

**National Asset Delivery  
Technical Surveys and Testing**

**Scope for  
570122 AD SW Pavement Video Survey**



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**LIST OF ANNEXES**

**Appendix 1 Supplementary Constraints**

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## **1 PURPOSE OF THE SERVICES**

### **1.1 Project objectives**

- 1.1.1 The principle objective of this project is to undertake a pavement condition video survey of various sections of the network within the South West Asset Delivery Area.
- 1.1.2 The purpose of the survey is to provide the *Client* with Ultra high definition (4K) footage that allows them to view and identify (primarily carriageway) defects and help inform scheme designs.
- 1.1.3 The *starting date* of the survey is to be agreed with the *Client but no later than the 17<sup>th</sup> of Aug 2020*. The survey footage must be provided to the Client within 2 weeks of survey completion.
- 1.1.4 The specification that applies to the *services* is included in Section 6

### **1.2 Scope of services**

- 1.2.1 The *services* to be provided under this contract are:
- (1) Undertake traffic speed driven surveys at locations identified by the *Client*.
  - (2) Provide ultra high-definition footage of the survey referenced to both GPS and Network Chart Section /chainage.
  - (3) Provide access to any software which allows for interactive viewing of the survey footage.

### **1.3 Deliverables**

- 1.3.1 The *Consultant* is required to produce the following deliverables:
- (1) Ultra high-definition survey footage and access to interactive viewing software.

## 2 EXISTING INFORMATION

- 2.1.1 The exact locations to be surveyed will be confirmed by the *Client* prior to the *starting date*. The total estimated length of lanes to be surveyed is 353km as indicated in the attached Site Locations spreadsheet and drawings as listed in section 2.1.2 below.
- 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.

Drawing Number	Title	Revision / Date
A30.1	A30 Bodmin Bypass EB MP88.8-95.2	A
A30.2	A30 Polyphant to Treburyse EB MP123.0-127.9	A
A30.3	A30 Trevarnon Lane Roseworthy EB&WB MP35.5-38.1	A
A30.4.1	A30 EB&WB MP53.7-66.2 (1)	A
A30.4.2	A30 EB&WB MP53.7-66.2 (2)	A
A30.5	A30 Whiddon Down to Tongue End - Concrete Repair EB&WB MP161.1-169.2	A
A30.6	A30 WB Slip on Scarne A388 MP130.1-129.7	A
A36.1	A36 EB&WB MP1.6-7.7	A
A36.2	A36 EB&WB MP35.0-39.4	A
A38.1	A38 Carminow Cross To Bodmin Parkway EB&WB MP2.1-5.3	A
A38.2	A38 Middle Drift EB&WB MP6.9-8.8	A
A38.3	A38 Petersfield Entry&Exit Slip WB MP17.2-16.6	A
A38.4	A38 Liskeard Entry&Exit Slip EB MP21.0-21.8	A
A38.5.1	A38 EB&WB MP37.1-43.2 (1)	A
A38.5.2	A38 EB&WB MP37.1-43.2 (2)	A
A38.6	A38 Marsh Mills to Voss Farm EB MP52.4-58.3	A
A38.7	A38 Smithhaleigh Inc Entry Slip WB MP60.1-58.6	A
A38.8	A38 Ivybridge Exit Slip EB MP63.6-64.0	A
A38.9	A38 Wrangaton Exit Slip WB MP70.8-70.2	A
A38.10	A38 Marley Head Exit Slip WB MP75.2-75.0	A
A38.11	A38 Ashburton Exit Slip EB MP86.0-86.4	A
A38.12	A38 Heathfield Exit Slip EB MP94.2-94.6	A
A38.13	A38 Belvedere Entry&Exit Slip EB MP106.2-106.4	A
A46.1	A46 Dyrham NB&SB MP7.8-12.7	A
A4.1	A4 St Andrews RBT to St Brendans RBT Inc Crowley way and sideway MP205.0-205.4	A
A303.1	A303 Wylve EB&WB MP150.0-152.5	A
A303.2.1	A303 West Camel EB&WB MP192.2-198.7 (1)	A
A303.2.2	A303 West Camel EB&WB MP192.2-198.7 (2)	A
A303.3.1	A303 Ilminster Bypass-Concrete repair&Surface Treatment EB&WB MP214.4-223.7 (1)	A
A303.3.2	A303 Ilminster Bypass-Concrete repair&Surface Treatment EB&WB MP214.4-223.7 (2)	A

A303.4	A303 Micheldelver EB Exit&Entry Slip MP122.3-122.7	A
A303.5	A303 Amesbury Bypass EB&WB Exit&Entry Slip MP128.4-129.2	A
A303.6	A303 WB Stonehenge Road Entry Slip MP132.3-132.6	A
A303.7	A303 Dancing cross EB Exit slip MP184.6-184.3	A
A303.8	A303 Chaple Cross EB Exit &Entry Slip MP188.8-188.6	A
A303.9	A303 WB Exit Slip MP196.7-197.0	A
A303.10	A303 EB Exit&Entry MP208.7-208.4	A
M4.1	M4 J19-18 EB MP173.1-171.9	A
M4.2	M4 J18 Exit Slip EB MP170.7-169.4	A
M5.1	M5 J9 Entry Slip SB	A
M5.2	M5 J10-9 NB MP76.8-69.5	A
M5.3	M5 J14-13 NB MP109.1-107.8	A
M5.4	M5 J13-14 Michaelwood Service Entry and Exit Slip SB MP115.2-116.7	A
M5.5	M5 J14-13 NB MP116.0-114.4	A
M5.6	M5 J14 Entry Slip NB MP118.9-118.3	A
M5.7	M5 J14-15 SB MP125.0-129.5	A
M5.8	M5 J18-17 NB MP142.5-139.1	A
M5.9	M5 J17 Entry Slip SB MP135.9-137.0	A
M5.10	M5 J21-20 NB MP164.0-161.5	A
M5.11	M5 J26-27 SB MP220.0-222.0	A

