

**National Asset Delivery  
Technical Surveys and Testing**

**Scope for**

**601947 - M5 J20 SB Entry Slip MP155/7  
Geotech**

**Technical Survey  
(Topographical and utility survey)**

**CONTENTS AMENDMENT SHEET**

| Amend.<br>No. | Revision<br>No. | Amendments                          | Initials | Date     |
|---------------|-----------------|-------------------------------------|----------|----------|
| 0             | 0               | Original version issued with tender | LY       | 29/07/20 |
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**LIST OF ANNEXES**

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

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## 1 PURPOSE OF THE SERVICES

### 1.1 Project objectives

1.1.1 The principle objective of this project is to offer a practicable method to shore up the foundations and carriageway to prevent further subsidence as numerous animal burrows evident in embankment and subsidence of VRS foundations observed.

1.1.2 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) Topographical and buried services mapping surveys

### 1.3 Deliverables

1.3.1 The Consultant is required to produce the following deliverables:

- (1) 2D & 3D CAD Models of surveys  
(2) Utility location survey report

## 2 EXISTING INFORMATION

2.1.1 The following existing information is provided:

- (1) Statutory Undertakers Apparatus Information (STATS)

2.1.2 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 / Valid Until |
|---|--|------------------------|
| HE601497-KIER-HGN-M5_J20_M-DE-CH-0000_01                                | M5 J20 Southbound Entry Slip Location Plan     | C0                     |
| HE601947-KIER-VTO-M5_J20_J-DR-CH-0700_01                                | TOPO and utility mapping survey scheme extents | C1                     |
| TOPO1250_M5-062-01287<br>TOPO1250_M5-062-01290<br>TOPO1250_M5-062-01292 | Statutory Undertakers Apparatus Information    | 06-07-2020             |

### **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 confirmed by the Employer. Night shifts are anticipated.
- 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.

#### **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 For details of the CDM duty holders, refer to M5 J20 SB Entry Slip MP155/7 Geotech – Pre-Construction Information Pack and Design Hazards Checklist and Risk Reduction Schedule. Scheme is not CDM Notifiable.
- 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.

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## 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)
- 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) review periods for any reporting requirements
  - (iii) key dates for the Employer to provide 'services and other things'
  - (iv) 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:

- (1) M5 J20 Southbound on slip Closure and a Mainline Southbound Full closure to at least the end of the slip road.

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

- (1) If the *contractor* will be working under a CDM Principal Contractor, state that the welfare facilities will be provided by the Principal Contractor.

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## 6 SPECIFICATION FOR THE SERVICES

6.1.1 The *Consultant* shall Provide the Services in accordance with PAS 128:2014 Specification for underground utility detection, verification and location.

6.1.2 The *Contractor* must provide the *works* under a quality management system which:

- (1) is certified to ISO 9001,
- (2) incorporates an environmental management system which works to the principles of ISO 14001,
- (3) includes requirements for adopting the principles of BS 11000 and
- (4) Complies with good industry practice and encourages innovation during the contract duration.

6.1.3 Specific requirements relating to the output of the survey e.g. format of the report and ICT standards. –

- 1) 2D & 3D CAD Models (DWG & PDF Format) produced in accordance with GG 184 – Specification for the use of Computer Aided Design
- 2) A schematic drawing of the TOPO survey with relevant key and any associated notes
- 3) A breakdown / record of any problems encountered whilst undertaking the Topographical survey in PDF format
- 4) Utility location survey report in PDF format
- 5) Use of access strips – Access strips set every 20m through survey extents. Strips are 1m wide
- 6) Supply all levels / chambers / gullies throughout survey extents
- 7) Site diaries
- 8) Site photographs