

MTR港鐵

Kwun Tong Line Extension Contract No. 1001 Yau Ma Tei to Whampoa Tunnels and Ho Man Tin Station

Project Presentation 6 April 2013

The KTE will extend the full Kwun Tong Line (KTL) service from YMT to WHA via HOM, adding approximately 2.6km underground route length to KTL.

CONFORM

PLAN - 1

PLAN-2

- and Build Project Nishimatsu Construction Co. Ltd.
 - Main Contractor:

KTE 1001: Design

- **Designer: Jacobs** China Ltd. & W.S. Atkins
- ICE: AECOM
- Project Duration: June 2011 to May 2015











Project

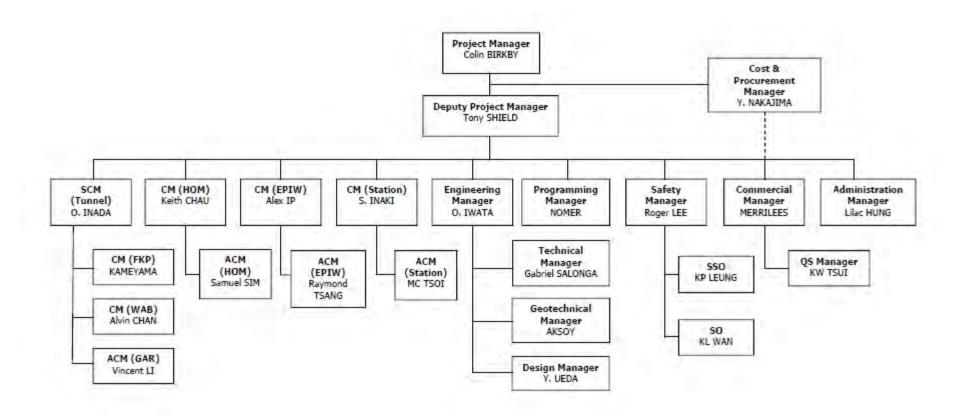
- HOM Interchange Station including both KTE & SCL
- Running tunnels between YMT and WHA including conversion of the existing YMT overrun tunnels, refuge sidings and cable tunnels into the KTE running tunnels
- Modifications to existing YMT, existing cable tunnel and GAR including provisions for cable diversions from YMT and HOM
- WAB comprising emergency access and egress provision and future ventilation provisions
- Upgrading and new formed slope works
- Tree felling, off site tree compensation, transplanting works and landscape works
- Provisions for designated and interfacing contracts

- Backfill and demolition of the Air Raid Precaution Tunnels for construction of HOM
- Essential Public Infrastructural Works
- A temporary explosive magazine at TKO
- A barging facility at HUH Finger Terminal
- Demolition of existing Kerosene Store and Refuse Collection Point at Chung Hau Street, existing driving test centre at Chung Yee Street, existing LCSD sheds at Wuhu Street, Temporary Playground at Ho Man Tin East Services Reservoir Playground
- Reinstatement and re-provision of affected LCSD and Government playgrounds, gardens, open spaces, etc.
- Enabling works for property development at HOM





