerous weather is expected and, if you have not already done so, you should act now to keep yourself and your works force safe from the impact of the severe weather. It is very likely that there will be a risk to life, with substantial disruption to travel, energy supplies and possibly widespread. You should avoid travelling, where possible, and follow the advice of the emergency services and local authorities.	Work called off in advance I.e. before red weather warning Site closed, vacated, and secured	Site Manager

Work will not be permitted i.e. the in River works at the site will be abandoned when the water level is expected to rise above [Q70 78.346 mAOD](#).

B10/0100 DISPOSAL OF ARISINGS:

Allow removing of all associated waste and debris from site. Dispose of all recyclable material at an appropriate facility. Dispose of all other arisings off site at licensed tip. Allow for paying all charges, log all waste transfer notes and include in Health and Safety File.

Note as a minimum Himalayan Balsam (invasive species) is known to exist on site and in the location of the works, costs should allow for its removal and disposal.

B10/0110 HANDOVER PROCESS & HEALTH & SAFETY FILE:

Prepare and issue the Health & Safety File in full accordance with the PCI and Preliminaries A37, presenting the data in the prescribed format, including the provision of all necessary certification.

Ensure that adequate resources are devoted to this critical activity, allow for all costs associated with this aspect of the Works, for giving timely notice to the CA to ensure attendance at commissioning and testing, and for training, explaining, demonstrating to Client the purpose, function and operation of the installations.

As-Built drawings will be required by Tavistock Town Council.

THE WORKS WILL NOT BE DEEMED COMPLETE UNTIL THE HEALTH & SAFETY FILE HAS BEEN APPROVED AND ISSUED, WHICH MAY DELAY PAYMENT.



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B10/0120 DEFECTS LIABILITY PERIOD:

Ensure due allowance is made for attending in a timely manner to any defects that occur during the **12-month Defects Liability Period**, in accordance with the conditions of contract.

B10/0130 PREVENTION OF POLLUTION

All construction work activities and temporary works shall comply with EA SHEW CoP, a copy of the document is available at the following link: https://www.ada.org.uk/wp-content/uploads/2018/08/EA_Constructing_a_Better_Environment-May_2018.pdf

Contractors must engage with local Environment Agency Environment Officers to make use of their local knowledge and expertise in planning and undertaking works in or near to water bodies, including watercourses, marine, estuaries, boreholes, groundwater, reservoirs, etc.

Before starting works, contractors must ensure site drainage, pathways, watercourses and groundwater source protection zones have been identified. This information, together with site specific measures to prevent spread of pollution, must be included in the site environmental emergency plan or site pack, (following Environment Agency Pollution Prevention Guidance Note 21). This will include actions to be taken in the event of silt, concrete and other chemical incidents where these risks exist.

Particular attention should be given where risks such as grout/concrete and silt exist on the site formal site-specific arrangements including mitigation checks, communications lines and emergency actions must be developed and operatives must be trained in these. This should include a suitable arrangement for wash out of equipment, taking best practice into account to avoid pollution. Actions to take in the event of changes that could occur on site should also be identified.

Suitable pollution prevention measures, (e.g. 'nappies') should be put in place under attachments, parked plant or static equipment, (e.g. generator, pump) whenever there is a risk of fluid leaks or spillages, especially during refuelling operations or within 10m of a watercourse.

Evidence must be readily available that operatives have received training in the use of spill kits within the previous six-month period. Where works are anticipated to last more than 30 days or are being carried out in an environmentally sensitive site, where the risk of spills have the potential for significant impact, a mock exercise for each risk will be undertaken. This will be within 2 weeks of starting on site, unless otherwise defined in the CPP or Site Pack.

Spill kits must be appropriate to the risk and amount of fuel and oils on site and located to be readily available should there be a spillage. Suitable PPE, (such as goggles and impermeable gauntlet gloves) must be included in the spill kits.

Suitable provision must be provided on site for storage of hazardous waste, (e.g. following a spill) prior to its removal from site by a licensed carrier.

Contractors must minimise in-channel works as far as practicable and implement suitable mitigation measures where required, considering active spawning seasons and other restrictions on the site.

Maintenance of site plant will be done in a way to minimise the environmental risk, with appropriate control measures in place.

