

**National Asset Delivery
Technical Surveys and Testing**

**Works Information for
609250 Area 14 Parapet Paint Survey**

CONTENTS AMENDMENT SHEET

Amend. No.	Revision No.	Amendments	Initials	Date
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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 carry out a Pre-specification survey and provide a Maintenance Painting Specification in accordance with DMRB CM 431 'Maintenance Painting of Steelwork' for the bridge parapets at the bridges listed in the table below.

The works are intended to form the specifications for the re-painting of the parapets on each bridge.

Bridge	Structure Key	Easting, Northing
A1(M), Archdeacon Newton	STR_5103	425520, 516300
A19, Holystone Roundabout South	STR_5594	430610, 570510
A19, Holystone Roundabout North	STR_5595	430560, 570620
A1, Shotton Edge	STR_5613	422580, 576620
A19, West Farm	STR_5599	428740, 572450

- 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) To visit each structure and carry out a paint Pre-specification Survey of the parapets on both carriageways in accordance with CM 431 'Maintenance Painting of Steelwork'.

The scope of the Pre-specification Survey is given in CM 431.

The survey shall be undertaken by inspector/s with minimum qualification of Coating Inspector ICorr Level 2 or equivalent.

- (2) A report for each structure shall be produced reporting on the Pre-specification Survey in accordance with the CM 431. As taken from CM 431, the report shall include but not limited to the following scope:

- Determine whether and to what extent maintenance painting of the protective coating is required;
 - Determine the condition of the protective coating to a structure and categorise it in accordance with the categories of failure given in Appendix A;
 - Determine pull-off adhesion and dry film thickness values of the protective coating;
 - Determine the nature and composition of the protective coating, including whether it is convertible or non-convertible;
 - Determine the presence of any toxic element content including lead, cadmium, chromium, arsenic, aluminium and zinc;
 - Determine the resin type of the paint coats;
 - Determine the types and levels of contaminants present on the surface of the protective coating including soluble salt;
 - Establish the extent, intensity and methods of surface preparation that will be required to ensure the satisfactory performance of a maintenance paint system;
 - Recommend a maintenance painting specification including a maintenance paint system specification;
 - Recommend measures to deal with any health and safety risks and risks to the environment;
 - Recommend measures to deal with waste including any hazardous waste;
 - Gather the information necessary to develop an accurate bill of quantities for the maintenance painting works.
- (3) A Maintenance Painting Specification for each structures parapets in the form of a Form HA/P1 (Maintenance) Paint System Sheet shall be produced.

Note 1: It is not envisaged that any feasibility trials will be carried out unless there is strong justification to do so.

Note 2: Blast cleaning of the parapets is unlikely to be practical and should be avoided in the specification.

1.3 Deliverables

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

- (1) A Pre-specification Survey Report (for each bridge) in accordance with the scope in CM 431 'Maintenance painting of steelwork'.

- (2) A completed Maintenance Painting Specification (for each bridge) in the form of a Form HA/P1 (Maintenance) Paint System Sheet (see Series NG 5000 [Ref 3.N], Appendix 50/1).

2 EXISTING INFORMATION

2.1.1 The following existing information is provided:

- Archdeacon Newton – General Inspection Report 2020
- Holystone Roundabout South – General Inspection Report 2018
- Holystone Roundabout North – General Inspection Report 2020
- Shotton Edge – General Inspection 2020
- West Farm – General Inspection 2019

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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 08:00 to 18:00.
- 3.2.2 There will be no parking on network without traffic management. It is anticipated that the works can be carried out from behind VRS at all sites, with parking in a suitable location off network and using verges and embankments to access the parapets.

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 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.
- 3.3.3 Not Used
- 3.3.4 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

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

Risk Management

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

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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)
- 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) 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
- 4.1.5 The *Contractor* updates the programme every 4 weeks. 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:

- (1) It is anticipated that traffic management will not be required.
However, should traffic management be required for any work this
will be provided by the employer's M&R Contractor.

5.1.2 Not Used.

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6 SPECIFICATION FOR THE WORKS

6.1.1 The *Contractor* shall undertake the works in accordance with:

6.1.2 DMRB CM 431 'Maintenance painting of steelwork'

- (1) Specifically, section 3 which outlines required scope and testing for the Pre-specification Survey
- (2) Specifically, section 4 which outlines requirement for the Provisional maintenance painting specification.
- (3) Specifically, section 6 which outlines requirement for Maintenance Painting Specification.

6.1.3 Series NG 5000 of the MCHW.

6.1.4 For each structure given in Section 1 the following should be produced:

- (1) A report in line with the scope of the Pre-specification survey
- (2) A Form HA/P1 (Maintenance) Paint System Sheet

6.1.5 Reports and documents should be provided in PDF format which will be reviewed. The contractor should allow for a round of comments to be addressed.