



NZ TRANSPORT AGENCY
WAKA KOTAHI

21 October 2008

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Dear Bevan

I refer to your email of 9 October 2008 to the reference "*Structural elements have been incorporated into the current strengthening works to future-proof for walking and cycling facilities on the box girders*". I presume this is from the letter written by Rick van Barneveld to the Hon Judith Tizard on 14 May 2008. You have asked for details of what these structural elements are.

The strengthening of the box girders requires additional deck cross girders and internal web stiffeners.

The cross girders fit up under the deck and go the full width of the box girders. As part of the design these girders were increased in size to allow for the torsional effect of the additional cycleway/walkway.

The internal web stiffeners are plates of steel welded at right angles to the sides of the box girder to stiffen the sides. Again these were increased in size to allow for the torsional effects mentioned above.

This work was done as a prudent measure as it would have been very difficult to carry this out at a later date, should the cycleway/walkway be added.

Yours sincerely

Roly Frost
General Manager Network Operations