



INSPECTION DEPARTMENT
Viaduct expansion joint. N & S.
DATE. 2014.03.26

(E2.1 Bridge)  
REPORT No. 427  
EXPANSION JOINTS N & S VIADUCTS

DATE: 26.03.14

A visual inspection of the north and South Viaduct expansion joints located at the north side tower and at south pier S3 respectively were carried out on the above date; the general findings are as follows:

**South Pier S3:** At time of inspection the current status is as follows:  
West Side: Combe plates 1 & 2 there is movement and noise evident when heavy loads pass over. Combe plate no. 2 still requires east side of spring pack to be fitted with washers.  
East Side: Combe plate no. 2 still requires work to be carried out.

**Spring Damper Packs:** All spring damper packs which are in place remain intact and secure with mild corrosion evident on locking nuts and on packers which have not been replaced recently.

**Drainage Trough:** Heavy corrosion evident with paint breakdown still evident on trough throughout both carriageways.

**Important Information:** Tube and fitting safety barriers have now been removed from the top of S3, **no access to the pier top through box girders permitted**; new gates have been installed and are padlocked from the outside.

**North:** Since time of last inspection combe plates 2 & 4 on the east side have been repaired. At time of this inspection on the east side there still appears to be slight movement on combe no. 2 (west side). On the west side combe plate no. 2 requires to be repaired as noise is evident when heavy loads pass over; all the underside plate fixings continue to show signs of paint breakdown and heavy corrosion.

**Spring Damper Packs:** As with the south all spring damper packs remain intact and secure with mild corrosion evident on the locking nuts and packers which have not been replaced recently.

**Drainage:** Expansion joint (North) carriageway surface rainwater trough east to west has a mild build up of road dirt/detritus evident.

All defects have been recorded and entered on the structural report programme under the relevant structure nos. 5209/8210.

Bridge Inspectors:

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