

Christchurch Northern Corridor Waimakariri Bridge - SH1

PROJECT UPDATE

6 MAY 2019



POURING CONCRETE - CONTRAFLOW TRAFFIC MANAGEMENT WEEKEND

The Christchurch Northern Corridor (CNC) Alliance has so far lifted 11 bridge spans (two beams in each span) in place; eight next to the northbound bridge and three next to the southbound bridge. Now we will pour concrete to construct the new bridge decks, work that must happen during a quiet weekend. A contraflow traffic control will be in place from Friday 10 May 6pm till Monday 13 May 5.30am.

The widening of the bridge is taking place on the inside of the existing bridges. We will need four pours to construct the new bridge deck, which is connected into the existing bridge deck with steel reinforcement in the 11,000 holes drilled.

To allow the concrete trucks and pumps to park next to the new bridge deck we have to close the bridge. This will ensure there is no vibration from the traffic while the concrete cures.

Traffic Impact

On the weekend from 10 to 13 May we will close the northbound bridge, and use contraflow traffic control to divert all traffic onto the other southbound bridge that is not being worked on. We have sealed the space between the carriageways before the bridges to allow traffic to cross from one side to the other.

Contraflow traffic management is in place from Friday evening 10 May. Please merge like a zip before the bridge to enter and exit the southbound bridge lane.

During the contraflow there will be a 60 km/h speed limit in place on the bridge. Heavy rain on the day will cancel this pour to be rescheduled for another weekend.

As soon as the concrete meets the required strength we can reopen the bridge. We may be able to remove the contraflow traffic management earlier than Monday 13 May 5.30am.



REDUCED
COMMUTER
TRAVEL TIME



REDUCED
CONGESTION



IMPROVE
SAFETY



IMPROVE
WALKING
AND CYCLING



SUPPORT
ECONOMIC
GROWTH



A temporary sealed section of road at the southern and northern end of the bridges accommodates the contraflow. An animated video on our website: www.nzta.govt.nz/cnc shows how the Waimakariri Bridge contraflow will work.

WHAT ARE WE DOING

We have been working in between the 17 bridge piers on small suspended scaffold platforms underneath the bridges. They have drilled more than 11 thousand holes in the existing bridge decks to install the steel reinforcing bars that will connect the new sections.

We have lifted 23 steel carriers into place on the headstocks of the piers to strengthen the existing piers. The beams are placed on these new steel carriers.

We have lifted 11 spans of the 34 in place. Now it is time to pour the concrete to construct the new bridge deck.

Four tonnes of reinforcement is installed in each bridge bay: eight bays per pour is 32t of reinforcement.

Each pour is about 200m³ of concrete. A specific concrete mix will be used to strengthen the concrete quickly so we can open the bridge as soon as possible.

Lastly we will join the new and existing parts of the deck together, this work takes place on the bridge. Steel bars will lock the existing sections of the bridge to the new section.

The work on the bridge can be distracting. Please drive safely and keep your eyes on the road when you are driving.

For more information go to our website:

www.nzta.govt.nz/cnc



Lifting the bridge spans at night.



You can call us on 0800 262 200, email us at info@cncalliance.co.nz or visit our website at www.nzta.govt.nz/cnc or our office at 145 Winters Road in Mairehau.