

WORKS SPECIFICATION (**GENERAL**)

3661 Contract of Resurfacing and Ancillary Works to Edginswell Railway Bridge, Torquay

2024

1.0 DESCRIPTION OF THE WORKS

1.1 Location of the Works

The location of the works is Edginswell Bridge (post-tensioned concrete structure), Torquay

1.2 General Description of the Works

The Works shall principally consist of the replacement of the whole of the existing defective wearing course and the two movement joints.

1.2.1 Scheme Drawings

The scheme drawings are listed below:

- 01 Location Plan
- 02 Not used
- 03 Site Plan
- 04 Works Details
- Standard surfacing detail

2.0 CONSTRAINTS

2.1 General Constraints

2.1.1 Extent of the Site

The extent of the site is defined on contract drawings.

The contractor's attention is drawn to the proximity of a main rail line beneath the bridge site, owned and managed by Network Rail. A Basic Asset Protection Agreement (BAPA) is to be in operation for the duration of the proposed works. The Contractor is to abide by all of its requirements, and in particular is to be aware that his detailed proposals will be shared by the Project Manager with Network Rail under terms of the BAPA. No interruption to the continued operation of the main rail line is to be proposed by the Contractor, and commensurate effort is to be expended by the Contractor to ensure that no accidental interruption arises from any activities associated with the Contract of works.

2.1.2 *Contractor's Working Area*

The potential extent of the *Contractor's Working Areas* including site compound/cabin, area for materials storage and welfare facilities is indicated on contract drawings

The final exact locations and extents of the working areas shall be agreed with the *Project Manager*.

The *Contractor's* attention is drawn to the fact that the *Contractor's Site Area* is likely to extend over more than one isolated zone and that all works shall be undertaken with regard to public and traffic movements in proximity. The *Contractor* shall provide the necessary temporary security requirements to establish a safe working environment for the undertaking of the Works.

The *Contractor* shall ensure that his employees, plant, materials etc. do not obstruct access to public areas which remain open. The *Contractor* shall be responsible for making up and maintaining in suitable condition for his construction traffic all such accesses including the provision of adequate fencing.

2.1.3 Site Access Restrictions

2.1.3.1 General requirements

The *Contractor* must take due regard of the access required by the public to the surrounding areas.

Access must be maintained for all pedestrian and vehicle traffic throughout the construction period on areas remaining open.

The *Contractor* must appraise routes, to ascertain the standards with regard to height, width, weight and any other restrictions by which operations may be limited or affected.

All areas accessible by the public shall be kept clear of any construction materials, plant or debris unless fully fenced.

2.1.3.2 Site Entry

Entry to the Site shall observe:

- Statutory Notices having been served;
- Network Rail BAPA having been established;
- Traffic Management and Control Measures having been approved;
- Advance warning signs have been erected;
- *Contractor's* insurance details are in place.

2.1.4 Deliveries

During the Works the *Contractor* shall minimise his access and delivery requirements by road. The *Contractor* so far as is reasonable practicable shall import those materials mindful of the busy public highway adjacent, in particular at peak times.

The *Contractor* shall make himself aware of any restrictions and take any precautions necessary in light of his findings.

2.1.6 Traffic Management

The contractor shall propose a programme and arrangement of traffic managements to align with relevant phases of the works. The programme and arrangements are to be agreed with Highway Network coordinators in time for their controlled implementation. It is noted that traffic signal loops are to be removed and later reinstated within the scope of works, and that temporary alternative arrangements will be required to be established and maintained during the entire period of outage of the permanent system.

2.1.7 Temporary Lighting Requirements

The *Contractors* provision of temporary lighting requirements including lighting and signs impacting on the public highway shall be in accordance with licencing requirements.

2.1.8 Noise and Vibrations

The *Contractor* shall employ the best practical means to minimise noise and vibration produced by his operations and shall have regard to the recommendations in BS 5228-1 : 2009 and BS 5228-2 : 2009 Code of practice for noise and vibration control on construction and open sites, Part 1 Noise, Part 2 Vibration and any similar British Standard or Code of Practice which may be considered relevant.