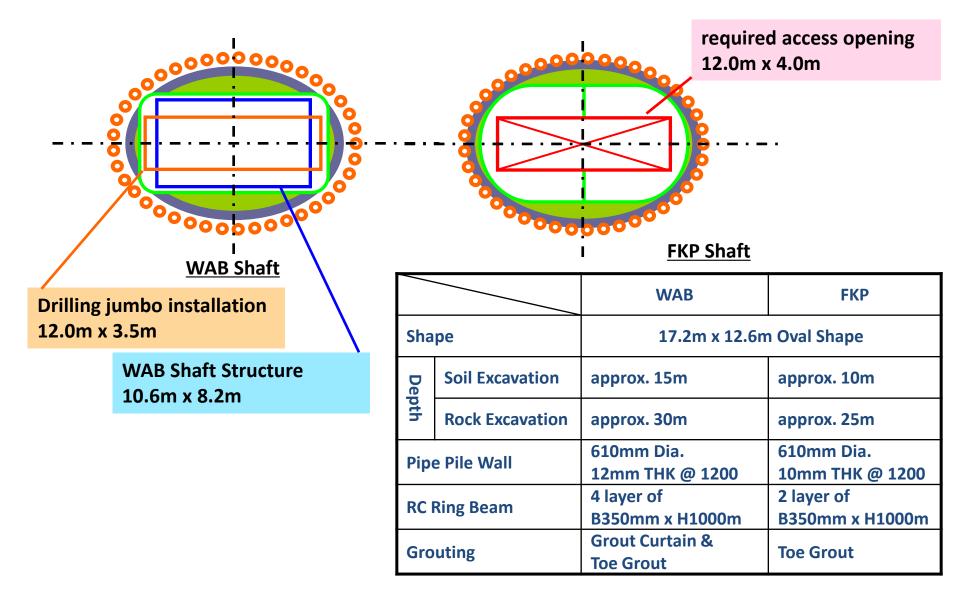
Project Organization





Shaft Excavation

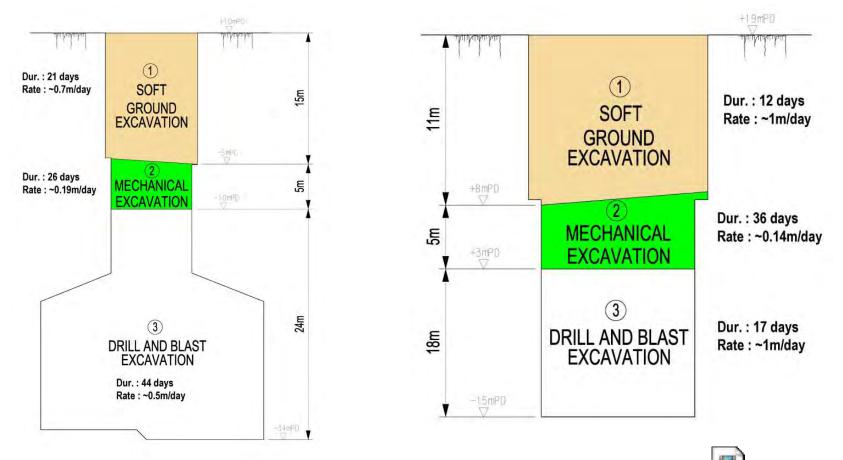






Shaft Excavation





<u>Methods</u>

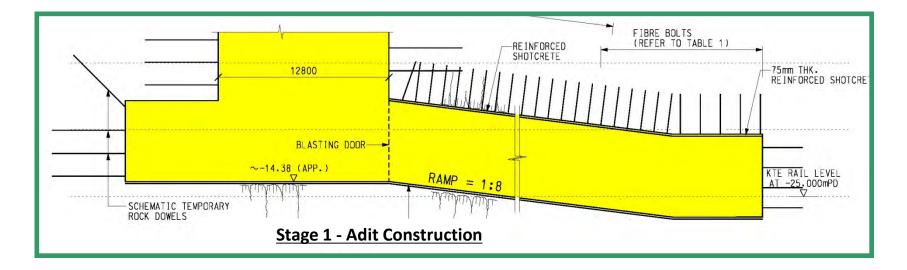
- Soft Ground Excavation to Rockhead
- Mechanical Excavation for 5m Non-Blasting Zone
- Drill-and-Blast method for remaining rock excavation

