



<b>INSPECTION DEPARTMENT</b>
<b>Viaduct Externals. N &amp; S.</b> <b>General Report No 456</b>
<b>DATE. 2015.02.04.</b>

E2.1 Bridge  
REPORT No. 456.  
VIADUCT EXTERNALS N & S

DATE: 2015.02.06. TO 2015.02.04.

The annual inspection of both the North & south viaduct externals were carried out intermittently between the above dates , general findings as follows. :

Paintwork. : The paintwork throughout both the N & S viaduct externals remains as recorded in past reports. No changes recorded this inspection with regards to paint breakdown / corrosion evident on the outrigger & crossbeam beam edges & soffits. Past report carried out in May 2006 recorded that Painting of the North viaduct was incorporated in the Capital plan for a program of works to begin in 2008/09. This was delayed. Following conversation with Maintenance manager & Project engineer it was stated that work would now begin in 2015 and be carried out over an 8 year period with completion hoped for by 2023.

Cycle track / Carriageway Viaduct concrete deck soffits. : ( North viaduct ) It should be recorded that no works have been carried out since last inspection with regards to spalling / missing concrete / exposed reinforcement bar corrosion. As mentioned in the above paragraph ie. Works to be included in capital plan program of works . ( All locations recorded on individual survey schematic sheets. ) It should be recorded that as a precaution all loose areas of spalling throughout the viaduct will be dislodged from the soffit to ensure that none falls through time to the ground. This will be carried out as requested by bridge inspectors as advised by maintenance manager..

( South viaduct.: ) Cycle track / Carriageway Viaduct concrete deck soffits remain in a satisfactory condition. There are limited sporadic small areas of spalling / missing concrete evident. Again as above ( All locations recorded on individual survey schematic sheets. )

Box girder bearings / support concrete. ( North & South ) : All box girder bearings remain in a satisfactory condition. All bearing concrete corbel block supports have as expected small veinular / transverse/ shrinkage/ settlement cracks evident.

North abutment barrier / handrail. : This was replaced during a programme of works carried out in October 2014.

Viaduct runway beams. All viaduct runway beams & associated fixings remain intact , secure and in a satisfactory condition. ( North viaduct. ) Salts & galvanized protective coating breakdown more evident than on the south viaduct. This appears mainly because of location and exposure to the prevailing south westerly winds. ie . ( Airborne salt water being carried from the river to the steelwork.



<b>INSPECTION DEPARTMENT</b>
<b>Viaduct Externals. N &amp; S. General Report No 456</b>
<b>DATE. 2015.02.04.</b>

Box girder access permanent staging. : ( North viaduct. ) Condition remains as past inspections. In my opinion no extensive further deterioration of the expamet flooring has occurred since last inspection. All flooring and associated support steelwork fixings although suffering from paint breakdown / blooming remain intact and secure.

( South viaduct ) West. : As recorded in past inspections, Intermediate coat of paint applied at some time to the flooring is now flaking off which makes its appearance seem worse than it really is. All flooring and associated support steelwork fixings although suffering from paint breakdown / blooming remain intact and secure.

East. : In my opinion remains satisfactory condition . Flooring discoloration sporadic.

Bridge Inspectors. :



<b>INSPECTION DEPARTMENT</b>
<b>Viaduct Externals. N &amp; S. General Report No 456</b>
<b>DATE. 2015.02.04.</b>



<b>INSPECTION DEPARTMENT</b>
<b>Viaduct Externals. N &amp; S. General Report No 456</b>
<b>DATE. 2015.02.04.</b>