

National Asset Delivery Technical Surveys and Testing

Works Information for 601961 A30 Fraddon to Goss Moor (Highgate Interchange EB Exit Slip Road) Pavement survey

CONTENTS AMENDMENT SHEET

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TABLE OF CONTENTS

1	Description of the works	4
1.1	Project objectives	4
1.2	Scope of works	4
1.3	Deliverables.....	4
2	Existing INFORMATION	5
3	Constraints on how the Contractor Provides the Works	6
3.1	General	6
3.2	Working hours & site specific constraints	6
3.3	Health, Safety and Environment & Risk Management.....	6
4	Requirements for the programme	8
5	Services and other things provided by the <i>Employer</i>	9
6	Specification for the works	10

LIST OF ANNEXES

Appendix 1 Supplementary Constraints

1 DESCRIPTION OF THE WORKS

1.1 Project objectives

The principle objective of this project is to undertake pavement cores at locations indicated on drawing "HE601961 A30 Highgate Hill EB Off-slip PAVEMENT CORE LOCATIONS"

This information is required to aid in the design of pavement surfacing treatments to fully address existing surface and structural defects.

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:

- (1) Undertake pavement cores at the locations detailed on drawing "HE601961 A30 Highgate Hill EB Off-slip PAVEMENT CORE LOCATIONS"
- (2) Undertake the proposed coring survey work within Traffic Management arrangements provided through Highways England.

1.3 Deliverables

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

- (1) The proposed coring survey shall be undertaken with the purpose of identifying the existing pavement depth and construction make-up of individual bituminous pavement courses. Findings shall be recorded on Core Log Reports.
- (2) Each core sample shall be tested with a suitable PAK Marker to indicate the possible presence of Tar Bound Material. Findings shall be recorded on the Core Log Reports.
- (3) Core Log Reports shall be suitably labelled and cross referenced to plan drawings to enable the location of each core sample to be identified. Each core sample shall be photographed and the image attached to the individual core log report, clearly identifying the pavement layers and material type.
- (4) Reports shall be supplied electronically in PDF. format to Highways England's Scheme Project Manager
- (5) Upon removal of the core samples, reinstatement of the void shall be made with a suitable bituminous or cementitious repair/reinstatement product compatible with the adjacent bituminous pavement material. The reinstatement shall be placed and compacted in accordance

with the product installation guidance and finished slightly proud (5mm to 10mm) of the surrounding finished surface level.

2 EXISTING INFORMATION

1.1.1 Statutory Undertaker information

Drawing Number	Title	Date
Index-A30-049	Location plan of Stats tiles	13.03.20
A30-049-07847	Stats Tile - 07847	13.03.20
A30-049-07849	Stats Tile - 07849	13.03.20

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	Revision / Date
HE601961 A30 Highgate Hill EB Off-slip PAVEMENT CORE LOCATIONS	A30 Highgate Hill EB Off-slip Core Sampling Location Plan	C2

The statutory undertakers information provided on the drawings listed above is indicative and must not be taken as definitive or conclusive as to the presence or position of the apparatus. The information on the drawings has been extracted from Kiers 'Prove-It' C2 database at the time of writing (13.03.20). No liability can be accepted for any inaccuracies in the information given. The Contractor shall satisfy themselves as to the exact position of the statutory undertakers or any other public or privately-owned services or supplies affected by the works.

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 It is anticipated that the *Contractor's* working hours for site works shall be 20:00hrs to 04:00hrs.
- 3.2.1 Traffic Management arrangements are to be confirmed by Highways England. It is anticipated that a full slip road closure with an alternative diversion route shall be provided to enable the proposed Works to be undertaken.

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 relation to health and safety duties.
- 3.3.2 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. Details on the scheme can be found here:
<http://www.highwayssafetyhub.com/safety-passport.html>
- 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.
- 3.3.4 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) Highways England to confirm: - Details of any further constraints on the sequence and timing that work that is to be undertaken. Requirements for completion of site work, including any phasing of works, and deadlines for reporting.
 - (iv) The Local Authority (Cornwall Council) should also be consulted regarding constraints on the sequence and timings of the works undertaken, and traffic management arrangements.
- 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) The *starting date*, *completion date* & *Contractor's* planned completion.
 - (ii) For each activity, the proposed resources (plant & labour) expected to deliver each activity should be shown on the programme.
 - (iii) Review periods for any reporting requirements.
 - (iv) Key dates for the Employer to provide 'services and other things'.
 - (v) Key dates for co-ordination with Others
- 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 under the Construction Works Framework* to allow the *Contractor* to Provide the Works:

- (1) It is assumed, based on site constraints / traffic flow data that a weekday overnight total closure will be the preferred traffic management for these works. It shall be assumed that this will consist of:
 - A30 EB exit slip road total closure with an accompanying A30 EB Mainline Lane 1 closure to accommodate Chapter 8 'Works Access' arrangements. Also an associated partial lane closure/narrowing of the available running lane/s around the outer ring of the Interchange circulatory to accommodate the proposed works within the slip road junction adjoining the Interchange circulatory.

1 The works are expected to be completed in 1 night.

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

- (1) Welfare facilities (to be provided by the Principal Contractor).

6 SPECIFICATION FOR THE WORKS

The *Contractor* shall undertake the following works:

- 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 HD 29/08. To be taken to full depth of bituminous pavement construction in accordance with Core Location Drawings.
- Visual examination and logging of the core shall be carried out in accordance with HD29/08.
- All core logs to be referenced to GPS grid coordinates and also referenced by Marker Post within core log report.
- 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.
- 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.
- 1 No Dynamic Cone Penetrometer (DCP) test/analysis to be undertaken at the core location identified within the Core Schedule. The Californian Bearing Ratio (CBR) shall be ascertained/calculated and plots/results shall be shown within the report.
- 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 with the surrounding surface. All reinstatement to be completed within the same works shift as extraction.
- Each core/core layer to be subject to PAH and Phenol analysis if required. The cores to be subject to further analysis shall be agreed once the report has been received by Highways England.
- PDF colour-copy factual report required within two weeks of agreed completion on site to detail the above results.

Each core sample shall be stored by the Contractor until approval has been sought from Highways England to confirm its disposal.