

5. Conclusions and Recommendations

The main internal girders carrying the carriageway have sufficient capacity for 40/44 tonnes Assessment Live Loading for all surface and AAHHGVF conditions.

The outer internal girders have sufficient capacity to carry full Annex D Accidental Vehicle (AV) loading.

The edge girders are restricted to 7.5 tonnes Annex D Accidental Vehicle (AV) loading limited by bending at the quarter span point.

The east abutment is considered inadequate for 40/44 tonnes vehicle loading by qualitative assessment.

The pre-cast concrete jack arches show a minor non-compliance to Bridgeguard CIS No.22 though this is not considered to significantly affect the load carrying capacity of the jack arches based on the assessment during the site survey.

A weight restriction of 7.5 tonnes GVW should be applied to the structure pending a decision on permanent repairs to the east abutment. Should the abutment be effectively repaired, safety kerbs or effective barriers will be necessary to prevent accidental vehicle incursion onto the verges.

Further investigations into the cause of the movement within the east abutment, remedial repairs and the provision of intermediate supports for the edge girders at quarter spans would attract significant costs. It is recommended that this structure be considered for structural infilling.