All hydraulic oils supplied in plant under this Code of Practice must be defined as "Readily Biodegradable" and meet OECD 301B. Exceptions to this for specialist plant must be justified and the pollution risk assessed and approved in writing by the Environment Agency appointed person discharging the Client's duties.



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The design assumes that the following precautions will be followed by the contractor:

Mortars and grouts will be mixed at distance from the riverbank and on designated bunded mixing bays.

Loose Mortar will be placed above water level or behind a cofferdam only.

All micro concrete and/or grout placed below water level will be contained in flexible formwork.

Generally, all works will be completed in accordance with Works in, near or watercourses, PPG5: Prevent Pollution.



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B20 PREPARATORY WORKS AND PROTECTION**B20/010 TEMPORARY SUPPORT:**

Provide, maintain, alter and adapt temporary supports and scaffolding of adequate strength for access to, and to ensure the stability and safety of the structure, retaining structures and of any nearby services during the works.

Allow for installing temporary props in void, short Acrow props or equivalent as necessary to allow safe access to complete repairs and reconstruction of the walling at low level. Allow for setting and resetting props as required to facilitate installation of stonework and grout.

B20/020 SITE CLEARANCE AND PROTECTION:

Provide screens and sheeting to protect the existing structures and pavings/grassed surfaces during the Works. Accept responsibility for any damage caused by lack of protection during the Works.

Parking is limited on site, vehicles not forming deliveries/collections to be parked in municipal car parks, see PCI for site parking and welfare arrangements.

Ensure adequate cordons are in place around the working area to prevent unauthorised access onto the site and compound.

B20/030 TEMPORARY COFFERDAM**Drawings 22-031-1-CB-300**

A temporary cofferdam will be required to dry out the works, the Principal Contractor shall be required to manage all temporary works design. Temporary works designs are to be reviewed and approved by the Principal Designer with authorisation from the Client.

The top of the cofferdam will be set at a minimum level of **78.500 mAOD**.

The cofferdam will be set to dry out the works required to repair the existing walling and voids, no work shall be executed in the river without the temporary cofferdam in place.

The Principal Contractor shall allow for over pumping, silt curtains as required.

The cofferdam shall be installed prior to any work in the river and shall be maintained in-situ until the works to repair scour pockets in the walling, and the voids are complete, and all wet trades are no longer required on site.

The temporary works design shall be completed in accordance with best practice and BS 5975, the contractor shall appoint an appropriately qualified Temporary Works Designer (TWD) and Temporary Works Coordinator (TCO).

Submit details, name, qualification, and experience of TWD and TCO with tender for evaluation, tenders without detail will be considered inadmissible.

B20/040 SCAFFOLD:

The scaffolding shall be designed and erected in the river Tavy and secured to the existing river wall with tie bars as determined by design.

Accept responsibility for damage caused by lack of protection during the Works.

Safe access will be required for the works, including appropriate edge protection around the scaffold perimeter. This will involve erection of the scaffold from within the cofferdam to provide access to rebuild the wall, The scaffold will need to be adapted and altered as the work proceeds.

The scaffold shall be designed and/or altered to provide lifts suitable for executing the works.

Arrange and allow for scaffold design, erection, and certification by specialist supplier, for continuing charges from the time of erection including inspections and hire charges, for maintaining and if necessary, altering and adapting



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temporary supports and scaffold for access, and for stripping and removing the scaffold when no longer required.

Allow for all costs associated with submitting scaffold design CA for approval prior to erection/commencement.

The scaffold design shall be completed by a competent person and carried out in accordance with the following standards:

- NASC TG20:13 BS EN 12811-1
- BS 5975: Falsework
- BS EN 1991 – 1-3: 2003 Snow Loads
- BS EN 1991 – 1-4: 2005 Wind Actions
- Scaffold tube shall be taken as BS EN 39 Type 4 “as new” condition.
- Hydraulic loading equivalent to the 70% exceedance flow rate of 1.615 m³/s plus appropriate safety factor.

Include details with design for tying of the scaffold to the main structure of the river wall.