Note is made here that surfacing installation plant shall be non-vibrating.

The following measures are given as a guide.

The following restrictions on working hours will apply to activities deemed by the *Project Manager* to cause a disturbance through noise.

Noisy activities may only be undertaken by agreement between the following times:

- Monday to Saturday: 1900 to 0800 hours.
- Sunday and Bank Holidays

Consent for work during these hours may be given by the Local Authority after any necessary consultation. Fourteen days' notice is required from the *Contractor* when seeking such consent.

The noise level schedules below for periods outside the normal working hours will only be permitted when consent has been given to exceptional working.

During normal working hours the equivalent continuous sound level (Leq) shall not exceed the following, measured 1 metre outside the facades of any adjacent occupied buildings:

- (i) 70 dB(A) twelve hour value of Leq.
- (ii) 73 dB(A) six hour value of Leq
(provided the six hours fall within the period 0800 to 1600 hours).
- (iii) 74 dB(A) three hour value of Leq
(provided the three hours fall within the period 0900 to 1300 hours).
- (iv) 85 dB(A) at any instant. (Slow response).

The limit of twelve hour value of Leq shall always be met; so that when the higher levels occur, the levels permitted throughout the remainder of the normal working hours will become progressively lower than the overall limit imposed.

Without prejudice to the *Contractor's* obligations under the preceding paragraph the *Contractor* shall comply with the following requirements:-

- (a) All vehicles and mechanical plant used for the purpose of the Works shall be maintained in good and efficient working order and shall be fitted with effective exhaust silencers.
- (b) All compressors and generators shall be "sound reduced" models fitted with properly lined and sealed acoustic covers which shall be kept closed whenever the machines are in use, and all ancillary pneumatic percussive tools shall be fitted with mufflers or silencers of the type recommended by the manufacturers.
- (c) Machines in intermittent use shall be shut down in the intervening periods between work or throttled down to a minimum.
- (d) Where practicable plant with directional noise characteristics shall be positioned to minimise noise at adjacent properties and static machines shall be sited as far away as practicable from inhabited buildings.
- (e) Where it is necessary to provide power for the running of pumps etc., at any time during the period 1900 to 0800 hours Monday to Saturday inclusive, and all day on Sunday and Bank Holidays, then the source of such power shall be from mains electricity except if the *Employer* agrees in writing that alternative plant may be used, after consultation with the Local Authorities.

The *Contractor* shall provide the *Project Manager* with as much advance warning as possible of any emergency work that is necessary to conduct outside of the above permitted working hours.

The *Contractor* shall furnish such information as may be required by the Local Environmental Health Officers in relation to noise levels emitted by plant or equipment used or installed on the Site or which the *Contractor* intends to use or install on the Site and also afford all reasonable facilities to enable such officers to carry out such site noise-monitoring as may be necessary.

The *Project Manager* shall have the right to order the *Contractor* to cease using any item of plant insufficiently silenced or generating noise levels in excess of those specified.

Compliance with these conditions and the other requirements of the Contract will not of itself constitute any ground or defence against any proceedings instituted under Section 59 of the Control of Pollution Act 1974 (whereby any occupier of premises may complain to a Magistrate's Court of a noise nuisance) and the Environmental Protection Act 1990.

2.1.9 Working Hours

The *Contractor* shall comply with the following working hours:

Monday to Saturdays 08:00 to 18:00

Working outside these hours and on public holidays shall be undertaken for purposes of critical operations and/or for example the laying of the wearing course and with the prior consent of the *Project Manager*. The laying of the wearing course will preferably be undertaken in one activity during a night time full closure

2.1.10 Not used

2.1.11 Services

Refer to section 1.3 'Service Providers' and 1.5 'Water and Other Services' in Works Information

2.1.12 Other Constraints

Refer to sections 1.1 Regulations and Authorities and 1.2 Statutory Licences and Certificates of the Works Information

2.2 Confidentiality

The *Contractor* shall treat the information provided as part of this contract as Confidential.

