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Appendix 10.4 Conceptual Plans of the Proposed Development with Mitigation Measures

10 Landscape and Visual Impact Assessment

10.1 Legislation, Standards and Guidelines

10.1.1 General

10.1.1.1 A review of the existing and planned development framework for the Project Site and context has been conducted. Legislation, standards, guidelines and criteria relevant to the consideration of landscape and visual sensitivity in this assessment include the following:

10.1.2 Legislation and Planning Standards

- Environmental Impact Assessment Ordinance (Cap.499. S.16) and the EIAO-TM, particularly Annexes 3, 10, 11, 18 and 20;
- Environmental Impact Assessment Ordinance Guidance Note 8/2010 Preparation of Landscape and Visual Impact Assessment;
- Town Planning Ordinance and Town Planning (Amendment) Ordinance (Cap.131);
- Country Parks Ordinance (Cap.208);
- The Forests and Countryside Ordinance (Cap.96) prohibiting the felling, cutting, burning or destruction of trees, growing plants and forests on Government land;
- Hong Kong Planning Standards & Guidelines Chapter 4, 10 and 11; and
- Protection of Endangered Species of Animals and Plants Ordinance (Cap.586).

10.1.3 Technical Circulars/ Guidelines

- Development Bureau Technical Circular Works (DEVB TC(W)) No.2/2013 Greening on Footbridge Flyovers;
- DEVB TC(W) No. 4/2020 Tree Preservation, February 2020;
- DEVB TC(W) No. 5/2020 Registration and Preservation of Old and Valuable Trees, February 2020;
- DEVB Greening, Landscape & Tree management Section (GLTM) Management Guidelines for Mature Trees, December 2014;
- DEVB (GLTM) Guidelines on Tree Transplanting, September 2014;
- DEVB (GLTM) No. 2/2012 Allocation of Space for Quality Greening on Roads;

- Environment, Transport and Works Bureau (ETWB) TC(W) No.2/2004 Maintenance of Vegetation and Hard Landscape Features;
- ETWB TC(W) No. 5/2005 Protection of streams/rivers from adverse impacts arising from construction works;
- ETWB TC(W) No. 11/2004 Cyber Manual for Greening;
- ETWB TC(W) No. 36/2004 Advisory Committee on the Appearance of Bridges and Associated Structures;
- Works Bureau Technical Circular (WBTC) No. 25/1993 Control of Visual Impact of Slopes;
- WBTC No. 7/2002 Tree Planting in Public Works;
- Agriculture, Fisheries and Conservation Department (AFCD) Nature Conservation Practice Note No.2 Measurement of Diameter at Breast Height (DBH); and
- AFCD Nature Conservation Practice Note No.3 The Use of Plant Names.

10.1.4 Outline Zoning Plans

- The approved Tung Chung Extension Area Outline Zoning Plan (OZP) No. S/I-TCE/2;
- The approved Tung Chung Town Centre Area OZP No. S/I-TCTC/24;
- The approved Tung Chung Valley Outline Zoning Plan (OZP) No. S/I-TCV/2;
- The adopted Tung Chung Extension Area ODP No. D/I-TCE/1;
- The adopted Tung Chung Town Centre Area (North) ODP No. D/I-TCTCN/1;
- The adopted Tung Chung Town Centre Area (South) ODP No. D/I-TCTCS/1; and
- The adopted Tung Chung Valley ODP No. D/I-TCV/1.

10.1.5 Other Reference Information and Planning Studies

- Landscape Character Map of Hong Kong (2005 Edition);
- "Map of Land Utilization in Hong Kong" by Planning Department;
- Technical Report of "Study on Landscape Value Mapping of Hong Kong" by Planning Department;
- The Register of Old and Valuable Trees Hong Kong, maintained by the Leisure and Cultural Services Department; and
- Revised Concept Plan for Lantau May 2007.

10.2 Landscape Impact Assessment Methodology

10.2.1 General

- 10.2.1.1 The Landscape and Visual Impact Assessment (LVIA) is prepared in accordance with the requirements of the EIA Study Brief issued by Environmental Protection Department (EPD) and the EIAO-TM. Further guidance is given by EIAO Guidance Note 8/2010 and Annexes 10 and 18 of EIAO-TM, Section 3.4.11 and Appendix G of the EIA Study Brief.
- **10.2.1.2** In accordance with the criteria as stated in Annexes 10 and 18 of EIAO-TM, the LVIA for this project includes:
 - a list of the relevant environmental legislation, standards and guidelines;
 - a definition of the scope and contents of the Study;
 - a review of the relevant planning and development control framework;
 - a landscape and visual impact assessment methodology;
 - a landscape impact assessment section, comprises:
 - a landscape baseline study, to provide a comprehensive and accurate description of the baseline landscape resources (LRs) and landscape character areas (LCAs);
 - identification of potential landscape impacts;
 - prediction of the nature of landscape impacts and the potential magnitude of changes on the Project, as well as the potential significance of impacts before the implementation of mitigation measures;
 - recommendation of proper mitigation measures and associated implementation programmes; and
 - prediction of the significance of residual landscape impacts after the implementation of the suggested mitigation measures.
 - a visual impact assessment section, comprises;
 - a visual baseline study, to provide comprehensive details of visual elements surrounding the Project and their Visually Sensitive Receivers (VSRs);
 - identification of potential visual impacts;
 - prediction of the nature of visual impacts and the potential magnitude of changes on the Project, as well as the potential significance of impacts before the implementation of mitigation measures;
 - recommendation of proper mitigation measures and associated implementation programmes; and

- prediction of the significance of residual visual impacts after the implementation of mitigation measures.
- an assessment of the acceptability of otherwise of the predicted residual impacts, according to the five criteria set out in Annex 10 of the EIAO-TM, namely beneficial, acceptable with mitigation measures, unacceptable or undetermined.

10.2.2 Identification of the Baseline Landscape Resources and Landscape Character Areas

- 10.2.2.1 The landscape baseline study identifies all LRs and LCAs located within 500m assessment area by site visits and desktop study of topographical maps, information databases, photographs and the ecology section. Aerial Photo is shown in Figure 10.1. Types of LR are mapped based on the area of their existing and major physical landscape elements and characteristics.
- **10.2.2.2** The Project has been divided into broad units of similar character based on a process of landscape characterisation which draws on the information gathered in the desktop study and site surveys. In addition, the Planning Department "*Study of Landscape Value Mapping of Hong Kong*" and "*Map of Land Utilization in Hong Kong*" are also considered. Typical elements which contribute to the landscape character include:
 - Local topography;
 - Extent and type of vegetation (including woodland, grassland, plantation, etc.);
 - Built form (including scale and appearance);
 - Patterns of settlement;
 - Wildness;
 - Land use;
 - Scenic spots;
 - Prominent watercourses; and
 - Cultural and religious features.
- **10.2.2.3** Details of the identified LRs and LCAs are presented and summarized in **Table 10.4** and **10.5**.

10.2.3 Broad Brush Tree Survey

10.2.3.1 As part of the EIA study carried out for the proposed development project, a broadbrush tree and vegetation survey (refer to Clause 2 Appendix I of EIA SB ESB-329/2020) has been carried out within the study area to identify the baseline conditions of the existing landscape resource and existing trees with the intention to minimize landscape impact. The broad-brush tree and vegetation survey is in aid of the aerial photos (Digital Orthophoto DOP5000 series of Lands Department (2018 Release)) and the ecology section, and based on the topographical survey conducted prior to the tree survey, and site visits to the Project site.

10.2.3.2 The survey areas are located at North Lantau Highway, Man Tung Road, Yat Tung Estate, Yu Tung Road and Shun Tung Road, the grouped tree survey plan, grouped tree survey schedule and grouped tree photo records are provided in <u>Appendix 10.2</u>. The key findings of the broad-brush tree and vegetation survey, including the number of existing trees, dominant species, general health condition and any plant species of conservation interest (including Old and Valuable Tree (OVTs), stonewall tree, Trees of Particular Interest (TPI) nor trees of particular value) has outlined in Section 10.5.7.

10.2.4 Sensitivity of Landscape Resources and Landscape Character Areas

- **10.2.4.1** A qualitative description of LRs and LCAs has been provided and their extent quantified either by area or length. The sensitivity of the LRs and LCAs are evaluated and rated taking into account the following criteria:
 - quality of landscape characters/ resources;
 - importance and rarity of special landscape elements;
 - ability of the landscape to accommodate change;
 - significance of the change in local and regional context, and
 - maturity of the landscape.
- **10.2.4.2** The sensitivity ratings are classified as below:
 - High:LR or LCA of high quality and value, which is sensitive to even
relatively small changesMedium:LR or LCA of moderate quality and value, which is reasonably
tolerant to changeLow:LR or LCA of low quality and value, which is largely tolerant
to change

10.2.5 Identification of Potential Sources of Impact

10.2.5.1 The permanent or temporary construction works and the operation of the railway extension may generate potential impacts to the existing landscape environment. Any potential sources of impact related to the Project have been identified. Based on preliminary design information, the major impacts will be generated from the following during construction and operational phases of the Project:

Construction Phase

- Site formation and construction of turnouts for realignment of the existing at grade Tung Chung Line (TCL) section from Tuen Mun Chek Lap Kok Link connection point to south of Ying Tung Estate;
- Site formation, site foundation and construction of above-ground Tung Chung East (TCE) Station and associated facilities;
- Site excavation, cut-and-cover and backfilling for the tunnel launching and retrieval shafts for the underground tunnel section for Tung Chung West (TCW) extension alignment;
- Site excavation, open cut/cut-and cover and backfilling for underground TCW Station and the associated facilities;
- Site excavation and construction of Emergency Access Point (EAP)/ Emergency Egress Point (EEP);
- Temporary works areas for site offices and material storage; and
- Barging point.

Operational Phase

- EAP/ EEP Building; and
- TCE Station and TCW Station as well as the associated station entrances and vent shaft structures.

10.2.6 Magnitude of Change to Landscape Resources and Landscape Character Areas

- **10.2.6.1** The assessment of "Magnitude of Change" for landscape impacts considers the following criteria:
 - compatibility of the Project with the surrounding landscape;
 - duration of impacts under construction and operational phases;
 - scale of development; and
 - reversibility of change.
- **10.2.6.2** The magnitude of change is considered separately for the construction phase and operational phase; the ratings are classified as below:

Large:	LR or LCA will suffer a major change
Intermediate:	LR or LCA will suffer a moderate change
Small:	LR or LCA will suffer a barely perceptible change

Negligible: LR or LCA will suffer no discernible change

10.2.7 Impact Significance in relation to LRs and LCAs

10.2.7.1 The assessment of the "Impact Significance Threshold before Mitigation" for landscape impacts is considered during the construction and operational phases (Day 1 and Year 10) by synthesizing the "Sensitivity" and "Magnitude of Change" for various LRs and LCAs according to **Table 10.1**. The degree of significance has been divided into four thresholds identified below:

Substantial:	Adverse/ beneficial impact where the proposals will cause significant deterioration or improvement in existing landscape quality	
Moderate:	Adverse/ beneficial impact where the proposal will cause a noticeable deterioration or improvement in existing landscape quality	
Slight:	Adverse/ beneficial impact where the proposal will cause barely perceptible deterioration or improvement in existing landscape quality	
Insignificant:	No discernible change in the existing landscape quality	

Table 10.1 Relationship between sensitivity of LR/ LCA and magnitude of change in defining impact significance

		Receptor Sensitivity (of LR/ LCA)		
		Low	Medium	High
	Negligible	Insignificant	Insignificant	Insignificant
Magnitude	Small	Slight	Slight/ Moderate	Moderate
of Change	Intermediate	Slight/Moderate	Moderate	Moderate/ Substantial
	Large	Moderate	Moderate/ Substantial	Substantial

10.2.8 Identification of Potential Landscape Mitigation Measures

10.2.8.1 Identification of potential mitigation measures, alternative design, and/or alignment, and/ or construction methodologies that will make the Project more compatible with its landscape setting. Alternative design, and/ or alignment, and/ or construction methodologies that will avoid or reduce landscape impacts are considered before adopting other mitigation measures. Design considerations/ options that have been explored before arriving to the recommended alignment as

discussed in **Section 2** whilst **Section 10.9** has discussed how the Project is compatible with its local context.

10.2.8.2 Mitigation measures are considered for both construction and operational phases to prevent or minimise unavoidable adverse impacts and/ or generate beneficial long-term impacts. To ensure their effectiveness throughout the construction and operational phases, the relevant responsible parties for the on-going management and maintenance of the proposed mitigation measures have been identified.

10.2.9 Residual Landscape Impact Assessment Methodology

- **10.2.9.1** This part of the assessment describes any residual adverse landscape impacts to LRs and LCAs. Residual impacts are those which remain after commissioning of the development (operation Day 1 & Year 10) with mitigation measures implemented.
- **10.2.9.2** The level of impact is derived from the magnitude of change which the Project will cause to the LR or LCA taking into account its ability to tolerate change and effectiveness of mitigation measures.

10.3 Visual Impact Assessment Methodology

10.3.1 General

10.3.1.1 The assessment area for visual impact assessment is defined in accordance with EIAO Guidance Note No. 8/2010, the EIAO-TM, particularly Annexes 10 (Criteria for Evaluating Visual and Landscape Impact, and Impact on Sites of Cultural Heritage) and 18 (Guidelines for Landscape and Visual Impact Assessment). It includes the areas within 500m from the project boundary and within the Visual Envelope (VE) that could potentially see the Project and defines the limit of its visibility.

10.3.2 Identification and Plotting of the Visual Envelope

- **10.3.2.1** The assessment area is defined by the VE which includes all the points from which the scheme proposals may be visible, comprising the viewshed formed by natural/ manmade features such as ridgelines, built form or areas of woodland/ large trees. This area is identified through a combination of detailed field surveys, desktop study and review of aerial photography.
- **10.3.2.2** The VE includes the areas of North Lantau, Chek Lap Kok and Hong Kong International Airport (HKIA). TCL realignment are fairly enclosed by prominent green hill slopes in close proximity to the south, by the inshore water immediately to the north and west, and by the Tung Chung New Town Extension (TCNTE) East to the north while TCW extension alignment is enclosed by Yat Tung Estate in

close proximity to the east, Mun Tung Estate to the south, Wong Lung Hang estuary to the west and Tung Chung Bay to the north.

10.3.3 Identification of VSRs within the Visual Envelope

- **10.3.3.1** The VSRs represent the people who would reside within, work within, play within, or travel through. The VSRs for the visual impact assessment are identified within the VE.
- **10.3.3.2** The selection of VSRs have considered the latest locations of above-ground structures including stations, vent shaft structures, station entrances, EAP/ EEP, etc.

10.3.4 Sensitivity of VSRs

- **10.3.4.1** VSRs within the VE during the construction and operational phases of the development are identified. Views from these points are recorded, described and the sensitivity assessed.
- **10.3.4.2** The assessment of sensitivity is based on the quality and extent of the existing view. The factors affecting the sensitivity of receivers for evaluation of visual impacts include the following:
 - The type of VSRs, which is classified according to whether the person is at home, at work, at play, or travelling. Those who view the impact from their homes are considered to be highly sensitive as the attractiveness or otherwise of the outlook from their home will have a substantial effect on their perception of the quality and acceptability of their home environment and their general quality of life. Those who view the impact from their workplace are considered to be only moderately sensitive as the attractiveness or otherwise of the outlook will have a less important, although still material, effect on their perception of their quality of life. The degree to which this applies depends on whether the workplace is industrial, retail or commercial. Those who view the impact whilst taking part in an outdoor leisure activity may display varying sensitivity depending on the type of leisure activity. Those who view the impact whilst travelling on a public thoroughfare will also display varying sensitivity depending on the speed of travel.
 - Other factors which are considered (as required by EIAO Guidance Note 8/2010) include the value and quality of existing views, the availability and amenity of alternative views, the duration or frequency of view, and the degree of visibility.
- **10.3.4.3** The sensitivity of VSRs is classified as follows:
 - High: The VSR is highly sensitive to any change in their viewing experience.

- Medium: The VSR is moderately sensitive to any change in their viewing experience.
- Low: The VSR is only slightly sensitive to any change in their viewing experience.
- **10.3.4.4** The duration of the impact during construction and operation is determined based on the following ratings:

Construction:

Temporary	Construction works that will only be visible for a short duration of the overall construction period	
Permanent	Construction work will be visible throughout the whole construction period	
Operation:		
Permanent	Views of the Project that will remain permanently open to the view	

10.3.5 Prediction of Visual Impact Based on Field of View

10.3.5.1 The visual impact of a development can be quantified by reference to the degree of influence on a person's field of vision referencing the typical parameters of human vision based on anthropometric data. These data provide a basis for assessing and interpreting the impact of a development by comparing the extent to which the development would intrude into the centre field of vision (both vertically and horizontally, refer to <u>Appendix 10.1</u> - Prediction of Visual Impact Based on Field of View).

10.3.6 Identification of Potential Sources of Visual Impact

10.3.6.1 These are the various elements of the construction works and operational procedures that could generate visual impacts. They will create varying levels of visual impact due to factors such as visual obstruction, degradation of the quality of existing views and incompatibility with the surrounding landscape setting.

10.3.7 Magnitude of Change to VSRs

- **10.3.7.1** Magnitude of change to an existing view can be determined by a number of interrelated factors, including:
 - compatibility of the Project with the surrounding landscape;
 - duration of impacts under construction and operational phases;
 - scale of development;
 - reversibility of change;
 - viewing distance; and
 - potential obstruction of view.

10.3.7.2 The magnitude of changes at different stages of the construction and operational phases are considered separately, with ratings set out below:

Large:	The VSRs would suffer a major change in their viewing experience
Intermediate:	The VSRs would suffer a moderate change in their viewing experience
Small:	The VSRs would suffer a small change in their viewing experience
Negligible:	The VSRs would suffer no discernible change in their viewing experience

10.3.8 Impact Significance in relation to VSRs

- **10.3.8.1** The impact significance to VSRs deals with the prediction of "Impact Significance Threshold before Mitigation" for visual impacts through combining the "Sensitivity to Change" and "Magnitude of Change" for various VSRs according to **Table 10.2** below.
- **10.3.8.2** The degree of significance is divided into four thresholds:

Substantial:	Adverse/ beneficial impact where the proposal would cause significant deterioration or improvement in existing visual quality	
Moderate:	Adverse/ beneficial impact where the proposal would cause a noticeable deterioration or improvement in existing visual quality	
Slight:	Adverse/ beneficial impact where the proposal would cause a barely perceptible deterioration or improvement in existing visual quality	
Negligible:	No discernible change in the existing visual quality	

 Table 10.2 Relationship between sensitivity of VSRs and magnitude of change in defining impact significance

		Receptor Sensitivity (of VSR)		
		Low	Medium	High
	Negligible	Insignificant	Insignificant	Insignificant
	Small	Slight	Slight/ Moderate	Moderate
Magnitude of Change	Intermediate	Slight/ Moderate	Moderate	Moderate/ Substantial
	Large	Moderate	Moderate/ Substantial	Substantial

10.3.9 Identification of Potential Visual Mitigation Measures

10.3.9.1 Identification of potential mitigation measures, alternative design configurations, design and construction methodologies that will make the Project visually more compatible with its landscape setting are examined before adopting other mitigation measures. Mitigation measures are considered for both construction and

operational phases to prevent or minimise unavoidable adverse impacts and/ or generate beneficial long-term impacts.