Allow for regular scaffold inspections by scaffold installer to be completed through the works to satisfy both:

1. Periodic inspection and certification requirements (weekly).
2. Inspections following exceptional weather events.

All inspections shall be carried out by persons holding a valid and current Construction Industry Scaffolders Record Scheme (CISRS) Advanced Scaffold Inspection card.

Allow for end caps to be installed to all tubes to prevent damage to the Riverbank walling.

The scaffolding will be in a river, fixing to the existing Riverbank waling will be required to provide stability and resist the flow of water.

Submit scaffold design to CA prior to commencement of the works.

Allow for the cost of the scaffolding for the duration of the works.

Submit Risk Assessment and Method Statement for this activity, to include moving scaffolding to and from the workface.



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B30 REMEDIAL WORKS AT RIVER LEVEL

B30/010 UNDERPINNING OF THE EXISTING WALL

Drawings 22-031-1-CB-400 & 22-031-1-CB-401

Generally, progressing linearly along the wall allow for infilling existing scour pockets at base of wall and underpinning existing stone masonry retaining wall with pump placed micro concrete as specified below to fill voids placed in flexible formwork by Proserve Marine Construction Engineers <https://proserveltd.co.uk/> telephone: 01926 512 222 or equal and approved.

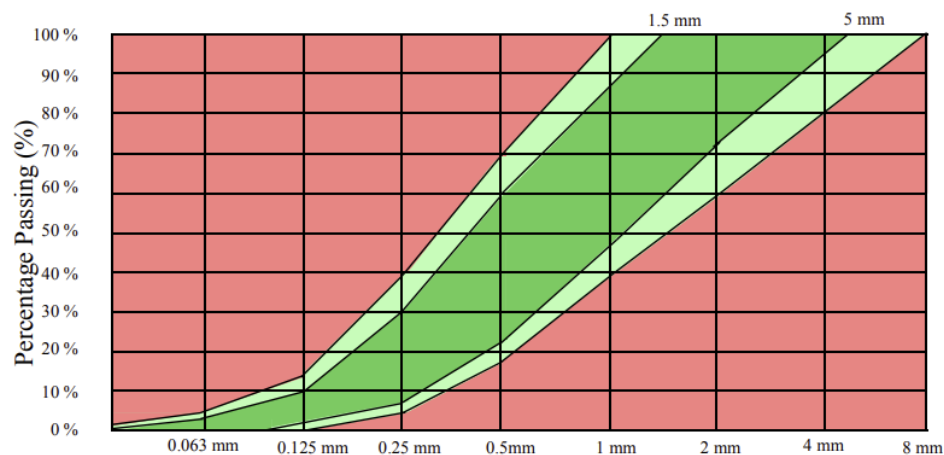
Micro concrete mix proportions to be 2:1 sand:cement ratio with the following mix proportions:

Cement	650 kg/m ³	CEM I, II or III
Sand & Aggregate	1300 kg/m ³	Within gradings chart below as Proserve B65F mix design
Water	350 kg/m ³	water:cement ratio 0.54, water content to be adjusted to achieve the required fluidity 6-8 s through a 19mm flow cone.

Total 2300 kg/m³

Fluid period minimum 2 hours on site.

Recommended aggregate grading:



Crabb DMC Ltd have completed a survey of the existing scour pockets and undermining of the voids, the details are shown on drawing **22-031-1-CB-401**.

The extent of voiding is as indicated on the Sectional Elevation on Drawing **22-031-1-CB-401**.

Allow for all costs associated with procurement of bags by Proserve, Micro concrete and placement of concrete to include fixing rear of bags in voids and placement of face restraint formwork, cutting and removal of vent and fill pipes.

B30/020 NEW FACING STONEMWORK AND VOID INFILL

Drawings 22-031-1-CB-400 & 22-031-1-CB-401

Allow for rebuilding face of existing retaining wall in natural stonework sourced from Mill Hill Quarry, Tavistock, PL19 8NP.

Source stone for quarry with flat bed in pre-cut 300mm minimum width (special order). Build new collar jointed stonework in 300mm lifts 650mm wide and tie into existing stonework either side of void.



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Build up new minimum 650mm wide stone facing in stones as large as can be practically manhandled on site but not heavier than 50kg unless positioned by machine and without manual handling. Course the stonework and fully bed stones in Harbour Mortar by Cornerstone Mortars of Brims Park, Old Callywith Road, Bodmin, Cornwall, PL31 2DZ.

