

**National Asset Delivery
Technical Surveys and Testing**

**Works Information for
570124 A38 Tideford Pavement Coring
survey**

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Original version issued with tender	ET	29/03/21

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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 recover core samples from the locations identified in section 1.2 and drawings listed in 2.1.1 to determine the presence of tar bound materials within the construction layers of the carriageway, that may have been used during the original construction.

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) The designers require a minimum of 5 cores to be taken
 - Core 1 – MP32/1 within the carriageway outside of the village to minimise disruption.
 - Core 2 – MP32/2+10m within EB layby to minimise disruption.
 - Core 3 – MP32/5 within carriageway outside of village to minimise disruption.
 - Core 4 – MP32/6+70m scheme low point.
 - Core 5 – MP33/0 scheme eastern extent.

1.3 Deliverables

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

- (1) 150mm cores shall be extracted at each location identified in section 1.2 and drawing listed in 2.1.1 in order to provide enough material for testing. Cores shall be extracted to the full depth of the bound layers.
- (2) For each core extracted a full record of the core details shall be made in the form of a core log. The log shall include a good quality colour photograph showing the side of the core with a scale strip and the core reference clearly visible.
- (3) Onsite photographs shall be taken of: the pavement surface before coring; down the core hole showing the bottom with a ruler showing full depth; the core after it is extracted; the reinstated core hole.
- (4) All cores will be sprayed with a suitable PAK marker to determine the presence of hydrocarbons.
- (5) Removal from site of all materials related to the extraction process.
- (6) Upon removal of the core samples, reinstatement of the void shall be made with a suitable bituminous HAPAS repair/reinstatement product

compatible with the adjacent bituminous pavement material. The reinstatement shall be placed and compacted in accordance with Series 900 of MCHW

- (7) Report/core logs shall be supplied electronically in PDF format to the *Employer* and shall be prepared as detailed in section 6.

FOR INFORMATION ONLY

2 EXISTING INFORMATION

- 2.1.1 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.

Drawing Number	Title	Rev.	Date
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0100	Survey Location Plan	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0121	Core Survey Plan, Sheet 1 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0122	Core Survey Plan, Sheet 2 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0123	Core Survey Plan, Sheet 3 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0124	Core Survey Plan, Sheet 4 of 4	C1	25 TH February 2021

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 night-time works, 19:00 – 06:00.
- 3.2.2 Contractor to remain within the Highways Boundaries for the duration of the works, except where agreed with both the Employer and the land owner in advance, as per clause **Error! Reference source not found..**
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information and Designers Hazard Identification & Risk Reduction Schedule attached separately.

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 here (HE570124O-A38 Tidford BD-PCI)
- 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) The services and other things provided by *Employer* (see Section 5)
 - (iii) Deliverables to be issued a maximum of 20 working days following collection of field data.
- 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 2 weeks. 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 *Consultant* to Provide the Works:

- (1) The arrangement is assumed to be combinations of Multiple Traffic light setups, some 3-way possible 4-way lights, and with traffic counts permitted 500m setups.
- (2) Full road closures are not permitted.

5.1.2 Not used.

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6 SPECIFICATION FOR THE WORKS

- 6.1.1 The *Contractor* shall undertake the works in accordance with: CS 229 Data for Pavement Assessment (formally CD 29/08)
- 6.1.2 Core logs are to be extracted by core cutting method in accordance with BS EN 12697-27:2001 and BS EN 12504-1:2009 and to be documented in accordance with the requirements of the DMRB CS 229. To be taken to full depth of bituminous pavement construction in accordance with Core Location Drawings.
- 6.1.3 Visual examination and logging of the core shall be carried out in accordance with CS 229.
- 6.1.4 Each core log shall contain a clear colour photograph of the core with the layer thickness, type of material, results of the PAK testing and description of the condition of all the layers recorded in an adjacent table. All bound core samples to be cleaned with a damp brush or cloth prior to logging and photographing.
- 6.1.5 Changes in core layers and cracks shall be clearly marked with a white mark (e.g. a white pen) across the interface of each of the different layers.
- 6.1.6 Reinstatement – All excess water to be removed with a sponge. Hole to be fully coated with a cold applied HAPAS approved bituminous sealant immediately prior to reinstatement. The holes shall then be filled with a HAPAS approved 6mm permanent bituminous repair material, added in 50mm layers. Each layer shall be compacted with hydraulic compactor for at least 30 seconds to ensure adequate compaction before adding the next layer. The final layer will be finished flush or up to 5mm proud of the surrounding surface. All reinstatement to be completed within the same works shift as extraction.
- 6.1.7 PDF colour-copy factual report required within two weeks of agreed completion on site to detail the above results. The report shall include: unique core reference; section reference and chainage; lane and offset from a specified datum point; coring date and time;
- 6.1.8 Each core sample shall be stored by the Contractor until approval has been sought from the *Employer* to confirm its disposal.