2.3 Security

The *Contractor* shall comply with all necessary security arrangements.

2.4 Pre Commencement Investigations & Surveys

2.4.1 Preliminary Investigation

The *Contractor* will be deemed to have visited the site and have fully acquainted himself as to local conditions, tidal working conditions, facilities for access and storage of materials, parking and unloading restrictions, the full extent and character of the operations, the nature of the ground and existing structures, the condition of supply affecting labour and materials and the execution of the Works generally, and all other matters which may affect the Works, all before the completion of his Tender. No claim or compensation on the grounds of want of knowledge will be entertained.

2.4.2 Condition Surveys

The *Contractor* shall, prior to the commencement of the works in association with the *Project Manager*, carry out a condition appraisal of all areas liable to trafficking by works vehicles or be liable to occupation by the *Contractor's* workforce or that of his sub-contractors.

The appraisal shall be completed by the *Contractor* and shall contain photographic evidence and a detailed account of any defect noted prior to the commencement of the works. The written condition report will be agreed and countersigned by the *Project Manager*.

The condition appraisal and the associated photographs will form the basis for the assessment of any damage caused by the *Contractor* or his subcontractors during the works.

2.4.3 Verification Surveys and Re-Use Items Surveys

The *Contractor* shall carry out localised survey works in order to verify site information. These surveys shall include but are not limited to existing structure layout dimensional check, and topographical check.

The *Contractor* should note that the details of the existing structure shown on the scheme drawings are idealised. The *Contractor* shall carry out supplementary survey work to assure himself of the validity of those details shown on the drawings.

Records of buried services are provided. The *Contractor* shall nonetheless undertake a survey of existing services to confirm the position and details of all site services local to the works and site area.

2.5 Site Cleanliness

The *Contractor* shall be responsible for the proper upkeep and maintenance of the Site and the Works and shall remove from the Site rubbish and other waste as it accumulates. Materials and equipment shall be positioned, stored and stacked in an orderly manner.

Burning of waste on site shall not be permitted.

2.6 Control of Waste and Handling

The *Contractor* shall comply with all current legislation governing the handling and disposal of all materials off site. The *Contractor* shall comply with the 'Health and Safety at Work, etc, Act, 1974', the 'Control of Pollution Act, 1974' and the 'Control of Substances Hazardous to Health Act, 2002'. The *Contractor* shall prepare a 'Site Waste Management Plan' prior to the commencement of the works on

site for approval by the *Project Manager* and shall undertake the works in accordance with the approved 'plan'.

The *Contractor* shall draw the attention of all personnel working on the site to the nature of the possible contamination and the need to take any precautionary measures in handling the materials. The *Contractor* shall take the following precautions as necessary:

- Site personnel to wear protective overalls, safety hat, safety boots and gloves.
- Dust masks, eye protection and artificial respiratory equipment to be available on site.
- Instructions for use of safety equipment shall be prominently displayed and at least one member of staff shall be fully conversant with its use.
- First-aid facilities to be provided.
- Adequate washing facilities to be provided.
- Activities which involve hand/mouth contact, such as eating and smoking, shall be restricted to areas where hygiene facilities are provided.
- No naked flames, smoking or other ignition source to be allowed on site.

The *Contractor* shall submit a Method Statement detailing the precautions he proposes to take to deal with hazardous materials. This Method Statement shall be provided to the *Project Manager* at least 14 days before commencement of the measures detailed.

The above is not exclusive and does not relieve the *Contractor* of any obligations under the above Acts.

A suitable site for disposal of material arising from planing, excavation, removal of existing defective material/joints etc. shall be found by the *Contractor*.

The *Contractor* shall comply with the requirements of the national standards and the *Project Manager*, with respect to any procedures for handling, transporting and disposal of contaminated material/arising.

2.7 Control of Dust/Arisings

Controls on the amount of dust and fine particles in the air, around and within the site and its environs, arising as a result of the *Contractor's* operations must be exercised and must be such as to avail all reasonable complaints by persons affected or likely to be affected. Where disputes arise they will be referred to the *Project Manager* whose decision will be final.