As the stonework progresses build in 6mmØ stainless steel Helibar bent to form staples, set bed joint reinforcement into mortar and lap around void filled formwork.

Generally, progress stonework in lifts approximately 450mm high. Allow newly laid bed joint mortar to set overnight and next day place maximum 450mm deep micro concrete fill to void placed in flexible formwork by Proserve Marine Construction Engineers <https://proserveltd.co.uk/> tel: 01926 512 222 or equal and approved.

Flexible formwork to be textile based, placed and secured to rear of void with tie bars, and be pump filled from the base through the stonework and vented via 1m long vet pipe turned up face of wall.

Micro concrete mix to be as used at B30/010 above.

Coordinate work sequence to ensure that no more than 450mm micro concrete is placed in one lift at any one time, and no more than 450mm of stonework is erected prior to micro concrete being placed.

Build up face of new walling and fill void to minimum level **79.000 mAOD**.

B30/030 PINNING AND REPOINTING OF EXISTING STONework (PROVISIONAL)

The CA will issue an instruction for these elements following a detailed inspection from within the cofferdam. The provisional sum identified below will be adjusted accordingly based on the rate provided.

Rake out joints as directed by the CA to a minimum depth of 2.5 x the joint width, allow for completing all works by hand use of mechanical breakers will not be permissible.

Wire brush and clean down arisses of granite facings ready to receive new mortar.

Damp down surfaces ready to receive new pointing.

Generally, allow for raking out loose joints between existing stones and infilling existing open joints with hand split slate pins to wedge joints and Harbour Mortar by Cornerstone Mortars of Brims Park, Old Callywith Road, Bodmin, Cornwall, PL31 2DZ.

Allow for finishing new pointing flush with the weathered edge of the existing natural stonework and compact and finish with a churn brush.

Identify cost per square meter for repointing joints between existing natural stone units and filling 100mm deep into the wall.	£	/ m ²
Total area of stone requiring repointing:	30	m ²
Total for item B30/030		£

Carry total forward to tender summary.

The rate provided in this table will be used to adjust the contract sum as necessary. Adjustments will be made based on formal contract instructions issued by the CA.



SCHEDULE OF WORK

Project: «Project_Works_Title»
Address: «Project_Address_Location»
Reference: «DMC_Project_No»



SECTION B
SCHEDULE OF
WORKS
£ P

B40 REMEDIAL WORKS AT ROAD LEVEL

B40/010 PREAMBLE

Drawings 22-031-1-CB-401

Works at road level are to commence only following completion of the works at section B30. The existing voids shall be filled, and stone faced to a minimum level of **79.000 mAOD** prior to commencement of the works included in section B40 above.

B40/020 REMOVAL OF ROAD SURFACE

Drawings 22-031-1-CB-401

Neatly saw cut existing asphalt to remove section of existing surfacing measuring 2.4m by 10.0m break out existing road surfacing and remove from site.

B40/030 REMOVAL OF UPPER SECTION OF RETAINING WALL

Drawings 22-031-1-CB-401

Take down and carefully remove section of existing wall as shown on drawing **22-031-1-CB-401**, remove and dispose of stonework off site as work progresses.

Set aside capping stones for later reinstatement.

B40/040 RIVER WALL RECONSTRUCTION AND REMAINING VOID INFILL

Drawings 22-031-1-CB-401

Allow for rebuilding existing retaining wall up to road level in natural stonework sourced from Mill Hill Quarry, Tavistock, PL19 8NP. Utilise stone from existing wall in preference to new stone.

Source stone for quarry with flat bed in pre-cut 300mm width (special order). Build new collar jointed stonework in 300mm lifts 650mm wide and tie into existing stonework either side of void. Source stone as near as practicable to match existing.

Build up new minimum 650mm wide stonework in stones as large as can be practically manhandled on site but not heavier than 50kg unless positioned by machine and without manual handling. Course the stonework and fully bed stones in Harbour Mortar by Cornerstone Mortars of Brims Park, Old Callywith Road, Bodmin, Cornwall, PL31 2DZ.

