

KAY ROAD BRIDGE

WHERE IS THE BRIDGE LOCATED?

The Kay Road Bridge is located on Kay Road near the intersection with Horsham Downs Road. This section of the road sits on the boundary of Hamilton City and Waikato District.

WHEN ARE WE BUILDING IT?

The 20 metre deep excavation for the Kay Road Bridge began in late 2016. Excavators will dig out 144,000 cubic metres of dirt. The bridge is expected to be open for public use in June 2018.

HOW ARE WE BUILDING IT?

The bridge is built from the ground up. Steel pile casings are driven 20 metres into the

earth by dropping a weight suspended from a crane. Ground improvements then take place on both embankments. This involves drilling a series of concrete filled holes in a grid formation that improves earthquake resistance. Concrete bridge abutments are built to support the weight of the bridge at each end. The team then builds 15 metre high columns and 110 tonne crosshead beams that support the 88 metre long bridge deck. The illustration below shows the concrete crosshead beams on top of the columns, supporting the bridge.

HOW WILL CONSTRUCTION AFFECT YOU?

This section of Kay Road is temporarily closed from October 2016 until completion.

Because Kay Road is located on a steep ridge, there was no opportunity to build a temporary road diversion around the bridge site. Bridge piling will generate some noise and vibration for nearby residents.

WHAT IS SPECIAL ABOUT THIS BRIDGE?

The Kay Road Bridge is the tallest bridge along the expressway at 18.8 metres high. We will be manufacturing 110 tonne crossheads on the ground and lifting them into place on top of each of the 15 metre high columns to support the bridge deck. These crossheads will support a series of 29 metre long Super T beams which form the base to support the bridge deck.



View of Kay Road Bridge from the main alignment looking north

If you have concerns about noise levels, vibration or dust please contact us immediately.



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Email us at info@cityedgealliance.co.nz



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