



# Innovation for Controlling Critical Risks



## Pigtail Bridge Drop’N’Go innovation

The Drop’N’Go system is an innovative design and construction method that oversees the creation of a modular bridge reducing safety risks, night works and costs.

Unlike traditional bridge design and construction methods, the Drop’N’Go system is undertaken in a factory before being assembled on site. After all elements of the bridge are assembled, each completed section is lifted into place, as the ‘Drop’N’Go name suggests. Once the bridge is pieced together it will be largely complete and fully enclosed, alleviating the risk of people, materials or machinery falling from heights into rail or traffic.

This innovative program was initially developed for City West Link’s Pigtail Bridge, an elevated Shared User Path that links Annandale to the Rozelle Parklands near the M5 Cut and Cover entrance. The Pigtail Bridge is a 270 meter-long, three-span steel box girder that includes a concrete spiral ramp.

The assembly of this complex structure required a detailed and innovative construction plan to

navigate the critical risks associated with its proximity to a Sydney Light Rail trainline and City West Link traffic arterial, both of which are operating.

The benefits of the Drop’N’Go innovation include the reduction of night works, minimisation of safety risks, cost savings and fewer disruptions to the community including less noise, lighting and traffic disturbances. The method also minimises the need for working from heights and avoids setting up cranes on the railway and roadways.

Creating a modular bridge allows for the design to be reviewed in detail prior to installation, therefore enabling more accurate assessments of tolerances and quality of finish.

As Drop’N’Go innovation is of great benefit to all stakeholders, the Rozelle interchange continue to look for opportunities to implement this construction technique.

