

**National Asset Delivery
Technical Surveys and Testing**

Works Information for

566457 - A303 Mere MP 167.0-170.0

Culvert Flood Hotspot

Technical Survey

(Drainage CCTV Survey)

CONTENTS AMENDMENT SHEET

Amend. No.	Revision 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 DESCRIPTION OF THE WORKS

1.1 Project objectives

1.1.1 The principal objective of the Drainage CCTV Survey is to identify and locate existing drainage apparatus and to establish its connectivity and its structural and serviceability condition. The Drainage CCTV Survey aims also at the verification and confirmation of type and location of existing drainage assets, including existing outfalls, ditches and watercourses. The results obtained by the Drainage CCTV Survey provide vital data to understand the as-built arrangement of the existing apparatus and its current condition to further inform drainage feasibility studies and help developing any prospective drainage remediation proposals within the scheme extents, where required.

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) Full drainage assets and condition survey covering all drainage assets located within the extents shown on drawings: HE566457-KIER-VDS-A303_MP167.0_170.0-DR-CD-0100_01-05 C1. The boundary enclosed by the red line is indicative only and if drainage assets connected with the highway drainage network are identified beyond its extents, they should also be fully surveyed in line with CS 551 and CD 535.

1.1 Deliverables

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

- (1) Detailed Defect Survey of all pipework within the scheme extents, recording both structural and service defects, as well as the detailed pipe inventory.
- (2) Non-pipework detailed defect survey, recording both structural and service defects, as well as the inventory and physical attributes.
- (3) Assets Report (.pdf format). This shall include Manhole/Catchpit Cards with recorded chamber cover levels, pipe invert levels, connectivity diagram showing incoming & outgoing pipes and chamber internal dimensions.

- (4) Defects Report (including Schedule of Defects) (.pdf format).
- (5) Condition survey including WinCan Report with photographs (.jpg format) and video recordings (.mpg format) (on DVD or portable storage device) and Survey Report (.pdf format).
- (6) 2D drawings showing Asset Inventory Drawings, Condition Drawings and Design Drawings shall be provided in both AutoCAD (.dwg) and (.pdf) format.

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 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-VDS-A303-DR-CD-0500_08 (SS)	Drainage CCTV Survey Extents (Sheet 1 of 3)	P1	08/2019
HE566457-KIER-VDS-A303-DR-CD-0500_09 (SS)	Drainage CCTV Survey Extents (Sheet 2 of 3)	P1	08/2019
HE566457-KIER-VDS-A303-DR-CD-0500_10 (SS)	Drainage CCTV Survey Extents (Sheet 3 of 3)	P1	08/2019

Drawing Number	Title	Rev.	Date
HE566457-KIER-HGN-A303_MP167.0_170.0-DR-CD-0000_01	Location Plan and Scheme Extents (Sheet 1 of 1)	C1	29/05/2020

Drawing Number	Title	Rev.	Date
HE566457-KIER-VDS-A303_MP167.0_170.0-DR-CD-0100_01	Drainage CCTV Survey Extents (Sheet 1 of 5)	C1	09/06/2020
HE566457-KIER-VDS-A303_MP167.0_170.0-DR-CD-0100_02	Drainage CCTV Survey Extents (Sheet 2 of 5)	C1	09/06/2020
HE566457-KIER-VDS-A303_MP167.0_170.0-DR-CD-0100_03	Drainage CCTV Survey Extents (Sheet 3 of 5)	C1	09/06/2020
HE566457-KIER-VDS-A303_MP167.0_170.0-DR-CD-0100_04	Drainage CCTV Survey Extents (Sheet 4 of 5)	C1	09/06/2020
HE566457-KIER-VDS-A303_MP167.0_170.0-DR-CD-0100_05	Drainage CCTV Survey Extents (Sheet 5 of 5)	C1	09/06/2020

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_Drainage CCTV_PCIP_Rev1, Appendix B and all other relevant files within the STATS Information Folder provided as part of the Survey Information Packs (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*. Priority Asset and Outfall Surveys/Assessments, however, are envisaged to be carried out during the day for visibility reasons.
- 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.** In line with clause 1.2.1 (1), the Contractor may be required to encroach outside of the Highways England boundaries to access some parts of the existing drainage apparatus. 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 [REDACTED]

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 for other details, refer to the pre-construction information which can be found here:
- (i) Pre-Construction Information Pack (PCIP): HE566457_A303 Mere_Drainage CCTV_PCIP_Rev1
 - (ii) Designer's Hazard Checklist and Risk Reduction Schedule (DHCRRS): HE566457_A303 Mere_Drainage CCTV_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 05/10/20.
 - (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 drainage survey to allow access to all existing drainage survey 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 Drainage Survey Extents Drawings 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.

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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*.

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6 SPECIFICATION FOR THE WORKS

6.1.1 A detailed Drainage Survey is required for all existing drainage assets to capture the inventory, connectivity, structural and serviceability condition of the existing drainage apparatus, comprising continuous assets (pipes, channels), as well as point assets (manholes, catchpits, gullies) and including outfalls, culverts, watercourses and ditches. The *Contractor* shall undertake the works in accordance with CS 551 (Drainage Surveys) and CD 535 (Drainage Asset Data and Risk Management). The extent of the drainage survey requirement has been shown on drawings: HE566457-KIER-VDS-A303_MP167.0_170.0-DR-CD-0100_01-05 C1. The boundary enclosed by the red line is indicative only and if drainage assets connected with the highway drainage network are identified beyond its extents, they should also be fully surveyed in line with CS 551 and CD 535. Existing Outfalls, ditches and watercourses require assessment for priority asset and HEWRAT purposes. Outfall / Watercourse assessment, carried out to inform HEWRAT, shall include estimated River & River Bed Widths (m) and estimated Side Slopes (m/m).

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 CS 551 and CD 535 whilst undertaking drainage surveys and identifying, locating and recording drainage assets. For the purpose of outfall assessments, *Contractor* may use Highways England Guidance Notes on Drainage Outfall and Soakaway Surveys sourced from HADDMS. For priority assets, *Contractor* may use HADDMS Priority Registers Priority Culverts Verification User Guide. Since both pieces of HADDMS Guidance Notes are not fully updated in line with the latest DMRB standards, where in contrary to both: CS 551 and CD 535, the quoted DMRB drainage standards must take precedence over HADDMS Guidance Notes. *Contractor* must ensure that all produced outputs / data / information, including asset terminology/nomenclature used must comply with Highways England Asset Data Management Manual, v11 Part 3 (Data Dictionary).

6.1.4 *Contractor* shall adhere to the following specific requirements relating to the output of the survey:

- (1) Detailed Defect Survey of all pipework within the scheme extents, recording both structural and service defects, as well as the detailed pipe inventory.
- (2) Non-pipework detailed defect survey, recording both structural and service defects, as well as the inventory and physical attributes.
- (3) Assets Report (.pdf format). This shall include Manhole/Catchpit Cards with recorded chamber cover levels, pipe invert levels, connectivity diagram showing incoming & outgoing pipes and chamber internal dimensions.
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