



A303 Amesbury to Berwick Down (Stonehenge)

Volume 2 – Scope

Part 3 – Maintenance and Operation (M&O) Requirements during Construction

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1 Introduction

1.1 General requirements

- 1.1.1 The Construction Period M&O Services shall be provided in accordance with
- the Obligations of the DCO and
 - the requirements of the Scope.
- 1.1.2 The Construction Period M&O Services shall be provided for the M&O Services Area
- from the *access date* for the whole of the Site, *section 1A* and *section 2A* and
 - until the Completion of *section 3* or *section 3A* which contains the relevant part of the M&O Services Area.
- 1.1.3 The Construction Period M&O Services shall
- be provided in accordance with the requirements of the Service Standards included in *section 2* (Service Standards) of this document and
 - include all activities and requirements in accordance with *section 3* (Construction Period M&O Services) of this document.
- 1.1.4 The M&O Services Area shall comprise the whole of the Site and Working Areas and everything on it, including all
- existing highways within the Site, including the existing A303 and the adjoining local road network,
 - existing highways related assets and infrastructure within the Site,
 - soft estate within the Site,
 - assets and infrastructure which have been provided as part of the *works* and
 - *section 1A* and *section 2A*.
- 1.1.5 Proposals shall demonstrate and justify that the Construction Period M&O Services do not give rise to any new or worse adverse environmental effects in comparison with those reported in the Environmental Statement, unless otherwise agreed with the *Project Manager*.
- 1.1.6 The Construction Period M&O Services shall be provided to avoid adverse impacts to the *Client's* and Wiltshire Council's roads and infrastructure.
- 1.1.7 If the Construction Period M&O Services cannot be provided to avoid adverse impacts, the *Contractor* shall
- agree with the *Client* and Wiltshire Council the proposed mitigation measures and
 - implement the agreed mitigation.
- 1.1.8 Where maintenance work or repairs are undertaken to Wiltshire Council's highways or assets, the maintenance activities or repairs shall be
- agreed with the *Client* and Wiltshire Council and
 - provided in accordance with Wiltshire Council's standard construction details¹.

¹ Refer to the Data Room [13] for the Wiltshire Council Highway Construction Details Drawing Register which provides Wiltshire Council's standard highway construction details.

- 1.1.9 The delivery of the Construction Period M&O Services shall
- be provided in accordance with the *Client's* South West Maintenance Requirements Plan² and
 - align with the delivery of maintenance and operation activities taking place on adjacent sections of the existing A303 outside of the Site.

² Refer to the Data Room [13] for the *Client's* South West Maintenance Requirements Plan.

2 Service Standards

- 2.1.1 The Construction Period M&O Services shall be provided in accordance with the requirements contained in the following Service Standards
- Design Manual for Roads and Bridges (DMRB) [1],
 - Manual of Contract Documents for Highway Works (MCHW) [2],
 - Asset Delivery Asset Maintenance requirements (ADAMr) [3],
 - Asset Delivery Asset Inspection requirements (ADAIr) [4],
 - the Operational Requirements for Network Occupancy [5],
 - the Severe Weather Requirements [6],
 - the Incident Management Requirements [7] and
 - Asset Data Management Manual (ADMM) [8].
- 2.1.2 Such activities in respect of the Construction Period M&O Services shall be performed to satisfy the requirements of the outcome, deliverables, processes and procedures as defined within the Service Standards.
- 2.1.3 A reference to any specified provision of a Service Standard shall be deemed to include a reference to any other provision of the Service Standards needed to interpret or give meaning to the specified provision.

3 Construction Period M&O Services

3.1 General requirements

- 3.1.1 Maintenance and operational responsibilities shall be split as defined in Table 3-1 (The *Contractor's* and the *Client's* operational and maintenance responsibilities during construction).
- 3.1.2 The Construction Period M&O Services shall include the following maintenance and operational activities for the M&O Services Area
- the implementation of local diversion routes,
 - attending and assessing the condition of the highway assets and infrastructure following an incident,
 - the making safe of all assets and infrastructure following an incident,
 - permanent repairs and renewals to all assets and infrastructure following an incident and at the request of the *Project Manager*,
 - vehicle recovery services,
 - safety patrols and safety inspections,
 - network occupancy and road space booking applications,
 - the design and installation of traffic management for planned and unplanned maintenance activities, in accordance with the Operational Requirements for Network Occupancy,
 - providing traffic management for incidents where instructed,
 - condition surveys and inspections of assets and infrastructure within the Site,
 - routine and cyclic maintenance and asset renewals in accordance with the requirements contained in section 3.9 (Asset management and maintenance) of this document,
 - the management and maintenance of soft estate,
 - litter picking services,
 - updating and uploading all data for asset inventory, asset condition and maintenance activities onto the *Client's* asset management systems and
 - the collection, storage and transfer of data and information for Green Claims and Red Claims.