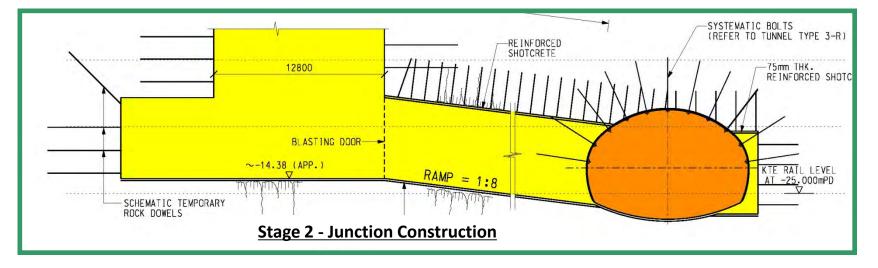
FKP 4th Blast 20120706.wmv



Shaft Excavation



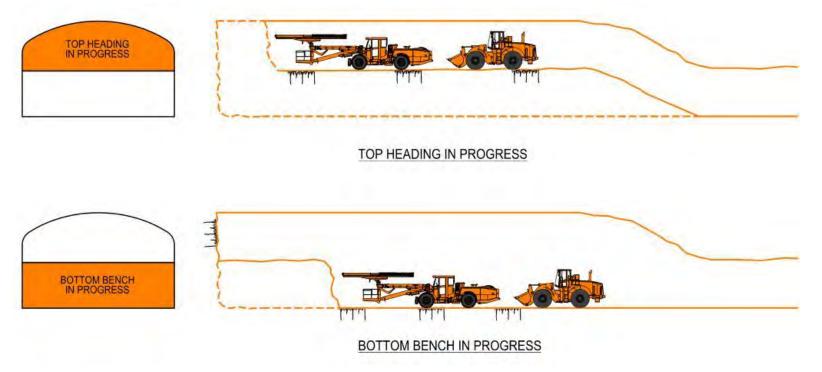






Tunneling Excavation





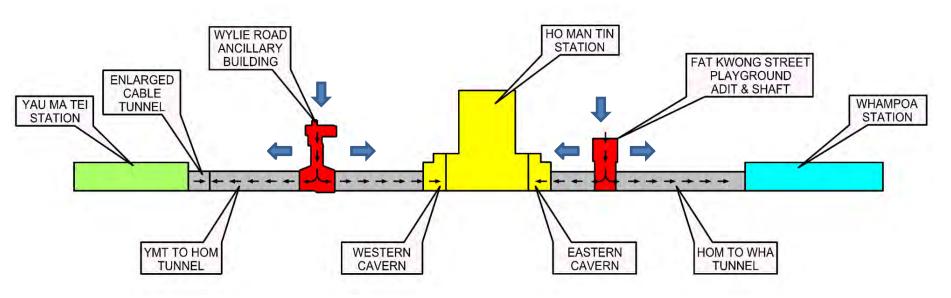
Tunnel Excavation

- 1. Drill-and-Blast method to be applied along whole length of tunnels.
- 2. Full Face method For Single Track Tunnel
- 3. Benching method For Bifurcation & Caverns
- 4. Mini Bench method For Twin Track Tunnel



Excavation Sequence





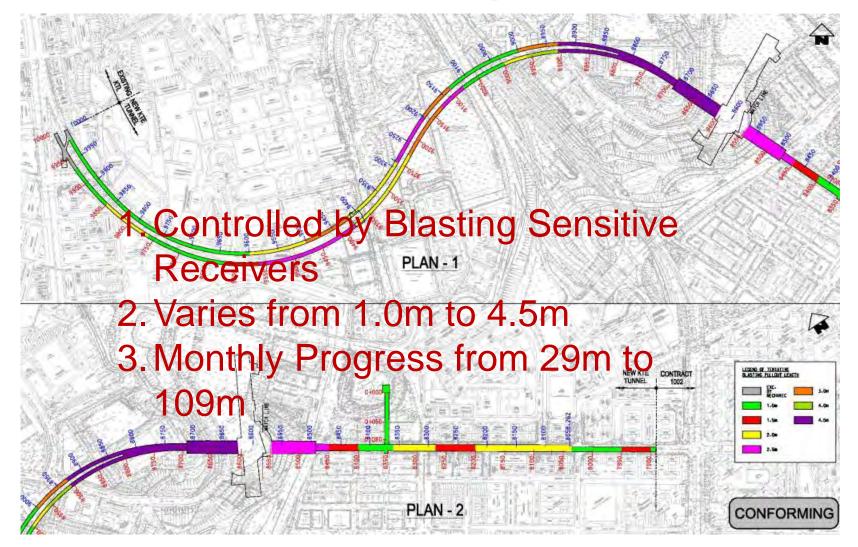
YMT to HOM Tunnels

- From WAB Shaft towards YMT end and Western Cavern <u>HOM to HWA Tunnels</u>
- From FKP Shaft towards Eastern Cavern and WHA end