### **3 CONSTRAINTS ON HOW THE CONSULTANT PROVIDES THE SERVICES**

#### **3.1 General**

- 3.1.1 The *Consultant* Provides the Services in such manner as to minimise the risk of damage or disturbance to or destruction of third party property.
- 3.1.2 The *Consultant* complies with the constraints and meets with the requirements outlined in Appendix 1.
- 3.1.3 The *Consultant* submits information detailing how the *Consultant* will provide the Services to the *Client* prior to the *services* commencing. This information will include any lifting plans, risk assessments, method statements, the *Consultant's* staff training information and any other relevant Health and Safety requirements.

#### **3.2 Working hours & site specific constraints**

- 3.2.1 The *Consultant shall* undertake all surveying during daylight hours and to avoid peak traffic times.
- 3.2.2 It is possible that the Client will be undertaking planned and cyclic maintenance works which may restrict access to the network at times. The Consultant shall liaise with the Client to determine the survey programme to mitigate loss of survey cover.
- 3.2.3 Traffic management will not be provided as the survey is required to be undertaken at traffic speed.

#### **3.3 Health, Safety and Environment & Risk Management**

##### Health and Safety requirements

- 3.3.1 In Providing the Services the *Consultant* meets the requirements of Annex 2 of the supplementary constraints relation to health and safety duties.
- 3.3.2 When implemented, the *Consultant* 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 *Not used*
- 3.3.4 Before commencing the construction phase of the *services*, the *Consultant* confirms to the *Client* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Consultant* provides all necessary facilities to Provide the Services and to comply with the minimum requirements set out in HSE guidance document L153.

Environmental requirements

- 3.3.5 In Providing the Services the *Consultant* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

Risk Management

- 3.3.6 The *Consultant* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Consultant* submits a risk register, which captures all risks associated with the delivery of the *services* including those identified by the *Client*, with his tender and maintains it for the contract period.

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#### 4 REQUIREMENTS FOR THE PROGRAMME

- 4.1.1 The *Consultant* submits programme to the *Client* with his tender.
- 4.1.2 The *Consultant* Provides the Services 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 *Client* (see Section 5)
- 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* & *Consultant'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 Client to provide 'services and other things'
  - (v) key dates for co-ordination with Others
- 4.1.5 The *Consultant* should provide details of the proposed resources (plant, labour, subcontractors etc.) expected to deliver each activity. This information can either be shown on the programme itself or provided in an associated resource statement included in the Proposal for Providing the Services.
- 4.1.6 The *Consultant* updates the programme every week and provides an update on progress to the Client. The *Consultant* submits an updated programme to the *Client* upon request.

**5 SERVICES AND OTHER THINGS PROVIDED BY THE *CLIENT***

- 5.1.1 The survey is traffic speed driven at the locations identified by the Client. No TM required for the survey work.
- 5.1.2 Welfare facilities are to be provided by the Consultant. The *Client's* depot facilities may be available for use by the *Consultant* but they shall only be accessed with prior agreement.

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## 6 SPECIFICATION FOR THE SERVICES

- 6.1.1 The *Consultant* shall undertake an Ultra high definition video survey at locations specified by the Client.
- 6.1.2 The primary aim of the survey is to assess pavement asset condition and the *Consultant* shall ensure that his survey captures the entire width of each carriageway lane to be surveyed. To ensure that pavement asset condition can be adequately captured in sufficient detail, it is requested that the video includes several different camera position views E.g (Forward, Left 45°, Right 45°, Down 45° and Reverse).
- 6.1.3 The survey shall be carried out in daylight hours at driven traffic speed. Other road users will be present. During surveying, the *Consultant* shall comply with all speed limits (including temporary) and undertake measures to ensure safe integration with travelling public.
- 6.1.4 Where applicable, survey vehicles shall comply with the requirements of Chapter 8.
- 6.1.5 The Consultant is responsible for safety/security of his own equipment at all times.

### 6.2 Survey deliverables

- 6.2.1 The survey footage shall be provided to the *Client* no later than 14 days after completion of the survey of the last required location.
- 6.2.2 Survey footage shall be provided electronically in 4K resolution. The software viewer provided by the *consultant* shall allow the *Client* to identify all locations by GPS and Network Section Label / Chainage that match the Client's existing asset and location data.
- 6.2.3 The software viewer provided by the *Consultant* shall be made available for use by the *Client* for a minimum period of 12 months after Completion.
- 6.2.4 Survey footage shall also be provided licence free in a video file format compatible with windows (<https://support.microsoft.com/en-ca/help/245608/file-formats-supported-by-windows-media-player-versions-6-0-and-later>)