10.3.10 Residual Visual Impacts Assessment Methodology

- **10.3.10.1** This part of the assessment indicates the influence on VSRs after applying mitigation measures, assuming that all proposed measures and guidelines would be fully implemented. Residual impacts are those impacts which remain after commissioning of the development (operation Day 1 & Year 10) with mitigation measures implemented.
- **10.3.10.2** The level of impact is derived from the magnitude of change which the Project will cause to the existing view and its ability to tolerate change, i.e. the quality and sensitivity of the view taking into account the beneficial effects of the proposed mitigation.

10.3.11 Cumulative Impact Assessment

- **10.3.11.1** This section reviews the projects currently in progress or planned/committed developments nearby the site boundary. Construction of these projects will result in cumulative landscape and visual impacts including the loss of landscape resources and landscape character, and the degradation of visual quality.
- **10.3.11.2** Mitigation measures to address the cumulative impacts would be incorporated into the design of each project. The resulting changes to the existing landscape character, landscape resources and visual quality have been taken into account in the assessment. Cumulative impacts from these projects are therefore taken into account through their inclusion in the baseline conditions.

10.3.12 Overall result of the Landscape and Visual Impact Assessment

10.3.12.1 An overall assessment is made on the development based on the identified landscape and visual impacts as follows:

Overall Result of LVIA Assessment	Description
Beneficial	The impact is beneficial if the Project will complement the landscape and visual character of its setting, will follow the relevant planning objectives and will improve overall and visual quality
Acceptable	The impact is acceptable if the assessment indicates that there will be no significant effects on the landscape, no significant visual effects caused by the appearance of the project, or no interference with key views
Acceptable with mitigation measures	The impact is acceptable with mitigation measures if there will be some adverse effects, but these can be eliminated, reduced or offset to a large extent by specific measures
Unacceptable	The impact is unacceptable if the adverse effects are considered too excessive and are unable to mitigate practically
Undetermined	The impact is undetermined if significant adverse effects are likely, but the extent to which they may occur or may be mitigated cannot be determined from the study. Further detailed study will be required for the specific effects in question

Table 10.3 Residual imp	pact assessment methodology
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10.4 Review of Planning and Development Control Framework

10.4.1 General

- **10.4.1.1** A review of the existing planning and development framework for the Project Site and its context is conducted in order to:
 - Identify issues/ conflicts in relation to the Project;
 - Identify the potential resources and sensitive receivers; and
 - Identify any synergies with the proposed works and the surroundings.
- **10.4.1.2** The following statutory plans and departmental plans fall within the 500m assessment area:
 - The approved Tung Chung Extension Area OZP No. S/I-TCE/2;
 - The approved Tung Chung Town Centre Area OZP No. S/I-TCTC/24;
 - The approved Tung Chung Valley Outline Zoning Plan (OZP) No. S/I-TCV/2;
 - The adopted Tung Chung Extension Area ODP No. D/I-TCE/1;
 - The adopted Tung Chung Town Centre Area (North) ODP No. D/I-TCTCN/1;
 - The adopted Tung Chung Town Centre Area (South) ODP No. D/I-TCTCS/1; and
 - The adopted Tung Chung Valley ODP No. D/I-TCV/1.

- **10.4.1.3** The review of OZPs is not only included a review of the plans, but also the Notes which form part of these plans and the Explanatory Statements which accompany the plans.
- 10.4.1.4 No natural woodland or high landscape value found will be in direct conflict with any work sites/ areas. All aboveground work areas will fall within various zonings on the OZPs, including "Government/Institution or Community" ("G/IC"), "Open Space" ("O"), "Village Type Development" ("V") and "Other Specified Uses" annotated "Railway Station" ("OU(Railway Station)"), Major Road and Junction (MRDJ), "Residential (Group A)" ("R(A)") and "Residential (Group B)" ("R(B)1"). The layout has been superimposed onto the existing OZP to determine whether there is an effect on the zoned use in Figure 10.2.

10.4.2 General Description of the Project Site

- **10.4.2.1** As discussed in **Section 2**, the Project consists of east and west sections. The eastern section is the proposed realignment of the existing TCL and the provision of a new at-grade TCE Station which are located along the TCNTE new reclamation area of TCE. The western section is the tunnel connecting the existing Tung Chung Station (TUC) with the new TCW Station to the west of Yat Tung Estate.
- **10.4.2.2** While the eastern section is located on existing developed area, the western section will go underneath Rocky Lion Hill along Shun Tung Road and the coast of Ma Wan Chung before reaching the new TCW Station west of Yat Tung Estate. While the entire extension alignment would be underground, there are aboveground works sites/works areas at the tunnel boring machine (TBM) launching and retrieval shafts, the cut-and-cover works site for the TCW Station box, EAP/EEP, station entrance, vent shaft structures, site reinstatement, material storage and site offices.
- **10.4.2.3** In addition, a north-south visual corridor was planned to connect the TCE Station to the northern end of the TCNTE reclamation area, this visual corridor is one of the planning considerations during the preparation of the Recommended Outline Development Plan (RODP) adopted in the approved EIA report for TCNTE. The current design of the TCE Station has maintained the same planning approach to align with this intention of the visual corridor.

10.4.3 Design Intention of the Proposed Developments

Compatibility to the TCNTE Development

10.4.3.1 The design of both the TCE and TCW Stations has followed the design intention recommended in the TCNTE EIA Study as far as practicable. It would help to maintain the design initiative and improve compatibility with the TCNTE development.

Design Intentions of Visual Enhancement

10.4.3.2 The development of proposed station, footbridge and entrances structures incorporate the design intentions of integrating with the planned environ of Metro Core District as a gateway to Tung Chung East and regional commercial hub and creating an interesting and vibrant pedestrian environment by various design features.

Minimization of the Above-ground Structures

10.4.3.3 The above-ground structures have been proactively designed to alleviate the bulk of the structures. In addition, transparent glass panels have also been considered to allow natural light to penetrate into the structures. These would help to reduce the associated visual impacts.

Avoidance of Mature Woodland

10.4.3.4 The design has critically reviewed the possibility of the location of EAP/ EEP to avoid loss in mature woodland. After a due review on various design requirements, the location of EAP/ EEP has located to an artificial slope at Shun Tung Road at which only plantation is identified. Hence, the landscape and visual impact is minimized.

Adoption of Street Level Planting

10.4.3.5 Small plants are planted to form a partial screen to visually buffer the EAP/ EEP. All plants should be of reasonable size to improve compatibility with the surrounding environment to alleviate landscape and visual impacts.

Provision of Green Roof

10.4.3.6 The green roof planting without individual containers will be adopted on the top of the architecture of both TCW and TCE Stations. Species will be selected with subtle gradation and modulation of their colours, formal architecture of their leaves and flowers and their suitability.

10.5 Landscape Baseline Study

10.5.1 Landscape Baseline Conditions

- **10.5.1.1** The assessment area covers from Tai Ho Wan to the Wong Lung Hang to the west and major highway infrastructures including North Lantau Highway (NLH) and Yu Tung Road. Within the assessment area, there are artificial slopes on lowland and natural terrain including woodland, shrubland and grassland along these roads.
- **10.5.1.2** At the northern part of TCE, it is a reclaimed land associated with urban infrastructure. Urban areas are mainly planned along the main roads with a view to the sea or strait and a backdrop of Lantau mountains.

- **10.5.1.3** Villages are commonly found in between the access roads and the woodland areas at TCW. Some patches of Fung Shui Woods can be identified near the villages e.g. Sheung Ling Pei and Ngau Au within the assessment area. Agricultural lands are also found within TCW, some of the active agricultural lands are planted with orchards near Ngau Au.
- **10.5.1.4** Water bodies include two types coastal waters to the north of the assessment area and ecologically important watercourses originated from Lantau mountains and flowing towards the coastal bay of Tung Chung. They run from the south to the north with intertidal flora and natural stones as important landscape elements.
- **10.5.1.5** Tung Chung contains two types of shorelines. For the reclamation at TCE, there are artificial seawall and shorelines. The natural shorelines remain in the west of Tung Chung.

10.5.2 Identified Landscape Resources

- **10.5.2.1** LRs can be classified into the following categories, and shown in **Figure 10.3**:
 - LR1 Secondary Woodland;
 - LR2 Shrubland and Grassland;
 - LR3 Plantation;
 - LR4 Fung Shui Woodland;
 - LR5 Agricultural Land;
 - LR6 Mangrove;
 - LR7 Reedbed;
 - LR8 Coastal Water;
 - LR9 Transitional Water;
 - LR10 Watercourse;
 - LR10a Natural Watercourse;
 - LR10b Channelized watercourse;
 - LR11 Natural Shoreline;
 - LR11a Mudflat;
 - LR11b Rocky Shore;
 - LR12 Artificial Seawall;
 - LR13 Road, Urban Infrastructure and Major Transport Corridor;
 - LR13a Major Transport Corridor;
 - LR13b Road and Infrastructure;

- LR14 Village Type Development;
- LR15 Urbanised Development; and
- LR16 Ongoing Reclamation Area.

10.5.3 Sensitivity of Landscape Resources

- **10.5.3.1** LRs affected by the Project within 500m of the subject site have been identified and mapped using a combination of aerial photography followed by on site verification. Each component affecting the sensitivity of the LR have been reviewed in relation to:
 - Quality of landscape character/ resources;
 - Importance and rarity of special landscape elements;
 - Ability of the landscape to accommodate change;
 - Significance of the change in local and regional context; and
 - Maturity of the landscape.
- **10.5.3.2** Physical LRs are the natural components of the landscape and include geology, topography, soil, vegetation, and hydrological features. Each LR possesses a varying sensitivity to development. Therefore, the 500m assessment area incorporates a diversity of LRs of greatly varying extents and sensitivities.
- **10.5.3.3** The sensitivity of LRs is assessed in **Table 10.4** with detailed descriptions. The photo records of each LR are shown in **Figure 10.4a** to **10.4e**.

ID Code	Extent (ha./ m)	Quality (High/ Medium/ Low)	Rarity (High/ Medium/ Low)	Importance (Local/ Regional/ National/ Global)	Ability to Accommodate Change (Low/ Medium/ High)	Maturity (Low/ Medium/ High)	Sensitivity (Low/ Medium/ High)			
LR1	59.2	High	Medium	High						
	This LR re scattered ov Tung Chu <i>Cinnamom</i> within the <i>Pavetta hor</i> capacity to protected sp	ver the slopes to ng Hang, Ngau <i>um burmannii a</i> assessment area <i>ngkongensis</i> . Ge accept change	the west of Tai Au and Wo and <i>Microcos m</i> a, included <i>Aqui</i> enerally, the dist as a result of i ded within this L	Ho Wan, the south Liu Tun. Domin <i>tervosa</i> . Some spec- laria sinensis, Da tribution and exter ts naturalness and .R, therefore the ra	slopes within the a neast of NLH, slopes nant species are <i>Cr</i> eccies of conservation <i>albergia assamica</i> , <i>L</i> nt of the LR are relat 1 maturity. Meanwh rrity, landscape quali	near Ma Wan atoxylum com n importance igustrum pun ively patchy a ile, given sev	Chung, New chinchinense, are recorded ctifolium and and has a low eral rare and			
LR2	116.5	Medium	Medium	Local	Low	Medium	Medium			
	Shrubland & Grassland									
	Shrubland & Grassland This LR refers to shrubland and grassland on the hills near Tai Ho Wan and to the south of NLH. The LR can also be found near Ma Wan Chung, as well as the both western and eastern sides of New Tung Chung Hang. The LR dominates the landscape resources on hillsides and adjoins patches of secondary woodland and plantation within assessment area. It is composed mainly of common species including <i>Apocynaceae</i> ,									

 Table 10.4 Identified LRs and their sensitivity

ID Code	Extent (ha./ m)	Quality (High/ Medium/ Low)	Rarity (High/ Medium/ Low)	Importance (Local/ Regional/ National/ Global)	Ability to Accommodate Change (Low/ Medium/ High)	Maturity (Low/ Medium/ High)	Sensitivity (Low/ Medium/ High)		
					<i>chima superba</i> comb he overall sensitivity				
LR3	19.1	Medium	Medium	Local	Medium	Medium	Medium		
	Plantation This LR refers to tree planting found on engineered slopes along NLH, Yu Tung Road and Shun Tun The dominant species are Acacia confusa, Casuarina equisetifolia, Eucalyptus robusta and Schima s The LR is considered to have a medium capacity to accept change given it is managed natural. Beside the maturity and contribution of this LR to landscape amenity are valuable, in particular when progreen coverage to engineered slopes and roadsides, it is a common resource, and no rare or protected are found. The maturity, rarity and quality are therefore considered as Medium. 4 1.2 High High								
LR4	1.3	High	High	Regional	Low	High	High		
	This LR re developme Pei and N <i>javanica</i> an capacity to	nt and are chara gau Au. Domir nd <i>Aporusa dioi</i> a	acterised by old nant tree specie ca. Given the ma change, the rar	age and high flora s includes <i>Cleiste</i> aturity, cultural sig	and exotic tree speci diversity, which ca <i>ocalyx nervosum, Sy</i> gnificance and rarene therefore considere	n be found in <i>zygium jamb</i> ess of this LR,	Sheung Ling os, Bischofia and with low		
LR5	32.6	Medium	Medium	Local	Medium	Medium	Medium		
	Au, Shek I community <i>Dimocarpu</i> flowers are and wamp undergone change. Th	fers to orchards Lau Po and the //organic farms <i>is longan and A</i> e cultivated. Mo i and appeared change as a re	west side of the and orchards. D <i>rtocarpus heter</i> st orchards are to be managed. sult of human a ality are conside	Yu Tung Road. A ominant tree speci ophyllus. A variet densely planted w As this LR gene activities, it is con- ered as Medium a	ey and can be found Agricultural land inc es includes <i>Clausena</i> y of crops including ith fruit trees includ rally does not includ sidered to have a r s no rare or protecte	ludes dry veg a lansium, Lita vegetables, f ing banana, lo le built form nedium capac	etable farms, <i>chi chinensis</i> , ruit trees and ongan, lychee although has ity to accept		
LR6	4.4	High	High	Regional	Low	High	High		
	Mangrove This LR refers to areas of mangrove located within the intertidal zone of Tung Chung Bay and Ma Chung. The largest mangrove stand can be found at the west of Tung Chung River estuary. Extent of the is limited and plant species of conservation importance such as <i>Ligustrum punctifolium</i> is found. The rais therefore considered to be High. Furthermore, this LR contributes significantly to the coastline/landscape character, and hence the landscape quality is also considered to be High. The overall sensitivi rated as High.								
LR7	0.7	High	High	Local	Low	Medium	High		
	Reedbed This LR refers to a small stand of reedbed located along the fringe of the mangrove stand zone of Tung Chung Bay. The LR is semi-natural, established from abandoned agricultur area through succession. The extent of the LR is very limited, and the capacity to accept hence the landscape quality and rarity are considered to be High. The overall sensitivity								
LR8	126.2	Medium	Medium	Local	Medium	N/A	Medium		
		fers to the seaw			s) within Tung Chur Iedium capacity to a				

ID Code	Extent (ha./ m)	Quality (High/ Medium/ Low)	Rarity (High/ Medium/ Low)	Importance (Local/ Regional/ National/ Global)	Ability to Accommodate Change (Low/ Medium/ High)	Maturity (Low/ Medium/ High)	Sensitivity (Low/ Medium/ High)		
		ation works nea is rated as Med		E), the landscape q	uality is considered	to be Medium	h. The overall		
LR9	13.1	High	High	Local	Low	N/A	High		
	water exist and estuar mangroves	fers to the water s. In general, th y which is pro- along this are	e capacity to ch viding quality 1 a. Therefore, th	ange of this LR is landscape amenity ne rarity is consid	ay, where a mixture low. This LR is loca and supporting ad ered to be High. N overall sensitivity is	lized to the n jacent coasta atural coastli	atural coastal l habitat e.g. ne interfaces		
LR10a	4.6	High	High	Local	Low	N/A	High		
	This LR re Hang nulla streams wh waterfalls, sections in relative vu Ecological River can l	ah and Tai Ho s nich then enter T exceptional hal clude <i>Microcos</i> lnerability of the ly important Str	Stream. Smaller ung Chung Bay bitat quality and <i>nervosa</i> , <i>Hibisc</i> e LR it is conside eams (EIS) inclu- the assessment	r tributary streams and Tai Ho Wan. Y d natural form. Pl cus tiliaceus and M lered to have a Lo uding Wong Lung area, therefore the	area including Tung s originated from th Watercourses in this ant species recorded <i>Macaranga tanarius</i> . w capacity to accept Hang nullah and tw e rarity and landscap	e uphill feedi area are renov d along the n Given the na change. Mea o branches of	ng the larger vned for their atural stream turalness and nwhile, three Tung Chung		
LR10b	1.7	Low	Low	Local	High	N/A	Low		
	This LR re and open c altered as pristine wa to accept c	hannel system p a result of chan atercourse system	n of the Tung C prior to discharg anelisation. Whi ns. Given the an fairly common	ing into Tung Chu lst these sections rtificial nature of t in the area, so the	e Wong Lung Stream Ing Bay. Sections of are limited their int he LR it is considered andscape quality a	natural stream erfere with p ed to have a H	ns have been redominantly High capacity		
LR11a	9.2	High	Medium	Local	Low	N/A	High		
	This LR re the natural contributor	cognises the tidaness of the LR, t	al range of this r the capacity to a aracter of the co	esource and funda	ng Bay area and sma mental link to LR9 T onsidered as Low. W scape quality is cons	Fransitional W hile the LR is	aters. Due to an important		
LR11b	0.5	High	High	Local	Low	N/A	High		
	Rocky Coastline This LR refers to small stretches of rocky shore located on the southwestern shoreline of Scenic Hill and the shore to the North of Tung Chung Battery. Due to the naturalness of the LR, it is considered to have a Low capacity to accept change. LR is limited in its extent, and hence the rarity is considered to be High. The LR is an important contributor to landscape character of the coastal area, therefore the landscape quality is considered to be High. The overall sensitivity is also High .								
LR12	2.9	Low	Low	Local	Low	N/A	Low		
	Artificial Seawall This LR refers to artificial coastline formed along reclaimed areas along TCE waterfront. It comprises of a combination of vertical and inclined seawalls. As a result of the artificial nature of the resource, it is considered to have a High capacity to accept change with low landscape quality. The LR is very common therefore the rarity is Low. The overall sensitivity is Low .								

