


MTR Corporation Limited

Tung Chung Line Extension

Construction Works Phasing Schedule

(Condition 2.10 of EP-614/2022)

Certified by: _____ Edan Li  _____

Position: _____ Environmental Team Leader _____

Date: _____ 14 April 2023 _____

MTR Corporation Limited

Tung Chung Line Extension

Construction Works Phasing Schedule

(Condition 2.10 of EP-614/2022)

Verified by: James Choi *James*

Position: Independent Environmental Checker

Date: 14 April 2023

MTR Corporation Limited

**Tung Chung Line Extension
Environmental Permit (EP) No. EP-614/2022
Construction Works Phasing Schedule**

April 2023

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1 INTRODUCTION

1.1 Project Background

1.1.1 The Railway Development Strategy 2014 (RDS-2014) announced by the Government of the Hong Kong Special Administrative Region included the conceptual scheme of Tung Chung West (TCW) Extension and a possible Tung Chung East (TCE) Station.

1.1.2 The EIA Report for Tung Chung Line Extension (the Project) (AEIAR-235/2022) was approved on 12 July 2022. The Environmental Permit (EP) (No. EP-614/2022) was then issued on 9 August 2022.

1.2 Purpose of this Schedule

1.2.1 According to Clause 2.10 of the EP, the Permit Holder shall, no later than 1 month before the commencement of construction of the Project, deposit 3 hard copies and 1 electronic copy of a Construction Works Phasing Schedule (the Schedule) with the Director of Environmental Protection (DEP).

1.2.2 As stipulated in Clause 2.10 of the EP, this Schedule include the following information:

- a detailed works programme showing the planned timing for the commencement and completion of the major construction works including the phased implementation programme for the realignment of the existing TCL; and the number of Works Contract(s) involved under the Project; and
- location plan(s) in appropriate scale delineating the works boundary and works areas of each Works Contract of the Project.

2 OVERALL PROGRAMME AND WORKS CONTRACTS

2.1 Project Elements

2.1.1 The key elements of the Project are listed below and shown in **Appendix 1**:

- A new TCE Station (at-grade) and diversion of a section of existing Tung Chung Line (TCL);
- Railway alignment (in the form of a tunnel) extending from existing overrun of Tung Chung Station (TUC) to the new TCW Station;
- A new TCW Station (underground) and overrun tunnel;
- Emergency Access Point (EAP)/ Emergency Egress Point (EEP) building; and
- Station associated facilities (entrances, vent shaft structures, etc.).

2.1.2 The temporary works sites, works areas and barging facility for the Project are also shown in **Appendix 1**.

2.2 Overall Programme

2.2.1 The major construction of the Project will be commenced in May 2023 and completed in 2029 tentatively.

2.3 Works Contracts

2.3.1 The major works of the Project will be conducted under two civil works contracts as listed in **Table 2.1**. Locations of the two works contracts are indicated in **Appendix 1**.

Table 2.1 Works Contracts

Contract No.	Contract Title
1201	Tung Chung West Station and Tunnels
1202	Tung Chung East Station and Associated Enabling Works for Track Diversions

2.3.2 The details of these two works contracts are provided in **Section 3** and **Section 4**.

3 CONTRACT 1201 – TUNG CHUNG WEST STATION AND TUNNELS

3.1 Works Activities and Programme under Contract 1201

3.1.1 Major works under Contract 1201 includes:

- Extending the existing TCL from the existing overrun tunnel of TUC to the new TCW Station (in the form of a tunnel);
- Construction of a new TCW Station (underground) and overrun tunnel;
- Construction of the EAP/ EEP building; and
- Construction of station associated facilities (entrances, vent shaft structures, etc.).

3.1.2 The works activities involve site clearance / formation, foundation and excavation works, D-wall construction, Tunnel Boring Machine (TBM) operation, superstructure, barging facility, site reinstatement etc., and the associated Architectural Builder's Work and Finishes (ABWF), Building Service (BS), Electrical and Mechanical (E&M) works. Tentative works programme under Contract 1201 is given in **Appendix 2**.

3.2 Works Site and Works Area under Contract 1201

3.2.1 There are three major works sites/ works areas under Contract 1201, including TCW, Launching/ Retrieval Shaft and EAP/ EEP, and Barging Facility. Works sites and works areas under Contract 1201 are shown in **Appendix 1**.

4 CONTRACT 1202 – TUNG CHUNG EAST STATION AND ASSOCIATED ENABLING WORKS FOR TRACK DIVERSIONS

4.1 Works Activities and Programme under Contract 1202

4.1.1 Major works under Contract 1202 includes:

- Construction of a new TCE Station (at-grade);
- Diversion of a section of existing TCL; and
- Construction of station associated facilities (entrances etc.).

