National Asset Delivery
Technical Surveys and Testing

Works Information for

570134 A36 Salisbury Roundabouts
Duct survey

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
0	0	Original version issued with tender	ET	19/01/21

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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 undertake duct surveys around the St Paul's, Castle and St Mark's Roundabouts in Salisbury.

1.1.2 The specification that applies to the *works* is included in Section 6

1.2 Scope of works

1.1.1 The *works* to be provided under this contract are described in Schedules 1 and 2 of the Specification in Section 6 of this document but in summary compromises;

(1) 3 no. Duct Surveys at the three roundabout sites to determine the number and condition of ducts.

1.3 Deliverables

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

(1) Site plan; highlighting the exact locations of ducts

(2) Condition report, in accordance with the Specification in Section 6.

(3) Site photographs

2 EXISTING INFORMATION

2.1.1 Not used.

2.1.2 The Drawings listed below apply to this contract.

Drawing Number	Title	Revision / Date
570134A-000004	St Paul's Roundabout – Duct Survey	C01
570134A-000005	Castle Roundabout – Duct Survey	C01
570134A-000006	St Mark's Roundabout – Duct Survey	C01

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

3.1.1 For the purposes of pricing the working hours shall be between the hours of 2000 and 0600, Monday to Friday. The actual working hours shall be finalised during mobilisation and will vary subject to traffic flows and weather conditions.

3.1.2 The stated hours include the time for the traffic management to be set out and picked up.

3.1.3 All plant and equipment shall be removed from site at the end of each shift.

3.3 Health, Safety and Environment & Risk Management

Health and Safety requirements

3.1.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.

3.1.2 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.

3.1.3 For details of the CDM duty holders, refer to the pre-construction information which is supplied with the handover documents.

3.1.4 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

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

Risk Management

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

3.1.7 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) Insert details of any further constraints on the sequence and timing that work that is to be undertaken. Requirements for completion of site work, including any phasing of works, and deadlines for reporting. (None are foreseen at this stage, TBC by CWF Contactor.)

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 week. 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:

Location	**Indicative Traffic Management**
A36, Salisbury (St Paul's, Castle and St Mark's Roundabout.)	Night-time lane closures. Full footway closures with signed diversion route.

5.1.2 Access arrangements & licences for works on third party land to be provided by the Employer

6 SPECIFICATION FOR THE WORKS

6.1 General

6.1.1 The Contractor shall provide the Services in accordance with the works outlines in 'Section 1 – Description of the Works' and drawings 570134A-000004, 570134A-000005 and 570134A-000006.

6.2 Specification for Duct Survey

6.1.1 The location of existing drawpits and ducts shown on the drawings have been plotted using historic as-built information and may cover all signals equipment. Amendments to be made in sketch format if variations are present on site.

6.1.2 All road crossing, controller and intermediary drawpits shall be surveyed incorporating all duct runs. More than one duct may exist between any two drawpits.

6.1.3 Drawpits are to be cleared of silt and debris as part of the survey works. This must be undertaken before rodding begins to prevent muck being dragged through the duct network. Silt and debris must be removed from site.

6.1.4 The following information should be recorded:

i. Approximate location of drawpit
ii. Size of drawpits
iii. Number, size (diameter) and colour of ducts entering the drawpit from each wall.
iv. Number and colour of cables in each duct.
v. Type of cable within duct

6.1.5 Where feasible duct runs shall be rodded using a COBRA. Drainage rods must not be used. If the duct is unable to be rodded due to cable quantity, then cables to be moved in duct run to check freedom. However, no cables to be stressed or pulled with force.

6.1.6 Obstructions or blockages is to be recorded with approximate distance from datum to blockage.

6.1.7 The type of cable utilising each duct is to be identified by a suitably qualified Contractor, including traffic signals and street lighting cables.

6.1.8 Example of record forms that could be used is shown below;

570134 - A36 Salisbury Pedestrian Crossing Replacement

Site -

Date -

DUCT SURVEY RESULTS -

1st Drawpit Ref	1st Drawpit size	2nd Drawpit Ref	2nd Drawpit size	Number and size of ducts between 1st & 2nd drawpit and colour	Number of multicore cables in each duct identified by 'M' Number of feeder cables in each duct identified by 'F' Distance from 1st or 2nd drawpit of any blockage. (OK if no blockage)	Cable Type within duct

EXAMPLE SHEET

Site -

Date -

DUCT SURVEY RESULTS -

1st Drawpit Ref	1st Drawpit size	2nd Drawpit Ref	2nd Drawpit size	Number and size of ducts between 1st & 2nd drawpit and colour	Number of multicore cables in each duct identified by 'M' Number of feeder cables in each duct identified by 'F' Distance from 1st or 2nd drawpit of any blockage. (OK if no blockage)	Cable Type within duct
A	600 x 450	B	450	3 x 50mm diameter orange ducts	(0) - OK (2M, 3F) - OK (4M, 0F) - OK	(0) = 0 (2M, 3F) = 5 x Traffic Signals (4M, 0F) = 4 x Traffic Signals
	In this example, there is a total of 3 no. 50mm diameter orange ducts: • the first duct is empty (no multicore or feeder cables) • the second duct has 2 no. multicore and 3 no. feeders and • the third has 4no multicore only. No ducts are blocked.					
A	600 x 450	C	600 x 600	2 x 50mm diameter orange ducts	(7M, 0F) - OK (3M, 5F) – blocked 10m from C.	(7M, 0F) = 7 x Traffic Signals (3M, 5F) = 5 x Traffic Signals & 3 x Street Lighting
	In this example, there is a total of 2 no. 50mm orange ducts: • the first duct has 7 no. multicore cables only • the second duct has 3 no. multicore and 5 no. feeders The duct with 3 no. multicore and 5 no. feeders (3M, 5F), is blocked along the run at 10m from drawpit ref C. The other duct referenced (7M, 0F) is OK					