ID Code	Extent (ha./ m)	Quality (High/ Medium/ Low)	Rarity (High/ Medium/ Low)	Importance (Local/ Regional/ National/ Global)	Ability to Accommodate Change (Low/ Medium/ High)	Maturity (Low/ Medium/ High)	Sensitivity (Low/ Medium/ High)			
LR13a	36.6	Low	Low	Regional	High	Low	Low			
	This LR reactives these route road or rail nature of the rarity is Lo	es are predomina l lines and hard he LR, it has a H	infrastructure c antly formed of surfacing/ balla ligh capacity to sive hard surfac	engineered structu ast, with roadside a accept change. Th cing, lack of vegeta	he NLH, Shun Long ires/barriers, modific amenity planting. As is is a common LR i ation cover, the land	ed slopes & en s a result of th n the vicinity,	mbankments, he man-made therefore the			
LR13b	39.4	Low	Low	Local	High	Low	Low			
	This LR reassessment structure to species rec <i>Livistona c</i> <i>speciosa</i> ar accept char the vicinity	Road & Urban Infrastructure This LR refers to main pedestrian routes with tree avenues and amenity landscape area throughout the assessment area. A combination of mature avenue trees, grassed areas, and ornamental shrubs provide structure to the environment and enhance the landscape and visual integration of the road system. Plant species recorded along the roadside include <i>Ficus microcarpa</i> , <i>Eucalyptus robusta</i> , <i>Bauhinia blakeana</i> and <i>Livistona chinensis</i> . Some protected species are recorded within the assessment area, included <i>Lagerstroemia speciosa</i> and <i>Magnolia denudata</i> . Given the man-made nature of the LR, it generally has a High capacity to accept change. However mature landscape planting limits this capacity at points. This is a common LR in the vicinity, the rarity is therefore considered to be Low. The landscape quality is also considered to be Low given the dominance of engineered structures and hard landscape treatments. The overall sensitivity is rated								
LR14	23.7	Medium	Medium	Local	Medium	Medium	Medium			
	This LR revegetation. Tung Road by orchard heterophyle within the	. It can be found l. Some landscap ds of densely <i>lus</i> . Given the bu vicinity therefor	ered settlements, around Tung Cl be treatment can planted fruit uilt nature of the e the rarity is co	hung Bay, Ngau A be found, such as trees <i>Litchi chin</i> LR, it has a Mediu onsidered to be Me	ial building clusters, au, Shek Lau Po, and private amenity plan tensis, Dimocarpus im capacity to accep dium. The landscape he resource. The over	l along the sou hting. This LR <i>longan ana</i> t change. And e quality is cor	th side of Yu is dominated <i>Artocarpus</i> it is common nsidered to be			
LR15	147.5	Low	Low	Local	High	Low	Low			
	Urbanised DevelopmentThis LR refers to the urbanised areas of Tung Chung including the main residential developments, commercial, educational, and recreational development forming Tung Chung. The dominant species are <i>Acacia mangium, Ficus microcarpa, Casuarina equisetifolia</i> and <i>Livistona chinensis</i> . A combination of municipal roadside amenity planting, planting associated with private residential courtyard areas, ornamental planting within public parks and recreational spaces. Given the built nature of the LR it has a High capacity to accept change. The rarity is considered to be Low. The landscape quality is considered to be Low given the formalised nature of the majority of the resource. The overall sensitivity is rated as Low.									
LR16	97.8	Low	Low	Local	High	N/A	Low			
	Ongoing R	Reclamation Ar	ea							
	evolving an capacity to	nd assessing a ba	aseline for speci is considered a	fic resources is no	volving at TCNTE. C t possible due to the ndscape quality is c	continual state	e of flux. The			

10.5.4 Summary of Landscape Resources and their Sensitivity

- 10.5.4.1 High sensitivity LRs are generally natural elements with little human intervention, included LR1 Secondary Woodland, LR4 Fung Shui Woodland, LR6 Mangrove, LR7 Reedbed, LR9 Transitional Water, LR10a Natural Watercourse, LR11a Mudflat, and LR11b Rocky Coastline.
- 10.5.4.2 LRs with Medium sensitivity are considered less valuable and common resources, included LR2 Shrubland & Grassland, LR3 Plantation, LR5 Agricultural Land, LR8 Coastal Water and LR14 Village Type Development.
- **10.5.4.3** LRs with low sensitivity are included LR10b Channelised Watercourse, LR12 Artificial Seawall, LR13a Major Transport Corridor, LR13b Road & Urban Infrastructure, LR15 Urbanised Development, and LR16 Ongoing Reclamation Area, as a result of their artificial nature and lower landscape significance.

10.5.5 Sensitivity of Landscape Character Areas

- **10.5.5.1** The landscape character of the 500m assessment area has been influenced by many different types and scales of human development set within a dramatic natural landscape of mountains, urban development landscape and coastal areas. This has formed a series of LCAs of varying landscape value and development sensitivity.
- 10.5.5.2 The sensitivity of LCA is assessed in Table 10.5 with detailed descriptions. The extents of these LCAs are presented in <u>Figure 10.5</u>. The photos of each LCAs are shown in <u>Figure 10.6a to 10.6d</u>.

ID Code	Extent (ha.)	Quality (High/ Medium/ Low)	(High/ Medium/ Low) (High/ Medium/ Low) (Local/ Regional/ National/ Global)		Ability to Accommodate Change (Low/ Medium/ High)	Maturity (Low/ Medium/ High)	Sensitivity (Low/ Medium/ High)			
LCA1	96.1	Medium	Medium	Local	High	N/A	Low			
	Inshore Water Landscape This LCA refers to waterscape at north side of Tung Chung, which is predominantly constructed in artificial stone revetment. The LCA has historically been encroached upon through phases of reclamation to form the NLH, Tung Chung waterfront and Hong Kong International Airport (HKIA). It is therefore considered that the LR has a high capacity to accept change. Given this is a common LCA, its rarity is therefore Low. Seascape is a contributor to landscape character; the landscape quality is considered to be Medium. The overall sensitivity is rated as Medium .									
LCA2	46.7	Medium	Medium	Local	Medium	N/A	Medium			
	Strait Landscape This LCA refers to the narrow channel located between the southern coastline of HKIA and Tung Chung, which is artificial rock revetment whereas the natural coastline remains intact on the Chek Lap Kok side with narrow beaches and rocky shoreline. The strait has already undergone works by developments over the years. It is therefore considered to have a Medium capacity to accept further change. The channel formation is formed by land reclamation albeit partly including the mouth of Tung Chung Bay which is natural. The rarity and landscape quality are therefore considered to be Medium. The overall sensitivity is rated as Medium.									
LCA3	21.9	High	High	Local	Low	High	High			

Table 10.5 Identified LCAs and their sensitivity

ID Code	Extent (ha.)	Quality (High/ Medium/ Low)	Rarity (High/ Medium/ Low)	Importance (Local/ Regional/ National/ Global)	Ability to Accommodate Change (Low/ Medium/ High)	Maturity (Low/ Medium/ High)	Sensitivity (Low/ Medium/ High)			
	Inter-tidal Co	oast Landsca	pe							
	relatively natuloss of similar	ral therefore r features as	it has a Low c a result of oth	apacity to accept	foreshore of Tung C ot change. The rarity works in the vicinit High .	is rated as Hi	gh due to the			
LCA4	27.7	High	High	Local	Low	Medium	High			
			ide Landscape							
	including Scen it has a Low ca	nic Hill and fo apacity to acc	oothill near Ma ept change. It i	Wan Chung. As s a natural LCA	ally above 40mPD as a result of the natur within the vicinity as as High. The overall	al and wildness nd across Tung	s of this LCA, Chung Area,			
LCA5	39.2	Medium	Medium	Local	Low	High	High			
	Settled Valley	<u>y Landscape</u>								
	developments detract from the accept change	are embedde he dramatic m . It is a quite o	ed into the sur nountain backd common LCA	rounding hillsid rop. The natura within the vicini	red near Lung Tseng le forests, are small l nature of this LCA ity and across Tung (to be Medium. The c	in scale and or results in a Lo Chung. As a res	to not overly w capacity to sult, the rarity			
LCA6	118.5	High	High	Local	Low	High	High			
	This LCA refers to natural upland hillside landscape within the assessment area generally above 40mPD. The natural terrain comprises mainly shrubland/ grassland with some strips of secondary woodland and rocky outcrops. As a result of the natural terrain, the capacity to accept change is Low. The LCA is relatively common and hence has a rarity rating of High. The landscape quality is considered to be High. The overall sensitivity is rated as High .									
LCA7	134.2	Low	Low	Local	High	Medium	Low			
	This LCA refe LCA comprise	ers to ongoin es a developr terms of rarity	g development nent plot on re y. The landscap	claimed land, in	2 ion area at construct t has a High capacit sidered to be Low gi	y to accept ch	ange. It has a			
LCA8	54.5	Low	Low	Local	High	Low	Low			
	<u>Transportation</u>									
	This LCA refers to the transport corridor approaching Tung Chung, which is connecting between HKIA with Lantau Island, which comprises NLH, TCL, and AEL. The corridor is entirely built on top of reclaimed landscape. Vegetation cover is restricted to narrow verges with grass, hedge, and small tree planting. As a result of the man-made nature of the LR, it is considered to have a High capacity to accept change. Infrastructure routes are not considered to be rare therefore the rating is Low. Given the man-made nature and minimal vegetation coverage, the landscape value is considered to be Low. The overall sensitivity is rated as Low .									
LCA9	108.5	Low	Low	Local	High	Medium	Low			
	Mixed Moder	n Comprehe	ensive Urban l	Development L	andscape	1				
	This LCA references of public recreational p	ers to the cen lic open spac rivate green	ntral high rise r ses and waterfr spaces, e.g. fo	residential and c ront promenade ormal tree aven	with landscape am ues, specimen tree LCA has been heavi	enity area. It and shrub pla	also includes nting, private			

ID Code	Extent (ha.)	Quality (High/ Medium/ Low)	Rarity (High/ Medium/ Low)	Importance (Local/ Regional/ National/ Global)	Ability to Accommodate Change (Low/ Medium/ High)	Maturity (Low/ Medium/ High)	Sensitivity (Low/ Medium/ High)		
	not a rare LC	A. The lands	cape contains	some mature p	The rarity is consider lanting and formalis ue and quality is Lo	sed landscape	spaces which		
LCA10	58.8	Medium	Medium	Local	Medium	Medium	Medium		
	Urban Peripheral Village and Rural Fringe Landscape								
	This LCA refers to the small-scale village settlements and agricultural lands scattered in Ma Wan Chur and to the southwest side of Yat Tung Estate and Mun Tung Estate. The majority of them comprise lov rise village houses in a cluster while some are a group of a few houses. As a result of human disturband mainly focused around the settled areas and extent of clearance for roads and parking, it is considered the the LCA has a Medium capacity to accept change. It has a rarity rating of Medium. The landscape qual- is Medium. The overall sensitivity is rated as Medium .								
LCA11	0.4	Low	Low	Regional	High	Medium	Low		
	around the con on reclaimed considered to and formalise	mplex system land and inco be High, and d landscape s	of road viaduc proprates major the rarity is co paces although	ets, junctions and r infrastructure onsidered as Low h these are mine	ortion of open greer d on verges. As this and an airport, the c w. The landscape con or in proportion who verall sensitivity is r	landscape is en capacity to acc ntains some ma en compared to	tirely formed ept change is ature planting		
LCA12	7.5	Medium	Low	Local	High	Medium	Medium		
	Institutional	Landscape	I						
	This LCA refers to the institutional land uses, and features includes North Lantau Hospital, the Charles Vath College and the YMCA of Hong Kong Christian College and ancillary outdoor facilities, and the land nearby. As a result of the built nature of this LCA, it has a High capacity to change, and Low rarity. The landscape quality is considered as Medium due to the amenity plantin area. The overall sensitivity is rated as Medium .								
LCA13	18.6	Medium	Low	Local	High	Low	Low		
	<u>Residential U</u>	rban Landso	<u>cape</u>						
	Residential Urban Landscape This LCA refers to the residential areas of Yat Tung Estate and Mun Tung Estate. It comprises many high- rise residential buildings and ancillary facilities such as shopping malls, carpark, and community centres. Some amenity landscape area can be found, e.g. ornamental planting, feature paving, sitting out area and green roofs. As this LCA has been heavily developed, it is considered to have a High capacity to accept change. Rarity rating is Low since it is quite typical a housing project in Hong Kong. The landscape contains some formalised landscape spaces which provide some landscape amenity. The landscape quality is considered as 'Medium'. The overall sensitivity is rated as Low .								

10.5.6 Summary of Landscape Character Areas and their Sensitivity

- **10.5.6.1** LCAs with high sensitivity which are natural components includes LCA3 Intertidal Coast Landscape, LCA4 Coastal Upland and Hillside Landscape, LCA5 Settled Valley Landscape, and LCA6 Upland Hillside Landscape.
- **10.5.6.2** LCAs including LCA1 Inshore Water Landscape and LCA2 Strait Landscape are common and quite abundant in Hong Kong. They are in medium sensitivity. With the human disturbance, LCA10 Urban Peripheral Village and Rural Fringe

Landscape, and LCA12 Institutional Landscape are less sensitive and of medium sensitivity.

10.5.6.3 The remaining LCAs including LCA7 Reclamation/ Ongoing Major Development Landscape, LCA8 Transportation Corridor Landscape, LCA9 Mixed Modern Comprehensive Urban Development Landscape, LCA11 Airport Landscape and LCA13 Residential Urban Landscape, which are regarded as artificial development landscape, are of low sensitivity.

10.5.7 Review of the Broad-Brush Tree and Vegetation Survey Records

- 10.5.7.1 A broad-brush tree survey and vegetation survey as shown in <u>Appendix 10.2</u> was conducted by the Project Proponent within the proposed works sites and work areas between April and July 2020. The survey methodologies were in accordance with the requirements in LAO PN 2/2020, DEVB TCW No. 4/2020 Tree Preservation and DEVB TCW No. 5/2020 Registration of Old and Valuable Trees, and Guidelines for their Preservation.
- 10.5.7.2 According to the board tree and vegetation survey results, about 3,200 nos. of existing trees are identified within the works sites/ works areas and none of these are Registered Old and Valuable Trees (OVTs), stonewall tree nor Trees of Particular Interest (TPI). However, 17 nos. of protected species (under The Forests and Countryside Ordinance (Cap.96)) are recorded (including 12 *Lagerstroemia speciosa* 大花紫薇 and 5 *Magnolia denudata* 玉蘭) during the survey. The overall health conditions and the maturity of the surveyed existing trees are rated as medium. Dominant tree species include *Litchi chinensis* 荔枝, *Schima superba* 木 荷, *Livistona chinensis* 蒲 葵, *Casuarina equisetifolia* 木麻 黃 and *Ficus microcarpa*. 細葉榕. Most of the surveyed existing trees are found within the Agricultural Land, Urban Development and Road, Urban Infrastructure and Major Transport Corridor.

10.6 Visual Baseline Study

10.6.1 Visual Baseline Condition

- **10.6.1.1** The visual assessment area is defined by the VE which is the area that any part of the proposed project can be seen from, and is generally the viewshed formed by natural/ manmade features such as ridgelines, built form or areas of woodland/ large trees. The VE may contain areas, which are fully visible, partly visible and non-visible from the project.
- **10.6.1.2** The VE includes the areas of North Lantau, HKIA and Chek Lap Kok. The proposed at-ground structures with its vent shaft facilities are mainly erected within both existing and future urban areas, which include Yat Tung Estate, artificial slopes along Shun Tung Road, and future TCNTE. Hence, the proposed work areas are fairly enclosed by prominent foothill in close proximity to the south, by the

inshore water immediately to the northwest, and by the existing Tung Chung Town and future TCNTE to the north.

10.6.2 Identification of VSRs

10.6.2.1 The selection of VSRs have considered the latest locations of at-ground structures including stations, station entrance, vent shaft structures, EAP/ EEP, etc. Among the VE, 20 potential VSRs are identified. The potential VSRs include residents at existing residential buildings nearby in Tung Chung Town and future residential buildings in TCNTE (including Ying Tung Estate, Coastal Skyline, Caribbean Square, Century Link, The Visionary, Tung Chung Crescent, Fu Tung Estate, Yu Tai Court, Ma Wan New Village, Yat Tung Estate and Mun Tung Estate); workers on HKIA; recreational users of public footpaths and trails within Scenic Hill and Lantau North Country Park, and Tung Chung Fort; travellers along NLH and Yu Tung Road. The scope of VE and locations of VSRs are indicated in Figure 10.7.

10.6.3 Sensitivity of VSRs

- **10.6.3.1** The assessment of sensitivity is based on the quality and extent of the existing view. The factors affecting the sensitivity of receivers for evaluation of visual impacts include the following:
 - Value and quality of existing views;
 - Availability and amenity of alternative views;
 - Type and estimated number of receiver population;
 - Duration or frequency of view, and
 - Degree of visibility.
- 10.6.3.2 The described and sensitivity of each VSRs are summarised in Table 10.6.Representative photographs of each VSR are shown in Figure 10.8a to Figure 10.8f.