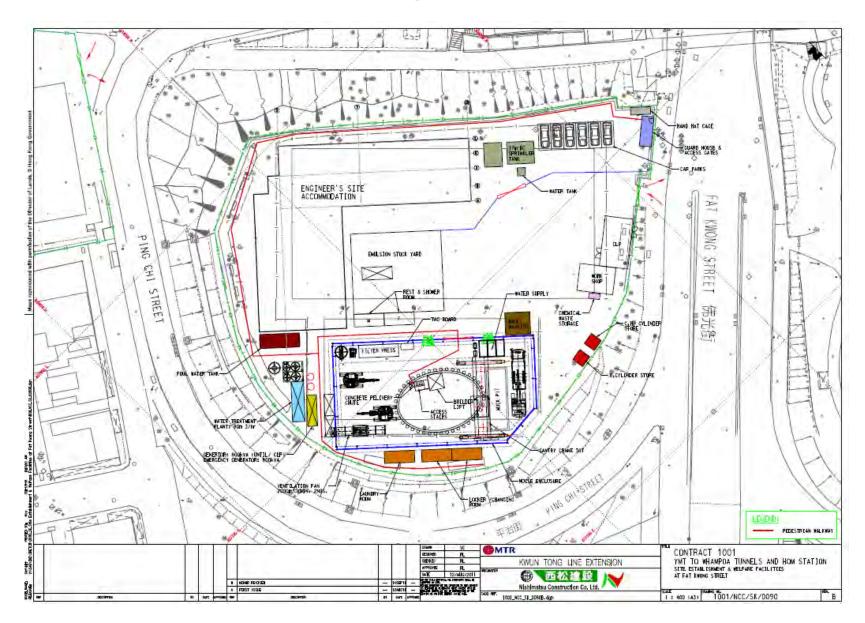
Pullout Length







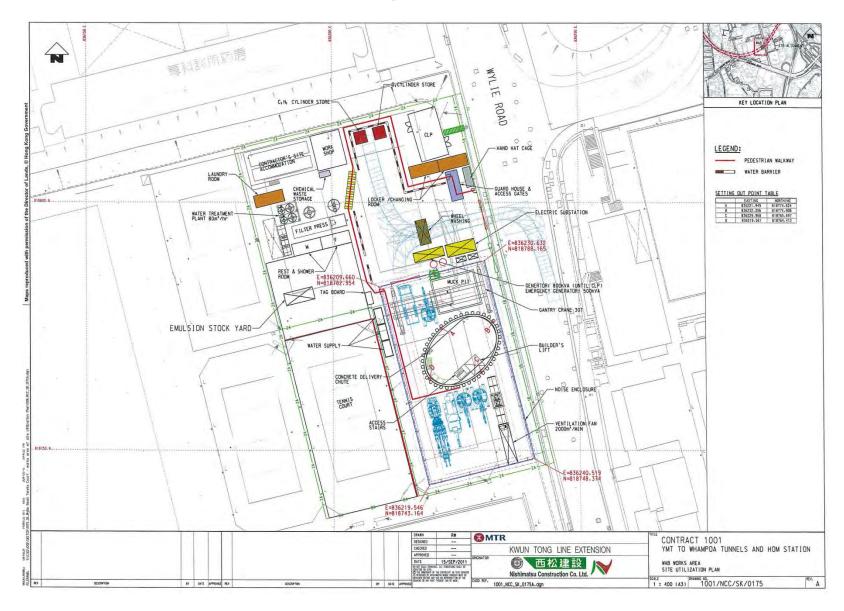
Site Layout at FKP







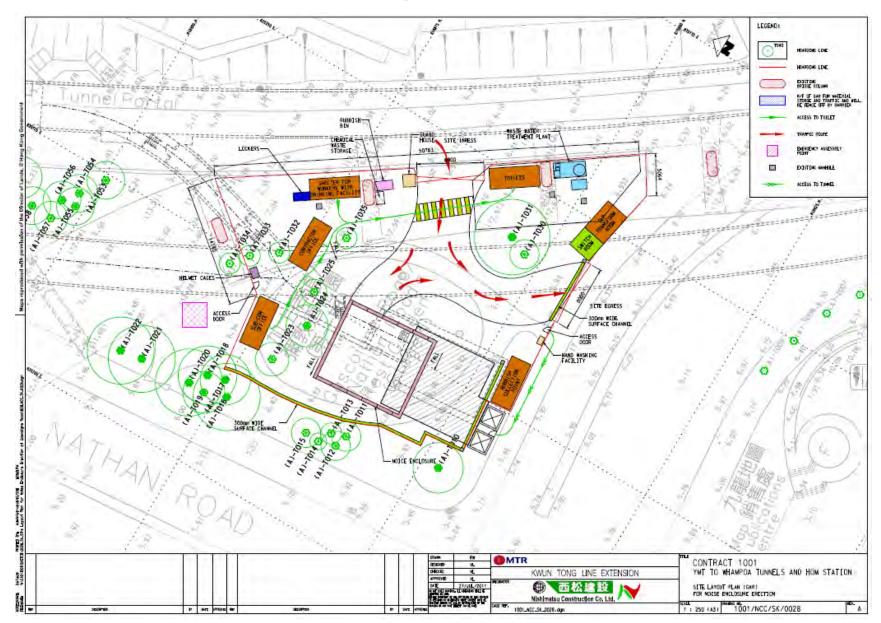
Site Layout at WAB







Site Layout at GAR











