

Wanneroo Road and Joondalup Drive Interchange

Construction Update

Bridge installation starts to ramp up

Within the next four weeks, the bridge piers will be installed, ramps will be back-filled and the last section of Joondalup Drive will be built. We will then move our focus to installing the 16 bridge beams.

Pier construction

Works have started on the pier installation, with the moulds in place for the first set of piers. Once the steel reinforcement is ready, concrete will be poured into the moulds.

The pour will take approximately one day for each set, and approximately four days for the concrete to cure. In total, the works for each set of piers will take about one week. The moulds will then be moved to the next set of piers and the process is repeated for all three sets.

By mid-October, the top half of the piers which are being fabricated off site, will be brought to site and installed, completing the pier. This will happen during night shift, which will include lane closures and short-term road closures. The piers will be 7m high and 4.5m wide.



Ramp back-fill

At the same time the piers are being installed, the ramps will be back-filled with more than 50,000 tonnes of select fill. These works will take approximately four weeks of continuous truck deliveries – more than 2,000 truck loads. The ramps will be filled and compacted in 35cm layers.

While the ramps are back-filled, steel straps are bolted to the back of panels with the weight of the fill holding the straps in place, retaining the walls of the ramp.



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Works to the west of Joondalup Drive

Since the project started last year, Western Power have been undertaking works on the north side of Joondalup Drive between Burns Beach Road roundabout and the Wanneroo Road and Joondalup Drive intersection. Their works in this area are nearly complete and construction of this section of the road will begin by the end of September.

The road should be complete by the end of October, and then during a night shift, traffic will switch to the new road. There will be lane closures to enable the switch, but the road will remain open for traffic.



Completing ramp panel installation

Once the traffic has moved onto the new road along Joondalup Drive, the remaining Mechanically Stabilised Earth (MSE) panels will be installed on the north side of the ramp. The back-fill on the ramp will then be completed.

Other works

- Sixteen bridge beams will be brought to site on weekends starting in October and stored until they are ready to be installed.
- Between the end of September and 31 October, we will be boring Water Corporation's recharge pipes near the south west corner of the intersection, under Drivers Place and Joondalup Drive, and into the bush on the north west corner. This activity will have no impact of traffic movements and the local community.

Out of hours work

Some out of hours works will be required to complete works safely with minimal disruption to road users. Out of hours works may be undertaken during the following times:

- 8am to 5pm – Monday 30 September (water pipe boring works)
- 8am to 5pm - Sundays 29 September, 6, 13, 20 and 27 October, 3 and 10 November (bridge beam delivery and water pipe boring works)
- 7pm to 7am – Tuesday 1 October 2019 to Saturday 16 November 2019 (up to 10 nights for construction works and water pipe boring works)

For more information:

For more information visit our Travel Map at <https://travelmap.mainroads.wa.gov.au/Home/Map> and project page at <https://project.mainroads.wa.gov.au/home/> or email us at enquiries@mainroads.wa.gov.au or call 138 138.



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