

**National Asset Delivery
Technical Surveys and Testing**

**Works Information for
605789 – A19 Silverlink Tyne Tunnel
Bridges – Bearing Inspections**

CONTENTS AMENDMENT SHEET

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LIST OF ANNEXES

Appendix 1 Supplementary Constraints

1 DESCRIPTION OF THE WORKS

1.1 Project objectives

The principle objective of this project is carry out a bearing survey on all bearings of the Tyne Tunnel East and West bridges at the A19 Silverlink Interchange.

1.1.1 The specification that applies to the *works* is included in Section 6

1.2 Scope of works

1.2.1 The *works* to be provided under this contract are:

The contractor will be required to undertake a bridge bearing survey of the A19 Silverlink roundabout bridges otherwise known as Tyne Tunnel Roundabout East and West bridges. The bearings are laminated elastomeric bearings and are assumed to be original from when the bridge was constructed in 1968. The scope of this work will indicatively include:

1. The inspection of 216No. bearings, either on foot, from a tower scaffold or from a MEWP, during temporary lane closures of the roundabout. (Multiple site visits may be required to complete the works, including night working. It should be assumed that night working will be required for access to piers from any traffic management on the roundabout).
2. The contractor shall provide a full report with observations, conclusions and recommendations, based on the condition of the inspected bearings. As a minimum, the report shall contain the following:
 - a. Details of the condition of each existing bearing, including photographs and drawings to record all pertinent features.
 - b. Commentary on the residual life of each existing bearing.
 - c. Details of repair/maintenance requirements for the existing bearings.
 - d. Recommendations for the replacement of the bearings, once their residual life has been exceeded, including a suggested replacement methodology (i.e. jacking).
3. The contractor shall provide a suitable RAMS for the work, along with details of relevant insurances and accreditations.

The contractor will provide details of the bearing inspection team and report author, such as CVs, etc., to demonstrate that they have suitable experience of undertaking similar work.

The works are planned to be carried out during programmed concrete testing works to both structures which is due to commence

on the 11th January 2021 and runs till the 12th February 2021. It is expected that the contractor for the works will need to work around the concrete testing contractor.

The contractor for the works should provide their own access equipment and the use of MEWPs is preferred where possible.

The traffic management will be supplied by Highways England's M&R Contractor.

1.3 Deliverables

1.3.1 The *Contractor* is required to produce the following deliverables:
The contractor should provide a full report as detailed in the scope of works 1.2.1 above.

2 EXISTING INFORMATION

2.1.1 Please refer to the Pre-construction Information for further details including historic as-built drawings.

2.1.2 The Drawings listed below apply to this contract. Refer to the site information for details of existing site conditions including ground conditions, limitation on access, position of existing structures etc.

No Contract Drawings provided.

3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS

3.1 General

3.1.1 The *Contractor* Provides the Works in such manner as to minimise the risk of damage or disturbance to or destruction of third party property.

3.1.2 The *Contractor* complies with the constraints and meets with the requirements outlined in Appendix 1.

3.1.3 The *Contractor* submits information detailing how the *Contractor* will provide the Works to the *Employer* prior to the *works* commencing. This information will include any lifting plans, risk assessments, method statements, the *Contractor's* staff training information and any other relevant Health and Safety requirements.

3.2 Working hours & site specific constraints

3.2.1 The *Contractor's* working hours for site works shall be 20:00 – 06:00 (for night shifts) and 08:00 – 18:00 (for day shifts) from Monday to Friday and no

more than 12 hours per shift to comply with Highways England's standard IAN198/16.

- 3.2.2 The traffic management requirements shall be provided by Highways England's M&R Contractor, CHC.
- 3.2.3 For the site specific restrictions refer to the Site Information document.
- 3.2.4 The contractor will provide all access equipment such as Mobile Elevated Working Platforms (MEWPs) and tower scaffolds in order to carry out their works.

3.3 Health, Safety and Environment & Risk Management

Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.
- 3.3.2 When implemented, the *Contractor* shall comply with the requirements of Highways England's safety passport scheme and ensure that all of his employees, and any of his subcontractor's, are registered in accordance with the implementation of the scheme.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found in the complete package of Tender documents uploaded to Bravo.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

Risk Management

- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period.

4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works taking into account the following programme constraints:
- (i) the *starting date* and *completion date* and any post site works, reporting and review period.
 - (ii) Inspection of bearings to bankseat abutments should be carried out between 11/01/2021 and 29/01/2021. This work can be carried out from the revetments without the need for traffic management and there is an element of flexibility in this.
 - (iii) Inspection of bearings to the piers should be carried out between the period of 01/02/2021 and 12/02/2021. This is when concrete testing to the piers is programmed and as such traffic management will be programmed to provide appropriate access during this period.
 - (iv) The services and other things provided by Employer (see Section 5)
 - (v) Weather and other factors that may affect the quality and efficiency of the testing works.
 - (vi) There is a typical two week lead in time for booking of road space (lane closures) which will need to be factored in to the programme. Highways England will aim to book this road space as early as possible following appointment of the contractor and following discussion with the chosen contractor and review of their programme.
 - (vii) Other road space bookings and works on the network may clash with the provisional programme so it is vital that road space is booked as early as possible following appointment of the contractor.
 - (viii) In their submission the contractor should outline in their programme required traffic management, sequence of traffic management and durations in order to successfully complete the works.
- 4.1.3 The programme should be in the form of an activity and time related bar chart, produced as a result of a critical path analysis.
- 4.1.4 The programme should preferably be provided in either a PDF or MS Excel format and cover the full contract period including post site activities. Activities should be clearly defined and named and the programme should detail the following:
- (i) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
 - (ii) activities associated with delivering the project

- 4.1.5 The *Contractor* updates the programme every 8 weeks. The *Contractor* submits an updated programme to the *Employer* upon request.

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5 SERVICES AND OTHER THINGS PROVIDED BY THE *EMPLOYER*

5.1.1 The following temporary traffic management will be provided by the *Employer* to allow the *Contractor* to Provide the Works:

- (1) The traffic management requirements shall be provided by Highways England's M&R Contractor, CHC.
- (2) For access to piers traffic management will be provided in the way of lane closures to the Silverlink roundabout. It is envisaged that traffic management will consist of Lanes 1 and 2 closures for access to the outer piers of the roundabout followed by Lanes 2 and 3 closures for access to the inner piers of the roundabout. All lane closures to the roundabout will only be carried out during night shifts (20:00 – 06:00).

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) The contractor will be working under a CDM principle contractor, Highways England's M&R Contractor, CHC.
- (2) The welfare provisions shall be provided by the PC, being Highways England's M&R Contractor, CHC.

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6 SPECIFICATION FOR THE WORKS

6.1.1 The contractor shall provide a full report with observations, conclusions and recommendations, based on the condition of the inspected bearings. As a minimum, the report shall contain the following:

1. Details of the condition of each existing bearing, including photographs and drawings to record all pertinent features.
2. Commentary on the residual life of each existing bearing.
3. Details of repair/maintenance requirements for the existing bearings.
4. Recommendations for the replacement of the bearings, once their residual life has been exceeded, including a suggested replacement methodology (i.e. jacking).

The report shall be provided as a PDF document.

The contractor should allow for 4 weeks for review of the report by Highways England and provide for amendments following comments on the report.

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