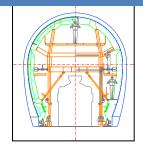
Lining & Civil Works







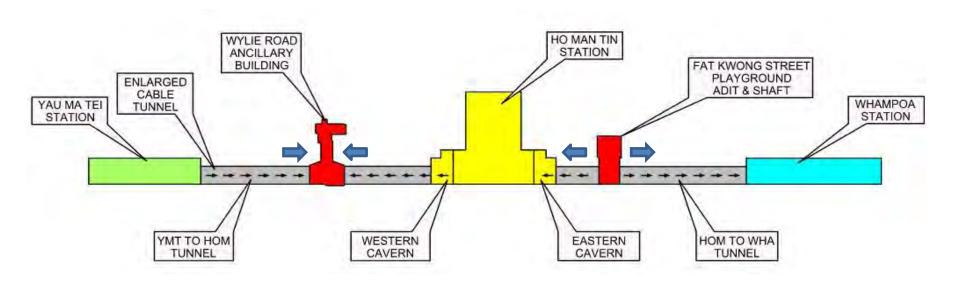
Single Track Tunnels







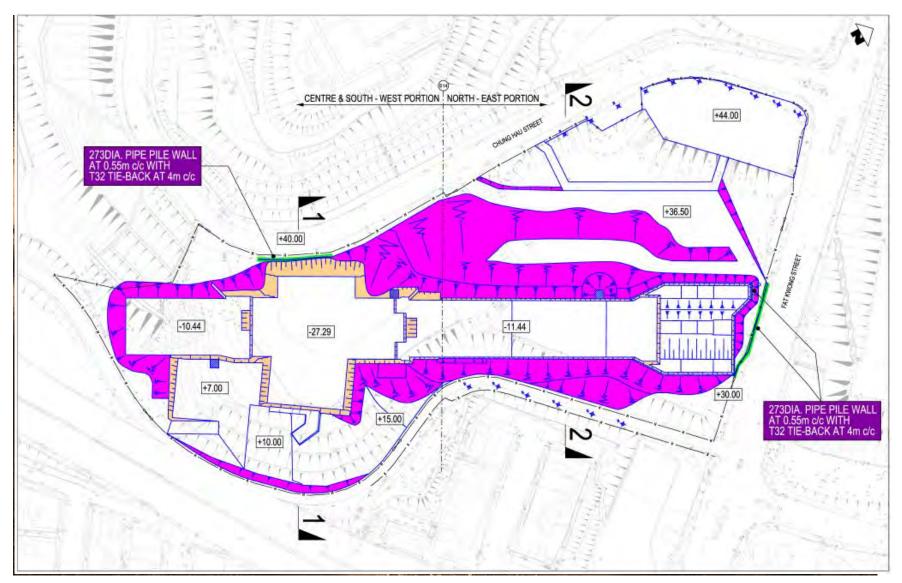
Casting Directions