Table 3-1: The *Contractor's* and the *Client's* operational and maintenance responsibilities during construction

Activity	The <i>Contractor</i>	The <i>Client</i>
Strategic operational control		✓
Management of strategic diversion routes		✓
Implementation of local diversion routes	✓	
Operation of traffic signals		✓
Incident management		✓
Attend and assess asset condition following an incident	✓	
Make safe, and permanent repair / renewal of assets following an incident	✓	
Vehicle recovery	✓	
Severe weather management and decision making		✓

Severe weather treatments		✓
Network occupancy and road space booking management		✓
Network occupancy and road space booking applications	✓	
Design and installation traffic management (planned and unplanned maintenance)	✓	
Provide traffic management for incidents where instructed	✓	
Safety patrols and safety inspections	✓	
Machine surveys (e.g. TRACS, skid resistance)		✓
Condition surveys and inspections	✓	
Uploading data for condition surveys and inspections and maintenance activities onto the <i>Client's</i> asset management systems	✓	
Updating asset inventory records in the <i>Client's</i> asset management systems	✓	
Routine and cyclic maintenance of assets	✓	
Landscape and ecology maintenance (soft estate management, including grass cutting and vegetation clearance)	✓	
Asset lifecycle renewals	✓	
Litter picking	✓	
Management of access and egress to construction site boundaries	✓	
Management of Green Claims and Red Claims		✓
Data and Information collection for Green Claims and Red Claims	✓	

- 3.1.3 Details of the delivery of the Construction Period M&O Services shall be provided within the Detailed Local Operating Agreement (DLOA³).
- 3.1.4 All information and data that is required by the *Client* to perform its operational activities and responsibilities as defined in Table 3-1 (The *Contractor's* and the *Client's* operational and maintenance responsibilities during construction) shall be provided.
- 3.1.5 Information that is required by the *Client* to investigate and manage Green Claims and Red Claims shall be provided.
- 3.1.6 In providing the Construction Period M&O Services, the Contractor shall establish and maintain the contact details of, and liaise with, stakeholders including
- the Regional Operations Centre (ROC),
 - adjacent route service providers,
 - emergency services,
 - Wiltshire Council,
 - the Environmental Agency,
 - English Heritage (including the Stonehenge Visitor Centre),
 - adjacent landowners and
 - community forums and groups.
- 3.1.7 The contact details for stakeholders shall be updated as
- a minimum every ninety (90) calendar days or

³ Refer to Volume 2 Part 1 (General Requirements) of the contract for the requirements of the DLOA.

- soon as the *Contractor* is notified of a change.
- 3.1.8 The primary point of contact for all communications in the event of an incident or emergency shall be the ROC.
- 3.1.9 The *Project Manager* shall be notified within twenty-four (24) hours of all communications that are sent directly to the ROC.
- 3.1.10 Communication links shall be maintained to allow twenty-four (24) hours a day communication with the ROC.
- 3.1.11 Severe weather service requirements shall include
 - providing all information, data and suitably qualified resource to attend meetings to allow the *Client* to develop its severe weather service for the Site in accordance with the Severe Weather Requirements [6],
 - providing all required training to the *Client* in regard to Plant and Materials to be used during severe weather and
 - facilitating access through the Site for the *Client's* winter service spreaders.
- 3.1.12 Two (2) days of training per year in respect of severe weather service shall be attended by the *Contractor*.
- 3.1.13 Litter picking shall be undertaken to maintain the Site to grade A standard in accordance with the Code of Practice on Litter and Refuse (Defra) [9].
- 3.1.14 The *Client* shall be assisted in
 - abnormal load routing for high, wide and long vehicles and
 - the processing of requests for movements under vehicle special orders.

