

**National Asset Delivery
Technical Surveys and Testing**

**Scope for
570124 A38 Tideford GPR survey**

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	1.0	Original version issued with tender	ET	29/03/21

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LIST OF ANNEXES

Appendix 1 Supplementary Constraints

1 PURPOSE OF THE SERVICES

1.1 Project objectives

1.1.1 The principle objective of this survey is to ensure that we have accurate and complete data in relation to the underground services in the key location so that we can finalise the scheme proposals whilst avoiding STATS conflicts. The specification that applies to the *services* is included in Section 6

1.2 Scope of services

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

1.2.2 Undertake a fully comprehensive Ground Penetrating Radar (GPR) survey of the extents shown within HE570124O-KIER-VTO-A38MP31.8-DR-CD-0117 to 0120.

1.3 Deliverables

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

- (1) Prior to the commencement of the GPR survey a method statement shall be produced with details that can be used by the overseeing organisation to ensure the information produced by the GPR survey is sufficiently accurate and reliable.
- (2) Survey Report, to include: all data in electronic format; be referenced to Highways England's network reference for the relevant section; test section summarising the results (including site photographs where applicable); assumptions used; measurement of accuracy achieved, and problems encountered.
- (3) Drawings, Graphs and tables should be produced to a standard format, displaying as much information as possible. Including: road number; network section identifier; chainage in meters along the road from the start of the network section; date of survey; direction of survey; road type, lane surveyed; survey length; reporting interval or scan interval; surface moisture conditions; location of construction changes; pavement layer interface depth in millimetres; location and size of subsurface defects.
- (4) An example of GPR reporting can be found in CS 229 Data for Pavement Assessment (formally HD 29/08), Appendix C.
- (5) GPR data shall be provided in both PDF and AutoCAD (.dwg) file formats.

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-0117	GPR Survey Plan, Sheet 1 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0118	GPR Survey Plan, Sheet 2 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0119	GPR Survey Plan, Sheet 3 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0120	GPR Survey Plan, Sheet 4 of 4	C1	25 TH February 2021

3 CONSTRAINTS ON HOW THE CONSULTANT PROVIDES THE SERVICES

3.1 General

- 3.1.1 The *Consultant* Provides the Services in such manner as to minimise the risk of damage or disturbance to or destruction of third party property.
- 3.1.2 The *Consultant* complies with the constraints and meets with the requirements outlined in Appendix 1.
- 3.1.3 The *Consultant* submits information detailing how the *Consultant* will provide the Services to the *Client* prior to the *services* commencing. This information will include any lifting plans, risk assessments, method statements, the *Consultant's* staff training information and any other relevant Health and Safety requirements.

3.2 Working hours & site-specific constraints

- 3.2.1 The Consultant'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 Health, Safety and Environment & Risk Management

Health and Safety requirements

- 3.3.1 In Providing the Services the *Consultant* meets the requirements of Annex 2 of the supplementary constraints relation to health and safety duties.
- 3.3.2 When implemented, the *Consultant* 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 GPR surveys shall not be carried out on recently salted (de-iced) roads. Salt increases the conductivity of pavement materials which attenuates to radar signal and reduces the radar signal, there is also a risk that saltwater might penetrate to the subsurface layers.
- 3.3.4 For details of the CDM duty holders, refer to the pre-construction information which can be found here (HE570124O-A38 Tidford BD-PCI)
- 3.3.5 Before commencing the construction phase of the *services*, the *Consultant* confirms to the *Client* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Consultant*

provides all necessary facilities to Provide the Services and to comply with the minimum requirements set out in HSE guidance document L153.

Environmental requirements

- 3.3.6 In Providing the Services the *Consultant* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

Risk Management

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

4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Consultant* submits programme to the *Client* with his tender.
- 4.1.2 The *Consultant* Provides the Services 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 *Client* (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* & *Consultant'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 *Consultant* should provide details of the proposed resources (plant, labour, subcontractors etc.) expected to deliver each activity. This information can either be shown on the programme itself or provided in an associated resource statement included in the Proposal for Providing the Services.
- 4.1.6 The *Consultant* updates the programme every 2 weeks. The *Consultant* submits an updated programme to the *Client* upon request.

5 SERVICES AND OTHER THINGS PROVIDED BY THE *CLIENT*

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

- (1) It is anticipated that the following Traffic management will be required to undertake the works will 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 SERVICES

- 6.1.1 The Contractor shall undertake a Ground Penetrating Radar (GPR) survey in accordance with: PAS256, Buried assets – Capturing, recording, maintain and sharing of location information and data – Code of practice and PAS128, Specification for underground utility detection, verification and location. Of the area identified on drawings listed in section 2.1.1.
- 6.1.2 The Contractor shall locate and identify buried services in line with HSG47 (Third Edition) 2014

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