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NEWS / Girders buckle during Edmonton bridge replacement



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17 March 2015

Several deep steel girders have buckled while being installed this week for a bridge replacement project in Edmonton, Canada.



The road beneath the bridge remains closed to traffic while the city and its contractor work to remove the damaged girders.



The project involves replacing a century-old bridge that carries 102 Avenue, a major east-west corridor into and out of Edmonton's downtown. The new bridge has a clear span of approximately 100m and will maintain the existing four-lane configuration as well as carrying cycle lanes and footpaths.

Closure of the original bridge took place in July last year and its replacement had been due to be completed this autumn.

Lifting & launching (1) |

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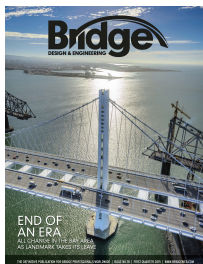
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30 March 2015

Work is under way to support and brace the steel girders that buckled during installation for a new bridge in Edmonton, Canada.

Four of the seven deep steel girders required for the replacement of the 102 Avenue Bridge [buckled while being installed earlier this month \(http://www.bridgeweb.com/MemberPages/article.aspx?id=3581\)](http://www.bridgeweb.com/MemberPages/article.aspx?id=3581).



The incident led to immediate closure of the road beneath, which carries some 42,000 vehicles every weekday. A three-week strategy has been developed by the city and its contractor to stabilise the girders so that the road below can be reopened pending a decision on what to do about the permanent structure of the bridge.

Transferring the girder weight onto support cranes has led to minor improvement in the overall girder alignment. The contractor continues to brace the existing girders and will soon install the seventh girder to help stabilise the overall structure.

Once the seventh girder is installed, the city and its contractors will begin evaluating the overall structural stability to determine whether the girders must be repaired or replaced.

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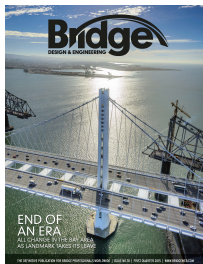
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