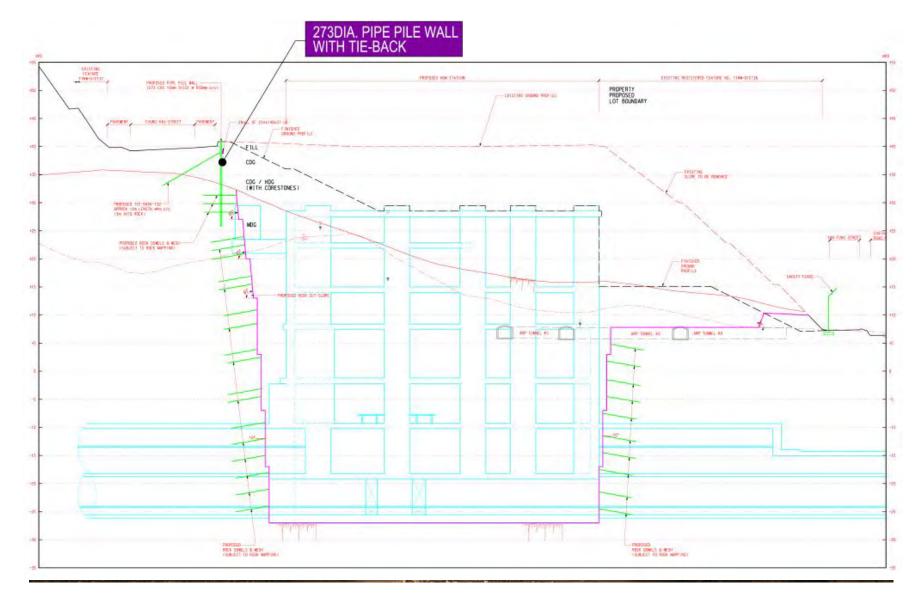
Site Formation at HOM







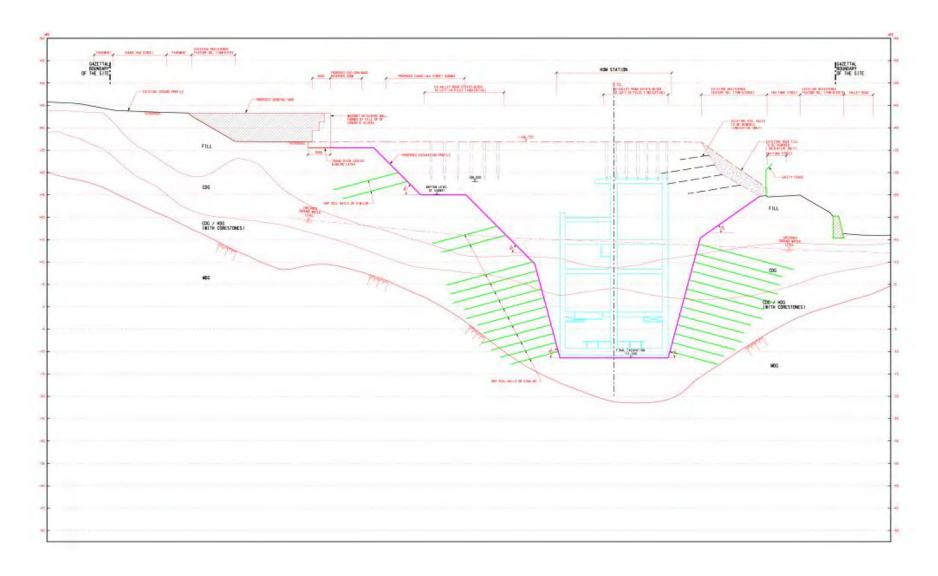
Sectional View of HOM







Sectional View of HOM







Surface Blasting at HOM