As the stonework progresses build in 6mm \varnothing stainless steel Helibar bent to form staples, set bed joint reinforcement into mortar leave protruding at rear face of wall ready to be encapsulated in concrete.

Generally, progress stonework in lifts approximately 450mm high. Allow newly laid bed joint mortar to set overnight and next day place maximum 450mm deep grade C30 mass concrete between rear face of stonework to fill void.

At last lift leave concrete short of road surface to allow for flexible road build up as B40/050 below.

Reconstruct stone masonry parapet wall in natural stone masonry with lime NHL 5 Lime mortar to match existing and reinstate existing coping stones.

B40/050 REINSTATEMENT OF ROAD SURFACE

Drawings 22-031-1-CB-401

On completion of the construction works, allow for making the road surface with:

- Minimum 40mm deep SMA10 Surf 100/150 (BS EN 13108-5 (2006) and PD6691 2007 Annex D).

on



SCHEDULE OF WORK

Project: «Project_Works_Title»
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SECTION B
SCHEDULE OF
WORKS
£ P

- Minimum 90mm deep AC32 Dense Base 100/150 REC (13108-1 (2006) & PD6691 2007 Annex B).
on
- Minimum 225mm deep DOT Type 1 to SHW CL.803 compacted in 2 equal layers.

Allow for forming machine laid edge with and tying into existing road levels.

Allow for making good section of road and resurfacing extending 2.4m from inside face of riverbank wall to centre of road for a length of 10.0m along the length of the road.

B50 WITHDRAWAL FROM SITE

Arrange CA inspection of works to river wall **prior to removal of cofferdam.**

On completion clear all debris arising from excavations, temporary works, welfare from site and remove arisings at a licenced tip.

Arrange CA Inspection of. Road **prior to removal of temporary fencing and signage.**

Sweep road and leave site clean and tidy on completion.



SCHEDULE OF WORK

Project: «Project_Works_Title»
 Address: «Project_Address_Location»
 Reference: «DMC_Project_No»

**SECTION C
TENDER
SUMMARY**

A-PRELIMINARIES	AMOUNT (£ p)
Page A1-23	£
Page A24 A53/110 Work by Local Authority	£
Page A24 A54/590 Contingencies	£
B-THE WORKS	
Page B1	£
Page B2	£
Page B3	£
Page B4	£
Page B5	£
Page B6	£
Page B7	£
Page B8	£
Page B9	£
Page B10	£
Page B11	£
Page B12	£
Page B13	£
Page B14	£
Page B15	£
Page B16	£
Page B17	£
TOTAL FOR TENDER	£

PRICES IN THIS TENDER ARE TO INCLUDE ALL PROFIT AND OVERHEADS AND ARE NOT TO INCLUDE VAT.

NAME OF TENDERER	
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SCHEDULE OF WORK

Project: «Project_Works_Title»
 Address: «Project_Address_Location»
 Reference: «DMC_Project_No»



**SECTION C
TENDER
SUMMARY**

SCHEDULE OF DAYWORKS RATES

The following rates will apply to those hours worked when dayworks are directed. Any necessary standing time, travelling time, etc. is to be included in rates together with all overheads and profit and supervision.

LABOUR

Tradesman	Gross rate/hour	£
Labourer	Gross rate/hour	£
MATERIALS	Percentage to be added to invoiced amounts	%
PLANT	Percentage to be added to invoiced amounts	%



SCHEDULE OF WORK

Project: «Project_Works_Title»
Address: «Project_Address_Location»
Reference: «DMC_Project_No»

**SECTION D****SECTION D – STATUTORY SERVICES SEARCH DRAWINGS**

A copy of the following drawings are enclosed herewith:

- Western Power Distribution (WPD)
- Wales & West Utilities (WWU)
- Openreach
- South West Water (SWW)
- Email Confirmation from WPD that the 11kV cable shown crossing the river in a steel pipe is not longer energised.



SCHEDULE OF WORK

Project: «Project_Works_Title»
Address: «Project_Address_Location»
Reference: «DMC_Project_No»

**SECTION E****SECTION E – PRELIMINARY ECOLOGICAL APPRAISAL**

A copy of the Preliminary Ecological Appraisal is enclosed herewith:

