

**National Asset Delivery**  
**Technical Surveys and Testing**

**Scope for HE607428 - A1 NB/SB**  
**Newark to Carlton on Trent – Pavement**  
**Development – Buried Utility (GPR)**  
**Survey**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
0	0	Original version issued with tender	AM	08/03/21

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**LIST OF ANNEXES**

**Appendix 1**   **Supplementary Constraints**

## 1 PURPOSE OF THE SERVICES

### 1.1 Project objectives

- 1.1.1 The principal objective of this project is to carry out Ground Penetrating Radar, then subsequently provide associated reports & dwgs
- 1.1.2 Works are anticipated to be carried out in 1no. shift.
- 1.1.3 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:

Category	Survey Description
Utility Survey	Buried utility survey to locate and verify underground utilities via scanning and GPR in accordance with PAS 128:2014

### 1.3 Deliverables

- 1.3.1 The *Consultant* is required to produce the following deliverables:
  - (1) An appropriate individual to attend (remotely) pre-commencement site inspection & client meeting.
  - (2) The contractor is to provide plant, materials & labour to enable features to be accurately surveyed.
  - (3) Plant, materials & labour to carry out a GPR survey on site for the timings as stated in section 3/4 and specification as stated in section 6.
  - (4) CAD dwgs & reports as detailed in section 6 within 2 weeks of works being completed on site.
  - (5) Reports as detailed in section 6.

## 2 EXISTING INFORMATION

2.1.1 The Drawings listed below apply to this contract.

2.1.2 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
HE607428-KIER-GEN-A1-ML-Z-DE-CH-0000-01	Location Plan	P1
HE607428-KIER-HPV-A1-ML-A-SH-CH-01 A1 Northbound Schedules and Plans	A1 NB/SB Newark to Carlton on Trent Pavement - Coring/DCP/GPR/FWD/Deflectograph Schedule and Plan	-
HE607428-KIER-HPV-A1-ML-B-SH-CH-01 A1 Southbound Schedules and Plans	A1 NB/SB Newark to Carlton on Trent Pavement - Coring/DCP/GPR/FWD/Deflectograph Schedule and Plan	-
HE607428-KIER-VUT-A1-ML-Z-DR-Z-2700-01 to 05	Existing Utilities Layout sheet	P1

NOTE: Full C2 returns are available & will be provided in the 'Stats' folder.

### **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 21:00 to 06:00 Monday to Friday.
- 3.2.2 Refer to environmental assessment.

#### **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 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. 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 which can be found here HE607428-KIER-GHS-A1\_ML\_Z-HS-ZS-02 Pre-Construction Information.
- 3.3.4 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

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

Risk Management

- 3.3.6 The *Consultant* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 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.

For Information Only  
Do not complete at this stage

## 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* (21/04/2021) and *completion date* (01/05/21) and any post site works, reporting and review period
  - (ii) The services and other things provided by *Client* (see Section 5)
  - (iii) The contractor is to allow for a prestart meeting (remotely), to develop the programme.
  - (iv) Survey results are expected to be returned within two weeks of the survey completing on site
- 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
  - (iii) Key dates for co-ordination with Others
- 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 week. 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:

Assumed traffic management for this is as follows;

- Full closure of the A1 northbound carriageway between A1/A46 Newark on Trent to A1/A57/A614 Apleyhead - dates on site NB 27/28/29/30 April.
- Full closure of the A1 southbound carriageway between A1/A57/A614 Apleyhead to A1/A46 Newark on Trent – dates on site SB 21/22/23/26 April
- Full Closures of the slip roads

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

- Welfare facilities will be provided by the Principal Contractor (the TM provider).
- Desktop search for utility information (Type D) survey. This information will be provided to the contractor at the pricing stage. The contractor is not required to send out for this information again.

## 6 SPECIFICATION FOR THE SERVICES

### **General**

GPR surveys are required to ascertain location and depth of existing services at location of footway on the A1 northbound carriageway.

The works extents are limited to a footway on the A1 northbound adjacent to a layby (100m in length) at chart section 3000A1/180 Chainage 900m to 1000m, larger pavement investigations are planned between Newark on Trent & Carlton on Trent at the same time. The grid coordinates for the GPR are OSGR E479818, N360477 to E479839, N360575, refer to HE607428-KIER-HPV-A1-ML-A-SH-CH-01 A1 Northbound Schedules and Plans.

The contractor is to familiarise and allow for any requirements in the Environmental Alert Form and Screening Assessment document included within the works package provided. The contractor shall visually inspect the works area for any potentially hazardous waste in vicinity of the layby. Testing/removal to be carried out if applicable prior to start of works.

### **Underground utility detection, verification and location Survey**

The following information specifies the scope, survey type accuracy and deliverables required for this survey.

It is to be noted that a desktop search for utility information (Type D) has already been carried out by Kier. This information will be provided to the contractor at the pricing stage. The contractor is not required to send out for this information again.

The following surveys are to be carried out in accordance with PAS 128:2014. The details of how the specified survey type is to be carried out, including methodology and deliverables are included in this document. Further information is included below.

#### **Type B survey**

Type B survey shall be undertaken using geophysical techniques to detect and identify utilities within the survey area. The following parameters apply;

- Quality level shall be QL-B1P with post processing. Multiple geophysical techniques shall be used as detailed in PAS 128:2014
- The contractor is to advise the client and price accordingly the level of detection method (M1 – M4) required to achieve the quality level defined above.

## Type A Survey

A Type A survey shall be undertaken by inspection at access points in the footway such as in a manhole or inspection chamber to quality QL-A.

Following a type D survey the following underground utilities have been identified in the vicinity of the existing footway;

- British Telecom
- Severn Trent Water
- Foul Sewer

A method statement, programme of works, risk assessment and safety plan for the survey shall be submitted to the client before commencing work on-site.

Physical entry into confined space is not to be attempted without suitably trained operatives and safety equipment. Attention is drawn to HSE's publication, Confined space – A brief guide to working safely (INDG258) [1].