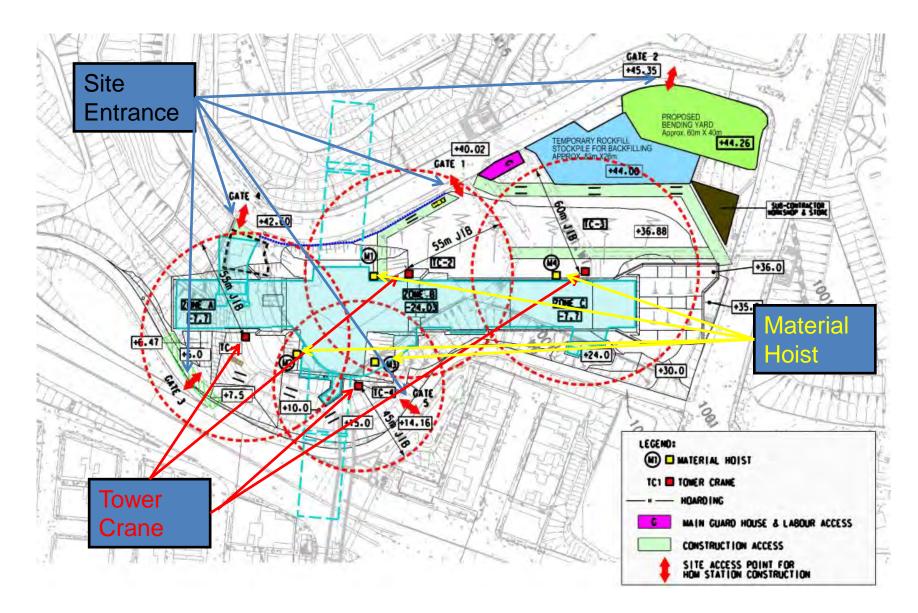








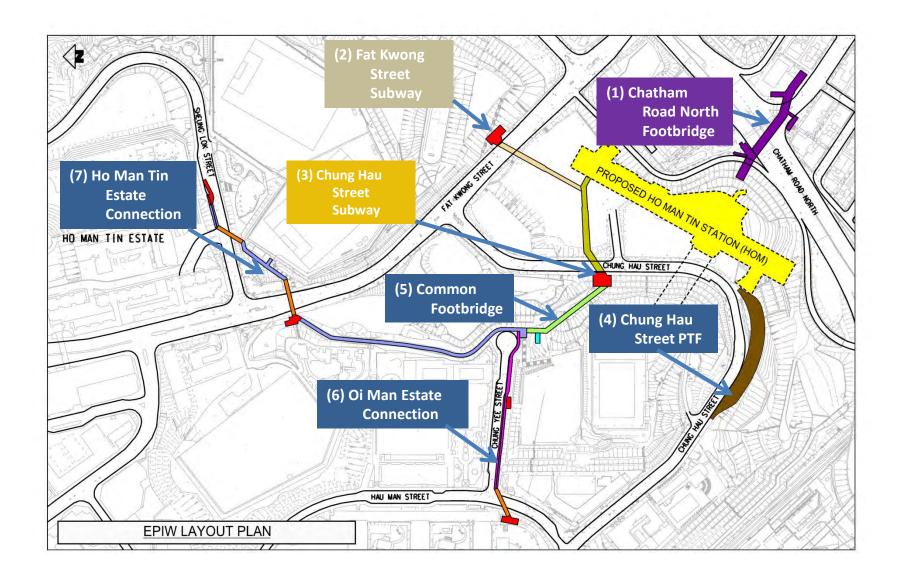
Station Construction







EPIW Layout Plan







EPIW Worksites









Project Safety Management System

DOCUMENTATION HIERACHY