 Table 10.6 Description & Sensitivity of VSRs

VSR Code	Type of VSR (Residential/ Recreational/ Occupational/ Transportation)	Approx. Closest Viewing Distance to Project (m)	No. of VSRs (Few/ Medium/ Many)	Quality of View (Good/ Fair/ Poor)	Availability of Alternative View (Yes/ No)	Degree of Visibility (Glimpse/ Partial/ Full)	Duration of View (Short/ Medium/ Long)	Frequency of View (Rare/ Occasional/ Frequent)	Sensitivity (Low/ Medium/ High)
VSR1	Transportation	110	Many	Good	Yes	Glimpse	Short	Occasional	Low
	with heavy traffic a	s the passenger nd screening tre ground to the vi	e planting along ew. With a high	g both sides of t	he road in a clos	e view. The hillsi	de of Por Kai Shai	n and Tung Chung	transportation corridor Fown and the open sky are and short duration of
VSR2	Residential	185	Many	Fair	Yes	Partial	Long	Frequent	High
1		<i>a</i>	Extension						
	the future residents existing TCL and N duration of view and	at the existing and visitors cat ILH with tree p d pay more atter	reclamation area rrying out recrea lanting along the	ational activitie e railways in th	s at planned TC e foreground, an he overall sensit	NTE. The existin d Por Kai Shan ir	g view to the prop the background.	posed TCE Station	t. This VSR represents is characterised by the /SR would have a long
VSR3	the future residents existing TCL and N	at the existing and visitors ca ILH with tree p	reclamation area rrying out recrea lanting along the	ational activitie e railways in th	s at planned TC e foreground, an	NTE. The existin d Por Kai Shan ir	g view to the prop the background.	posed TCE Station	is characterised by the
VSR3	the future residents existing TCL and N duration of view and Residential <u>Ying Tung Estate</u> The VSR represents	at the existing and visitors ca ILH with tree p d pay more atter 125 the residents at of TCNTC and	reclamation area rrying out recrea lanting along the ntion on any visu Many Ying Tung Esta I the Lantau Nor	ational activitie e railways in th ual of change, t Good te which is loca th Country Parl	s at planned TC e foreground, an he overall sensit Yes ted at the west of k form the backd	NTE. The existin d Por Kai Shan ir ivity is rated as H Partial f the TCE Station.	g view to the proj a the background. igh . Long The existing view	oosed TCE Station Given residential V Frequent towards the propos	is characterised by the SR would have a long
VSR3 VSR4	the future residents existing TCL and N duration of view and Residential <u>Ying Tung Estate</u> The VSR represents by reclamation land	at the existing and visitors ca ILH with tree p d pay more atter 125 the residents at of TCNTC and	reclamation area rrying out recrea lanting along the ntion on any visu Many Ying Tung Esta I the Lantau Nor	ational activitie e railways in th ual of change, t Good te which is loca th Country Parl	s at planned TC e foreground, an he overall sensit Yes ted at the west of k form the backd	NTE. The existin d Por Kai Shan ir ivity is rated as H Partial f the TCE Station.	g view to the proj a the background. igh . Long The existing view	oosed TCE Station Given residential V Frequent towards the propos	is characterised by the /SR would have a long High ed station is dominated
	the future residents existing TCL and N duration of view and Residential <u>Ying Tung Estate</u> The VSR represents by reclamation land attention on any vis Residential <u>The Visionary</u> This VSR represent	at the existing and visitors ca ILH with tree p d pay more atter 125 the residents at of TCNTC and ual of change, t 135 s the residents nated by Ying	reclamation area rrying out recrea lanting along the ntion on any visi Many Ying Tung Esta I the Lantau Nor he overall sensit Many at the Visionary Fung Estate in th	ational activitie e railways in th ual of change, t Good te which is loca th Country Parl ivity is rated as Good and next to Yi he foreground.	s at planned TC e foreground, an he overall sensit Yes ted at the west of k form the backd High . Yes ng Tung Estate.	NTE. The existin d Por Kai Shan ir ivity is rated as H Partial f the TCE Station. frop. Given reside Glimpse The existing view	g view to the proj a the background. igh. Long The existing view ntial VSR would h Long v towards the tem	posed TCE Station Given residential V Frequent towards the propos have a long duration Frequent porary works area,	is characterised by the VSR would have a long High ed station is dominated n of view and pay more

VSR Code	Type of VSR (Residential/ Recreational/ Occupational/ Transportation)	Approx. Closest Viewing Distance to Project (m)	No. of VSRs (Few/ Medium/ Many)	Quality of View (Good/ Fair/ Poor)	Availability of Alternative View (Yes/ No)	Degree of Visibility (Glimpse/ Partial/ Full)	Duration of View (Short/ Medium/ Long)	Frequency of View (Rare/ Occasional/ Frequent)	Sensitivity (Low/ Medium/ High)
	The existing view to	owards the prop	osed station is c	haracterised by	the traction sub	station and NLH	in the foreground	and the Lantau Nor	Station and works area. th Country Park forms he overall sensitivity is
VSR6	Occupational/ Recreational	65	Medium	Good	Yes	Full	Medium	Occasional	Medium
	Sheraton Hong Ko	ong Tung Chun	g Hotel						
		struction works	form the foreg	round, while th	e open sea of Tu	ang Chung Bay a			mporary barging point. ue to the occupational/
VSR7	Residential	155	Many	Fair	Yes	Partial	Long	Frequent	High
		nd with a panor	amic view in the	background of	open sea and H				ed at north of this VSR n of view and pay more
VSR8	Occupational	880	Few	Good	Yes	Partial	Medium	Rare	Medium
	Chek Lap Kok Airport Island Count of the south rest of the sou								
VSR9	Recreational	670	Medium	Good	Yes	Partial	Short	Occasional	Medium
	Scenic Hill								
	characterised by the	e Tung Chung H he foothill near	Bay and Chek La Ma Wan Chun	ap Kok South F g form the bacl	Road in the foreg kdrop. Although	ground whilst resident this VSR would	dential building cl	usters (e.g. Tung C	. The existing view is Thung Crescent and Yu t it would have a good

VSR Code	Type of VSR (Residential/ Recreational/ Occupational/ Transportation)	Approx. Closest Viewing Distance to Project (m)	No. of VSRs (Few/ Medium/ Many)	Quality of View (Good/ Fair/ Poor)	Availability of Alternative View (Yes/ No)	Degree of Visibility (Glimpse/ Partial/Full)	Duration of View (Short/ Medium/ Long)	Frequency of View (Rare/ Occasional/ Frequent)	Sensitivity (Low/ Medium/ High)	
VSR10	Residential	60	Many	Good	Yes	Full	Long	Frequent	High	
	is characterised by sensitivity is rated a	s the residents a the natural foot							ne proposed EAP/ EEP of change, the overall	
VSR11	Residential	85	Many	Fair	Yes	Glimpse	Long	Frequent	High	
VSR12	Fu Tung Estate This VSR represent Given residential V Recreational								Tung Chung Crescent. as High . Medium	
V SIXI 2	Lantau North Cou		meanum	0000	105	1 urtiur	Short	occusional	Weddulli	
	This VSR represents existing view toward	s the hikers on H rds north is cha eascape form th	aracterised by the background to	ne on-going reo this view. Whi	clamation area. ' le this VSR wou	The HKIA, Hong	Kong Boundary	Crossing Facilities	ion) Country Park. The (HKBCF) island and od quality of view and	
VSR13	Residential	120	Many	Fair	Yes	Partial	Long	Frequent	High	
	Yu Tai Court	•								
	This VSR represents the residents at Yu Tai Court near Tung Chung Road. The existing view towards the proposed temporary works area is characterised by mature plantation and low-rise residential village buildings in a close view. And the natural foothills form the background to this view. Given residential VSR would have a long duration of view and pay more attention on any visual of change, the overall sensitivity is rated as High .									
VSR 14	Residential	80	Many	Fair	Yes	Partial	Long	Frequent	High	
	Ma Wan New Village This VSR represents the residents at Ma Wan New Village near Tung Chung Road, and have a similar view of VSR13 Yu Tai Court. Given residential VSR would have a long duration of view and pay more attention on any visual of change, the overall sensitivity is rated as High .									
VSR15	Transportation	2	Medium	Fair	Yes	Glimpse	Short	Occasional	Low	

VSR Code	Type of VSR (Residential/ Recreational/ Occupational/ Transportation)	Approx. Closest Viewing Distance to Project (m)	No. of VSRs (Few/ Medium/ Many)	Quality of View (Good/ Fair/ Poor)	Availability of Alternative View (Yes/ No)	Degree of Visibility (Glimpse/ Partial/ Full)	Duration of View (Short/ Medium/ Long)	Frequency of View (Rare/ Occasional/ Frequent)	Sensitivity (Low/ Medium/ High)
		dside amenity j	planting along th	ne roads. With a	high speed pass				d by the traffic roads, limpse of the proposed
VSR16	Residential	10	Many	Good	Yes	Full	Long	Frequent	High
	nullah at the foregree visual of change, the	ound and the A e overall sensiti	irport Island in vity is rated as I	the background High .	l. Given residen	tial VSR would h	ave a long duration	on of view and pay	d by Wong Lung Hang more attention on any
VSR17	Recreational	150	Medium	Fair	Yes	Glimpse	Medium	Occasional	Medium
	characterized by her	ritage structures	of Tung Chung	Fort, low-rise	village buildings	and scattered veg	getation in a close	view. The high-rise	w towards northwest is buildings of Yat Tung the overall sensitivity
VSR18	Residential	85	Many	Fair	Yes	Partial	Long	Frequent	High
	Mun Tung Estate The VSR represents the residents of Mun Tung Estate which is located at Chun Mun Road. The existing view towards north is characterised by the Wong Lung Hang nullah estuary and Yat Tung Estate in the foreground, and Tung Chung Bay and HKIA form the background to this view. Given residential VSR would have a long duration of view and pay more attention on any visual of change, the overall sensitivity is rated as High.								
VSR19	Residential	75	Many	Fair	Yes	Partial	Long	Frequent	High
	Ha Ling Pei Village The VSR represents the residents of Ha Ling Pei Village which is located along Tung Chung Road. The existing view towards north is facing to the nullah, roadside planting and Yat Tung Estate. Given residential VSR would have a long duration of view and pay more attention on any visual of change, the overall sensitivity is rated as High .								
			uite. Given lesk					intion on any visual	of change, the overall

VSR Code	Type of VSR (Residential/ Recreational/ Occupational/ Transportation)	Approx. Closest Viewing Distance to Project (m)	No. of VSRs (Few/ Medium/ Many)	Quality of View (Good/ Fair/ Poor)	Availability of Alternative View (Yes/ No)	Degree of Visibility (Glimpse/ Partial/ Full)	Duration of View (Short/ Medium/ Long)	Frequency of View (Rare/ Occasional/ Frequent)	Sensitivity (Low/ Medium/ High)
	Ma Wan Chun Vil			T 7'11 1 1 1	• • • • •			· · · · ·	
		ige houses with	the small pier	in the foregrou	ind, some high-i	rise residential bu	ildings are visible	form the backgrou	s north is characterised nd to this view. Given h .
VSR21	Residential	175	Medium	Fair	Yes	Partial	Medium	Occasional	Medium
	Future Tung Chun	ng West Prome	nade						
		is characterised	l by some high-						tructures. The existing luration of view at this
VSR22	Transportation	285	Medium	Fair	Yes	Glimpse	Short	Occasional	Low
	Tung Chung Line	& Airport Exp	ress Line	·					
		adside amenity	planting along t	he roads and op	pen sea view. W	ith a high-speed p			ion is characterised by d experience a glimpse

10.6.4 Summary of VSRs and their Sensitivity

- 10.6.4.1 Given residential VSRs would have a long duration of view and pay more attention on any visual of change, included VSR2 Planned Tung Chung New Town Extension, VSR3 Ying Tung Estate, VSR4 The Visionary, VSR5 Caribbean Coast, VSR7 Coastal Skyline, VSR10 Tung Chung Crescent, VSR11 Fu Tung Estate, VSR13 Yu Tai Court, VSR14 Ma Wan New Village, VSR16 Yat Tung Estate, VSR18 Mun Tung Estate, VSR 19 Ha Ling Pei Village and VSR 20 Ma Wan Chun Village. Hence, the sensitivities are rated as high.
- **10.6.4.2** VSR6 Sheraton Hong Kong Tung Chung Hotel, VSR8 Chek Lap Kok Airport Island, VSR17 Tung Chung Fort and VSR 21 Future Tung Chung West Promenade experience with good/ fair quality of view. However, given the VSRs would only have short to medium duration of view, the VSRs would therefore have medium sensitivities on any visual changes.
- **10.6.4.3** VSR9 Scenic Hill, VSR12 Lantau North Country Park represent the hikers which would experience good quality of view. However, given the VSRs would only have short duration of view. Hence, the sensitivities are considered as medium.
- **10.6.4.4** VSR1 North Lantau Highway, VSR15 Yu Tung Road and VSR 22 Tung Chung Line & Airport Express represent the transient reciters with short duration of view, the overall sensitivities are rated as low.

10.7 Landscape and Visual Impact Assessment before Mitigation

10.7.1 Aims of Review

- **10.7.1.1** A review of the existing and planned development framework for the proposed development and context has been conducted to:
 - Assist with identification of existing landscape resources and potentially sensitive receivers;
 - Highlight potential issues for neighbouring planned land uses;
 - Optimise the compatibility of the development with the surrounding land uses.

10.7.2 Sources of Landscape and Visual Impact

- **10.7.2.1** As mentioned in **Section 10.2.5**, there are number of construction and temporary works within the project boundary. Some landscape and visual impacts would therefore be generated.
- **10.7.2.2** During the construction stage, potential landscape visual impacts will be caused by the following:

- **Construction Works** construction of the at-ground structures, such as realignment of the existing at-grade TCL section from Tuen Mun Chek Lap Kok connection point to south of Ying Tung Estate, TCE Station, TCW Station, station entrance, vent shaft structures, EAP/ EEP, would generate landscape and visual impacts due to the appearance of construction activities and loss of vegetation cover;
- **Temporary Works** temporary works including site offices, boundary fencing/ hoarding, parking areas, storage of construction equipment and mechanical plant, as well as operation of barging point, would generate landscape and visual impacts as a result of these operation intruding into existing view and generally low aesthetical value of these types of structures; and
- **Night-time Lighting** night-time lighting such as security floodlights of the construction site would cause adverse visual impacts.
- **10.7.2.3** During operational phase, the potential residual landscape and visual impacts would be related to the permanent loss of landscape resources and above-ground structures:
 - Operation of TCE Station and TCW Station with Associated Facilities operation of both stations with the associated facilities such as EAP/EEP buildings, station entrances, vent shaft structures, would generate visual impacts due to the visibility of new structures; and
 - **Residual Impacts** residual impacts from loss of trees, vegetation and recreational facilities during the construction phase would generate landscape impacts and visual impacts.

10.7.3 Magnitude of Change to Landscape Resources and Landscape Character Areas

10.7.3.1 The magnitude of change on LRs and LCAs are presented in **Table 10.7** and **Table 10.8**.

ID Code		Physical Extent of the Impact (Small/ Medium/ Large) ^[3]	Compatibility with Surrounding Landscape (Good/ Fair/ Poor)		Duration of Impact (Temporary/ Permanent)		Reversibility of Change (Reversible/ Irreversible)	Magnitude of Change (Large/ Intermediate/ Small/ Negligible)			
			CON [1]	OP [2]	CON	OP		CON	OP		
LR1	Secondary Woodland	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LR2	Shrubland & Grassland	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Plantation	Small (1.26 ha, <5%)	Poor	Poor	Temporary	Permanent	Irreversible	Small	Small		
LR3	It is anticipated that the construction work of the EAP/EEP would involve site clearance and earthworks within this LR, these works would induce temporary and irreversible landscape impact. Therefore, the compatibility is considered to be poor in construction and operational phase. Given only small portions of LR3 will be affected, the magnitude of change of the LRs are rated as 'Small' during both construction and operational stages.										
LR4	Fung Shui Woodland	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Agricultural Land	Medium (1.79 ha, 5.5%)	Poor	Poor	Temporary	Permanent	Irreversible	Large	Large		
LR5	During construction phase, potential landscape impacts to the LR would be arisen from the site formation works for the proposed vent shaft structures and TCW Station, which would be induce temporary and reversible impact to the existing agricultural land. Given to its medium physical extent of impact and the natural landscape, the magnitude of change is considered to be <u>'Large'</u> during both construction and operational stage.										
LR6	Mangrove	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LR7	Reedbed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LR8	Coastal Water	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LR9	Transitional Water	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LR10a	Natural Watercourse	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LR10b	Channelised Watercourse	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

 Table 10.7 Magnitude of Change on LRs

ID Code	LRs	Physical Extent of the Impact (Small/ Medium/	Compatibility with Surrounding Landscape (Good/ Fair/ Poor)		Duration of Impact (Temporary/ Permanent)		Reversibility of Change (Reversible/ Irreversible)	Magnitude of Change (Large/ Intermediate/ Small/ Negligible)		
		Large) ^[3]	CON [1]	OP [2]	CON	OP		CON	OP	
LR11a	Mudflat	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LR11b	Rocky Coastline	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LR12	Artificial Seawall	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Major Transport Corridor	Large (7.96 ha, 22%)	Fair	Fair	Temporary	Permanent	Irreversible	Intermediate	Small	
LR13a	The construction of the proposed TCL realignment would involve breaking out hard surface and earthworks near this LR, these works would induce temporary and irreversible landscape impact, hence the magnitude of change is considered as <u>"Intermediate"</u> during construction stage. Consider the man-made nature of this LR and the excavated area will be reinstated after the construction. Thus, the magnitude of change is considered as <u>"Small"</u> during operation stage.									
	Road & Urban Infrastructure	Medium (4.39 ha, 11%)	Fair	Fair	Temporary	N/A	Reversible	Small	Negligible	
LR13b	Similar to the discussion in LR13a, the construction works of TCW station would induce temporary and reversible landscape impact, the magnitude of change is considered as <u>"Small"</u> during construction stage. Consider the works would be compatible with the existing landscape and the excavated area will be reinstated after the construction. Thus, the magnitude of change is considered as <u>'Negligible'</u> during operation stage.									
LR14	Village Type Development	Small (0.25 ha, <5%)	Fair	N/A	Temporary	N/A	Reversible	Small	N/A	
LK14	Similar to the discussion in LR13b, the construction of TCW station would induce temporary and reversible landscape impact to this LR during construction, the magnitude of change is considered as <u>'Small'</u> during construction stage.									
	Urbanised Development	Small (5.50 ha, <5%)	Fair	Fair	Temporary	Permanent	Irreversible	Small	Small	
LR15	The construction of TCW station and barging facilities would induce temporary and irreversible landscape impact to this LR. Given to its relatively small works extent and the works are compatible with the surrounding urban landscape, the magnitude of change is considered as <u>'Small'</u> during construction and operational stage.									
LR16	Ongoing Reclamation Area	Medium (5.48 ha, 6%)	Fair	Fair	Temporary	Permanent	Irreversible	Negligible	Small	
	The proposed TCE Station will be erected at the existing reclaimed land, it is considered the works are compatible with the surrounding landscape as the adjacent reclaimed land is under construction. The magnitude of change during construction is regarded to be <u>Negligible</u> . During operation, the landscape impact is									

ID Code	LRs	Physical Extent of the	Compatibility with Surrounding Landscape		· • •		Reversibility of Change	(Large/ Int	e of Change termediate/
		Impact (Small/ Medium/	(Good/ Fa	air/ Poor)	Permanent)		(Reversible/ Irreversible)	Small/ Negligible)	
		Large) ^[3]	CON [1]	OP [2]	CON	OP		CON	OP
	considered to be permanent and the chastage.	ange is irreversible.	Given the low	sensitivity of t	his area, the m	agnitude of ch	hange is regarded	to be <u>'Small'</u> dı	iring operation

[1] CON – Construction Phase.