4.1.2 The works activities involve site clearance / formation, retaining wall construction, foundation, removal and reprovision of noise barrier, above ground structure, removal of existing tracks, site reinstatement etc., and the associated ABWF, BS, E&M works. Tentative works programme under Contract 1202 is given in **Appendix 3**.

4.2 Phased Implementation Programme for the Realignment of the Existing TCL

4.2.1 In order to cater for the latest location of the TCE Station, a section of about 1.5km ballast track would need to be diverted. However, as the existing TCL would need to be operational throughout the entire construction period, the diversion of the new ballast track would need to be timely implemented to ensure all the operational and safety requirements are not compromised. About 80m of the existing noise barrier fronting Ying Tung Estate would be removed for the realignment of TCL tracks. According to the latest design, the installation of the new ballast track would be implemented in phases as summarised below in **Table 4.1**. The following table summarizes the 4 implementation phases and illustrated in **Appendix 4** as extracted from Appendix 2.1 of EIA Report.

Table 4.1 Implementation Phases of At-grade Tracks

Implementation Scenarios	Period	Descriptions
Scenario A	2023 – 2027	<ul style="list-style-type: none"> • Existing alignment of both TCL up track and down track • Addition of 2 turnouts at TCL down track • Removal of about 80m of existing noise barriers along TCL down track
Scenario B	2027 – 2029	<ul style="list-style-type: none"> • Realign TCL down track • Complete construction of TCE Station • Addition of 2 turnouts at TCL up track
Scenario C	2029 – 2030	<ul style="list-style-type: none"> • Realign TCL up track • Commencement of TCE Station for public service
Scenario D	2030 – Ultimate	<ul style="list-style-type: none"> • Removal of all turnouts at both TCL down track and up track

4.2.2 Typical construction sequence of implementation at-grade track is given below:

- Site clearance;
- Construction of mini-piles and retaining wall;

- Site formation;
- Removal of existing noise barriers;
- Existing TCL track modification;
- Installation of turnouts;
- Provision of noise barriers;
- Realignment of TCL down track;
- Site formation;
- Realignment of TCL up track;
- Site reinstatement; and
- Removal of abandoned TCL tracks.

4.3 Works Site and Works Area under Contract 1202

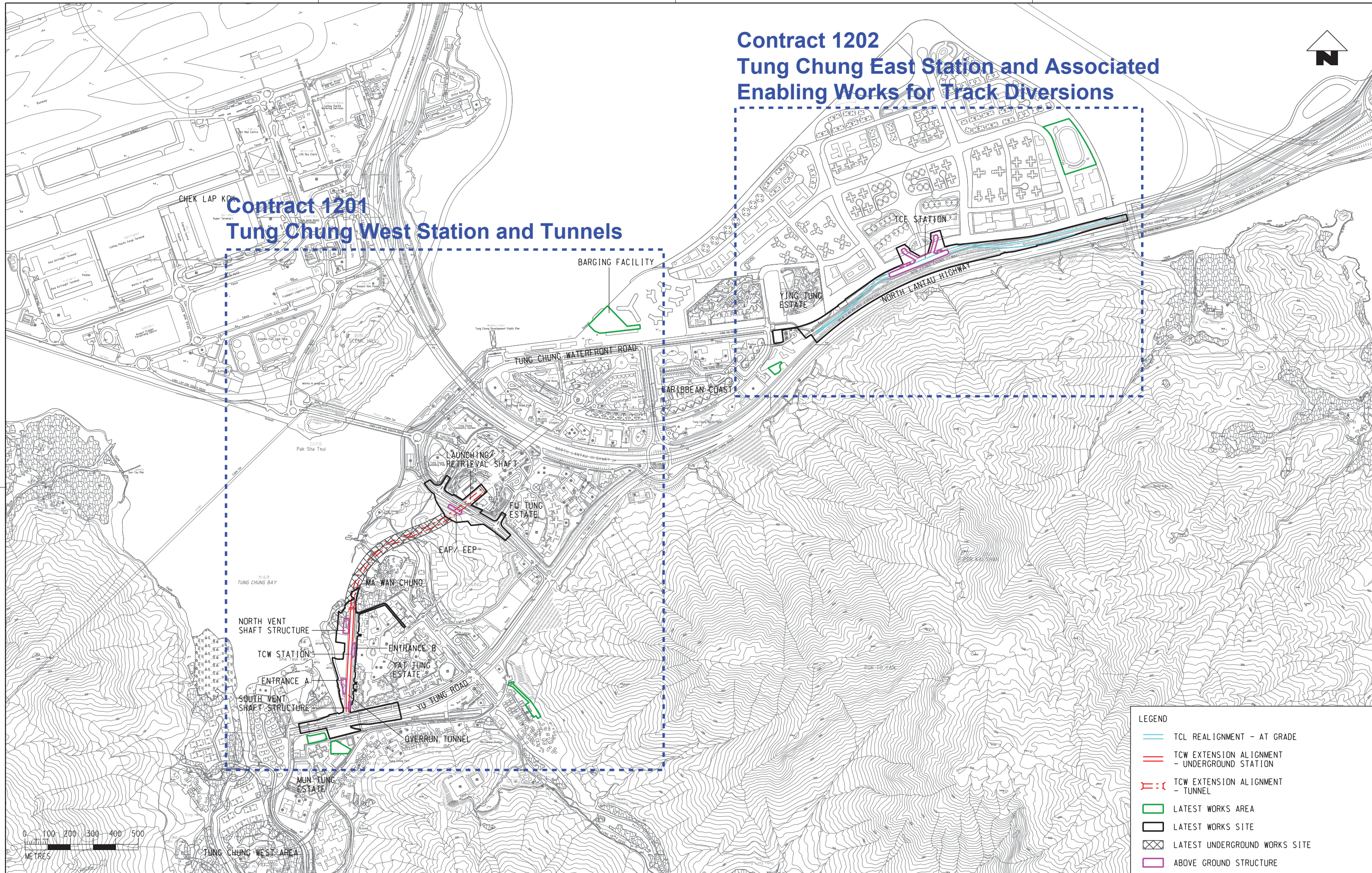
- 4.3.1 The major works site cover the length of TCL which will be realigned and the south of the future Tung Chung New Town Extension (East) (TCNTE (East)) new reclamation area. Works sites and works areas under Contract 1202 are shown in **Appendix 1**.