The *Contractor* shall make provisions for the avoidance of any falls of material on to the main rail line beneath the site of works. Such provisions are to be declared and agreed before commencement of activities and will be subject to formal approval from Network Rail under terms of a Basic Asset Protection Agreement which will be established by the client.

2.8 Control of Pollution, Obstructions etc

The *Contractor* shall ensure at all times:-

- that the site and the approaches thereto are not obstructed or made congested
- that no nuisance is created which might affect the site or its environs
- that no pollution is caused to any part of the site
- that none of the workmen commit trespass.

The *Contractor* shall ensure that there is no spillage of hazardous materials into drains, watercourses, or highway. Before commencing any work which could involve such spillage, the *Contractor* shall consult the *Project Manager* and provide such effective anti-pollution measures as may be required to prevent such an event.

The *Contractor* shall ensure that all personnel employed by him or under his control are made fully aware of the measures to be taken and that these are meticulously observed.

The advice on statutory responsibilities and good environmental practice contained in the Pollution Prevention Guidelines (PPGs) produced by the Environment Agency shall be complied with.

The *Contractor* shall include pollution prevention and mitigation within method statements. The Works are to be implemented in accordance with the approved Plan.

3.0 NOT USED

4.0 COMPLETION

4.1 Completion Definition

Completion has occurred when the whole of the works are completed.

5.0 PROGRAMME

5.1 Submission and Content of Programme

The *Contractor* shall submit an outline programme with his tender and a detailed programme to the *Project Manager* within fourteen days of Contract award. The submitted programmes shall include the following elements:

- The starting and completion dates (note is made here, that the start date is subject to award and receipt of agreed BAPA)
- Planned completion
- The order and sequencing of operations which the *Contractor* plans to do in order to provide the works
- Key dates and the critical path through the construction programme.
- All the work activities described and referenced in the contract specification and drawings, in addition to works by specialists, Sub-Contractors, Equipment, site establishment and dismantling.
- Provisions for:
 - o Float
 - o Time risk, allowances
 - o Health and safety requirements
 - o The procedures set-out in the contract
- Both off-site (e.g., fabrication shop) and on-site activities.
- The dates when, in order to provide the works in accordance with the programme, the *Contractor* will need;
 - o For each operation, a statement of how the *Contractor* plans to do the work identifying the principal equipment and other resources that he plans to use.
 - o Other information which the Works Information requires the *Contractor* to show on a programme submitted for acceptance.

5.2 Revised Programme

On each revised programme, the *Contractor* shall include:

- The actual progress achieved on each operation and its effect on the timing of the remaining work.
- The effects of implemented compensation events and of notified early warning matters.
- How the *Contractor* plans to deal with any delays and correct notified defects
- Any other changes to the accepted programme.

5.3 Method of Construction

If requested by the *Project Manager* the *Contractor* shall submit at such times and in such further detail as the *Project Manager* may reasonably require information pertaining to the methods of construction (including Equipment and the use of *Contractor's* Equipment) which the *Contractor* proposes to adopt or use and calculations of stresses, strains and deflections that will arise in the Permanent Works or any parts thereof during construction so as to enable the *Project Manager* to decide whether if these methods are adhered to the Works can be constructed and completed in accordance with the Contract and without detriment to the Permanent Works when completed. The

methods of construction shall give due regard to existing structures during and upon completion of the Works.

6.0 QUALITY MANAGEMENT

6.1 General

The *Contractor* shall establish and operate a quality management system. The quality management system shall be described in a Quality Plan that shall be submitted to the *Project Manager* for his acceptance.

The Quality Plan shall cover the following items:

- (i) *Contractor's* construction quality control
- (ii) *Contractor's* organisation and management
- (iii) *Contractor's* method statements and construction procedures
- (iv) Supplier's Quality Plans

7.0 NOT USED

8.0 MANAGEMENT OF THE WORKS

8.1 Communications

8.1.1 Progress Records

The *Contractor* shall submit construction and materials records to the *Project Manager* on a weekly basis or as soon as practicable following the construction of a particular element of the works.

