

**National Asset Delivery
Technical Surveys and Testing**

605748

Works Information for

605748-002 A120/A12 Crown Interchange Colchester

605748-003 A414 M1 J7 to Park Street Roundabout

605748-004 A428 M11 to Caxton Gibbet

Drainage Filter Media Surveys

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
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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 principle objective of this project is to carry out a filter drain condition survey of the existing drainage located on the A120 Coggeshall to A12 Beacon End, A414 M1 Junction 7 to Park Street Roundabout and the A428 between its junction with the M11 and Caxton Gibbet roundabout. The survey should be a Filter Drain Condition Survey by Ground Penetrating Radar (GPR) as defined in and include the north and southbound verge and central reserve. The scheme extents are shown on Drawing Number HE605748-GEN-A120_A12-DE-CH-0000_1, HE605748-GEN-A414_M1J7_Park Street Roundabout-DE-CH-0000_1 and HE605748-GEN-A428M11_Caxton Gibbet-DE-CH-0000_1.

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:

1.2.2 Drainage survey to be carried out of the existing drainage system within the extents shown on drawings HE605748-GEN-A120_A12-DE-CH-0000_1, HE605748-GEN-A414_M1J7_Park Street Roundabout-DE-CH-0000_1 and HE605748-GEN-A428M11_Caxton Gibbet-DE-CH-0000_1.

1.3 Deliverables

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

- (1) Drainage Survey of the existing drainage system within the extents provided in section 1.1.1,
- (2) The Drainage Survey deliverables (data submission and report) are to be in accordance with CS 551 Drainage Surveys,
- (3) Drainage Survey summary report in PDF and digital data format,
- (4) Drainage Survey drawings in DXF and PDF format.

2 EXISTING INFORMATION

- 2.1.1 The inventory details of the existing drainage system are shown on HADDMS.
- 2.1.2 The Employer can provide details of clearances to structures from either information held on IMIS or AVIS, however if required the Contractor will be responsible for taking/confirming site measurements.
- 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
HE605748-GEN-A120_A12-DE-CH0000_01	Location Plan	C1/ Jan 2020
HE605748-GEN-A414_M1J7_Park Street Roundabout-DE-CH0000_01	Location Plan	C1/ Jan 2020
HE605748-GEN-A428M11_Caxton Gibbet-DE-CH0000_01	Location Plan	C1/ Jan 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 night-time, between 20:00 – 06:00 (subject to traffic counts).

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.

3.2.3 Access to the site will be from Highways England network. It is assumed that the works will be completed under mobile traffic management, however the *Contractor* must state in this submission if alternative traffic management is required.

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, refer to the pre-construction information which can be found here in 605748_PCI A120/A12 Drainage Survey & Hazard Identification Drainage Survey, 605748_PCI A414M1J7 to Park Street Roundabout Drainage Survey & Hazard Identification Drainage

Survey, 605748_PCI A428/M11 to Caxton Gibbet Drainage Survey & Hazard Identification Drainage Survey. The Site Information document contains the pre-construction details required.

3.3.4 Before commencing the Surveys 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.

3.3.5 The Principal Contractor shall be the Traffic Management provider when Traffic Management is used.

Environmental requirements

3.3.6 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

Risk Management

3.3.7 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.

3.3.8 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, this is a provisional programme and will be confirmed prior to works.

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);

4.1.3 Works are to be completed in financial year 2020-2021, it is anticipated that the surveys will be implemented between 5th January 2021 to 20th January 2021 with specific start and end dates for each survey as below. The programme should be in the form of an activity and time related bar chart. The timeframe for report returns are set to 2 weeks from on-site end date.

- (i) 605748-002 A120/A12 Crown Interchange Colchester from 6th January 2020 to 8th January 2020.
- (ii) 605748-003 A414 M1 J7 to Park Street Roundabout from 18th January 2020 to 20th January 2020.
- (iii) 605748-004 A428 M11 to Caxton Gibbet from 5th January 2020 to 8th January 2020.

