

Ringway Jacobs Limited

A8 – IMMEDIATE RISK STRUCTURE: EMERGENCY ACTION RECORD OF AGREEMENT/INCIDENT LOG

Company	Review Due
Contract – EH	28/6/2024

Immediate Risk Structure: Yes, the structure’s condition is considered to present an immediate and unacceptable safety risk to the public.

Proposals for Emergency Action: Close the structure to all vehicular and Non-Motorised Users (NMU).

Record of Agreement/Incident Log:

Date: 29/06/2023

Table A.3 Record

Structure Name	Boxted Bridge ECC No. 0059
Roads affected	Wick Road, Lower Farm Road, Sky Hall Lane
Comment on CS 470 procedures	<p>A structural assessment carried out in 1992 revealed that the structure was capable of withstanding 3 tonnes assessment live loading (ALL), limited by the riveted plate edge girders.</p> <p>A substandard review was carried out in 2017 and the structure is subject to a 6 monthly monitoring regime in order to observe and manage changes in the condition of the structure.</p> <p>The structure was placed on the Capital works programme for replacement, however third-party issues, including planning, have to date delayed the progress on the project.</p> <p>A Principal Inspection carried out on 28th June 2023, has indicated that the condition of the structure has deteriorated significantly since its last Principal Inspection in 2018 and consequently the structure is considered to be an immediate risk structure, and should be fully closed.</p>
Brief description of need	<p>A Principal Inspection was carried out on 28/06/2023 as part of Essex Highways routine inspection programme.</p> <p>A Principal Inspection carried out in March 2018 revealed condition scores of 49.68 and 35.78 for the BCI_{AVE} and BCI_{CRIT} respectively, however initial findings from the recent PI indicate</p>

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	<p>that the condition of the primary and secondary elements has deteriorated as highlighted below:</p> <ul style="list-style-type: none"> - The riveted plate girders (both primary and secondary elements) are exhibiting significant corrosion with section loss through the web and flange. - A rivet head has become detached to the secondary element. - Riveted plate sections in upper areas of the secondary deck elements have deteriorated further. - Rivet heads within the secondary elements which are subject to expansive corrosion have deteriorated further and are at increased risk of failure. <p>The findings of the inspection and the uncertainty about further deterioration which may be hidden from plain sight, has led to this recommendation to close the road above the structure, to safeguard highway users from potential failure of the structure.</p>
<p>Emergency Action (include timescale for undertaking action)</p>	<p>Closure should be instigated within 24 hours.</p> <p>A structural assessment based on the recent findings of the PI should be undertaken urgently in order to better understand the risks to the public. Consideration should be given to intrusive investigation of the hidden elements in order to ascertain their condition.</p>
<p>Additional comments (include a brief explanation as to why the particular emergency action was chosen)</p>	<p>Closure is recommended as no other means of supporting the structure, including propping, is deemed safe at this location as heavy river flows have been experienced following heavy rainfall.</p> <p>The washout of propping could cause sudden collapse of the bridge, which would have serious risk implications to the highway users and the local residents.</p>

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Proposal made by:

..... [Redacted] Digitally signed by [Redacted] RJ/Jacobs Team Leader
Date: 29/6/2023 Date: 2023.06.29 18:29:25 +01'00'

..... [Redacted] Digitally signed by [Redacted] Principal of Organisation
Date: Date: 2023.06.30 08:19:11 +01'00'

Recommended by:

..... [Redacted] Digitally signed by [Redacted] TA Reviewer
Date: Date: 2023.07.07 08:54:04 +01'00'

Appraised by:

[Redacted] Digitally signed by [Redacted] TAA and/or Overseeing Organisation
Date: 2023.07.07 12:44:37 +01'00'

Accepted by:

[Redacted] Digitally signed by [Redacted] Asset Manager
Date: Date: 2023.07.07 13:27:41 +01'00'

Emergency proposals to be implemented by:

..... [Redacted] Team Leader

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Date: 7/7/2023