



#### KEY PROJECTS

### DEMOLITION OF COMBINED SERVICED TUNNEL

Duration: 2020 – 2022

**Client:** Hong Aik Engineering Pte. Ltd.

**Developer:** URA/ Marina Bay Sands

**Role:** QP (Geotechnical) for Design & Supervision

#### PROJECT BACKGROUND

To facilitate the future development of the Integrated Resort Phase 2 at Marina Bay area, URA and Marina Bay Sands commissioned the demolition of one part of the existing Combined Service Tunnel (CST) which is located 22m below ground level. The site is within the reclaimed land area with various obstructions encountered, such as boulders from abandoned seawall, left-over sheet piles and other maritime buried objects.

The demolition works are within close proximity to the existing Downtown Line and required stringent control of retaining wall and soil movement.

were done within an earth retaining & stabilization system comprising of soldier / sheet piles and steel strutting.

#### THE OUTCOMES FOR THE CLIENT

The excavation was completed successfully with the retaining system performs as per prediction

The demolition works for CST was completed successfully with without affecting the existing tunnels and services.