Area 12 Broughton Resurfacing SDF-NE-W245 Specification Supplementary Information

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National Highways
617900

Scheme Delivery Framework
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Area 12 Broughton Resurfacing SDF-NE-W245 Specification Supplementary Information

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Contents

Scheme Information

1 Extent of the Site

The Site is located at OS Grid Reference 495644,407016

What3Words: - huddling. starfish. Bulky

DN20 OLE

2 Scheme Delivery Framework lot allocations:

For the Service Information the division of tasks split between lots, and their associated responsibility is shown in the table below. The table is not exhaustive; any omissions shall be queried with National Highways or will become the responsibility of the Principal Contractor to provide in accordance with the contract.

Lot Allocation	Tasks specific to the Service Information
Lot 1	General Civil Engineering
Lot 3	Temporary Traffic Management
Lot 6	Road Markings
Planing and Resurfacing work to be carried out as part of the Category Management Framework.	

3 Supplementary Specification

This Supplementary Information is the scheme specific additional requirements to supplement the requirements of the latest revision of the Scheme Delivery Framework (SDF) Specification. The SDF Specification shall be the first point of reference. The information in this supplementary specification provides supplementary details of additional requirements where they are not provided in the SDF Specification.

Appendix 0/4 List of Drawings Included in the Contract

1 Contract Specific Drawings Supplied to Each Tenderer

Drawing No.	Title	Rev
617900-JAC-HGN-W245_XX-DR-CH-0001	Location Plan	C01
617900-JAC-HMK-W245_XX-DR-CH-0001	Road Markings Drawing	C01
617900-JAC-HPV-W245_XX-DR-CH-0001	Pavement Drawing	C01

Appendix 1/5 Testing to be Carried Out

In addition to the test described in Volume 1 Specification for Highway Works the tests detailed in the table below shall be carried out in accordance with Clause 105.

Clause	Work, Goods or Material	Test	Frequency of Testing	Test Certificate	Comments
Series 700					
710	Constituent materials in recycled aggregate and recycled concrete aggregate	Quality control	As required by the 'Quality Protocol for the production of aggregates from inert waste'	Required	
711	Overbanding and inlaid crack sealing systems			Required	BBA certification (or equivalent) applies

Appendix 1/7 Site Extent and Limitation on Use

1 Extent of the Site

The limits of the Site are deemed to be extended to include those sections of highway required for the purposes of advance signing and coning for the purposes of traffic safety and management measures to construct the Works.

2 Limitations on Use of the Site

The use of any area of the Site will be limited by the requirements of the following conditions:

a) The safety zones specified in Chapter 8 of the Traffic Signs Manual shall be maintained between the edge of any traffic lane and the works, constructional plant, or materials.

b) Any areas of site not forming part of the permanent works shall be returned to its original condition prior leaving the site.

c) Access to and from the site shall comply with the requirements of Appendix 1/19.

d) No lane, road junction vehicular or pedestrian access which has not been closed to traffic, shall be obstructed during the works.

e) The Site shall be maintained in a clean and tidy state by removing rubbish, demolished concrete and other debris arising from the works to a tip off Site. All materials and plant for the Works shall be stored neatly. On completion of the works all surplus materials shall be removed and the Site left in a clean and tidy condition. No materials shall be stockpiled on the highway verges or lay-bys.

f) The chosen Contractor shall be made aware of the constraints – height restrictions, when carrying out the surfacing works within the extents of the overhead structure.

g) The working hours shall be as detailed in either the Construction Phase Plan or the Pre-Construction Information Plan.

Appendix 1/9 Control of Noise and Vibration

The Contractor is advised to approach the Local Authorities in whose area work is to be carried out and seek the Local Authorities formal consent to his proposed methods of works and to the steps he proposes to minimise noise. In accordance with the Control of Pollution Act 1974 and any statutory modification, re-enactment or regulation made there under, the Contractor shall be deemed to be the person responsible for having control over the carrying out of works.

The authorities responsible for environmental matters are.

North Lincolnshire Council

8-9 Billet Lane,

Normanby Enterprise Park,

Scunthorpe DN15 9YH

01724 297000

Appendix 1/12 Setting Out and Existing Ground Levels

1 Existing details to be recorded.

Prior to any cold milling operations all road gully locations shall be noted and covered until all cold milling has taken place. The same shall be done prior to any surfacing operations and the covers shall remain in place until all surfacing operations are complete.

Appendix 7/1 Permitted Pavement Options

1 Permitted Pavement Options – Schedule 1

For permitted pavement options, location, areas, see 617813-JAC-HPV-W245_XX-DR-CH-0001

2 General Requirements – Schedule 2

Included table below as corrections applied to SDF Specification as highlighted. Relevant discipline team to review and amend as required.

