



KEY PROJECTS

CONTRACT CR202 – BORED TUNNEL BETWEEN FAIRWAYS DRIVE AND SIN MING WALK AND ASSOCIATED WORKS

Date won/completed: 2023 – ongoing

Client: Obayashi – Shanghai Tunnel Engineering Co. Joint Venture

Developer: Land Transport Authority (LTA) - Singapore

Role: Tender Design Lead / Design & Value Engineering Consultant

PROJECT BACKGROUND

Contract CR202 involves the design and construction of a 5km large-diameter tunnel between Fairways Drive and Sin Ming Walk. STEC undertakes the project in a joint venture with Obayashi Corporation. Two kilometres of the tunnel will under-cross the Central Catchment Nature Reserve. The bored tunnel will also cross underneath Eng Neo Avenue Forest, Windsor Nature Park, Peirce Secondary School, Pan Island Expressway (PIE), and Upper Thomson Road.

The tunnel - containing two mainline tracks - will be constructed with a large TBM, which measures approximately 12m in diameter. The contract also comprises a TBM launch shaft, transition tunnels to Future Underground Infrastructure, a Facility Building, and a Temporary Staging Area.

Er. Pham was the Tender design lead which assisted the Client with the winning bid. Strader Consult is appointed as the Design Engineering Consultant / QP for construction and tunnelling enabling works, including all site utilization and logistics.

THE OUTCOMES FOR THE CLIENT

Timely delivery of buildable, space-saving and economical design

Review existing design scheme and propose alternative value-engineering scheme.