Appendix 1

The Project and Location of Works Contracts

Contract 1202 Tung Chung East Station and Associated Enabling Works for Track Diversions

Contract 1201 Tung Chung West Station and Tunnels



LEGEND

- TCL REALIGNMENT - AT GRADE
- TCW EXTENSION ALIGNMENT - UNDERGROUND STATION
- TCW EXTENSION ALIGNMENT - TUNNEL
- LATEST WORKS AREA
- LATEST WORKS SITE
- LATEST UNDERGROUND WORKS SITE
- ABOVE GROUND STRUCTURE

				DRAWN						TITLE Tung Chung Line Extension		TITLE THE PROJECT AND LOCATION OF WORKS CONTRACTS	
				DESIGNED									
				CHECKED									
				APPROVED									
				DATE									
				DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE. © MTR CORPORATION LIMITED 2008. COPYRIGHT IN RESPECT OF THIS DRAWING / DOCUMENT IS OWNED BY THE MTR CORPORATION LIMITED OF HONG KONG. NO REPRODUCTION OF THE DRAWING / DOCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTED WITHOUT THE PRIOR WRITTEN CONSENT OF THE MTR CORPORATION LIMITED.				ORIGINATOR		SCALE		DRAWING NO.	
REV				DESCRIPTION				CADD REF.		AS SHOWN		APPENDIX 1	
BY				DATE				BY		DATE		REV.	