[2] OP – Operational Phase

[3] Large physical extent of impact – >20% of total LR/ LCA area within 500m assessment area. Medium physical extent of impact – 5 to 20% of total LR/ LCA area within 500m assessment area. Small physical extent of impact – <5% of total LR/ LCA area within 500m assessment area.</p>

[4] N/A – As the Project Site will not overlap with the LR/ LCA, so will not be affected.

Table 10.8 Magnitude of Change on LCAs

ID Code	LCAs	Physical Extent of the Impact (Small/ Medium/ Large) ^[3] Compatibili Surrounding L (Good/ Fair		g Landscape	andscape Permanent)			Magnitude of Change (Large/ Intermediate/ Small/ Negligible)			
		Laige	CON [1]	OP [2]	CON ^[1]	OP [2]	Irreversible)	CON [1]	OP [2]		
LCA1	Inshore Water Landscape	N/A ^[4]	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LCA2	Strait Landscape	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LCA3	Inter-tidal Coast Landscape	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	Coastal Upland and Hillside Landscape	Small (0.38 ha, <5%)	Poor	Poor	Temporary	Permanent	Irreversible	Small	Small		
LCA4	LCA4 Coastal Upland and Hillside Landscape is considered as high sensitivity due to its natural landscape. Given to its relatively small works extent, there will be no significant changes on this LCA after the construction of the proposed development, therefore the magnitude of change is rated as 'Small' in construction stage and operational stage.										
LCA5	Settled Valley Landscape	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
LCA6	Upland Hillside Landscape	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

ID Code	LCAs	Physical Extent of the Impact (Small/ Medium/ Large) ^[3]	Compatil Surrounding (Good/ Fa	g Landscape	Duration ((Temp Perma	orary/	Reversibility of Change (Reversible/	Magnitude of Change (Large/ Intermediate/ Small/ Negligible)			
		Large)	CON [1]	OP [2]	CON [1]	OP [2]	Irreversible)	CON [1]	OP [2]		
	Reclamation / Ongoing Major Development Landscape	Medium (12.67ha, 9.4%)	Fair	Fair	Temporary	Permanent	Irreversible	Negligible	Small		
LCA7	The proposed TCE station with sever with the surrounding landscape as the operation, it is considered the propose in the operational stage.	e adjacent reclaime	d land is under	r construction,	and hence the	magnitude of	change is regard	led to be <u>'Neglig</u>	ible'. During		
	Transportation Corridor Landscape	Medium (6.29 ha, 11%)	Fair	Fair	Temporary	Permanent	Irreversible	Intermediate	Small		
LCA8	Realignment of the existing at grade area would be affected by the const proposed realignment is considered magnitude of change is considered to	ruction works, hen to be compatible v	ce the magnitu with the existin	ide of change ig railway, the	is considered a	as <u>"Intermed</u>	iate" during cor	struction stage.	However, the		
LCA9	Mixed Modern Comprehensive Urban Development Landscape	Small (4.25 ha, <5%)	Fair	Fair	Temporary	Permanent	Irreversible	Small	Small		
LCA	The proposed TCW station and some temporary works areas are proposed within this LCA. As the majority of the LCA will be preserved, the overall compatibility with surrounding landscape is fair. The magnitude of change is therefore considered to be <u>'Small'</u> in construction stage and operational stage.										
	Urban Peripheral Village and Rural Fringe Landscape	Small (2.51 ha, <5%)	Fair	N/A	Temporary	Permanent	Irreversible	Small			
	Tinge Landscape	<570)							Small		
LCA10	Similar to the discussion in LCA9, the is considered as <u>'Small'</u> during both	he construction of T	CW station an	d temporary w	orks would inc	luce landscap	e impact to this I	CCA, the magnit			
LCA10 LCA11	Similar to the discussion in LCA9, the	he construction of T	CW station an N/A	d temporary w N/A	orks would ind	luce landscap N/A	e impact to this I N/A	CA, the magnit			
	Similar to the discussion in LCA9, the is considered as <u>'Small'</u> during both	he construction of T stages.			1	1			ude of change		

[1] CON – Construction Phase.

[2] OP – Operational Phase

- [3] Large physical extent of impact >20% of total LR/ LCA area within 500m assessment area. Medium physical extent of impact – 5 to 20% of total LR/ LCA area within 500m assessment area. Small physical extent of impact – <5% of total LR/ LCA area within 500m assessment area.</p>
- [4] N/A As the footprint Project will not overlap with the LR/ LCA, so will not be affected.

10.7.4 Impacts on Tree Identified after Board Tree Survey

- **10.7.4.1** The broad tree and vegetation survey have identified 17 nos. of protected species are recorded (12 *Lagerstroemia speciosa* 大花紫薇, and 5 *Magnolia denudata* 玉蘭) during the survey. 12 nos. of *Lagerstroemia speciosa* 大花紫薇 can be found at the roadside amenity planters near Ping Yat Estate and Yu Tung Road; and 5 nos. of *Magnolia denudata* 玉蘭 are recorded along Shun Tung Road. Based on the development layout, there is no tree of conservation status or particular interest will be affected by the proposed development.
- **10.7.4.2** Based on the development layout and the distribution of the existing trees, this preliminary tree impact assessment suggests that about 30% of the trees within the tree assessment boundary could be preserved. Regarding to the development layout of railway line extension, most of the tree preservation are within the LR of Secondary Woodland in TCW. Almost 70% of trees within the development boundary are affected under the LRs of Agricultural Land (LR5), Plantation (LR3), Urbanised Development (LR15) and Road and Infrastructure (LR13b). A large scale of Agricultural land at TCW will be affected by sites designated for the future railway station.
- 10.7.4.3 A summary of the breakdown of trees that would need to be felled / transplanted is given in Table 10.9 below. The location of different construction areas is shown in <u>Figure 10.9</u>.

Works Areas /	No of Trees	Remarks	Affected LRs and LCA
Work Sites	Affected (approx.)		
TCE Station	0	N.A.	LR16; LCA7
At-grade Track	0	N.A.	LR13a; LCA8
Barging Facility	10 (Fell &	Species include Acacia	LR15 (Approx. 10 nos.);
	compensate)	auriculiformis 耳果相思,	LCA7 (Approx. 10 nos.)
		Ficus viren 黃 葛 樹,	
		Leucaena leucocephala 銀	
		合歡	
TBM Launching/	150 (Fell &	Species include but not	LR13b (Approx. 20 nos.);
Retrieval Shaft Near	compensate)	limited to Delonix regia 鳳	LR15 (Approx. 130 nos.);
Tung Chung Crescent		凰木, Ficus macrocarpa 細	LCA9 (Approx. 150 nos.)
		葉榕, Khaya Senegalensis	
		非洲楝 and Roystonea regia	
		大王椰子 etc.	
EAP / EEP	90 (Fell &	All these trees are within an	LR3 (Approx. 90 nos.);
	compensate)	artificial slope west of Shun	LCA9 (Approx. 90 nos.)
		Tung Road. Species include	
		but not limited to Albizia	

Table 10.9 Summary of breakdown of felled/ transplanted tree by different construction areas

No of Trees	Remarks	Affected LRs and LCA
Affected (approx.)		
	lebbeck 大葉合歡,	
	Eucalyptus robusta 大葉桉	
	and Casuarina equisetifolia	
	木麻黃 etc.	
1,600 (Fell &	Most of these are fruit trees	LR5 (Approx. 1410 nos.);
compensate)	and are within orchids.	LR15(Approx. 190 nos.);
	Species include but not	LCA7 (Approx. 190
		nos.); LCA10 (Approx.
		1410 nos.)
	etc.	
		LR13b (Approx. 70 nos.)
-	*	& LR15 (Approx. 30
30 (Transplant)		nos.); LCA9 (Approx 100
	-	nos.)
	1 ,	
190 (Eall &	• · · · · ·	ID2(Ammon 120 mos)
		LR3(Approx. 130 nos.);
	*	LR15 (Approx. 190 nos.);
140 (Transpiant)	0	LCA7 (Approx. 130 nos.); LCA10 (Approx.
		190 nos.)
		170 1108.7
	-	
	Affected (approx.) 1,600 (Fell &	Affected (approx.)Iebbeck 大葉合 軟, Eucalyptus robusta 大葉桉 and Casuarina equisetifolia 木麻黃 etc.1,600 (Fell &Most of these are fruit trees

10.7.4.4 The following **Table 10.10** presents a summary of the breakdown of trees that would need to be fell and compensated / transplant by the entire Project.

	Qty, Approx							
Item	Fruit Trees Road-Side		Trees on	Others*	Total			
		Trees	Artificial					
			Slope					
Tree to be felled &	1,410	250	90	350	2,100			
compensated								
Tree to be transplanted	Nil	170	Nil	0	170			
Total	1,410	430	90	350	2,270			

Table 10.10 Summary of breakdown of felled/ transplanted tree by the entire Project

Note:

* Others refer to those in the barging facility, TBM launching/ retrieval shaft and non-fruit trees at the TCW Station.

10.7.5 Significance of Impact on Landscape Resources

10.7.5.1 The potential significance of landscape impacts during the construction and operational phases before mitigation is provide in **Table 10.11** below.

ID Code	LRs	LR Sensitivity (High/ Medium/	Magnitude (Large/ Int Small/ Neg	ermediate/	Impact Significance Before Mitigation (Substantial/ Moderate/ Slight/ Insignificant) ^[3]		
		Low)	CON [1]	OP [2]	CON ^[1]	OP [2]	
LR1	Secondary Woodland	High	N/A	N/A	N/A	N/A	
LR2	Shrubland & Grassland	Medium	N/A	N/A	N/A	N/A	
LR3	Plantation	Medium	Small	Small	Moderate	Moderate	
LR4	Fung Shui Woodland	High	N/A	N/A	N/A	N/A	
LR5	Agricultural Land	Medium	Large	Large	Moderate / Substantial	Moderate / Substantial	
LR6	Mangrove	High	N/A	N/A	N/A	N/A	
LR7	Reedbed	High	N/A	N/A	N/A	N/A	
LR8	Coastal Water	Medium	N/A	N/A	N/A	N/A	
LR9	Transitional Water	High	N/A	N/A	N/A	N/A	
LR10a	Natural Watercourse	High	N/A	N/A	N/A	N/A	
LR10b	Channelised Watercourse	Low	N/A	N/A	N/A	N/A	
LR11a	Mudflat	High	N/A	N/A	N/A	N/A	

Table 10.11 Significance of impacts on LRs

^{10.7.4.5} A detailed Tree Felling Application process will be carried out at a later detail design stage, to finalise proposed treatment to trees (to be felled, transplanted or retained) and to allocate compensatory planting locations such as available open space, parks and streetscape in compliance with LAO PN 2/2020 and DEVB TC(W) 4/2020 Tree Preservation.

ID Code	LRs	LR Sensitivity (High/ Medium/		of Change cermediate/ gligible) ^[3]	Impact Significance Before Mitigation (Substantial/ Moderate/ Slight/ Insignificant) ^[3]		
		Low)	CON ^[1]	OP ^[2]	CON ^[1]	OP ^[2]	
LR11b	Rocky Coastline	High	N/A	N/A	N/A	N/A	
LR12	Artificial Seawall	Low	N/A	N/A	N/A	N/A	
LR13a	Major Transport Corridor	Low	Intermediate	Small	Moderate	Slight	
LR13b	Road & Urban Infrastructure	Low	Small	Negligible	Slight	Insignificant	
LR14	Village Type Development	Medium	Small	N/A	Moderate	N/A	
LR15	Urbanised Development	Low	Small	Small	Slight	Slight	
LR16	Ongoing Reclamation Area	Low	Negligible	Small	Insignificant	Slight	

[1] CON – Construction Phase.

[2] OP – Operational Phase

[3] N/A - As the Project Site will not overlap with the LR/LCA, so will not be affected.

10.7.6 Summary of Significance of Impacts on Landscape Resources

- **10.7.6.1** In summary, no LRs with high sensitivity will be in conflict with any proposed work areas.
- 10.7.6.2 Potential landscape impacts to the LR5 would be arisen from the site formation works for the proposed vent shaft structures and TCW Station, which would be induce temporary and reversible impact to the existing agricultural land. Given to its medium physical extent of impact and its medium sensitivity, the magnitude of change is considered to be Large during both construction and operational stage. Therefore, this LR will experience Moderate/ Substantial adverse impacts for both stages.
- **10.7.6.3** Small portions of LR3 Plantation will be in direct conflict with the EAP/EEP. Given only small portions of LR3 will be affected, the magnitude of change of the LRs are rated as **Small** during both construction and operational stages. Since the proposed development will have poor compatibility with surrounding landscape with irreversible changes, LR3 are predicted to experience **Moderate** impacts during both stages.
- 10.7.6.4 Realignment of the existing at-grade TCL section will be erected at LR 13a Major Transport Corridor. As the proposed realignment works would induce temporary and irreversible landscape impact, hence the magnitude of change is considered as Intermediate during construction stage. Consider the man-made nature of this LR and the excavated area will be reinstated after the construction, the magnitude of change is considered to be Small during operation stage. Hence, this LR will

experience **Moderate** adverse impacts during construction stages and **Slight** impact during operation stages.

- **10.7.6.5** The proposed TCW station, with temporary works areas included barging point, will be fallen within LR15 Urbanised Development. As the majority of the LR will be preserved, the overall compatibility with surrounding landscape is fair. The magnitude of change is therefore considered to be **Small**. The LR will also experience **Slight** adverse impacts during both stages.
- **10.7.6.6** The proposed TCE Station will be erected at the existing reclaimed land LR16 Ongoing Reclamation Area. It is compatible with the surrounding landscape as the adjacent reclaimed land is for development as well during construction stages. The magnitude of change is regarded to be **Negligible**. After construction, the landscape impact is considered to be permanent and the change is irreversible. Due to the small proportion of the LR will be affected with the good compatibility, the magnitude of change is regarded to be **Small**. Hence, the LR is predicted to experience **Insignificant** adverse impact at construction and **Slight** impact after construction.
- **10.7.6.7** Several temporary works will be scattered within LR13b Road & Urban Infrastructure, and LR14 Village Type Development. The landscape impacts will be only caused before operation. For LR13b Road & Urban Infrastructure, given it is compatible with the surrounding landscape as the adjacent landscape, the magnitude of change is considered to be **Negligible**. For LR14 Village Type Development, as the overall sensitivity is rated as medium. And the magnitude of change is regarded to be **Small** given only a small portion will be affected. Hence, as different magnitude of changes, the LR13b and LR14 are predicted to experience **Insignificant** and **Moderate** impact respectively.
- **10.7.6.8** The remaining LRs will experience insignificant impacts, as the LRs will not be affected by the Project.

10.7.7 Significance of Impact on Landscape Character Areas

10.7.7.1 The potential significance of landscape impacts during the construction and operational phases before mitigation is provide in **Table 10.12** below.

ID Code	LCAs	LCA Sensitivity (High/ Medium/	(Large/ Int	e of Change termediate/ gligible) ^[3]	Impact Significance Before Mitigation (Substantial/ Moderate/ Slight/ Insignificant) ^[3]		
		Low)	CON [1]	OP [2]	CON [1]	OP [2]	
LCA1	Inshore Water Landscape	Low	N/A ^[3]	N/A	N/A	N/A	
LCA2	Strait Landscape	Medium	N/A	N/A	N/A	N/A	

Table 10.12 Significance of impacts on LCAs

ID Code	LCAs	LCA Sensitivity (High/ Medium/	Small/ Ne	ermediate/ gligible) ^[3]	Impact Significance Before Mitigation (Substantial/ Moderate/ Slight/ Insignificant) ^[3]		
		Low)	CON ^[1]	OP ^[2]	CON ^[1]	OP ^[2]	
LCA3	Inter-tidal Coast Landscape	High	N/A	N/A	N/A	N/A	
LCA4	Coastal Upland and Hillside Landscape	High	Small	Small	Moderate	Moderate	
LCA5	Settled Valley Landscape	High	N/A	N/A	N/A	N/A	
LCA6	Upland Hillside Landscape	High	N/A	N/A	N/A	N/A	
LCA7	Reclamation / Ongoing Major Development Landscape	Low	Negligible	Small	Insignificant	Slight	
LCA8	Transportation Corridor Landscape	Low	Intermediate	Small	Moderate	Slight	
LCA9	Mixed Modern Comprehensive Urban Development Landscape	Low	Small	Small	Slight	Slight	
LCA10	Urban Peripheral Village and Rural Fringe Landscape	Medium	Small	Small	Moderate	Moderate	
LCA11	Airport Landscape	Low	N/A	N/A	N/A	N/A	
LCA12	Institutional Landscape	Medium	N/A	N/A	N/A	N/A	
LCA13	Residential Urban Landscape	Low	N/A	N/A	N/A	N/A	

[1] CON – Construction Phase.

[2] OP – Operational Phase

[3] N/A – As the Project Site will not overlap with the LR/ LCA, so will not be affected.

