

National Asset Delivery Technical Surveys and Testing

Works Information for 570124 A38 Tideford Trial Holes survey

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Original version issued with tender	ET	29/03/21

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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 ensure that we have accurate and complete data in relation to the scheme's STATS and location of below ground assets so that we can finalise the scheme proposals.
- 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:
- 1.2.1 Undertake seven fully comprehensive trial holes at the locations identified on the plans shown on HE570124O-KIER-VTO-A38MP31.8-DR-CD-0109 to 0112.

1.3 Deliverables

- 1.3.1 The *Contractor* is required to produce the following deliverables:
 - (1) Undertake 7 no. confirmatory trial holes, in strategic locations shown on plans listed in section 2.1.1.
 - (2) Measurements are to include depth from ground level and the offset of each element.
 - (3) Contractor to produce a survey report to clarify the findings of the inspection pits, including suitable cross section drawings to reference for the design and construction of the scheme.
 - (4) Contractor to feedback any concerns for clashes between proposed drainage pipes/chambers and any STATS or existing highways furniture.

2 EXISTING INFORMATION

- 2.1.1 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	Rev.	Date
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0100	Survey Location Plan	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0109	Trial Hole Survey Plan, Sheet 1 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0110	Trial Hole Survey Plan, Sheet 2 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0111	Trial Hole Survey Plan, Sheet 3 of 4	C1	25 TH February 2021
HE570124O-KIER-VTO-A38MP31.8-DR-CD-0112	Trial Hole Survey Plan, Sheet 4 of 4	C1	25 TH February 2021

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 The Consultant's working hours for site works shall be night-time works, 19:00 – 06:00.
- 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..**

3.3 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 When implemented, 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.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information which can be found here (HE570124O-A38 Tidford BD-PCI)
- 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.

FOR INFORMATION ONLY

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) Deliverables to be issued a maximum of 20 working days following collection of field data.
- 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* & *Contractor'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
- 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 *Client* to allow the *Consultant* to Provide the Works:

- (1) The arrangement will be combinations of Multiple Traffic light setups, some 3-way possible 4-way lights, and with traffic counts permitted 500m setups.
- (2) Full road closures are not permitted.

5.1.2 Not used.

FOR INFORMATION ONLY

6 SPECIFICATION FOR THE WORKS

The *Contractor* shall undertake the works in accordance with:

- 6.1.1 MCHW Volume 5, Section 3, Part 4, Chapter 6 'Contract Documents for specialist activities – Ground Investigation – Specification – Pits and Trenches. 6.1.2. Exploratory holes in accordance with BS 5930:2015 – GroundInvestigations.GG184 – Highways England CAD and Data Standard.

6.1.2 Trial Pits – Soft Estate

(i) Excavations shall be undertaken using the following methodology:

1. Prior to excavation clear any surface debris
2. Remove 100mm of topsoil
3. Carry out excavation to the required depth.

All subsoil must be kept in a separate pile from the topsoil.

(iii) Trial pit reinstatement:

1. Backfill trial pits with subsoil in layers no greater than 150mm thick and well compacted. 0 – 100mm (soft verge) – Replace previously removed topsoil and lightly compact.

6.1.3 Trial Pits – F

(i) Excavations shall be undertaken using the following methodology:

1. Prior to excavation clear any surface debris
2. Saw cut and remove the top 40-50mm of the surfacing.
3. Carry out excavation to the required depth.
4. PAK test surfacing sample

(ii) Trial pit reinstatement:

1. Surface reinstatement in accordance with MCHW cl. 946.
2. Reinstatement to be:
25mm AC 6 dense asphalt surface course
100/150 to clause 909

75mm AC20 dense binder 100/150 rec. to clause 906

150mm subbase to clause 803 type 1

3. Permanent reinstatement only; cold mixture will not be acceptable.
4. Tactile Pavers, where affected, shall be reinstated as per existing. Where damaged by the works, pavers shall be replaced with like for like.

- (iii) Testing for the presence of tar using PAK marker spray and to be in accordance with PAK marker manufacturer's instructions.

6.1.4 Report information

- These trial pits are to confirm the depth of underground services and/or the location of drainage assets as specified in section 1.2, also to test the surfacing in the carriageway for the presence of tar
- The dates and location of where the trial pits were taken;
- Comment on the weather conditions;
- Trial pit photographic records should include one or more faces and the spoil heap; all photographs should include a suitable and legible reference board. Artificial or flash lighting is normally required and photographs to be time stamped as well;
- Measurements are to include depth from ground level and the offset from the kerb;
- Contractor to produce a survey report to clarify the findings of the trial holes, including suitable cross section drawings to reference for the design and construction in accordance with CS 229 (formally BD 29/08).