

## CDM1 PRE-CONSTRUCTION STAGE INFORMATION

In accordance with regulation 4 of the Construction (Design & Management) Regulations 2015 The following information covering the planned works, site and environment is made available to prospective contractors to assist in the health and safety planning and management aspect of the tender process. This document will form the basis for the Construction Phase Plan and associated health and safety file that will be developed throughout the works.

## POLICY OBJECTIVE STATEMENT

The *Employer* takes its obligations under environmental and health and safety legislation seriously and requires that its contractors and agents do likewise. This project will be designed and constructed as far as is reasonably practicable such that it is safe and without risk to the health or safety of the public, the people who will construct it or the subsequent users and other people affected by the completed project.

## (1) Project information

|                    |                                                                       |
|--------------------|-----------------------------------------------------------------------|
| Project Title      | 70067536 - SPATS1 997 M5 J19-20 Portbury to Clevedon Value Management |
| Project Reference  | 70067536-TST01                                                        |
| Designer           | WSP                                                                   |
| Employer           | Highways England                                                      |
| Principal Designer | Highways England                                                      |

## (2) PLANNING AND MANAGEMENT OF THE PROJECT

|                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                 |
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| (a) LOCATION OF THE PLANNED WORKS<br>O.S Grid Reference.<br>Road Number, River crossing etc.<br>Nearest Settlement.<br>Approach roads/Hazards.<br>Post code if available | Wynhol Viaducts Nr M5, Clapton-in-Gordano, Tickenham, North Somerset, South West England, BS21 7AG<br><br>M5/151.30/A, 1770, Wynhol Viaduct Upper Southbound, Easting 345060, Northing 172870.<br><br>M5/151.30/B, 11071, Wynhol Viaduct Lower Northbound, Easting 345070, Northing 172890.<br><br>Refer to Section 1 of the Site Information for full details. |
| (b) CONTRACTOR DESIGN<br>Extent of their design.<br>Temporary works design.<br>Specific elements design.<br>Refer to further details included in the contract            | The Contractor is to remove and reinstate existing covers and fixings. Replacement fixings will be a like-for-like replacement of existing.<br><br>The Contractor shall design, erect, maintain and remove any Temporary works required to undertake all Works, which include items such as the Dilapidation Survey (Section 1.2.5).                            |
| (c) Arrangements for ensuring cooperation between duty holders and work is coordinated                                                                                   | Highways England have provided the Works Information which states the duty holders in Section 3.4.3. The Principal Contractor shall liaise directly with the Employer who is both the Principal Designer and Client.                                                                                                                                            |

### (3) Client Brief

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| <p>(a) NATURE &amp; DESCRIPTION OF THE PLANNED WORKS</p> <p>Purpose of the works including main function and operational requirements of the finished project</p> <p>Main elements of the works and what they comprise</p>                                                                                                                                                                                                                                                                    | <p>Undertake structural testing surveys as detailed in Section 1.2 of the Works Information. Works comprise:</p> <ol style="list-style-type: none"><li>1)Corrosion Test Areas (Sections 1.2.1 and 1.2.2);</li><li>2)Deck waterproofing investigations (Section 1.2.2);</li><li>3)Bearing Inspection (Section 1.2.3);</li><li>4)Expansion Joint Inspection (Section 1.2.4);</li><li>5)Dilapidation survey (Section 1.2.5);</li><li>6)Material sampling and Waste Acceptance Criteria (WAC) testing of materials requiring disposal arising from these investigations (Section 1.2.2).</li></ol> |
| <p>(b) PROGRAMME (TIMEFRAME AND BUDGET)</p> <p>Start date. (provisional or set), Contract period, budget.</p> <p>Restrictions imposed at certain times of year.</p>                                                                                                                                                                                                                                                                                                                           | <p>Refer to Section 4 of the Works Information for the programme requirements. Envisaged start dates and budgets are stated on the TST Front Sheet.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>(c) CLIENT</p> <p>Main point of contact</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>Highways England</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <p>(d) SIGNIFICANT HAZARDS &amp; PRECAUTIONS IDENTIFIED AT THE DESIGN STAGE</p> <p>Reference should be made to the designer's hazard identification to provide greater depth and detail and suggested precautions.</p> <p>Utilising wherever possible drawings and schedules.</p> <p>Refer contractor to specific appendices in the contract for risks at different stages of construction. E.g. Traffic Management. Site hoarding, pedestrian routes, underground and overhead services.</p> | <p>Significant hazards are identified in the Site Information, Section 1. Precautions are set out in the Works Information. These include, but are not limited to, Asbestos testing (Section 2.1.11), Bat licences (Section 3.2.5), 3rd party land access (Section 3.2.7) and post tensioning (Section 3.2.4).</p> <p>Refer to the appended Designers Risk Register for further details.</p>                                                                                                                                                                                                   |
| <p>(e) SIGNIFICANT HAZARDS &amp; PRECAUTIONS IDENTIFIED AT THE CONSTRUCTION STAGE</p> <p>Include what steps the design team should reasonably take to ensure their designs help manage foreseeable risks during the construction phase and when maintaining, cleaning or demolishing a structure</p> <p>Compliance with Specification.</p> <p>Contamination.</p> <p>Risk associated with storage of materials.</p>                                                                            | <p>Given the exploratory nature of the Works Information, all works are specified by the Designer to investigate unknown Site Information. As a result, the Works have been specified to manage and minimise the risk of harm in accordance with the principles of ERIC.</p> <p>The findings from the Contractor's Works will become Site Information for future construction works.</p> <p>The Contractor will maintain their risk register as per Section 3.4.7 of the Risk Register.</p>                                                                                                    |
| <p>(f) HIGH RISK OR COMPLEX HAZARDS (IF APPLICABLE SEE SCHEDULE 3)</p> <p>Include expected standards of health and safety, including safe working practices, and how these standards will be maintained throughout.</p>                                                                                                                                                                                                                                                                       | <p>No complex or high risk hazards have been identified beyond those mentioned in Section 3d and 3e of the Pre Construction Information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

