

National Asset Delivery Technical Surveys and Testing

569906

**Works Information for M5 J18-19 SB
143.8-145.5 Flood HS**

Trial Hole Survey

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Tender Issue	JH	April 2020

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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 excavate a series of trial holes to confirm the location of the existing statutory services in relation to the existing drainage located in the eastbound and westbound carriageway verges.
- 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) Trial Hole survey. The extent of the survey is shown on drawing:
HE569906-KIER-HDG-M5_J18_J19-DR-CD-0100_04.

1.3 Deliverables

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

- (1) Trial Hole daily report data to be provided in PDF and MS Excel file formats.

2 EXISTING INFORMATION

- 2.1.1 HADDMS drainage asset data is available and is shown on drawings: HE569906-KIER-HDG-M5_J18_J19-DR-CD-0100_04.
- 2.1.2 C2 existing statutory services information has been obtained and is shown on drawings: HE569906-KIER-HDG-M5_J18_J19-DR-CD-0100_04.
- 2.1.3 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
HE569906-KIER-VOL-M5_J18_J19-DR-CD-0000_01	Location Plan	C1/ April 2020
HE569906-KIER-HDG-M5_J18_J19-DR-CD-0100_04	Trial Hole Survey Location Plan	C1/ April 2020

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 20:00 – 05:00.
- 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..**
- 3.2.3 Access to the site will be via the M5 carriageway traffic management. It is anticipated that hard shoulder and/or lane closure will be required as part of the traffic management. TM requirements are to be confirmed by the Contractor
- 3.2.4 The TM provider will act as the Principal Contractor for this work.

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 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/passport-scheme.html>
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found '569906 Designer's PCI - Trial Hole Survey & 569906 DH Checklist & RRS - Trial Hole Survey'.

- 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) Works within trenches and manholes are classified as confined spaces working, and the *Contractor* should include for this within their method statement and risk assessment.
- 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 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 *Contractor* to Provide the Works:
- (1) The traffic management is anticipated to consist of hard-shoulder and/or lane closure and is to be installed after 20:00 and removed before 05:00. TM requirements are to be confirmed by the Contractor.
- 5.1.2 Welfare facilities are not provided by the *Employer*, the *Contractor* should allow for them within their tender submission.

6 SPECIFICATION FOR THE WORKS

- 6.1.1 The *Contractor* shall undertake the works in accordance with:
- 6.1.2 The *Contractor* must provide the *works* under a quality management system which is certified to ISO 9001 & BS 11000 and Environmental management system which works to ISO14001.
- 6.1.3 The Trial Hole Survey is to be carried out in accordance with the Manual of Contract Documents for Highway Works (MCHW), Volume 5 Contract Documents for Specialist Activities, Section 3 Ground Investigation, Part 4 Specification, Chapter 6.
- 6.1.4 The Trial Hole size to be excavated is to be 2.5m long by 0.6m wide by 1.5m deep.
- 6.1.5 The Trial Hole locations are shown on drawings HE569906-KIER-HDG-M5_J18_J19-DR-CD-0100_04.
- 6.1.6 The Contractor shall keep all Trial Holes free of surface water run-off. Groundwater shall be controlled by pumping from a sump to permit continuous work in so far as the rate of inflow of groundwater can be controlled by use of a 50mm outlet diameter pump and the excavation remains stable.
- 6.1.7 Backfilling of the pits and trenches shall be carried out in accordance with clause 3.9 (MCHW, Volume 5 Contract Documents for Specialist Activities, Section 3 Ground Investigation, Part 4 Specification, Chapter 3) material replaced at similar depth as encountered. In open land any surplus shall be

heaped proud over the pit site. In paved areas reinstatement shall be as specified in Schedule 2.

6.1.8 Trial Hole daily reports are to be produced and to include the following information;

- contract title and site location
- Contractor's and operator's name
- exploratory hole reference number and grid reference of all four corners of the trial hole
- day and date
- type and depth of any services or drains encountered
- location of any services or drains encountered within the trial hole
- Equipment and technique in use
- Depth of each change of stratum
- Description of each stratum
- Records of groundwater
- Details of backfilling and/or infilling
- The dimensions of the pit or trench in plan and orientation relative to grid North
- Estimate of the quantity of water, if any, pumped from the pit or trench, the type of pump and time spent on pumping
- Photographs to be taken to record findings (services or drains encountered, stratum and groundwater)
- Details of photographs taken

6.1.9 The Trial Hole daily report data to be provided in PDF and MS Excel file formats.