The *Contractor* shall take colour digital progress photos, with a minimum resolution of 1000 by 2000 dpi, of works' progress on a weekly basis. The photographs shall be properly referenced and dated by the *Contractor* and shall be recorded within progress and closedown reports

At the end of the project all progress photos shall be provided by the *Contractor* including a comprehensive set at "Completion".

9.0 NOT USED

10.0 SERVICES AND OTHER THINGS TO BE PROVIDED

10.1 Services and other things to be provided by the *Contractor*

The *Contractor* is to provide and maintain Temporary Accommodation and Equipment for the use of the *Project Manager* as detailed below:

10.1.1 Office for the *Project Manager*

The *Contractor* shall make his welfare facilities available to the *Project Manager* and his staff as required.

In addition the *Contractor* shall supply any other items of protective clothing required by the *Contractor's* COSHH assessment for the site.

The *Contractor* shall make available to the *Project Manager* and his staff his measuring and survey equipment as required.

10.2 Services and other things to be provided by the *Employer*

The *Contractor* shall make his own arrangements for provisions of water and electrical power

All use of and extension of electrical or water supplies provided by the *Employer* shall be carried out in accordance with current Health and Safety legislation and guidelines.

11.0 HEALTH AND SAFETY

11.1 Health and Safety Requirements

The *Contractor* shall comply with the Client's health and safety requirements as set out in the pre construction information.

11.2 Pre Construction Information

The *Contractor* shall pay adequate regard to the pre-construction information in preparing his construction phase plan in accordance with the CDM 2015 Regulations.

11.3 Method Statements

The *Contractor* is required to submit method statements and risk assessments for each element of the Works to the *Project Manager* for acceptance. These shall be submitted 14 days in advance of those work items commencing.

11.4 Legal Requirements

The *Contractor* shall note that he will be appointed Principal Contractor, as defined in the Construction (Design and Management) Regulations 2015, for these works and his tender amount shall allow for full compliance with his obligations under this appointment.

11.5 Inspections

During the course of the Works the *Project Manager* (or other auditor of the *Employer*) may audit the *Contractor's* health and safety performance and compliance. The *Contractor* will co-operate with the auditing process and comply with any recommendations made and act upon any deficiencies identified within a time period identified by the auditor.

11.6 Health and Safety File

The Health and Safety File information is to be submitted by the *Contractor* to the CDM Advisor prior to completion for checking and compilation into the final accepted Health and Safety File which is then to be sent to the *Employer*. The extent of such information shall be defined by the CDM Advisor.

The Health and Safety file is to be a comprehensive information source and guide for the *Employer* and end users to provide a complete understanding of the structure and its systems and enabling it to be operated and maintained efficiently and safely. The content/ layout and format of the File shall be defined by the CDM Advisor in the Pre-Construction Information. The main set(s) of as-built drawings and operation and maintenance manuals will form annex(es) to the Health and Safety File.

12.0 SUBCONTRACTING

12.1 General Requirement

Where the *Contractor* wishes to use a Sub-Contractor different from those submitted with his tender he is to submit the following information:

- The name of the proposed Sub-Contractor.
- Significant projects completed within the last 12 month period by the Sub- Contractor including projects of a similar nature.
- The value of those projects and the contract period.
- A reference of the appropriate consultant or Engineer involved in the projects.

WORKS INFORMATION

1 PRELIMINARY AND GENERAL

1.1 Regulations and Authorities

The *Contractor* shall observe all regulations laid down by all statutory and interested Authorities.

1.2 Statutory Licences and Certificates

The *Contractor* shall be required to comply with all statutory licences and certificates required for carrying out the Works and shall indemnify the *Employer* against all claims arising as a result of his failure to comply.

The Employer will establish routes for Highway agreements/licences and the BAPA and will share these with the Contractor. The Contractor will be expected to provide his detailed proposals for submission to and agreement of the relevant authorities in a timely manner.

1.3 Service Providers

Services are not expected to impact on the works.