#### (4) Existing Information Relevant to the Project

|                                                                                                                                 |                                                                                                                                                                                                                                                                       |
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| <p>(a) STRUCTURAL DRAWINGS<br/>AND<br/>SURVEYS<br/>Include any existing drawings or<br/>surveys e.g. Asbestos</p>               | <p>A schedule of existing drawings is presented in Section 2 of the Works Information.</p> <p>Section 1.1 and 1.2 of the Site Information contains access information and services information respectively.</p> <p>Additional information is available on IAMIS.</p> |
| <p>(b) THE HEALTH AND SAFETY<br/>FILE<br/>Include any relevant information<br/>from an existing health and safety<br/>file.</p> | <p>Previous Health and Safety files have been produced and are available on IAMIS.</p> <p>They are titled '2013 Expansion joint refurb H&amp;S file' and '2015 Waterproofing and resurfacing H&amp;S File'.</p>                                                       |

T446: Design Risk Management Schedule

|            |          |              |                                                            |
|------------|----------|--------------|------------------------------------------------------------|
| Project No | 70067536 | Project Name | SPATS1 997 M5 J19-20 Portbury to Clevedon Value Management |
|------------|----------|--------------|------------------------------------------------------------|

Guidance Notes (see guidance notes page for more details)  
Design risk management should be an integral part of the overall design development and designers should think of it in terms of considering constructability, maintainability, etc. Designers only need to document their consideration of risks in this simple risk management schedule format. There is no requirement for quantitative design risk assessments to be carried out/documented and these should be avoided  
\* Risks should be considered in a logical sequence relating to the location/operational environment, constructability/installability, operability (normal/emergency), maintainability (inc routine cleaning, replacement, etc.), and alteration/decommissioning/dismantling/demolition, and should be categorised against those headings, CIRIA guidance documents C755, C756, C686, C607, etc. provide a useful checklist and detailed guidance on the identification of risks to be considered during design and how those risks might be addressed - see detailed guidance notes for more details  
§ Significant residual risks are those which are unusual, not obvious, difficult to manage, or where critical design assumptions apply. The documentation by designers of residual risks that cover well-known and understood hazards should be avoided.