10.7.8 Summary of Significance of Impacts on Landscape Character Plans

- 10.7.8.1 LCA4 Coastal Upland and Hillside Landscape is considered as high sensitivity due to the natural landscape. However, as the majority of the LCA will be preserved, the magnitude of change is therefore considered to be Small. The LCA will experience Moderate adverse impacts during both construction and operational phases.
- **10.7.8.2** Realignment of the existing at grade TCL section will be erected at LCA8 Transportation Corridor Landscape, the medium extent of the existing landscape area would be affected by the construction works, the magnitude of change is considered as <u>"Intermediate"</u> during construction stage. However, the proposed

realignment is considered to be compatible with the existing railway, there will be no significant changes on this LCA after the construction, the magnitude of change is considered to be <u>'Small'</u> during operation stage. Hence, the LCA is predicted to experience **Moderate** adverse impact at construction and **Slight** impact after construction.

- 10.7.8.3 The proposed TCE station with several temporary work areas (included barging point) will be erected at the existing reclaimed land LCA7 Reclamation/ Ongoing Major Development Landscape. It is fully compatible with the surrounding landscape as the adjacent reclaimed land is for development as well during construction stages, and hence the magnitude of change is regarded to be Negligible. After construction, the landscape impact is considered to be permanent and the change is irreversible. Due to the small proportion of the LCA will be affected with the good compatibility, the magnitude of change is regarded to be Small. Hence, the LCA is predicted to experience Insignificant adverse impact at construction and Slight impact after construction.
- **10.7.8.4** The proposed TCW station and some temporary works areas will be within LCA9 Mixed Modern Comprehensive Urban Development Landscape. As the majority of the LCA will be preserved, the overall compatibility with surrounding landscape is fair. The magnitude of change is therefore considered to be **Small**. The LCA will also experience **Slight** adverse impacts during both stages.
- **10.7.8.5** A temporary work area next to Ma Wan New Village and a small extent of TCW Station will be erected within LR10 Urban Peripheral Village and Rural Fringe Landscape. As the overall sensitivity is rated as medium. And the magnitude of change is regarded to be **Small** given only a small portion will be affected. Hence, the LCA is predicted to experience **Moderate** impact during both phases.
- **10.7.8.6** The remaining LCAs will not have any impacts caused by the Project.

10.7.9 Magnitude of Change to VSRs

10.7.9.1 The potential sources of visual impact due to the Project are described in **Section 10.2.5**. The magnitude of visual change depends on a number of factors as outlined in the methodology of visual assessment, and with considering of the potential sources of visual impact above. The magnitude of change on VSRs is presented in **Table 10.13** below.

 Table 10.13 Magnitude of Change on VSRs

VSR Code	Name	Blockage of View (Full/ Partial/ Nil)	Approx. Closest Viewing Distance to Project	Scale of Development (Large/ Medium/ Small)	wit Surrou Lands (Good/	Compatibility with Surrounding Landscape (Good/ Fair/ Poor/ N/A ^[3])		Duration of Impact (Temporary/ Permanent)		Reversibility of Change (Reversible/ Irreversible)		e of Change cermediate/ egligible)	
		,	(m)	,	CON ^[1]	OP ^[2]	CON [1]	OP ^[2]	CON [1]	OP ^[2]	CON ^[1]	OP ^[2]	
	Description of impacts duri	ing Construc	tion and Op	eration			•	•	•	•			
	North Lantau Highway	Partial	110	Small	Fair	Fair	Temporary	Permanent	Irreversible	Irreversible	Small	Small	
VSR1	The VSR would mainly experience view towards the proposed TCE Station with TCL realignment. As the blockage of roadside amenity planting along NLH, it is anticipated that the majority of construction activities before operation would be screened. Similar to construction stage, the partial extent of the station would also be screened after operation. Given the visual changes would be considered as small without any mitigation measures, the magnitude of change for both stages are rated as Small .												
	Planned Tung Chung New Town Extension	Partial	185	Medium	Fair	Fair	Temporary	Permanent	Irreversible	Irreversible	Small	Small	
VSR2	This VSR would mainly experience view towards the proposed TCE Station with TCL realignment. The view is dominated by the existing railway and NLH in the foreground. Given it is compatible with the surrounding landscape as the adjacent reclaimed land is for development as well during construction stages, the magnitude of changes during construction stage is rated as Small .												
	After operation, it would also be compatible with surrounding transportation corridor with facilities, and slight change of visual character for this view is predicted for this VSR, the magnitude of change during operational stages is therefore rated as Small , even it is located in a close distance.												
	Ying Tung Estate	Partial	125	Small	Good	Fair	Temporary	Permanent	Irreversible	Irreversible	Small	Negligible	
VSR3	This VSR would experience compatible with the surround is rated as Small .												

VSR Code	Name	Blockage of View (Full/ Partial/ Nil)	Approx. Closest Viewing Distance to Project	Scale of Development (Large/ Medium/ Small)	Compa wit Surrou Lands (Good/ Poor/ N	th Inding Scape / Fair/	Duration of Impact (Temporary/ Permanent)		Reversibility of Change (Reversible/ Irreversible)		Magnitude of Change (Large/ Intermediate/ Small/ Negligible)		
		,	(m)		CON ^[1]	OP ^[2]	CON [1]	OP ^[2]	CON [1]	OP ^[2]	CON [1]	OP ^[2]	
	Description of impacts duri	ing Construc	tion and Op	eration									
	The Visionary	Partial	135	Small	Good	Good	Temporary	Permanent	Reversible	Irreversible	Negligible	Negligible	
VSR4	This VSR would experience view towards the proposed TCE Station with TCL realignment. Given most of the TCE Station with realignment would be blocked by Ying Tung Estate, this VSR would only have a glimpse view towards the proposed station in operation stage and the temporary work structures during construction stage. Considering the view towards the construction and operation would have insignificant visual change, the magnitude of change during both stages are rated as Negligible .												
	Caribbean Coast	Partial	180	Small	Fair	Good	Temporary	Permanent	Reversible	Irreversible	Small	Negligible	
VSR5	This VSR would experience view towards the proposed TCE Station with TCL realignment, as well as the temporary work structures next to Tung Chung North Park during the construction stage. The proposed station is compatible with the surrounding landscape as the adjacent reclaimed land is for development as well during construction stages. Meanwhile, it would be also compatible with surrounding transportation corridor with facilities during operational stage, slight change of visual character for this view is predicted for this VSR. For the temporary work area, given it is compatible with the surrounding landscape as the adjacent small-scale infrastructures, e.g. Tung Chung Traction Substation, and the temporary work area would be returned for development. Hence, the magnitude of change during construction is rated as Small and Negligible during construction and operational stages respectively.												
	Sheraton Hong Kong Tung Chung Hotel	Nil	65	Medium	Fair	N/A	Temporary	N/A	Reversible	N/A	Small	N/A	
VSR6	This VSR would mainly experience view towards the temporary barging point. Given the proposed barging point is compatible with the surrounding adjacent construction activities, the magnitude of change during construction is considered as Small . Besides, as the temporary work area would be returned for development after operation, no visual changes would be caused during operational stage.												
	1 1			-	-		-				G		
	Coastal Skyline	Partial	155	Small	Fair	N/A	Temporary	N/A	Reversible	N/A	Small	N/A	
VSR7	This VSR would mainly exp construction activities, the m	agnitude of cl	nange during	construction is c	considered a	as Small .	-			-	with the surrou	nding adjacent	
	Besides, as the temporary wo	ork area would	l be returned	for development	t after opera	ation, no v	isual changes	would be caus	ed during oper	ational stage.			
VSR8	Chek Lap Kok Airport Island	Nil	880	Small	Fair	N/A	Temporary	N/A	Reversible	N/A	Negligible	N/A	

VSR Code	Name	Blockage of View (Full/ Partial/ Nil)	Approx. Closest Viewing Distance to Project	Scale of Development (Large/ Medium/ Small)	wi Surrou Lands (Good)	Compatibility with Surrounding Landscape (Good/ Fair/ Poor/ N/A ^[3])		Duration of Impact (Temporary/ Permanent)		Reversibility of Change (Reversible/ Irreversible)		Magnitude of Change (Large/ Intermediate/ Small/ Negligible)	
			(m)		CON ^[1]	OP ^[2]	CON ^[1]	OP ^[2]	CON ^[1]	OP ^[2]	CON [1]	OP ^[2]	
	Description of impacts dur			and Operation ards the temporary barging point. Similar to VSR7, given the proposed barging point is compatible with the surrounding adjacent									
	construction activities of the												
	Besides, as the temporary work area would be returned for development after operation, no visual changes would be caused during operational stage.												
	Scenic Hill	Nil	670	Small	Poor	Poor	Temporary	Permanent	Irreversible	Irreversible	Negligible	Negligible	
VSR9	This VSR would mainly exp to be noticed even it is not co											opment is hard	
	Tung Chung Crescent	Partial	60	Small	Fair	Fair	Temporary	Permanent	Irreversible	Irreversible	Small	Small	
VSR10	This VSR would mainly experience view towards the proposed EAP/ EEP. According to the orientation of this view, it is anticipated that part of the proposed EAP/EEP would be visible from this viewpoint. While irreversible change would be caused in both construction and operational stages, given the small scale of the development, the magnitude of change during construction and operation are rated as Small .												
	Fu Tung Estate	Partial	85	Small	Fair	Fair	Temporary	Permanent	Irreversible	Irreversible	Small	Small	
VSR11	This VSR would experience While irreversible change w operation are rated as Small .	ould be cause											
	Lantau North Country Park	Nil	710	Small	Good	Fair	Temporary	Permanent	Irreversible	Irreversible	Small	Small	
VSR12	The VSR would mainly experience views towards the proposed TCE Station. As a result of the elevated views at far viewing distance, a small scale of station would be noticeable. Due to the small scale of the development from this viewpoint combined, and with good/ fair compatibility with surrounding landscape, the magnitude of change during construction and operation would be considered as Small .												
	Yu Tai Court	Nil	120	Small	Fair	N/A	Temporary	N/A	Reversible	N/A	Small	N/A	
VSR13	This VSR would mainly exp land, it is compatible with the as Small .												
	Besides, as the temporary we	ork area would	l be reversed	after operation,	no visual cl	nanges wo	ould be caused	during operati	onal stage.				

VSR Code	Name	Blockage of View (Full/ Partial/ Nil)	Approx. Closest Viewing Distance to Project	Scale of Development (Large/ Medium/ Small)	Compa wit Surrou Lands (Good/ Poor/ N	th nding scape ' Fair/	Duration (Temp Perma	orary/	Reversibilit (Reve Irreve		Magnitude (Large/ Int Small/ N	ermediate/
		,	(m)	,	CON ^[1]	OP ^[2]	CON [1]	OP ^[2]	CON [1]	OP ^[2]	CON [1]	OP ^[2]
	Description of impacts duri	ing Construc	tion and Op	eration			•	•			•	
	Ma Wan New VillagePartial80MediumFairN/ATemporaryN/AReversibleN/AIntermediateN/A											
VSR14	This VSR would mainly experimentary work areas of the temporary work areas of	emporary wor	k area would	be erected at the	existing va	cant land,	the magnitude	of change dur	ing constructio	n is therefore c		
	Yu Tung Road	Partial	2	Small	Fair	Fair	Temporary	Permanent	Irreversible	Irreversible	Small	Small
VSR15	The VSR would mainly experience views towards the proposed TCW Station with its vent shaft structures. As a result of blockage of roadside trees alongside, only small portion of the proposed station would be noticeable during both construction and operational phases. Due to the small scale of the development in the view combined with a fair compatibility with surrounding modern urban landscape, the magnitude of change during construction and operation are rated as Small .											
	Yat Tung Estate	Nil	10	Medium	Fair	Fair	Temporary	Permanent	Irreversible	Irreversible	Intermediate	Intermediate
VSR16	This VSR would mainly exp station and its vent shaft work views would include appeara Due to moderate scale of the operation is considered to be	ks would be v ince of new To e developmen	isible. Views CW Station t in the view	s towards the con with its vent shaf	struction we	orks woul	d involve site c	learance, site	formation and	erection of bui	ldings' structure	s. Operational
	Tung Chung Fort	Nil	150	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Negligible	Negligible
VSR17	The view towards the proposed TCW would be fully screened by the roadside tree planting along Yu Tung Road and the extent of the proposed works would not be visible from this view. Due to the blockage of the natural vegetation in the view, the magnitude of change during construction and operation is considered to be Negligible .											
	Mun Tung Estate	Partial	85	Small	Fair	Fair	Temporary	Permanent	Reversible	Irreversible	Small	Small
VSR18	The VSR would mainly expetitive towards the Project would in station with its vent shaft strue. With the small scale of the definition of	volve the erec actures and sta	tion of new l	built station and to es would be visib	emporary w le. Given th	orks durin e compati	ng construction bility of the de	stage. Further velopment is c	rmore, during o considered to b	operation, only e fair during be	a small extent o	f the proposed

VSR Code	Name	Blockage of View (Full/ Partial/ Nil)	Approx. Closest Viewing Distance to Project	Scale of Development (Large/ Medium/ Small)	Compa wit Surrou Lands (Good/ Poor/ N	th nding scape ' Fair/	Duration (Temp Perma	orary/		y of Change rsible/ rsible)	(Large/ Int	of Change ermediate/ egligible)
		,	(m)	~)	CON ^[1]	OP ^[2]	CON [1]	OP ^[2]	CON [1]	OP ^[2]	CON [1]	OP ^[2]
	Description of impacts dur	ing Construc	tion and Op	peration								
	Ha Ling Pei Village	Nil	75	Medium	Fair	Fair	Temporary	N/A	Reversible	N/A	Intermediate	N/A
VSR19	This VSR would mainly experience view towards the work site of the TCW station. Given its proximity to the proposed work sites, part of the works area would be visible from this viewpoint. Given the temporary work area would be erected at the existing vacant land, the magnitude of change during construction is therefore considered to be Intermediate . As the temporary work area would be reversed after operation, no visual changes would be caused during operational stage.											
	Ma Wan Chung Village	Full	250	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Negligible	Negligible
VSR20	The VSR would only be fact magnitude of change during	0	0		1 1			from this vie	w. As a result	of the full bloc	kage from this	viewpoint, the
	Future Tung Chung West Promenade	Partial	125	Medium	Fair	Fair	Temporary	Permanent	Irreversible	Irreversible	Intermediate	Intermediate
VSR21	The VSR would mainly experience view towards the proposed TCW Station and its temporary work area. The proposed above-ground north vent shaft structure and TCW entrance would be visible to the VSR which may lead to potential visual impact. As a result of the partial blockage from this viewpoint, the magnitude of changing during both construction and operation phase is considered to be intermediate.											
	Tung Chung Line & Airport Express Line	Partial	110	Small	Fair	Fair	Temporary	Permanent	Irreversible	Irreversible	Small	Small
VSR22	The VSR would mainly experience view towards the proposed TCE Station with TCL realignment. As the blockage of roadside amenity planting along NLH, it is anticipated that the majority of construction activities before operation would be screened. Similar to construction stage, the partial extent of the station would also be screened after operation. Given the visual changes would be considered as small without any mitigation measures, the magnitude of change for both stages are rated as Small .											

[1] CON – Construction Phase.

[2] OP – Operational Phase.

[3] N/A - As the extent of the proposed development will not be noticeable, so would not be affected.

10.7.10 Significance of Impact on VSRs before Mitigation

- **10.7.10.1** Based on the sensitivity assessment of VSRs and the magnitude of change described above, the potential significance of the unmitigated visual impacts during the construction and operational phases have been evaluated.
- 10.7.10.2 The potential significance of visual impacts during the construction and operational phases, before mitigation, is provided in Table 10.14 below. The assessment follows the methodology proposed in Section 10.3 and the matrix provided in Table 10.2.

VSR Code	Name	VSR Sensitivity (High/ Medium/	(Large/ Int	e of Change termediate/ gible/ N/A ^[3])	Impact Significance BEFORE Mitigation (Substantial/ Moderate/ Slight/ Insignificant/ N/A)		
		Low)	Con ^[1]	Op ^[2]	Con	Ор	
VSR1	North Lantau Highway	Low	Small	Small	Slight	Slight	
VSR2	Planned Tung Chung New Town Extension	High	Small	Small	Moderate	Moderate	
VSR3	Ying Tung Estate	High	Small	Negligible	Moderate	Insignificant	
VSR4	The Visionary	High	Negligible	Negligible	Insignificant	Insignificant	
VSR5	Caribbean Coast	High	Small	Negligible	Moderate	Insignificant	
VSR6	Sheraton Hong Kong Tung Chung Hotel	Medium	Small	N/A	Slight/ Moderate	N/A	
VSR7	Coastal Skyline	High	Small	N/A	Moderate	N/A	
VSR8	Chek Lap Kok Airport Island	Medium	Negligible	N/A	Insignificant	N/A	
VSR9	Scenic Hill	Medium	Negligible	Negligible	Insignificant	Insignificant	
VSR10	Tung Chung Crescent	High	Small	Small	Moderate	Moderate	
VSR11	Fu Tung Estate	High	Small	Small	Moderate	Moderate	
VSR12	Lantau North Country Park	Medium	Small	Small	Slight	Slight	
VSR13	Yu Tai Court	High	Small	N/A	Moderate	N/A	
VSR14	Ma Wan New Village	High	Intermediate	N/A	Moderate/ Substantial	N/A	
VSR15	Yu Tung Road	Low	Small	Small	Slight	Slight	

 Table 10.14 Significance of impacts on VSRs before mitigation

VSR Code	Name	VSR Sensitivity (High/ Medium/	(Large/ Int	e of Change termediate/ gible/ N/A ^[3])	Impact Significance BEFORE Mitigation (Substantial/ Moderate/ Slight/ Insignificant/ N/A)		
		Low)	Con ^[1]	Op ^[2]	Con	Ор	
VSR16	Yat Tung Estate	High	Intermediate	Intermediate	Moderate/ Substantial	Moderate	
VSR17	Tung Chung Fort	Medium	Negligible	Negligible	Insignificant	Insignificant	
VSR18	Mun Tung Estate	High	Small	Small	Moderate	Moderate	
VSR19	Ha Ling Pei Village	High	Intermediate	N/A	Moderate/ Substantial	N/A	
VSR20	Ma Wan Chun Village	High	N/A	N/A	N/A	N/A	
VSR21	Future Tung Chung West Promenade	Medium	Intermediate	Intermediate	Moderate	Moderate	
VSR22	Tung Chung Line & Airport Express Line	Low	Small	Small	Slight	Slight	

[1] CON – Construction Phase.

[2] OP – Operational Phase.

[3] N/A – As the extent of the proposed development will not be noticeable, so would not be affected.