However, the *Contractor* shall liaise with all service providers having services in the vicinity of the Works and shall make any necessary arrangements to temporarily isolate services such as electricity, telecoms, water and sewerage to facilitate construction of the Works.

Preliminary Statutory Undertakers information is available in contract drawings.

1.4 Damage to Services

The *Contractor* shall determine the precise location of all services in the vicinity of the Works and shall take appropriate measures to avoid damage being done. He shall be responsible for rectifying any damage done and shall relieve the *Employer* of all claims in respect of any loss, damage or injury arising from damage or interruption of services.

1.5 Water and Other Services

The *Contractor* shall be responsible for arranging, installing and paying all charges in connection with any electricity, water, telephone services that may be required for the execution of the works. On completion the *Contractor* shall remove and make good all disturbances.

1.6 Materials and Workmanship

The whole of the materials and workmanship shall be in accordance with the Specification and to the entire satisfaction of the *Project Manager*.

All materials incorporated into the permanent works shall be new, free from any defects or contamination and shall be appropriate for the intended use.

All materials shall be in compliance with the appropriate British Standard/Code of Practice and shall be installed in accordance with the manufacturer's written instructions and recommendations.

Materials found to be defective or inappropriate shall be removed and replaced with approved materials, all at the *Contractor's* expense.

1.7 Co-operation with Others

The *Contractor* shall be required to co-operate and liaise with interested parties utilising the land and water in the vicinity of the Works. The *Contractor* shall undertake the Works so as to minimise disturbance to the local community.

1.8 General Access

In the construction of Works the *Contractor* shall so carry out his operations that a safe and adequate route is available at all times for vehicular and pedestrian traffic at the site to the satisfaction of the *Project Manager*.

No materials or plant shall be deposited on any road or footpath, so as to obstruct or inconvenience vehicular or pedestrian traffic if the same, in the opinion of the *Project Manager*, can be avoided.

1.9 Access to and Use of the site

It will be an essential requirement for the *Contractor* to ensure that the site and adjacent areas are maintained as a free, unobstructed, safe and clean area throughout the whole of the contract period. The *Contractor* shall not impede the use of the site by the *Employer*, the *Employer's* agents, tenants and authorised users of the site and he shall afford access at all times to the passage of others along access roads, access routes and upon and around those parts of the land not deemed to be part of the *Contractor's* site as agreed with the *Project Manager*. The *Contractor* is to provide any signage, cordoning, surfacing materials or other traffic management measures, supervision or any other necessary measures that may be required to fulfil these requirements and shall take any additional measures as may be required by the *Project Manager*.

The *Contractor* shall provide all necessary barricades, fences, screens, etc for the protection of his operatives, the *Employer's* employees, any adjoining property and the public; and alter, adapt and maintain as necessary.

Screening arrangements, minimally to be debris netting fixed to Heras fencing at boundaries with rail line and operational public highway, are required to be designed and installed to prevent the spread of dust, dirt, or other deleterious material into the surrounding areas, in particular on to the main rail line, in addition to any other requirement of the contract.

The *Contractor* shall submit full details of his proposed screening, other methods of protection and access proposals to the *Project Manager* for his approval prior to commencing the work. The *Project Manager's* comments on the *Contractor's* proposals shall in no way relieve the *Contractor* of his responsibility to ensure the adequacy and safety of all such arrangements.

Any works which the *Contractor* wishes to carry out which forms a hindrance to the *Employer's* use and enjoyment of his right of passage shall be carried out only at such times as are suitable to the *Employer* and approval by the *Project Manager* and the *Contractor* shall make due allowance for this.

The *Contractor* shall repair at his own cost, any damage to existing roads and pavings including verges and footpaths deemed by the *Project Manager* to be caused by his operations. The repairs are to be carried out as and when directed by the *Project Manager*.

The *Contractor* shall not use the site for any purpose other than carrying out this contract alone. The *Contractor* shall not deposit, or make up, or manufacture upon the site any building or materials except such as shall be actually required for the works. The use of any part of the site for living accommodation is not permitted.

