

**National Asset Delivery  
Technical Surveys and Testing**

**Works Information for HE566457  
A303 Mere MP 167.0-170.0 Culvert  
Flood Hotspot  
Technical Survey  
(Trial Hole 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	JCK	JCK

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## LIST OF ANNEXES

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

## **1 DESCRIPTION OF THE WORKS**

### **1.1 Project objectives**

1.1.1 The principal objective of the trial hole works is to locate and identify presence and extent of the existing STATS apparatus / buried services in relation to the existing highways drainage apparatus in a selected number of locations to further inform drainage feasibility studies and any prospective drainage remediation proposals within the scheme extents.

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 Holes to locate and identify existing buried services. The extent of trial hole works has been limited to a selected number of locations and these have been located within the limits of the existing soft estate (soft verges and soft central reserve). There are 7 no. of trial holes in total from TH01 to TH07 and the exact locations for proposed trial holes are shown on Trial Hole Location Plans referenced in tables in Paragraph 2. Each TH location is referenced by a measurement/offset/distance to an existing feature e.g. start/end of VRS, building, electricity pylon etc. and annotated with the name/type of service that is targeted and with requirement regarding vegetation clearance.
- (2) Trial hole works are anticipated to be undertaken under guidance of the Scheme Design Engineer.

### **1.3 Deliverables**

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

- (1) Locate the services identified at the planning stage survey as being in the work area.
- (2) Make sure those involved in detecting and identifying services are competent in the proper use of survey tools and detecting devices as well as reading/interpreting plans.
- (3) Once detected, identify and mark the services and confirm their status – i.e. whether electricity cables are live, whether gas pipes are pressurised - and then record their location.

## 2 EXISTING INFORMATION

2.1.1 The following existing information is provided:

- (1) Statutory Undertakers Apparatus Information (STATS) – as referenced in paragraph 2.1.2.
- (2) Pre-Construction Information Pack (PCIP), Designer's Hazard Checklist and Risk Reduction Schedule (DHCRRS) and Site Information - provided as part of the Survey Information Packs (SIP) for this scheme.

2.1.2 The Drawings listed below apply to this contract. Refer to the site information document for details of existing site conditions including ground conditions, limitation on access, position of existing structures, etc.

[Note: (SS) after drawing number/reference denotes that drawing revision has been superseded by a newer revision]

Drawing Number	Title	Rev.	Date
HE566457-KIER-GEN-A303-DR-CD-0100_01 (SS)	Location Plan and Extent of Works	P1	28/07/2019
HE566457-KIER-VUT-A303-DR-CD-0100_01 (SS)	Trial Hole Location Plan (Sheet 1 of 5)	P1	24/01/2020
HE566457-KIER-VUT-A303-DR-CD-0100_02 (SS)	Trial Hole Location Plan (Sheet 2 of 5)	P1	24/01/2020
HE566457-KIER-VUT-A303-DR-CD-0100_03 (SS)	Trial Hole Location Plan (Sheet 3 of 5)	P1	24/01/2020
HE566457-KIER-VUT-A303-DR-CD-0100_04 (SS)	Trial Hole Location Plan (Sheet 4 of 5)	P1	24/01/2020
HE566457-KIER-VUT-A303-DR-CD-0100_05 (SS)	Trial Hole Location Plan (Sheet 5 of 5)	P1	24/01/2020
Drawing Number	Title	Rev.	Date
HE56457-KIER-HGN-A303_MP167.0_170.0-DR-CD-0000-01	Location Plan and Scheme Extents (Sheet 1 of 1)	C1	29/05/2020
HE566457-KIER-VUT-A303_MP167.0_170.0-DR-CD-0100_01	Trial Hole Location Plan (Sheet 1 of 5)	C1	29/05/2020
HE566457-KIER-VUT-A303_MP167.0_170.0-DR-CD-0100_02	Trial Hole Location Plan (Sheet 2 of 5)	C1	29/05/2020
HE566457-KIER-VUT-A303_MP167.0_170.0-DR-CD-0100_03	Trial Hole Location Plan (Sheet 3 of 5)	C1	29/05/2020
HE566457-KIER-VUT-A303_MP167.0_170.0-DR-CD-0100_04	Trial Hole Location Plan (Sheet 4 of 5)	C1	29/05/2020
HE566457-KIER-VUT-A303_MP167.0_170.0-DR-CD-0100_05	Trial Hole Location Plan (Sheet 5 of 5)	C1	29/05/2020

- 2.1.3. For a full list of Statutory Undertaker Drawings (Scheme-wide C2 STATS Service Location Plans – pdf format and STATS CAD Drawings – dwg format) and other parts of the full package of STATS information obtained from the Kier PROVE IT data base containing safety critical information in relation to works in vicinity of STATS, please refer to the Pre-Construction Information Pack: HE566457\_A303 Mere\_Trial Holes\_PCIP\_Rev1, Appendix B and all other relevant files within the STATS Information Folder provided as part of the Survey Information Pack (SIP) for this scheme.