Schedule 2: General Requirements		
Grid for checking surface levels of pavement course	Longitudinal dimension	10.0m
	Transverse dimension	2.0m
Surface regularity	Category of Road	A
	Interval for measurement of longitudinal regularity	Each wheel track
	Interval for measurement of transverse regularity	As SHW Series 700 Table 7/2
Surface texture is required. Measurement of surface texture shall be in accordance with clause 921 as revised by IAN 154/12.		

3 Permitted Construction Materials – Schedule 3

Schedule 3: Permitted Construction Materials					
Pavement Layer		**Pavement Option PT1**		**Pavement Option PT2**	
		Material Ref.	**Thickness (mm)**	**Material Ref.**	**Thickness (mm)**
Surfacing	**Surface Treatment**				
	Surface Course	SC1	50mm	SC1	50mm
	Binder Course			BC1	60mm
	Base Course				
Total Thickness			50mm		110mm

4 General Requirements for Construction Materials – Schedule 4

Schedule 4: General Requirements for Construction Materials		
Clause	**Requirement**	
801.2	Limiting distance for deposition of unbound mixtures referred to in sub-Clause 801.2	n/a
801.3	Limiting distance for deposition of unbound mixtures referred to in sub-Clause 801.3	n/a
801.7	Exclusion depth for frost susceptible material	n/a
802.4	Maximum compacted thickness of unbound materials spread in one layer	n/a
802.12	Trial areas not required	n/a
903.24	Sealant shall be applied to the top surface of all base and binder course joints.	n/a
903.25	Sealant shall be applied to any freestanding edge of the finished pavement	Cold upstanding edges shall be treated in accordance with sub-Clause 903.22(i), (ii), (iii) or (iv)
903.27	Minimum PSV of base or binder course material used as a temporary running surface. Maximum duration of trafficking of temporary running surface	Traffic not allowed to run on any temporary surface

5 Requirements for Construction Materials – Schedule 5

Material Ref.	Clause	Description	Requirements
Thin Surface Course (SC1)	942SR – see CD236.	Thin Surface Course System (TSCS) 10mm	**B – Non-Event carriageway with one way traffic** Stress Level **3** Minimum Required declared PSV category [942.8]: **50.** Maximum permitted (D) Upper Aggregate Size:**14mm.** Required maximum AAV category in hot paver thin surface course systems [942.8]:**16.** Road/Tyre noise level [942.10 and Table NG9/30]: **2** Resistance to permanent deformation, if not Level 3 [942.9 and Table NG 9/27, 9/28 add 9/29 and 9/31]: **0.** If required, minimum or maximum layer thickness [942.11 and Table NG 9/32]: **40.** Initial surface macrotexture measurements are required.

			Initial texture depth to clause 921, amended by CD236. min-**0.8** max -**1.3** average- **0.7** The integrity of the surfacing and the workmanship shall be guaranteed for a period of five years
Binder Course (BC1)	929	Dense base and binder course asphalt concrete (Design Mixtures)	Mixture designation [929.1]: (Warm Mix Asphalt) AC 20 HDM bin. 40/60 des. Whether void content at refusal is to be monitored in the permanent works [929.3]: Not required. Resistance to permanent deformation classification [929.4, Table NG 9/25 and PD 6691 Table D2]: Class 2 Whether resistance to permanent deformation is to be monitored in the permanent works [929.5]: Not required

6 Thin Surface Course Systems: Information to be provided by the Contractor.

Text below taken from DSC / NE example specs.

a) Certificate or Certificates for the Thin Surface Course System or systems that are proposed for use in the works, together with a copy of the Installation Method Statement associated with each Certificate. *[942.1]*

b) For any Certificate that covers several variants of one Thin Surface Course System, proposed variant or variants of the system to be used in the Works *[variants of a system occur from any option that results in different values being reported on the Certificate for one or more properties, and could involve changes in nominal maximum aggregate size, aggregate type, aggregate grading, binder type, binder content, fibres or other additives, type and rate of spread of bond coat.]*

c) If requested, or if the Thin Surface Course System is not produced under a Sector Scheme, the proposed component materials to be used in the Thin Surface Course System and their proportions for each proposed system *[942.4]*

d) Proposed source or sources of coarse aggregate together with statement of properties including Polished Stone Value, Aggregate Abrasion Value, Los Angeles Coefficient, and Flakiness Index. *[942.5]*

e) If regulating material is to be used, evidence of its deformation resistance either independently or in combination with the Thin Surface Course System. *[942.10]*

Appendix 7/4 Bond Coats, Tack Coats, and Other Bituminous Sprays

Text below taken from DSC / NE example specs.