| Ref | Risk Category*<br>& Phase where appropriate,<br>e.g. location/environment, construction, operation,<br>maintenance, alteration/demolition | Asset Key<br>(Structure Key)<br>commas<br>between keys | Work Element/Location<br>(where appropriate) | Hazard or Risk Issue Identified                                                            | Risk Management<br>Owner | Design ERlc Action Required<br>(e.g. hazard elimination/risk mitigation action, information to<br>be provided to others)                                                                                                                                                                                                                                                                                                                                                                     | Significant Temporary Works<br>Requirements/Management Arrangements and/or<br>any Special Erection/Installation Sequences or<br>Requirements | Design Action Status/Final Resolution Notes<br>(e.g. traceability of ERlc action, communication of<br>significant residual risk, critical design criteria, etc. ) | Significant<br>Residual Risk <sup>§</sup> | Date Logged/<br>Reviewed | Raised By      |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|----------------|
| 1   | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Structure                                    | No asbestos management plan, therefore, there is<br>potentially asbestos on the structure. | Highways England         | Asbestos survey to be carried out, prior to intrusive works<br>being carried out.                                                                                                                                                                                                                                                                                                                                                                                                            | Potential asbestos removal if present, or isolating<br>areas where asbestos is present and not working<br>near it.                           | Residual Risk noted in Works Information.                                                                                                                         | Yes                                       | 29/06/2020               | Liam Hennessey |
| 2   | Construction                                                                                                                              | 15553,1770,1<br>1071                                   | Structure                                    | Excavation and construction around existing cabling<br>and services/ Unknown services      | Highways England         | Utility returns to be reviewed and information is to be<br>included in the design. contractors working methods are<br>likely to mitigate risk with unknown services e.g. CAT<br>scanning.<br><br>Contractor to be supplied with C3 utility information and<br>drawings showing approximate layout of<br>utilities on plan. Identify all known statutory undertakers<br>services on site prior to carrying out<br>any excavation works. Take all necessary measures to avoid<br>the services. |                                                                                                                                              | Residual Risk noted in Works Information.                                                                                                                         | Yes                                       | 29/06/2020               | Liam Hennessey |
| 3   | Construction, Maintenance, Alteration/Demolition                                                                                          | 1770,11071                                             | Abutment access                              | Confined space with known bat roost.                                                       | Highways England         | Likely to be mitigated effectively by contractors working<br>methods i.e. Bat licence.                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                              | Residual Risk noted in Works Information.                                                                                                                         | Yes                                       | 29/06/2020               | Liam Hennessey |
| 4   | Construction, Maintenance, Alteration/Demolition                                                                                          | 1770,11071                                             | Parapets                                     | Lead paint identified on the structure                                                     | Highways England         | Ensure the contractor knows of the COSHH material. Consult<br>environmental team.                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                              | Residual Risk noted in Works Information.                                                                                                                         | Yes                                       | 29/06/2020               | Liam Hennessey |
| 5   | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Access within structure                      | Confined Space access for inspection and<br>maintenance.                                   | Highways England         | Designers aimed to minimise the need for future<br>replacement, maintenance or inspection works to take place<br>during design life of the highway, as well as facilitating safe<br>access where this is not possible. If maintenance is carried<br>out, then access to the confined space is required. To<br>ascertain the condition, an internal inspection is required.<br>Only confined space staff that are skilled trained and<br>competent should enter the space.                    | None                                                                                                                                         |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 6   | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Structure and access to<br>the structure     | Working adjacent to the highway                                                            | Highways England         | Designers aimed to minimise the need for future<br>replacement, maintenance or inspection works to take place<br>during design life of the highway, as well as facilitating safe<br>access where this is not possible.<br><br>Risks may be mitigated through segregation of users/<br>maintenance staff from highway.<br>Information to be provided to others - Traffic Management<br>arrangements to avoid work next to live traffic where<br>possible                                      | Traffic management measures will be required if<br>access via third party land isn't agreed.                                                 |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |



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|-----|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------|----------------|
| 7   | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Structure                                    | Damage to existing elements resulting in possible<br>loss of structural integrity.                                                                                                                                                                                                   | Highways England         | Records have been reviewed and it appears that there is low<br>risk of collapse.                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 8   | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Access to the structure                      | Working at height - resulting in death or injury from<br>falling                                                                                                                                                                                                                     | Highways England         | SFARP design out the need for regular cleaning,<br>maintenance and inspection that would necessitate work at<br>height and design in safer ways of meeting a need without<br>needing to work at height. (For example by providing access<br>platforms.)                                                                                                                                                                                                                                                           |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 9   | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Structure                                    | Contamination of nearby watercourse                                                                                                                                                                                                                                                  | Highways England         | The level of risk should be reduced SFARP in the choice of<br>design materials. Flood defence, Canal and River Trust and<br>Environment Agency consent should be considered.                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 10  | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Structure                                    | Leptospirosis                                                                                                                                                                                                                                                                        | Highways England         | Contractor to ensure the following:<br>Ensure appropriate facilities for first aid, hand washing on<br>site. Full site induction for all persons working on site<br>identifying the various health and safety issues, i.e. cover all<br>open wounds and wear hand protection to cover and<br>protect open wounds, do not eat on site, ensure familiarity<br>with the symptoms and mechanisms for catching the<br>disease, keep out of standing water.                                                             |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 11  | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Access to the structure                      | Interface with the public                                                                                                                                                                                                                                                            | Highways England         | Eliminate/Reduce:<br>Where possible design out the need for regular<br>maintenance and inspection that would require traffic<br>management on the road or an interface with the public.<br>This may be conducted by considering more expensive but<br>longer lasting repairs.<br>Information to provide:<br>Areas where repairs are required have been provided to the<br>contractor during ECI meetings so contractor can consider<br>access and the interface with the public during the<br>construction phase. |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 12  | Operation and Maintenance                                                                                                                 | 15553,1770,1<br>1071                                   | Structure                                    | Drawings are not marked as asbults and were<br>produced from various illegible documents and<br>sources causing discrepancies that will impact cost,<br>quality and programme of the construction. Potential<br>undocumented substances within the structures and<br>poor detailing. | Highways England         | Ensure that any suspected inaccuracies are highlighted and<br>possible mitigation/verification measures put into place.                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 13  | Maintenance                                                                                                                               | 15553,1770,1<br>1071                                   | Structure                                    | Inhalation of fumes whilst applying protective<br>coatings from steel preperation. This problem is<br>exacerbated by the confined space location.                                                                                                                                    | Highways England         | Ensure the contractor knows of the material and manage in<br>accordance with COSHH.                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |



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| 14  | Operation and Maintenance                                                                                                                 | 1770,11071                                             | Structure                                    | Damage to existing Post tensioned elements resulting in possible loss of structural integrity.                                                                                                                                                                         | Highways England         | Records have been reviewed and the positioning of post tensioned ducts has been considered in Works design.                                                                                                                                                                                                    |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 15  | Operation and Maintenance                                                                                                                 | 1770,11071                                             | Structure                                    | Drawings are not marked as asbuilts and were produced from various illegible documents and sources causing discrepancies that will impact cost, quality and programme of the construction. Potential undocumented substances within the structures and poor detailing. | Highways England         | TST Testing has been procured to minimise the risk associated with undocumented substances.                                                                                                                                                                                                                    |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 16  | Operation and Maintenance                                                                                                                 | 1770,11071                                             | Structure                                    | Environmental Health Officer (EHO) restricts noisy activities causing delay to the maintenncance/construction programme or changes in proposed working methods. Disruption to the public and local residents.                                                          | Highways England         | Contractor is to have early involvement with Local Authority EHO. Establish who will be disrupted and possibly relocated.                                                                                                                                                                                      | Contractor to employ measures to control noise levels.                                                                                       |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 17  | Construction, Maintenance, Alteration/Demolition                                                                                          | 1770,11071                                             | Structure                                    | Working over water                                                                                                                                                                                                                                                     | Highways England         | Minimise the requirement to work directly above water or near to it. Any risk that is unavoidable due to the nature of the works is likely to be mitigated by the contractor's methodology. Drainage catchments are to be unblocked by the Contractor to minimise the risk associated with working over water. |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 18  | Construction, Maintenance, Alteration/Demolition                                                                                          | 1770,11071                                             | Abutment access                              | Access to the abutment and substructure - potential for personal injury to workers and damage to equipment.                                                                                                                                                            | Highways England         | Likely to be mitigated effectively by contractors working methods                                                                                                                                                                                                                                              |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 19  | Construction, Maintenance, Alteration/Demolition                                                                                          | 1770,11071                                             | Abutment access                              | Access to the abutments are via locked doors.                                                                                                                                                                                                                          | Highways England         | Contractor is to obtain access keys, agree and adopt protocols suitable for the duration of works.                                                                                                                                                                                                             |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |
| 20  | Construction, Maintenance, Alteration/Demolition                                                                                          | 1770,11071                                             | Structure                                    | Proximity of pedestrians to location of significant concrete breakout                                                                                                                                                                                                  | Highways England         | Avoid breakout near to pedestrian route where possible. Adopt pedestrian management protocols if appropriate.                                                                                                                                                                                                  |                                                                                                                                              |                                                                                                                                                                   |                                           | 29/06/2020               | Liam Hennessey |