The deposition of debris on the site and its surroundings is not permitted. The *Contractor* shall take all necessary measures to ensure that deposition of debris of any kind does not occur.

1.10 Access for Outside Parties

The *Contractor* is required to provide access and facilities for representatives from interested parties including Torbay Council to visit the site. The *Contractor* shall maintain access for emergency vehicles for the duration of the project.

1.11 Emergency Arrangements

The *Contractor* shall maintain arrangements whereby he can quickly call upon labour, materials and equipment outside normal working hours to carry out work needed for an emergency associated with the Works. The *Project Manager* shall be provided at all times with a list of names, addresses and

telephone numbers of the *Contractor's* staff who would be currently responsible for organising emergency work.

The *Contractor* shall acquaint himself and his employees with any relevant arrangements including those of the *Employer* which are in existence for dealing with emergencies.

1.12 British Standards and Codes of Practice

Any British Standards, Codes of Practice, technical publications or other design document referred to in the documents relating to the Contract shall be held to be the latest edition published at the date of Tender. All relevant conditions in British Standards or Codes of Practice etc. whether referenced in this document or otherwise relating to standards of material, quality and workmanship shall be complied with, and except as otherwise noted all tests specified shall be conformed to. In the cases where no particular specification is given for any article or material to be used under the Contract, the relative British Standard or Code of Practice, where one exists shall apply.

1.13 Special Plant and Tools

If the *Project Manager* orders in the interest of the Works that special plant and tools shall be used, the *Contractor* shall be bound to provide and use such plant and tools forthwith.

1.14 Equipment

The constructional plant, equipment and appliances used shall be the liability solely of the *Contractor* in regard to their sufficiency, design, construction, safety and maintenance. The *Project Manager* shall have the right to require the *Contractor* to submit supporting designs, calculations and drawings of any equipment adopted.

1.15 Stability of Works

The *Contractor* shall accept responsibility for the stability and integrity of the Works during the Contract.

1.16 Existing Structures

The *Contractor* shall take all necessary measures to ensure that no damage occurs to existing adjacent structures. The *Contractor* shall be responsible for rectifying any damage done and shall relieve the *Employer* of all claims in respect of any loss, damage or injury arising from damage to existing structures.

2.0 RESURFACING – GENERAL

see also separate contract document Series 900 – ROAD PAVEMENTS – BITUMINOUS BOUND MATERIALS

2.1 Areas

The areas of resurfacing are as shown on the Tender drawings or as indicated by the Supervisor. The areas are to be clearly marked out on site and agreed with the Supervisor before commencing any planing or preparation work.

The areas may be adjusted by the Supervisor as work proceeds according to the conditions found.

2.2 Surface Preparation

Areas to receive the replacement wearing course shall be prepared using non-

vibrating planing plant to remove the existing defective wearing course.

The equipment and methods used to remove the existing defective surfacing shall be controlled such that sound material is not loosened, damaged or removed, unless shown on the drawings, survey reports or so directed by the Supervisor.

To avoid feather edging of the replacement wearing course layer and to prevent hydraulic action lifting the edge, the ends of the new wearing course shall be prepared by cutting of the existing surfacing to an agreed boundary

To achieve this, a straight edge shall be achieved using a saw, disc cutter, or other suitable tool. The edge of the new wearing course is to be finished flush with the adjacent existing surfacing.

All planed surfaces to receive any regulating material and the new wearing course shall be of a rough scabbled nature. This preparation shall be such as to leave a sound exposed substrate free from dust, loose particles and any deleterious matter.

Prior to application, the prepared substrate shall receive a tack coat to the approval of the Project Manager. Ponded water must be removed prior to surfacing applications.

2.3 Existing Structure

Special care shall be exercised to ensure that existing structure, including existing sound surfacing courses are not otherwise cut or damaged.

2.4 Materials

The materials shall be used in prepared areas in accordance with current data sheets and instructions for use and by method(s) approved by the Supervisor

It is the responsibility of the product user to ensure that all the latest information is to hand, and that product instructions for use, safety procedures, etc., are understood and followed exactly.

