

**National Asset Delivery  
Technical Surveys and Testing**

**Works Information for 603632 M5 J24-  
25 MP 205/8 Bathpool Railway Deck  
Refurbishment – Asbestos Testing**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
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**LIST OF ANNEXES**

**Appendix 1    Supplementary Constraints**

## 1 DESCRIPTION OF THE WORKS

### 1.1 Project objectives

- 1.1.1 The principle objective of this project is to complete a desktop review of the existing asbestos information available and to conduct further site investigation at location shown on drawing HE603632-KIER-VGN-M5\_BR\_1854-SK-CB-0101, and any additional potential areas identified as part of the desktop review in order to establish if there are any ACMs present that may be affected by the proposed deck refurbishment scheme. **Note, any addition testing identified during the desktop study should be agreed with the Highways England project manager prior to the works commencing.**

(1) Testing should include:

- i. Any drainage assets within the area shown on drawing HE603632-KIER-VGN-M5\_BR\_1854-SK-CB-0101. This should include the lifting of covers over the structure to check gulley/catch pits.
- ii. Any additional areas identified during the desktop study that could be affected by the proposed deck refurbishment works

- 1.1.2 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:

- (1) Complete a desktop study of the existing asbestos information to identify any additional areas that may require testing other than those highlighted on drawing HE603632-KIER-VGN-M5\_BR\_1854-SK-CB-0101 and in paragraph 1.1.1 (1) i.. **The Asbestos survey Contractor shall seek approval from Highways England Project Manager regarding the cost of these additional testing in advance of the works.**
- (2) Complete a targeted asbestos survey on site. Testing to include detailed areas on drawing HE603632-KIER-VGN-M5\_BR\_1854-SK-CB-0101 and any additional areas highlighted from the desktop study and **as agreed with HE PM.**
- (3) Report back results/findings of the Asbestos testing carried out.
- (4) Highways England to confirm and agree TM requirements.

### 1.3 Deliverables

- 1.3.1 The *Contractor* is required to produce the following deliverables:

- (1) A copy of the completed desktop study report

- (2) A copy of the targeted asbestos survey report (with photos) including the locations of where samples were taken from and test results.

## 2 EXISTING INFORMATION

Refer to the site information documentation for further details not covered below.

### 2.1.1 Existing STATS

Motorway Communication cables located in the Southbound carriageway verge

Note: the successful survey contractor should consult with the Principal Contractor of the M5 Queue Detection scheme during mobilisation to determine if any new services have been installed as part of the works but not noted on the STATS returns yet.

See drawing HE603632-KIER-SBR-M5\_BR\_1854-DR-CB-010003 for more information on the existing STATS

The STATS return for the centre reservation duct does not show the presence of any cable. However, care should be taken during excavation to prevent any damage to the ducts and the contractor should still operate a permit to dig.

### 2.1.2 Asbestos

The initial AAP was then complied on 6<sup>th</sup> June 2010 with reviews of the AAP being completed in 2012, 2013, 2015 and 2017.

The 2017 Asbestos Management Survey report (Ref 192459) was produced by Lucion and also included trial holes and sampling.

Elements not covered by current AAPs and testing.

- Drainage assets that may be impacted by the removal of the longitudinal drainage channel

### 2.1.3 Tar

The proposed works should not encounter any Tar bound material.

### 2.1.4 The Drawings listed below apply to this contract

#### Existing As-builts

Drawing Number	Title	REV
<u>2000-2001 Maintenance scheme</u>		
BW5024/TED/1669/803	MAJOR RENEWAL AND CRACK AND SEAT SCHEME: BATHPOOL RAILWAY BRIDGE – GENERAL ARRANGEMENT	Z
<u>Original As-builts</u>		
405/203/B14/2/0	GENERAL ARRANGEMENT	D

405/203/B14/3/0	ABUTMENT DETAILS	D
405/203/B14/4/B	ABUTMENT REINFORCEMENT 1	B
405/203/B14/5/A	ABUTMENT REINFORCEMENT 2	A
405/203/B14/6/A	DECK REINFORCEMENT	A
405/203/B14/7/A	PRESTRESSED BEAMS	A

## Scheme Drawings

Drawing Number	Title	Rev
HE603632-KIER-SBR-M5_BR_1854-DR-CB-010001	Location Plan	C1
HE603632-KIER-SBR-M5_BR_1854-DR-CB-010003	Statutory Undertakers Plant	C1
HE603632-KIER-SBR-M5_MP205_5_206_8-SK-CB-0001	Scheme Plan	C1
HE603632-KIER-VGN-M5_BR_1854-SK-CB-0101	CCTV Drainage Survey and Asbestos Testing	C1

### **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 are anticipated to be 21:00-05:00, working under a series of lane closures with a temporary speed limit of 50mph. The anticipated working hours are dependent on the carriageway traffic counts.

##### **3.2.2 Work Constraints**

- (1) Bathpool Railway carries the M5 over the Bristol to Exeter Railway mainline. Whilst the works do not require access to the railway line, care should be taken to ensure the works do not impact the line of sight of train drivers (temporary lighting should be directed away from the lines, no red lights etc.). All operatives should be briefed on the measures to be put in place during the works.
- (2) The area at railway track level within Network Rail land is to be considered as a "no go area".
- (3) The method of works used for the survey should eliminate any risk of material or equipment falling from the bridge onto the track below. Special care and measures are to be implemented when working directly over bridge joints (transverse and longitudinal), in verges or on the parapet/parapet edge beams
- (4) It is also proposed to undertake a CCTV drainage survey, tendered separately, and therefore the contractors shall make arrangements for the asbestos survey to be carried out at the same time, or after, the drainage survey.

#### **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 is included as part of the TST package.
- 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.
- (1) Currently the area is clear due to vegetation clearance undertaken for the queue detection scheme. However, areas within the footprint of the surveys have the potential to support dormice and nesting birds (depending on the time of year the survey works are carried out). The surveying contractor is to consult with the *Employer* during mobilisation to confirm if the vegetation needs re-cutting and if there are any specific restrictions/constraints once a survey date is confirmed.

#### 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.

The contractor should refer to the Pre-construction information and Design Hazard Checklist and Risk Reduction Schedule provided as part of the TST package.



## 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) The services and other things provided by *Employer* (see Section 5)
- 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:
- Planned date for works to start on site
  - Duration of works
  - Adjacent site activities
  - When information will be provided back to the *Employer*
- (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 week. The *Contractor* submits an updated programme to the *Employer* upon request.

## 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) A series of lane closures with a temporary speed limit of 50mph If works are being completed in the Hard shoulder/Lane 1 then Lane 2 should also be closed with Lane 3 open to traffic. If works are being completed in Lane 3 and the Central Reservation then Lane 2 should also be closed with traffic running in lane 1. A lane 3 closure should also be provided on the opposite carriageway when works are being completed in the Centre reservation.
- (2) (2) Traffic management requirements will be finalised during mobilisation with the successful contractor.

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

- (1) Welfare facilities will be provided by the principle contractor.

## **6 SPECIFICATION FOR THE WORKS**

- 6.1.1 The *Contractor* shall undertake the works in accordance with the guidance set out by the HSE within HSG264, CAR Regulation 8, GG 105 and all other relevant standards.
- 6.1.2 All reports and survey findings should be provided in a PDF format on completion of the works. Sampling and lab testing reports should also be provided.

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