Appendix 2

Tentative Works Programme of Contract 1201

Appendix 3

Tentative Works Programme of Contract 1202

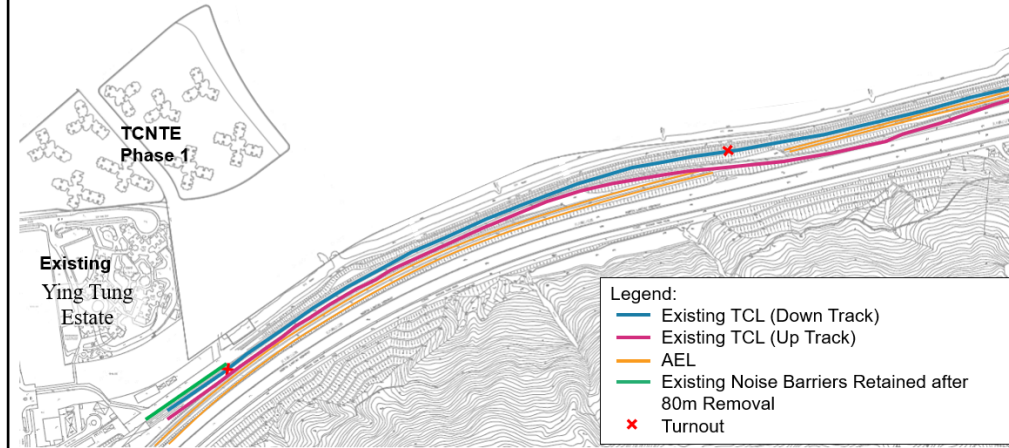
Appendix 4

Implementation Phases of At-grade Tracks under Contract 1202

Scenario A

2023 – 2027

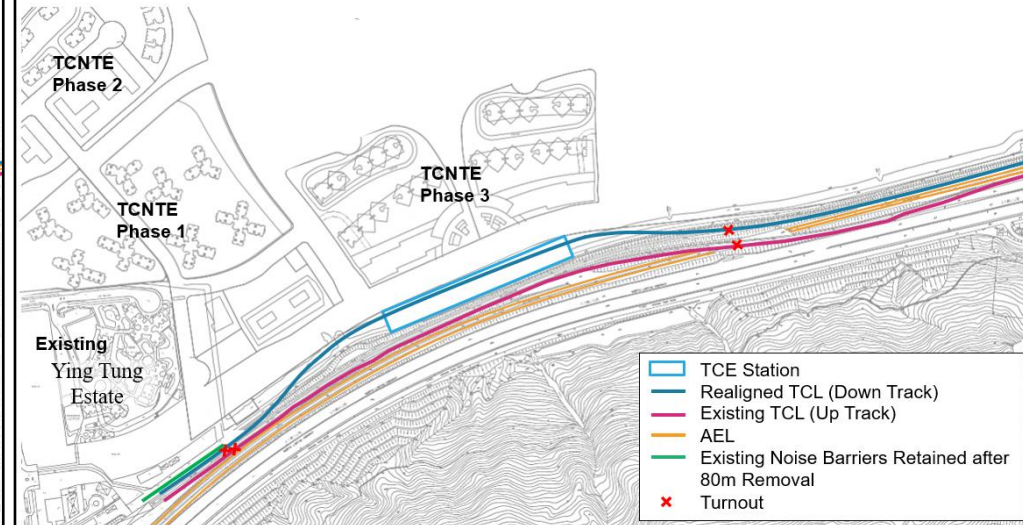
- Existing rail track
- Turnouts are added to TCL down track
- Removal of about 80m of existing noise barriers



Scenario B

2027 – 2029

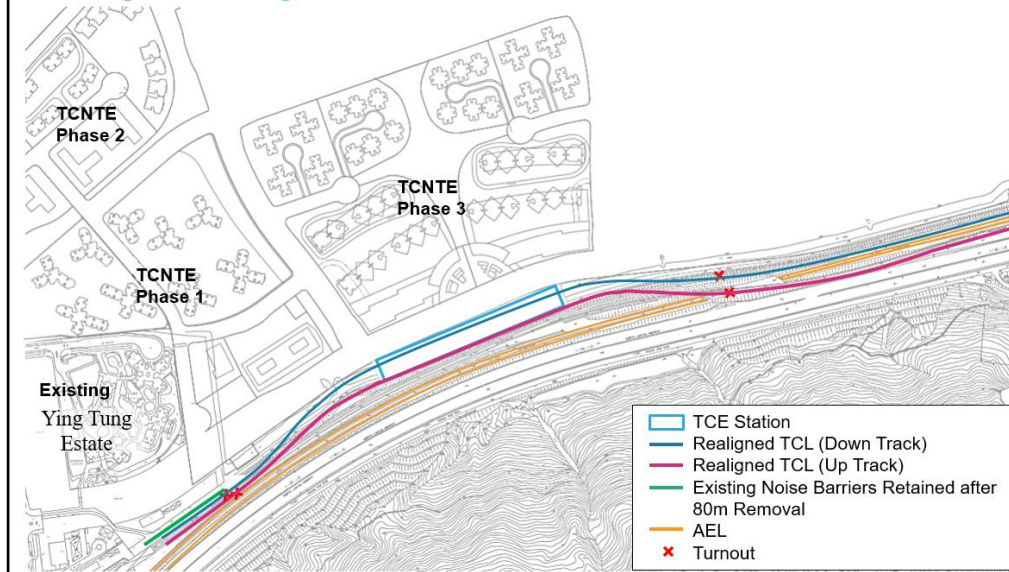
- TCL down track is realigned
- Turnouts are added to TCL up track
- TCE Station is built



Scenario C

2029 – 2030

- TCL up track is realigned



Scenario D

2030 – Ultimate

- All turnouts are removed