### **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 are anticipated to be 19:30 – 06:00 (night-time works), subject to confirmation by the *Employer*.
- 3.2.2 *Contractor* shall 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.** Any relevant contact details (e.g. for access) shall be advised by Highways England.
- 3.2.3 Traffic Management window and contact details for Highways England Network Management / Occupancy shall be advised by Highways England. Contact for the Highways England South West Network Occupancy Team (Email: [SouthWestRoadspace@highwaysengland.co.uk](mailto:SouthWestRoadspace@highwaysengland.co.uk)).

#### **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/safety-passport.html>
- 3.3.3 For details of the CDM duty holders and other details, refer to the following PCI documents:

- (i) Pre-Construction Information Pack (PCIP): HE566457\_A303 Mere\_Trial Holes\_PCIP\_Rev1
- (ii) Designer's Hazard Checklist and Risk Reduction Schedule (DHCRRS): HE566457\_A303 Mere\_Trial Holes\_DHCRRS\_Rev1
- (iii) The Scheme is not CDM Notifiable.

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) Survey results / reports to be provided to the Design Team by the date of 13/11/2020. 14 weeks allowance for procurement has been assumed.
  - (ii) The services and other things provided by *Employer* (see Section 5)
  - (iii) Works are classified as confined spaces working, and the *Contractor* should include for this within their method statement and risk assessment. Vegetation clearance works are required to be undertaken under supervision of an ecologist prior to trial hole works to allow access to proposed trial hole working areas. The extent of vegetation clearance works has been shown on drawings: HE566457-KIER-HSC-A303\_MP167.0\_170.0-DR-CD-0200\_01-05 C1. These drawings are superseding previously issued revision P1 drawings. The extent of vegetation clearance on these drawings must be read in conjunction with Trial Hole Survey Location Plans listed in Section 2.1.2.
- 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 before commencement of the survey works. 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) Highways England Scheme Project Manager (SPM) shall confirm traffic management. It is anticipated that Lane 1 or 2 EB or WB night time closures are to be provided as required on the A303 Mainline. If traffic counts allow, daytime working is permitted.

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

- (1) *Contractor* will be working under a CDM Principal Contractor who will provide welfare facilities.
- (2) *Contractor* shall confirm any other elements expected to be provided by the *Employer*.

## 6 SPECIFICATION FOR THE WORKS

- 6.1.1 The *Contractor* shall undertake the works in accordance with: PAS128:2014 (Specification for underground utility detection, verification and location) and HSG47 (Third Edition) 2014 (HSE – Avoiding danger from underground services). Trial holes (with approximate dimensions: 2.5m long, 0.6m wide & 1.5m deep) are expected to be undertaken within the soft verge and soft central reserve adjacent to the carriageway above the existing and/or suspected drainage pipes to locate and identify buried services in line with HSG47. Existing drainage apparatus comprises predominantly gullies, carrier / filter pipes, channels, catchpits / manholes, mainly in the verges and central reserve adjacent to mainline and slip road carriageways of the M5 J13. Proposed trial holes are targeting various buried services, which are located in vicinity of or are visually crossing/clashing with drainage pipes on STATS Plans.
- 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 *Contractor* shall adhere to requirements of the PAS128:2014 Standard and the HSG47 Guidance – both being industry standards.
- 6.1.4 *Contractor* shall adhere to the following specific requirements relating to the output of the survey:
- (1) A Trial Hole Survey Report with photos to be supplied in pdf and/or .doc format. Results should identify all services located, pipe/duct diameter, depth and offsets from suitable marker; e.g. front of kerbs. Photos of the trial holes shall be clearly marked/numbered/labelled etc. to allow referencing to the relevant TH locations of targeted services and coinciding drainage apparatus.