



INSPECTION DEPARTMENT
Carriageway inspection (Southbound)
DATE. 2015.05.24.

(E2.1 Bridge)
REPORT No.471.
Carriageway - Southbound

DATE: 2015.05.24.

The Southbound carriageway was visually inspected over the above dates and the general findings were as follows:

North Approach: Deterioration of the HRA surfacing continues with more and more surface depressions with veinular, longitudinal and transverse cracking becoming evident. Rutting in the carriageway nearside wheel lane is more evident this inspection. An area of the bus lane overlay between Well-dean (East) lay-by and the cross-over no. 5 continues to deteriorate, with the surface being practically non-existent and the underlying road surface wearing course is beginning to suffer heavy stone loss and wheel rutting is evident.

North Viaduct: The north east viaduct in general remains in a satisfactory condition. All previously repaired HRA. patches remain in a satisfactory condition. All defective surfacing is being constantly monitored and any defects which require to be repaired are carried out by FRB staff using a cold infill material. This material (Stone mastic asphalt) is now starting to show its age at this location.

Side span North: All deck panel surfacing remains in a satisfactory condition, However repair located at PP06 NE (. 1 mtr x 0.5.) which has only temporary infill and is being constantly being monitored and repaired by FRB personnel. The Project Manager Would Like To Replace Them When Repairs Are Being Carried Out On The Defective Areas

Main Span North: Generally Surfacing Remains In A Satisfactory Condition. 9 New Areas Have Been Located This Inspection From Last Inspection.

Generally All Deck Panel Surfacing Remains Satisfactory. 8 In No Areas Of Defective Surfacing Recorded This Inspection. (this has increased by 4 in No from last inspection date.) Below recorded are all defective areas on the main span north. These Are Located On The Following Panels:

1. Pp 58-60 (1 In No Defective Area) Requires Repair. , Located Lane 1. Area Approx 2 Mtrs X 2 Mtrs.
2. Pp. 74- 76 (3 In No Defective Areas) Requires Repair. ,. Located Lane 1. Area Approx 3 Mtrs X 2 Mtrs. & 2 Mtrs X 1 Mtrs. Lane No 2 Area Approx 2 Mtrs X 1 Mtrs Pp. 78-80. 1 In No Defective Area Requires Repair.. Located Lane 1. Area Approx 2 Mtrs X 1 Mtrs .
3. Pp. 80-82 . (2 In No Defective Areas) Located Lane 1. Area Approx 2 Mtrs X 1.5 Mtrs & Located Lane 1. Area Approx 2 Mtrs X 1 Mtr. Pp .
4. 88-90 (1In No Defective Area) Located Lane 1. Area Approx 2 Mtrs X 1 Mtr.

A total of **23 mtrs 2** requires to be removed & replaced.

All Are Areas Which Have Surface Depressions And Veinular Cracking Evident.



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Main Span South: Generally All Deck Panel Surfacing Remains In A Satisfactory Condition. 7 In No Areas Of Defective Surfacing Recorded This Inspection. (this has increased by 5 in No from last inspection date.) These Are Located At The Following Panels :

1. Pp. 86-84.(2In No Defective Areas) Located Lane 1. Area Approx 2 Mtrs X 1 Mtr. & 1.5 X 1Mtr.
2. Pp. 84-82. (1In No Defective Area) Located Lane 1. Area Approx 5 Mtrs X 1.5 Mtr.
3. Pp 76-74. (2In No Defective Areas) Located Lane 1. Area Approx 2 Mtrs X 1 Mtr. & 2.5 X 1Mtr.
4. Pp. 52-50. (1In No Defective Area) Located Lane 1. Area Approx 1 Mtrs X 1 Mtr.

A total of **16.5 mtrs 2** requires to be removed & replaced.

All Are Areas Which Have Surface Depressions And Veinular Cracking Evident.

There Are Also 2. In No Areas Which Remain Intact Which Were Subject To Repairs Carried Out. On The Deck Panel Expansion Joints (end trimmers). These Are Located In Lane No 1. At Pp.98-96 & 54-52 Respectively. Both Areas Are Of A Similar Size. 2 Mtrs X 0.5 Mtr. The Project Manager Would Like To Replace Them When Repairs Are Being Carried Out On The Defective Areas.

A total of **2 mtrs 2** requires to be removed & replaced.

In addition adding the **0.5 mtre 2** at Pp. 06 North side span.

Total area of defective material to be removed & replaced is. = **42 mtrs 2.**

A program of works should be carried out to over- band all deck panel transverse & longitudinal throughout the suspended span.

Please refer to relevant photo file for deective areas.

Side Span South: All deck panel surfacing remains in a satisfactory condition.

South Viaduct: The South east viaduct in general remains in a satisfactory condition

All defects recorded other than carriageway defects have been recorded in the structure report program & individual defect sheets supplied to relevant bridge supervisors for attention.

Bridge Inspector.:

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