A bond coat shall be applied to all existing bituminous surfaces, which, are to be over-laid and areas of cold-milled carriageway to be resurfaced.

The types and locations of bond coat to be applied are as follows.

(a) Bond Coat Type A shall be a bond coat as specified in the British Board of Agrément HAPAS Roads and Bridges Certificate for Clause 942 thin surface course systems. Type A Bond Coat is used with Clause 942 thin surface course systems (A bond coat is not required for thin surface course systems laid as part of a repave process).

(b) Bond Coat Type B shall be a bond coat that has a British Board of Agreement HAPAS Roads and Bridges Certificate. Type B Bond Coats are used for hot rolled asphalt surfacing and for binder and base layer materials.

The rate of spread for bond coats shall be 0.35kg/m2 of residual bitumen.

Emulcol braking agent to be applied with all bond coats.

Prior to application of the bond coat all surfaces shall be swept to remove loose material and standing water.

All existing ironwork, kerbs and street furniture shall be masked prior to the application of bond coats.

SHEET 2: Information to be provided by the Contractor.

The Contractor shall provide the following information prior to the commencement of the work:

1. The product or products he proposes to use together with their data sheets, product identification data, cohesivity data as specified. [920.2, 920.3, 920.4, 920.5] [Note to compiler: A suitable Sheet for the provision of binder data is attached to this Appendix, other layouts are permitted but all the required data should be supplied]
2. For each product, a copy of the BS EN ISO 9001 certificate showing the name of the manufacturer, the name of the certification body and the reference number and date of the certificate.
3. The spraying equipment proposed, and a test certificate. [920.7, 920.9]
4. (08/08) The source or sources of blinding material proposed. [920.12]
5. Contingency plans in the event of any breakdown.
6. The results of any other tests or other data the Contractor considers would assist the Overseeing Organization in assessing the technical merit of the treatment such as:
   (i) Tackiness test and/or trafficability time and methods of test.
   (ii) Breaking time test results for different weather conditions and substrates.
   (iii) Test results for bond to newly laid concrete [e.g., from a BBA/HAPAS certificate if available]. The data supplied should not be more than 6 months old.

Binder Data Sheet - Appendix 7/4	**Bond Coats, Tack Coats and Other Bituminous Sprays**	
Manufacturer of Binder:	Product name:	
Binder type:	Batch no:	
Binder Grade (highlight as required) Conventional Intermediate Premium Super-Premium Non-Tack Other		
Binder Source è	**Recovered Binder**	**Recovered Binder after Ageing Test**
Test ê	Recovered in accordance with Clause 923	Aged in accordance with Clause 923
Penetration at 25 °C 0,1 mm (100g and 5 secs)		
Penetration at 5°C 0,1 mm (200g and 60 secs)		
Vialit pendulum cohesion see Clause 957 maximum peak value J/cm^2	The Contractor shall attach a Report and graphical output to this schedule as specified in Clause 957.	The Contractor shall attach a Report and graphical output to this schedule as specified in Clause 957.
Product identification test. **The provision of data for identification and ageing is optional for unmodified bituminous emulsions to BS 434 and for bitumen to BS EN 12591 and cutback bitumen to BS 3690.** Complex shear (stiffness) modulus (G*) and phase angle (δ) data. See Clause 956.	The Contractor shall attach a Report and graphical output to this schedule as specified in Clause 956.	The Contractor shall attach a Report and graphical output to this schedule as specified in Clause 956.
Other properties the Contractor considers useful: Minimum Binder Content Binder temperature range for spray application Emulsion Properties and Viscosity Break time Breaking Agent type Weather limits - information from binder manufacturer: road or air temperatures; humidity; wind chill adjustment; tolerance of surface dampness; etc. Temperature max: Temperature min: Other:		

Appendix 7/9 Cold Milling (Planing) of Bituminous Bound Flexible Pavement

Not included / covered by SDF Specification.

1. For each location of cold milling this shall be constant depth Planing in accordance with Appendix 7/1 and as indicated on drawing series 700.
2. All areas to be cold milled shall be swept prior in accordance with sub-clause 709.11.

Appendix 12/3 Traffic Signs: Road Markings and Studs

1 Permanent Road Markings - General

AS PER SDF SPECIFICATION

Yellow road markings shall comply with the requirements for white road markings as defined in the current version of the SDF Specification *Appendix 12/3 Traffic Signs: Road Markings and Studs, 2 Permanent Road Markings – General.*

2 Length and width of road markings

The length and width of road markings are shown on the scheme drawing 617900-JAC-HGN-W245_XX-DR-CH-0001 7 arrows will be renewed 3 at 6m in length and 4 at 4.5m in length.