BS EN ISO 9000: The manufacturer of all such products shall be a BSI registered firm of assessed capability for Quality Assurance to BS EN ISO 9001.

C.H.I.P.: Safety Data Sheets in the mandatory 16 section format, shall be supplied as required by the manufacturer, to comply with the current regulations for all products covered by this Specification.

2.5 Application

Surfacing must not be placed on to frozen substrate, nor placed when the air temperature falls below five degrees centigrade. It should be maintained at not less than this temperature until final set is achieved.

Before application of the surfacing material the contractor shall ensure that sufficient and correct areas for reinstatement are prepared and ready to receive overlay material.

The surfacing material shall be applied in accordance with manufacturer's instructions.

The minimum depth of application shall be 40mm.

Grid for checking surface levels of pavement courses (CI 702.4)
Longitudinal dimension: 10m max

Transverse dimension: 2m max
 Surface regularity - Category of Road (CI 702.5): Category A
 Interval for measurement of longitudinal regularity (CI 702.7): 300m
 Interval for measurement of transverse regularity (CI 702.8): 20m
 Whether measurement of surface macrotexture is required: Yes
 Surface texture depth required CI 921SR): As Table 9/3 SR (IAN 154/12)
 PSV for surface course: See Schedule 7

Pavement and foundation layers	Clause	Material designation	Thickness (mm)	Particular requirements
Surface course	942	10mm SMA _{tex} TSCS	40	Quartzite grit to be applied CI971AR 30, 31
Binder (as required)	937	SMA 14 bin 70/100	40	

2.6 Surface Finish

After applying sufficient material to achieve a level flush with the surrounding surface, the material shall be finished with a non-vibrating roller. The surfacing shall be flat without steps in the face with no greater than 25mm variation in 1000mm length.

2.7 Quality Control & Testing

The Contractor shall employ a full-time working Foreman on the project who has at least five years specialist surfacing experience and who should be fully conversant with relevant codes of practice and specification.

3.0 Replacement Joints

3.1 Preparation

Existing defective Waterseal NJ joints, including defective nosing mortar are to be removed.

Surfaces to receive new material are to be prepared at least to the standard required by the joint manufacturers instructions, including being thoroughly cleaned and dried as appropriate before any new material is applied or installed.

3.2 Installation of bridge joint units to carriageway

New USL Transflex 250 bridge joint units are to be installed in strict accordance with the manufacturer's specifications to the full carriageway width between kerbs.

3.3 Installation of sealant at kerbs and footway

Existing sealant is to be removed from the extended structural bridge joints at the kerbs and footway beyond the carriageway surfacing. These areas are to be robustly prepared ahead of receiving primer and new sealant bed.

Flexcell or similar compressive joint filler is to be installed leaving sufficient room above for

installation of sealant to minimum prescribed depth.

Sealant is to be Fosroc Thioflex 600 or similar approved installed in strict accordance with the manufacturer's specifications, in particular observing standards of preparation and minimum depth of sealant bead to avoid premature failure.

4 TRAFFIC SIGNAL CIRCUITRY

4.1 Removal of Existing Elements

Existing traffic signal circuitry embedded within existing surfacing is to be removed in advance of the existing surfacing being planed off. Circuitry cables etc are to be removed to the nearest opportunity which will provide the means to reinstall new circuitry following the installation of the new wearing course.

4.2 Reinstatement

Circuitry cables etc are to be reinstated with new compliant materials and in accordance with all approved standards.

The contractor is to propose his method and detail of removal and reinstatement with his tender return to demonstrate his commitment to compliance with approved standards.

5.0 Information Signs

The Contractor is to provide, erect and maintain Information signs for the duration of the Contract. All signs are to be approved by Engineer. A typical sign detail is illustrated below.

TORBAY
COUNCIL

EDGINSWELL BRIDGE RESURFACING

Contractor:

WORKS TO BE COMPLETED BY: 31 March 2025

IN CASE OF EMERGENCY CONTACT 01803 701312