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;
- (iii) for each activity, the proposed resources (plant & labour) expected to deliver the activity should be shown on the programme;
- (iv) review periods for any reporting requirements;
- (v) key dates for the Employer to provide 'services and other things';
- (vi) key dates for co-ordination with Others;
- (vii) linear meters of drainage anticipated within shift.

- 4.1.5 The *Contractor* updates the programme every 2 weeks. The *Contractor* submits an updated programme to the *Employer* upon request.
- 4.1.6 The Contractor must liaise with the Traffic Management Contractor at the end of every shift to confirm requirements for the following shift.
- 4.1.7 Any site issues/delays must be reported, initially, to the site supervisor and highlighted within the daily site report. Following each night shift, the report should be sent to the Employer by midday the next day.

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) Work is to be undertaken utilising mobile closures; the Contractor is to supply a programme of works with surveys undertaken within 5th January 2021 to 20th January 2021, the anticipated dates for each survey are as below:
 - (i) 605748-002 A120/A12 Crown Interchange Colchester from 6th January 2020 to 8th January 2020.
 - (ii) 605748-003 A414 M1 J7 to Park Street Roundabout from 18th January 2020 to 20th January 2020.
 - (iii) 605748-004 A428 M11 to Caxton Gibbet from 5th January 2020 to 8th January 2020.
 - (2) Welfare facilities shall be supplied by the Contractor.
- 5.1.2 Not used.
- 5.1.3 The Employer will appoint a Principal Contractor for the Works.

6 SPECIFICATION FOR THE WORKS

- 6.1.1 The Contractor shall undertake the works within the extents shown on the location plan, known drainage assets within the area are shown in HADDAMS, but the Contractor should expect to find additional assets.
- 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 Drainage Survey is to be carried out in accordance with the Design Manual for Roads and Bridges, Volume 4 Geotechnics and Drainage, Part 10, CS 551 Drainage Surveys.
- 6.1.4 The Drainage Survey recording of inventory and condition of drainage assets is to be carried out in accordance with the Design Manual for Roads and Bridges, Volume 4 Geotechnics and Drainage, Part 4, CD 535 Drainage Asset Data and Risk Management.
- 6.1.5 **Schedule of Requirements, Appendix A1 General Requirements;**
- The Drainage Survey is to be carried out between the A120 Coggeshall to A12 Beacon End, A414 M1 Junction 7 to Park Street Roundabout and on the A428 between M11 and Caxton Gibbet.
 - Drainage survey to be carried out of the existing drainage system within the scheme extents as shown on Drawing Number HE605748-GEN-A120_A12-DE-CH-0000_01, HE605748-GEN-A414_M1J7_Park Street Roundabout-DE-CH-0000_01 and HE605748-GEN-A428M11_Caxton Gibbet-DE-CH-0000_01.
 - The works will have the following constraints;
 - a) Access will be from Highways England network and confirmed upon completion of Traffic Management layout.
 - b) Drainage survey works are to be carried out weekdays from 20:00 to 06:00.
 - c) Highways England look for efficiencies and aim to reduce disturbance to the travelling public by combining activities within Traffic Management closures. No additional works have currently been identified but the Principal Contactor will notify any changes and manage if required.
 - d) There are no known environmental or ecological constraints.
 - e) The Contractor shall provide evidence detailing the radar penetration depth of the GPR equipment.
 - f) The Contractor shall provide evidence that the survey or undertaking the GPR survey has received all relevant trainings.

- g) Details shall be provided to demonstrate the Contractors survey method quality control procedure in accordance with 5.21 of CS 551.
- The classification of the site for the use of electrical equipment in potentially explosive atmospheres, in accordance with DSEAR S.I. No. 2776 [Ref 2.I], is the site is classified as Zone 2.
 - Existing data within HADDMS shall be roundtripped in accordance with section 5.3 to Section 5.6 of CS 551.
 - The responsibility for traffic management will be by others arranged by the Overseeing Organisation's representative.

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