Design Loading and Constraints on Future Development above the Underpass

Promenade – Location Plan



Promenade Kai Tak Approach Channel Promenade Walkway Greenway Future Footbridge Floating Stage **Elevated Landscaped** Deck FB03 --(-)*,* Saltwater and Sewage Pumping Opening of **Depressed Road** Multi-Purpose Temporary Stations **Underpass D3** Office & Activity Lawn Toilet Future Metro Park



Extent of Underpass Structure

Underpass D3 – Section A – A



..... Extent of Underpass Structure

Underpass D3 – Section B – B



Extent of Underpass Structure

Loading Assumptions for Underpass D3

Assumptions made for estimation of the design loadings above the underpass (excluding the loading of top soil):

- 1. EVA Load: 20kPa
- 2. Single Storey Container Structure: 20kPa
 - a. Foundation Load: 10kPa
 - Dead Load and Finishing of Structure: **5kPa** (the loading of the Container Structure)
 - c. Live Load: **5kPa** (ref. to BD's COP for Dead and Imposed Loads 2011 of the use of floors where people may congregate)



* Subject to design, a double-storey container structure shall not encroach on the EVA or a minimum of 4.5m vertical clearance shall be allowed by elevating a single storey structure above ground. Thank you