10.7.11 Summary of Significance of Impacts on VSR before Mitigation Measures

- 10.7.11.1 Moderate visual impacts would be experienced by VSR2 Planned Tung Chung New Town Extension, VSR10 Tung Chung Crescent, VSR11 Fu Tung Estate, VSR16 Yat Tung Estate, VSR18 Mun Tung Estate VSR19 Ha Ling Pei Village and VSR21 Future Tung Chung West Promenade, which have direct and close view of the proposed at-grade structures, comprise TCE Station, TCW Station, station entrances, EAP/EEP and tentative works site respectively. The visual impacts would be caused by the construction works involving construction of buildings and structures during construction phase, and full visibility operation of new stations with its vent shaft structures and station entrances, which would cause small/ intermediate magnitude of change due to the small/ medium scale of development. Based on their high visual sensitivity as residential VSRs, moderate visual impact would be generated.
- **10.7.11.2** Furthermore, VSR3 Ying Tung Estate would also experience moderate visual impacts during construction stage. However, given the blockage of the future high-rise buildings in TCNTE, the impact significance would be considered as insignificant after operation. For VSR5 Caribbean Coast, given the distant view from this viewpoint, while the construction and operation of the proposed station

would have fair/ good combability with surrounding landscape, e.g. construction activities on TCNTE and the Transportation Corridor nearby, this VSR would experience insignificant visual impacts during operational stage. However, one of the temporary work areas for the launching/ retrieval shaft will be erected in a close distance, which would cause a moderate visual impact for the resident at Caribbean Coast during construction stage.

- 10.7.11.3 Apart from the construction and operation of the proposed TCW and TCE Stations with its vent shaft structures and station entrances, a series of temporary works sites/ areas and barging point would also generate visual impacts during construction stage. Hence, moderate visual impacts would be experienced by VSR6 Sheraton Hong Kong Tung Chung Hotel, VSR7 Coastal Skyline, VSR13 Yu Tai Court, and VSR14 Ma Wan New Village, which would have close view of the temporary construction works sites/ areas. Based on their high visual sensitivity as residential VSRs, moderate visual impacts could be caused during construction stage. As the temporary work area will be returned for development after operation, no visual changes would be caused during operational stage.
- 10.7.11.4 Slight visual impacts would be experienced by several VSRs facing to the proposed Stations. VSR1 North Lantau Highway, VSR15 Yu Tung Road and VSR22 Tung Chung Line & Airport Express Line represent passengers and drivers through the main roads, which would have slight sensitive to any visual change. Given small scale of the development, the VSRs would experience slight visual impacts during both construction and operational phases.
- **10.7.11.5** Although with a medium visual sensitivity, slight visual impact would be predicted due to small magnitude of change for the recreational VSR 12 (Lantau North Country Park). This VSR would have a panoramic view of TCNTE. Given the small scale of development would be located at the far distance, the magnitude of change would be considered as small, slight adverse impact would be generated during both phases.
- **10.7.11.6** Insignificant impact would be experienced for the following VSRs which would have negligible changes of view in relation to the development. VSR4 The Visionary, VSR8 Chek Lap Kok Airport Island and VSR9 Scenic Hill would experience insignificant change because having long viewing distances, the proposed structures or temporary works would not be noticeable from these VPs.
- 10.7.11.7 Given the fully blockage of roadside tree planting or existing building elements, the proposed stations or any temporary work areas cannot be seen by recreational VSR17 Tung Chung Fort and residential VSR20 Ma Wan Chun Village. No visual change is expected.

10.8 Landscape and Visual Mitigation Measures

10.8.1 General

10.8.1.1 The previous sections have identified the potential landscape and visual impacts due to the proposed stations and its vent shaft structures. A series of mitigation measure has been formulated in order to alleviate the effects of these impact where possible. It should be noted that design measures with intention to minimise overall landscape and visual impacts due to the development have also been incorporated into the layout plans during planning and design stages. This section will describe the summary of proposed mitigation measures incorporated into development layout plans to minimise adverse impacts.

10.8.2 Proposed Landscape and Visual Mitigation Measures

10.8.2.1 During the construction and operational phases, the mitigation measures listed, and responsibility matrix are provided in **Table 10.15**, which has been be considered to address any potential residual landscape and visual impacts. The construction and operational mitigation measures focus on the methods of preservation or minimisation of potential impacts, will take effect during both phases.

Mitigation Measure Code	Summary Description	Mitigate Landscape Impacts	Mitigate Visual Impacts	Funding/ Implementation	Maintenance/ Management Agency ^[3]
Constructio	n Phase				
CM1 ^[1]	Tree Preservation	✓	-	MTRC	MTRC
CM2	Tree Transplanting	~	-	MTRC	MTRC (Until handover to LCSD)
CM3	Landscape Reinstatement	4	~	MTRC	MTRC (Until handover to back to original maintenance/ management agency)
CM4	Lighting Control	-	✓	MTRC	MTRC
CM5	Erection of Screen Hoarding	-	✓	MTRC	MTRC
CM6	Optimization of Construction Areas	~	~	MTRC	MTRC
Operational	Phase				
OM1 ^[2]	Compensatory Tree Planting	~	-	MTRC	MTRC/ LCSD/ LandsD
OM2	Optimised Greening Provision on Structure	~	~	MTRC	MTRC

Table 10.15 Mitigation measures for construction and operational phases

Mitigation Measure Code	Summary Description	Mitigate Landscape Impacts	Mitigate Visual Impacts	Funding/ Implementation	Maintenance/ Management Agency ^[3]
OM3	Landscape Integration and Screen Planting	~	~	MTRC	LCSD
OM4	Architectural Aesthetic Design of Built Structure	-	~	MTRC	MTRC
OM5	Implement Aesthetic Design on Noise Barrier	-	~	MTRC	MTRC

[1] CM – Construction Mitigation.

[2] OM – Operational Mitigation.

[3] The management / maintenance responsibility, in general, following DEVB TCW No. 6/2015 subject to agreement. The tree numbers are indicative only and the exact numbers are subjected to approval of TPRP.

10.8.2.2 The proposed mitigation measures are summarised below:

- **CM1 Tree Preservation** existing trees to be retained within the Project Site shall be protected carefully during construction. A detailed tree survey will be carried out for the Tree Preservation and Removal Proposal (TPRP) to be submitted to relevant government departments for approval in accordance with DEVB TCW No. 4/2020 at the later detailed design stage of the Project. Besides, Tree Protection Zone (TPZ) shall be set up throughout the construction stages;
- CM2 Tree Transplanting trees unavoidably affected by the Project works shall be transplanted where practical. Approx. 170 nos. of trees are proposed to be transplanted at Shun Tung Road and Yu Tung Road as shown in <u>Appendix 10.3</u>. The Project Proponent would implement the tree transplantation as proposed in the TPRP to be submitted to relevant government departments for approval in accordance with DEVB TCW No. 4/2020 at the later detailed design stage of the Project;
- **CM3 Landscape Reinstatement** all hard and soft landscape areas disturbed temporarily during construction shall be reinstated on like-to-like basis as far as possible, to the satisfaction of the relevant Government Departments.
- **CM4 Lighting Control** all security floodlights for construction sites should be carefully controlled to minimize light pollution and night-time glare to nearby users. The lighting installation will follow the Charter on External Lighting and Guidelines on Industry Best Practices for External Lighting Installations promulgated by Environment Bureau (ENB) as far as practicable.
- **CM5 Erection of Screen Hoarding** construction site hoarding should be erected around the work sites and work areas to screen pedestrian level views into the construction area from visual sensitive receivers. Hoarding design shall be compatible with the surrounding context as far as practicable.
- **CM6 Optimization of Construction Areas** Construction areas' control shall be enforced, where possible, to ensure that the landscape and visual

impacts arising from the construction activities are minimised. It includes optimising the extent of working areas and temporary works areas, management on storing and using the construction equipment and materials, and consideration of detailed schedules to shorten the construction period.

- OM1 Compensatory Tree Planting It should be noted that the design of the • stations and any above-ground structures such as entrances have been duly optimised to minimise the footprint and hence the associated landscape and visual impacts. Based on the development layout, approx. 2,100 no. of trees are proposed to be felled and compensated. However, there would not be sufficient space for the replanting of trees within the station areas. Nevertheless, the Project Proponent would implement the compensatory planting as proposed in the TPRP to be submitted to relevant government departments for approval in accordance with DEVB TCW No. 4/2020 to compensate for the trees to be felled. As far as practicable, implementation of compensatory tree planting should be of a ratio not less than 1:1 in terms of number of trees removed including dead trees, but excluding trees of undesirable species. Sufficient space should be provided for the compensatory trees from establishment to maturity to maximise tree health and stability. A number of possible compensatory tree planting locations have been identified as summarised below. The Project Proponent will actively liaise with all the relevant departments throughout the TPRP process.
 - (a) Tung Chung Area 113;
 - (b) TCE Station;
 - (c) Tung Chung Crescent;
 - (d) Shun Tung Road;
 - (e) TCW Station;
 - (f) Yu Tung Road;
 - (g) Hillside area near Tung Chung Road;
 - (h) Planned residential and commercial development atop Siu Ho Wan Depot; and
 - (i) Other areas to be identified.
- OM2 Optimise Greening Provision on Structure implement greening measures that could alleviate the landscape and visual impacts of new development and help the development blend in with its surrounding landscape, which comprise implement rooftop greening to all above-ground structures against exposed building surfaces as far as possible, to reduce any undesirable impacts. According to the current design as shown in <u>Appendix 10.3</u>, the following greening provision would be implemented and these would be

further revisited and refined during the subsequent design stage and throughout the construction period.

Greening Provision	Area (m ²), approx
Green roof at TCE Station	3,200
Green roof at TCW Station	900
Green roof at EAP/ EEP	600

- OM3 Landscape Integration and Screen Planting plant tree screen/ buffer trees and shrubs to screen proposed stations and its vent shaft structures where appropriate. Approx. 8 no. of trees are proposed as a buffer planting. This measure would form part of the compensatory planting and will improve compatibility with the surrounding environment. According to the current design as shown in <u>Appendix 10.3</u>, a strip of street planting besides EAP /EEP along Shun Tung Road would be implemented. The extent and intensity would be further revisited and refined during the subsequent design stage and throughout the construction period.
- **OM4 Architectural Aesthetic Design of Built Structures** ensure the building massing is compatible with its surroundings. To improve visual amenity, the following architectural aesthetic design features as shown in **Appendix 10.3** have been incorporated.
 - (a) The architectural character of the proposed structures in terms of form, material and surface detailing shall be complementary to the planned sub-urban character of TCE/natural-rural setting of TCW.
 - (b) The proposed vent shaft structures shall adopt a mild and subdued design to minimize potential visual impact to nearby residents/VSRs.
 - (c) The façade of the proposed pedestrian links/footbridges and TCE station shall adopt atheistic pleasing design and enhance arrival/pedestrian experience, especially to the VSR at major open space (i.e. the planned metro plaza at Area 113).
 - (d) For the above-ground structure of the station entrances in TCW Station, the architectural design has incorporated transparent glass panels which would alleviate the bulk of the structure and allow natural light to penetrate into the station entrances. This would help to reduce the visual impacts of the station entrances.
 - (e) For the vent shaft structures in TCW, the building height would be kept to minimum. Given the natural environmental in the backdrop, the selection of façade materials would be compatible with the surrounding natural elements. These would help to reduce the visual impacts of the vent shaft structures.

- (f) The TCE Station would be an above-ground structure of approximate height of about 20m along with the at-grade tracks of TCL. The concourse slab level facing the hillside and the skylight of the roof at the TCE Station would adopt transparent glass panels. In order to integrate skylights into the roof, the air-conditioning duct work would be relocated below the concourse slab level. These design features would allow natural light to penetrate into the concourse and help to reduce the associated visual impacts.
- (g) There are 2 pedestrian links connecting the TCE Station and Area 113 of the planned TCNTE (East) development. Each of these 2 pedestrian links has an approximately length of about 60m and a height of approximately 15m. In order to mitigate the visual impacts, glass panels will be adopted along the walls of these 2 pedestrian links. Similar to the case for station entrances in TCW Station, this design feature will alleviate the bulk of the structure and allow natural light to penetrate into the pedestrian links and would help to reduce the associated visual impacts.
- OM5 Implement Aesthetic Design on Noise Barrier The visual impact of noise mitigation measures will be mitigated by appropriate detailed design to reduce visual bulkiness and incorporate aesthetically pleasing surface treatments to promote visual amenity, including a suitable combination of transparent and sound absorbent materials, appropriate colour selection of panels and supporting structures, as well as the design of supporting structures to incorporate a high level of quality and aesthetics. A combination of transparent panels and solid panels would lighten the visual impact, and at the same time maintain the attractiveness by using colourful panels.
- **10.8.2.3** Conceptual plans of the above-ground structures are provided in <u>Appendix 10.4</u> to illustrate the mitigation measures.

10.9 Residual Landscape and Visual Impact upon Mitigation

10.9.1 General

10.9.1.1 The potential residual impacts after the implementation of the proposed mitigation measures as described in Table 10.13 have been identified. The potential significance of residual landscape impacts on LRs and LCAs during operation of the development, completion day 1 and year 10 are provided in Table 10.16 and Table 10.17.

Table 10.16 Mitigation measures for construction and oper	rational phases on LRs
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ID Code	LRs	Sensitivity (Low/ Medium/ High)	Magnitude (Negligibl Intermedia	e/ Small/	Impact Sig Threshold bef	ore mitigation ant/ Slight/	Recommended Mitigation Measures	Residual Impact Significance ' after Mitigation (Insignifican Moderate/ Substantia		ant/ Slight/
			Construction	Operational	Construction	Operational		Construction	Opera	tional
									Day 1	Year 10
LR1	Secondary Woodland	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR2	Shrubland & Grassland	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR3	Plantation	Medium	Small	Small	Moderate	Moderate	CM1, CM2, CM3, CM6, OM1, OM2, OM3	Slight	Slight	Slight
LR4	Fung Shui Woodland	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR5	Agricultural Land	Medium	Large	Large	Moderate / Substantial	Moderate / Substantial	CM1, CM2, CM3, CM6, OM1, OM2, OM3	Moderate / Substantial	Moderate / Substantial	Moderate / Substantial
LR6	Mangrove	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR7	Reedbed	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR8	Coastal Water	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR9	Transitional Water	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR10a	Natural Watercourse	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR10b	Channelised Watercourse	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR11a	Mudflat	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ID Code	LRs	Sensitivity (Low/ Medium/ High)	Magnitude (Negligibl Intermedia	e/ Small/	Impact Significance Threshold before mitigation (Insignificant/ Slight/ Moderate/ Substantial)		Recommended Mitigation Measures	after Mitiga	Residual Impact Significance The after Mitigation (Insignificant/ S Moderate/ Substantial)	
			Construction	Operational	Construction	Operational		Construction	Opera	tional
									Day 1	Year 10
LR11b	Rocky Coastline	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR12	Artificial Seawall	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LR13a	Major Transport Corridor	Low	Intermediate	Small	Moderate	Slight	CM3, CM6, OM2, OM3	Slight	Slight	Insignificant
LR13b	Road & Urban Infrastructure	Low	Small	Negligible	Slight	Insignificant	CM1, CM2, CM3, CM6	Slight	Insignificant	Insignificant
LR14	Village Type Development	Medium	Small	N/A	Moderate	N/A	CM1, CM2, CM3, CM6	Slight	N/A	N/A
LR15	Urbanised Development	Low	Small	Small	Slight	Slight	CM1, CM2, CM3, CM6, OM1, OM2, OM3	Insignificant	Insignificant	Insignificant
LR16	Ongoing Reclamation Area	Low	Negligible	Small	Insignificant	Slight	CM3, CM6, OM2, OM3	Insignificant	Insignificant	Insignificant

ID Code	LCAs	Sensitivity (Low/ Medium/	Magnitude of Ch Small/ Interm		Impact Significanc before mitigation (I Slight/ Moderate/ S	nsignificant/	Recommended Mitigation Measures	after Mitigat	Residual Impact Significance after Mitigation (Insignifican Moderate/ Substantia	
		High)	Construction	Operational	Construction	Operational	-	Construction	Opera	tional
									Day 1	Year 10
LCA1	Inshore Water Landscape	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCA2	Strait Landscape	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCA3	Inter-tidal Coast Landscape	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCA4	Coastal Upland and Hillside Landscape	High	Small	Small	Moderate	Moderate	CM1, CM2, CM3, CM6, OM1, OM2, OM3	Slight	Slight	Slight
LCA5	Settled Valley Landscape	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCA6	Upland Hillside Landscape	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCA7	Reclamation/ Ongoing Major Development Landscape	Low	Intermediate	Small	Moderate	Slight	CM3, CM6, OM2, OM3	Slight	Insignificant	Insignificant
LCA8	Transportation Corridor Landscape	Low	Small	Small	Slight	Slight	CM3, CM6	Slight	Insignificant	Insignificant
LCA9	Mixed Modern Comprehensive Urban	Low	Small	Small	Slight	Slight	СМ3, СМ6	Slight	Insignificant	Insignificant

ID Code	LCAs	Sensitivity (Low/ Medium/	0	Magnitude of Change (Negligible/ Small/ Intermediate/ Large)		Impact Significance Threshold before mitigation (Insignificant/ Slight/ Moderate/ Substantial)		after Mitigat	Residual Impact Significance Three after Mitigation (Insignificant/ Sli Moderate/ Substantial)	
		High)	Construction	Operational	Construction	Operational		Construction	Opera	ational
									Day 1	Year 10
	Development Landscape									
LCA10	Urban Peripheral Village and Rural Fringe Landscape	Medium	Small	Small	Moderate	Moderate	CM1, CM2, CM3, CM6, OM1, OM2, OM3	Slight	Slight	Slight
LCA11	Airport Landscape	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCA12	Institutional Landscape	Medium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LCA13	Residential Urban Landscape	Low	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

10.9.2 Residual Landscape Impact on Landscape Resources

- **10.9.2.1** Since majority of LRs will not be in direct conflict with the proposed at-grade structures and temporary work areas, so there would be no landscape impacts to the LRs by this Project in general, except the following LRs.
- **10.9.2.2** The proposed TCE Station with TCL realignment will be mainly located at LR13a Major Transport Corridor and LR16 Ongoing Reclamation Area. Since the amenity value of these LRs are considered as low, with the implementation of mitigation measures such as landscape reinstatement (CM3), optimization of construction areas (CM6), optimised greening provision on structure (OM2) and landscape integration and screen planting (OM3), the impact would be reduced from slight to insignificant.
- **10.9.2.3** The proposed EAP/ EEP will be erected at LR3 Plantation. This would generate adverse landscape impacts due to the construction activities and loss of vegetation cover. After the provision of mitigation measures such as tree preservation (CM1), tree transplanting (CM2), landscape reinstatement (CM3), optimization of construction areas (CM6), compensatory tree planting (OM1), optimised greening provision on structure (OM2) and landscape integration and screen planting (OM3). The landscape impact on LR3 would be reduced from moderate to slight.
- 10.9.2.4 Construction and operation of TCW Station with its vent shaft structures and station entrances will be in direct conflict with LR5 Agricultural Land and LR15 Urbanised Development. It is anticipated that the vegetation covers within these LRs will be removed due to the construction works. With mitigation measures such as tree preservation (CM1), tree transplanting (CM2), landscape reinstatement (CM3), optimization of construction areas (CM6), compensatory tree planting (OM1), optimised greening provision on structure (OM2) and landscape integration and screen planting (OM3), however these measures are limited in terms of scale/ quantity as compared with the LR5. Hence, the residual landscape impact on LR5 after mitigation would be remained as substantial/ moderate. Furthermore, the proposed TCW station would be compatible with LR15. With the implementation of same mitigation measures as LR5, the landscape impact would be reduced from slight to insignificant.
- **10.9.2.5** Apart from the construction and operation of the proposed TCW and TCE Station, the vent shaft structures and station entrances a series of temporary works areas and barging point will be located at different LRs such as LR13b Road & Urban Infrastructure, and LR14 Village Type Development. For LR13b, the temporary work areas are likely to generate slight landscape impacts due to the small portion loss in terms of the LR area. The landscape impacts would be minimized from slight to insignificant with the implementation of mitigation measures, such as tree preservation (CM1), tree transplanting (CM2), landscape reinstatement (CM3) and optimization of construction areas (CM6). Besides, the proposed temporary works

would be compatible with LR14. With same mitigation measures as above, the landscape impact would be reduced from moderate to slight during construction.