3.2 Network occupancy and network availability

- 3.2.1 The Operational Requirements for Network Occupancy [5] shall be complied with for all required network occupancy and traffic management planning and activities.
- 3.2.2 Agreement shall be obtained from the *Client* for all network occupancy and traffic management planning and activities in accordance with the requirements contained in the Operational Requirements for Network Occupancy [5].
- 3.2.3 The requirements contained in MW-TRA1 to MW-TRA12 in table 3.2b of the Outline Environmental Management Plan (OEMP⁴) [10] shall be complied with for all network occupancy and traffic management planning and activities.
- 3.2.4 The Construction Period M&O Services, including all traffic management and network occupancy arrangements, shall be provided to satisfy the requirements for traffic impacts and journey time contained in section 7.9 (Traffic Impact During the Works) of Volume 2 Part 2 (Design and Technical Requirements) of the contract.
- 3.2.5 The requirements contained in Volume 3 (Specification Appendices) of the contract shall be complied with for all network occupancy and traffic management arrangements, including
 - Appendix 1/17 (Traffic Safety and Management),
 - Appendix 1/18 (Temporary Highways for Traffic) and
 - Appendix 1/19 (Routing of Vehicles).

⁴ Refer to DCO Schedule 2 (Requirements), Part 1 (Requirements), Section 4, Article [4].

- 3.2.6 Details of all network occupancy and traffic management arrangements shall be provided within the Traffic Management Plan (TMP)⁵.

3.3 Implementation of diversion routes

- 3.3.1 The Construction Period M&O Services shall include coordination and implementation of local diversion routes.
- 3.3.2 The procedures to be followed for implementation of diversion routes shall be included in the TMP.

3.4 Incident response

- 3.4.1 Incident response services shall be provided as part of the Construction Period M&O Services.
- 3.4.2 Incident response services shall include the requirements and responsibilities, as listed within the *Client's* South West Incident Response Plan⁶, for the "Contractor", the "Contractor's Duty Supervisor (Bronze Commander)" and the "Specialist Contractor", including
- attending and assessing the asset condition following an incident,
 - the making safe of assets following an incident and
 - undertaking all permanent repairs and renewals following an incident.
- 3.4.3 All incident response services and activities shall be provided in accordance with the Incident Management Requirements [7].
- 3.4.4 Staff shall be provided to participate in the *Client's* emergency exercises and incident response training to align the *Contractor's* and the *Client's* incident management and response procedures.
- 3.4.5 Details of the incident response services that will be provided shall be included within the DLOA.

3.5 Vehicle recovery

- 3.5.1 A vehicle recovery service shall be provided as part of the Construction Period M&O Services to recover vehicles up to forty-four (44) tonnes.
- 3.5.2 The vehicle recovery service shall operate twenty-four (24) hours per day and seven (7) days per week.
- 3.5.3 The vehicle recovery service shall respond within twenty (20) minutes of being notified of a breakdown.
- 3.5.4 The vehicle recovery service shall clear the vehicle within sixty (60) minutes of being notified of a breakdown.

3.6 Safety patrols and safety inspections

- 3.6.1 Safety patrols and safety inspections shall be carried out along the section of the existing A303 within the Site in accordance with the requirements contained in the Service Standards.
- 3.6.2 Where a defect or safety issue is identified, that defect or safety issue shall be managed, prioritised and rectified in accordance with the Service Standards.

⁵ Refer to action or commitment MW-TRA2 of the OEMP.

⁶ Refer to the Data Room [13] for the *Client's* South West Incident Response Plan.

3.7 Inspections and surveys

- 3.7.1 Condition inspections and surveys and machine surveys shall be provided for the M&O Services Area in accordance with the with the Service Standards.
- 3.7.2 All outputs from network condition inspections and surveys and machine surveys shall be uploaded onto the *Client's* asset management systems in accordance with the data requirements of the ADMM [8].
- 3.7.3 Temporary signs that have been provided as part of the *works* shall be inspected in accordance with CS 125 'Inspection of traffic signs' [11].

