

Cross Bay Link – Approach Concrete Viaducts

CLIENT: China Road and Bridge Corporation

LOCATION: Hong Kong

YEAR OF COMPLETION: Anticipated 2022

Cross Bay Link is a 1.8km long new highway corridor across the Junk Bay in Hong Kong, which will provide the much-needed improvement for the connectivity in the TKO area. It comprises a series of 75m long approach concrete viaducts, that are supported on specially-sculptured concrete V-piers.

We are appointed by the Main Contractor as their Designer to provide both the design and erection engineering services on this project.

We undertook the detailed design for 10No. iconic V-piers which support the main bridge as well as the approach viaducts. Our design adopts an innovative precasting solution which enables majority of the works to be completed off-site. The heaviest precast V-pier element weights over 1500T.

We have adopted similar precast solutions to simplify the erection of other major concrete elements such as the large-size precast wing walls.

KEY FACTS

- Permanent works design for RC piers
- Erection engineering for large-size precast elements.
- Major temporary works design.