3.8 Highway Asset Defects

- 3.8.1 Highway Asset Defect identification, prioritisation and rectification shall be undertaken for all assets and infrastructure within the M&O Services Area.
- 3.8.2 Highway Asset Defect identification, prioritisation and rectification shall be undertaken in accordance with
- the Service Standards and
 - the *Client's* South West Highway Inspection Guide - Safety Critical Defects⁷.
- 3.8.3 A register shall be prepared, maintained and updated for Highway Asset Defects for the duration of the Construction Period M&O Services which includes details of
- who has identified the Highway Asset Defect,
 - the type of Highway Asset Defect,
 - the location of the Highway Asset Defect,
 - the response time for rectification of the Highway Asset Defect and
 - the rectification method (making safe, temporary or permanent) or permanent repair of the Highway Asset Defect.

3.9 Asset management and maintenance

- 3.9.1 Maintenance of the M&O Services Area shall
- include routine and cyclic maintenance and soft estate maintenance and
 - be provided in accordance with the requirements contained in ADAMr [4] and the *Client's* South West Maintenance Requirements Plan.
- 3.9.2 Maintenance and aftercare of vegetation and planting provided as part of the *works* shall be undertaken in accordance with the requirements contained in Volume 2 Part 2 (Design and Technical Requirements) of the contract.

3.10 Handover of M&O responsibilities

- 3.10.1 The staged handover of maintenance and operations responsibilities shall be provided
- at the Completion of *section 1A*,
 - at the Completion of *section 2A*,
 - at the Completion of *section 3* and
 - at the Completion of *section 3A*.
- 3.10.2 Handover, commissioning and mobilisation activities shall be provided in accordance with the requirements contained in

⁷ Refer to the Data Room [13] for the *Client's* 'South West Highway Inspection Guide - Safety Critical Defects'.

- Volume 2 Part 2 (Design and Technical Requirements) of the contract,
- Volume 2 Part 4 (Maintenance Period Requirements) of the contract and
- GG 182 'Major Schemes – Enabling handover into operation and maintenance' [12].

3.10.3 Details of all handover activities and timeframes shall be included in the following PCF products⁸

- Civils Maintenance Handover Documentation & Certificate,
- Handover Schedule,
- Technology Commissioning Plan,
- Plan for Monitoring Operations and Monitoring Output,
- Permit to Connect,
- Technology Maintenance Handover Documentation and Certificate and
- DLOA.

⁸ Refer to Volume 2 Part 1 (General Requirements) of the contract for the PCF product requirements.

Reference List

- [1] Highways England, "Design Manual for Roads and Bridges," [Online]. Available: <http://www.standardsforhighways.co.uk/ha/standards/dmr/index.htm>. [Accessed April 2020].
- [2] Highways England, "Manual of Contract Documents for Highway Works," [Online]. Available: <http://www.standardsforhighways.co.uk/ha/standards/mchw/index.htm>. [Accessed April 2020].
- [3] Highways England, "GM 701 Asset delivery asset maintenance requirements".
- [4] Highways England, "GS 801 Asset delivery asset inspection requirements".
- [5] Highways England, "GM 702 Operational requirements for network occupancy".
- [6] Highways England, "GM 704 Severe weather requirements".
- [7] Highways England, "GM 703 Incident Management Requirements".
- [8] Highways England, "Asset Data Management Manual," [Online]. Available: <https://www.standardsforhighways.co.uk/ha/standards/admm/index.htm>.
- [9] Department for Environment Food and Rural Affairs, "Litter and refuse: code of practice," [Online]. Available: <https://www.gov.uk/government/publications/code-of-practice-on-litter-and-refuse>.
- [10] Highways England, "A303 Amesbury to Berwick Down: 6.3 Environmental Statement Appendix 2.2 (7) - Outline Environmental Management Plan (OEMP)," 2019. [Online]. Available: [https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/TR010025/TR010025-001763-6.3%20Appendix%202.2\(7\)%20%E2%80%93%20Outline%20Environmental%20Management%20Plan%20\(OEMP\)_FINAL.pdf](https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/TR010025/TR010025-001763-6.3%20Appendix%202.2(7)%20%E2%80%93%20Outline%20Environmental%20Management%20Plan%20(OEMP)_FINAL.pdf).
- [11] Highways England, "CS 125 Inspection of traffic signs".
- [12] Highways England, "GG 182 Major Schemes - Enabling handover into operation and maintenance".
- [13] Highways England, "Data Room," [Online]. Available: <https://a303stonehenge.sharepoint.com/sites/DataRooms/procurement/main-works/Shared%20Documents/Forms/AllItems.aspx>. [Accessed April 2020].