10.9.3 Residual Landscape Impact on Landscape Character Areas

- **10.9.3.1** Similar to LRs, majority of LCAs would not be caused any landscape impacts given no works of the Project will take place on these LCAs, except the following LCAs.
- **10.9.3.2** There would be moderate landscape impacts on LCA4 Coastal Upland and Hillside Landscape and LCA10 Urban Peripheral Village and Rural Fringe Landscape due to portion of these LCAs will be overlapped with the proposed stations and EAP/EEP. After the implementation of mitigation measures such as tree preservation (CM1), tree transplanting (CM2), landscape reinstatement (CM3), optimization of construction areas (CM6), compensatory tree planting (OM1), optimised greening provision on structure (OM2) and landscape integration and screen planting (OM3), the landscape impacts would be mitigated to slight during both construction and operational stages.
- **10.9.3.3** A portion of proposed TCL and TCW alignment will be overlapped with LCA8 Transportation Corridor Landscape and LCA9 Mixed Modern Comprehensive Urban Development Landscape. There would be moderate impact due to the construction works of the alignment. With the implementation of mitigation measures such as landscape reinstatement (CM3) and optimization of construction areas (CM6), the landscape impact would be mitigated to slight during construction stage. Besides, the proposed developments are compatible with the existing landscape character, it is considered the residual impact would be insignificant during operational phases.
- **10.9.3.4** The installation of proposed TCE Station at LCA7 Reclamation/ Ongoing Major Development Landscape would only cause slight impact on the existing landscape character as the proposed works are fully compatible with the surrounding construction activities on reclamation land. With the implementation of mitigation measures such as landscape reinstatement (CM3), optimization of construction areas (CM6), optimised greening provision on structure (OM2) and landscape integration and screen planting (OM3), only insignificant residual impact would be caused.

10.9.4 Residual Visual Impact upon Mitigation

10.9.4.1 The potential residual impacts after the implementation of the proposed mitigation measures as described in Table 10.13 have been identified. The potential significance of residual visual impacts on VSRs during operation of the development, completion day 1 and year 10 are provided in Table 10.18.

VSR Code	Name	Sensitivity (High/ Medium/ Low)	(Large/Int	e of Change termediate/ egligible)	Before M (Substantial	gnificance litigation l/ Moderate/ ignificant)		commended ation Measures Residual Impact Significan Mitigation (Substantial/ M Slight/ Insignifican		/ Moderate/	
			CON	OP	CON	OP	CON	OP	CON	OP Day 1	OP Year 10
VSR1	North Lantau Highway	Low	Small	Small	Slight	Slight	CM3, CM4, CM5	OM2, OM3, OM4	Insignificant	Insignificant	Insignificant
VSR2	Planned Tung Chung New Town Extension	High	Small	Small	Moderate	Moderate	CM3, CM4, CM5	OM4, OM5	Slight	Slight	Slight
VSR3	Ying Tung Estate	High	Small	Negligible	Moderate	Insignificant	CM3, CM4	OM2, OM4, OM5	Slight	Insignificant	Insignificant
VSR4	The Visionary	High	Negligible	Negligible	Insignificant	Insignificant	CM3, CM4	OM2, OM3, OM4	Insignificant	Insignificant	Insignificant
VSR5	Caribbean Coast	High	Small	Negligible	Moderate	Insignificant	CM3, CM4, CM5	OM2, OM3, OM4	Slight	Insignificant	Insignificant
VSR6	Sheraton Hong Kong Tung Chung Hotel	Medium	Small	N/A	Slight /Moderate	N/A	CM3, CM4, CM5	N/A	Slight	N/A	N/A
VSR7	Coastal Skyline	High	Small	N/A	Moderate	N/A	CM3, CM4, CM5	N/A	Slight	N/A	N/A
VSR8	Chek Lap Kok Airport Island	Medium	Negligible	N/A	Insignificant	N/A	CM4	N/A	Insignificant	N/A	N/A
VSR9	Scenic Hill	Medium	Negligible	Negligible	Insignificant	Insignificant	CM3, CM4	OM2, OM3, OM4	Insignificant	Insignificant	Insignificant
VSR10	Tung Chung Crescent	High	Small	Small	Moderate	Moderate	CM3, CM4, CM5	OM2, OM3, OM4	Slight	Slight	Slight
VSR11	Fu Tung Estate	High	Small	Small	Moderate	Moderate	CM3, CM4, CM5	OM2, OM3, OM4	Slight	Slight	Slight
VSR12	Lantau North Country Park	Medium	Small	Small	Slight	Slight	CM3, CM4	OM2, OM3, OM4	Insignificant	Insignificant	Insignificant

Impact Significance

Table 10.18 Significance of residual impacts upon mitigation on VSRs

VSR Code	Name	Sensitivity (High/ Medium/ Low)	(Large/ Int	e of Change termediate/ egligible)	Before M (Substantial	-		mended Measures	Mitigation	Residual Impact Signific: Mitigation (Substantial/ Slight/ Insignifica	
			CON	OP	CON	OP	CON	OP	CON	OP Day 1	OP Year 10
VSR13	Yu Tai Court	High	Small	N/A	Moderate	N/A	CM3, CM4	N/A	Slight	N/A	N/A
VSR14	Ma Wan New Village	High	Intermediate	N/A	Moderate /Substantial	N/A	CM3, CM4	N/A	Slight	N/A	N/A
VSR15	Yu Tung Road	Low	Small	Small	Slight	Slight	CM3, CM4, CM5	OM2, OM3, OM4	Insignificant	Insignificant	Insignificant
VSR16	Yat Tung Estate	High	Intermediate	Intermediate	Moderate /Substantial	Moderate	CM3, CM4, CM5	OM2, OM4	Slight	Slight	Slight
VSR17	Tung Chung Fort	Medium	Negligible	Negligible	Insignificant	Insignificant	N/A	N/A	N/A	N/A	N/A
VSR18	Mun Tung Estate	High	Small	Small	Moderate	Moderate	CM3, CM4, CM5	OM2, OM3, OM4	Slight	Slight	Slight
VSR19	Ha Ling Pei Village	High	Intermediate	N/A	Moderate /Substantial	N/A	CM3, CM4, CM5	N/A	Slight	N/A	N/A
VSR20	Ma Wan Chun Village	High	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VSR21	Future Tung Chung West Promenade	Medium	Intermediate	Intermediate	Moderate	Moderate	CM3, CM4, CM5	OM3, OM4	N/A	Slight	Slight
VSR22	Tung Chung Line & Airport Express Line	Low	Small	Small	Slight	Slight	CM3, CM4, CM5	OM2, OM3, OM4	Insignificant	Insignificant	Insignificant

10.9.5 Summary of Residual Impacts on VSRs

- **10.9.5.1** Photomontages for VSR (<u>Figures 10.10a to Figure 10.10d</u>) have been generated to provide views on the scale and extent of the proposed development. It should be noted that the photomontages intend to demonstrate only the scale and massing of the proposed development and effect of the proposed mitigation measures. The architectural design finishes or any other related detailed design components are subject to refinement and changes at the detailed design stage.
- **10.9.5.2** In summary, it is considered the implementation of mitigation measures, in particular screen planting, some greening measures such as green roof and/ or vertical greening, would provide significant enhancement to assist in visually integrating the new project into the existing landscape setting and help to alleviate the appearance of built form. Hence, majority of residual impacts in **Section 10.9.5** could be mitigated to acceptable level after the implementation of the proposed mitigation measures.
- 10.9.5.3 Moderate adverse impacts would be experience by those medium/ high sensitivity VSRs, such as VSR2 Planned Tung Chung New Town Extension, VSR10 Tung Chung Crescent, VSR11 Fu Tung Estate, VSR16 Yat Tung Estate, VSR18 Mun Tung Estate, VSR19 Ha Ling Pei Village and VSR21 Future Tung Chung West Promenade. The recommended mitigation measures such as landscape reinstatement (CM3), lighting control (CM4), and erection of screen hoarding (CM5), optimised greening provision on structure (OM2), landscape integration and screening planting (OM3), architectural aesthetic design of built structure (OM4) and Implement Aesthetic Design on Noise Barrier (OM5) would effectively alleviate the visual impacts for these VSRs during construction stages and enhance the visual compatibility with the existing landscape setting during the operational phase. Meanwhile, the future high-rise development at TCNTE would block the view of the proposed TCE Station and the TCL realignment on VSR3 Ying Tung Estate and VSR4 The Visionary. It is considered that visual impact of these VSR could be mitigated together with recommended mitigation measures such as landscape reinstatement (CM3), lighting control (CM4), optimised greening provision on structure (OM2), landscape integration and screening planting (OM3), architectural aesthetic design of built structure (OM4) and Implement Aesthetic Design on Noise Barrier (OM5). Furthermore, for some of the VSRs that have a distant view toward the small scale of proposed structures, such as VSR5 Caribbean Coast, VSR9 Scenic Hill, and VSR12 Lantau North Country Park. After the implementation of recommended mitigation measures such as landscape reinstatement (CM3), lighting control (CM4), optimised greening provision on structure (OM2), landscape integration and screening planting (OM3), and architectural aesthetic design of built structure (OM4), it is considered the residual impacts would be insignificant during both construction and operational phases.

- **10.9.5.4** It is considered that slight visual impacts would remain at slight/insignificant level during construction stage for low sensitivity VSRs such as VSR1 North Lantau Highway and VSR15 Yu Tung Road and VSR22 Tung Chung Line & Airport Express Line. With the mitigation measures such as landscape reinstatement (CM3), lighting control (CM4), and erection of screen hoarding (CM5), optimised greening provision on structure (OM2), landscape integration and screening planting (OM3), and architectural aesthetic design of built structure (OM4). These VSRs would remain as insignificant level during operational stage.
- **10.9.5.5** Apart from the construction and operation of the proposed at-grade structures, a series of scattered temporary works areas and barging point would also generate small to moderate impermanent visual impacts before operation, such as VSR6 Sheraton Hong Kong Tung Chung Hotel, VSR7 Coastal Skyline, VSR8 Chek Lap Kok Airport Island, VSR13 Yu Tai Court, and VSR14 Ma Wan New Village. The residual impacts would be mitigated to slight/ insignificant levels after the implementation of the construction mitigations, such as lighting control (CM4) during construction stage.

10.10 Cumulative Impact

10.10.1 General

10.10.1.1 Cumulative landscape and visual impacts during construction and operational phases from other projects in the vicinity are assessed and summarised in Table 10.19 below. The concurrent projects extent is illustrated in Figure 2.2.

Proposed development/on-going projects	Nature of the projects	Major potential landscape and visual impacts	Construction phase	Operational phase
Reprovisioning, Remedial and Improvement Works (RRIW)	footbridge across Yu Tung Road to the south of Yat Tung Estate.	Landscape Approximately 290 number of trees along Yu Tung Road will need to be fell due to the demolition and reprovision of footbridge across Yu Tung Road. Other than these trees, no valuable landscapes are currently present on the urbanised area, adverse landscape impact during both construction and operational phases is not anticipated. Visual Given the proposed works are compatible with the Project, it is anticipated that the cumulative visual impact would not be significant.	The respective project proponent will fulfil all the requirements for tree transplanting and landscape enhancement. On this basis, adverse cumulative landscape impacts are not anticipated It is anticipated that the design of the new footbridge will incorporate suitable aesthetic design to blend in with the environment. No visual impacts are therefore identified in construction stage.	No additional landscape and visual impacts are identified during operation.
Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works	Siu Ho Wan Depot (SHD) replanning in 4 major phases; podium deck and property enabling works for supporting the SHD Topside Development; and a new station and the associated trackwork, as well as local access roads and EVA.	Landscape No natural landscape resources, or rare or protected species are recorded within SHD according to their approved EIA Report. Hence, adverse cumulative landscape impact during both construction and operational phases is not anticipated. <u>Visual</u> The SHD is located at more than 1km from the TCE Station and 5km from TCW Station. Given the large separation	No significant cumulative landscape and visual impacts are identified in construction stage.	No significant cumulative landscape and visual impacts are identified during operation.

Table 10.19 Concurrent projects and potential cumulative impacts

Proposed development/on-going projects	Nature of the projects	Major potential landscape and visual impacts	Construction phase	Operational phase
		distance from TCE Station and TCW Station, it is anticipated that the SHO and reprovisioned SHD would not cause any substantial cumulative visual impact on adjacent VSRs		
Proposed Comprehensive Residential and Commercial Development atop Siu Ho Wan Depot	Residential towers on a podium deck over the entire SHD along with associated recreational, schools, transportation facilities and open spaces etc.	Landscape No valuable landscapes are recorded at the existing SHD according to their approved EIA Report. Adverse cumulative landscape impact during both construction and operational phases is not anticipated. <u>Visual</u>	No significant cumulative landscape and visual impacts are identified in construction stage.	No significant cumulative landscape and visual impacts are identified during operation.
		The SHD is located at more than 1km from the TCE Station and 5km from TCW Station. Given the large separation distance from TCE Station and TCW Station, it is anticipated that there will be no significant cumulative visual impact during construction and operational phase.		
Additional Sewerage Rising Main and Rehabilitation of the Existing Sewage Rising Main between Tung Chung and Siu Ho Wan	Construction of an additional sewage rising main of about 6.5km with diameter of 1200mm from Tung Chung sewage pumping station to Siu Ho Wan sewage treatment works and rehabilitation of the existing sewage rising main with diameter of 1200mm.	LandscapeThe additional sewage rising main is located along CheungTung Road, therefore it is anticipated that no adverselandscape impact during construction and operationalphases.VisualGiven the additional sewage rising main is an undergroundutility along Cheung Tung Road, it is anticipated that thecumulative visual impact would not be significant.	No significant cumulative landscape and visual impacts are identified in construction stage.	No significant cumulative landscape and visual impacts are identified during operation.
Expansion of Hong Kong International Airport into a Three-Runway System (3RS)	New land formation immediately north of HKIIA comprising associated taxiways, aprons, new passenger concourse buildings and	Landscape No valuable landscapes are currently presented on the reclaimed island, adverse landscape impact during both construction and operational phases is not anticipated.	No significant cumulative additional landscape and visual impacts are	No significant cumulative landscape and visual impacts are

Proposed development/on-going projects	Nature of the projects	Major potential landscape and visual impacts	Construction phase	Operational phase
	expansion of the existing Terminal 2 building	<u>Visual</u> Given the 3RS development is located about 5km away from the Project, it is anticipated that there will be no significant cumulative visual impact during construction and operational phase.	identified in construction stage.	identified during operation.
Tung Chung New Town Extension and its Associated Infrastructures (TCNTE)	New town development extension for accommodate 220,000 population to meet housing and other development needs.	LandscapeFor TCE, no valuable landscapes are currently present on the reclamation area, adverse landscape impact during both construction and operational phases is not anticipated. For TCW, substantial landscape impacts are anticipated for some LRs and LCAs. However, with the implementation of mitigation measures such as woodland restoration, the landscape impact would be alleviated to moderate to slight eventually.VisualThe new developments at TCNTE will be located at the close distance with the proposed TCE and TCW Station and TCL realignment. The TCNTE developments may block the views from residents at Ying Tung Estate (VSR3) towards TCE Station. However, with the implementation of mitigation measures such as aesthetic design of built development, the residual cumulative visual impacts from TCNTE development would be reduced to acceptable level as the development would be compatible with the visual character of surrounding areas.	No significant cumulative additional landscape and visual impacts are identified in construction stage.	Residents from Ying Tung Estate (VSR3) may experience slight additional visual impacts during operation. In addition, no additional landscape impacts are identified during operation.
Skycity Development	Development of a commercial complex adjacent to HKIA	Landscape No valuable landscapes are currently present on the reclaimed island, adverse landscape impact during both construction and operational phases is not anticipated. <u>Visual</u>	No additional landscape and visual impacts are identified in construction stage.	Residents from Coastal Skyline (VSR7) may experience slight additional visual

Proposed development/on-going projects	Nature of the projects	Major potential landscape and visual impacts	Construction phase	Operational phase
		The Skycity Development is located about 1.5km away from the Project, therefore potential visual impacts may be experienced by the residents at Coastal Skyline (VSR7). However, given Skycity Development would have a maximum building height restriction of approx. 53 mPD, the proposed commercial developments would be compatible with the surrounding buildings in Airport Island. In addition, with the implementation of mitigation measures such as sensitive design of building and structure, it is anticipated that the residual impacts would be reduced to acceptable level in the operational phase.		impacts during operation. In addition, no additional landscape impacts are defined during operation.
Intermodal Transfer Terminal (ITT)	Development of a new building which serves intermodal transfer of passengers to and from HZMB	LandscapeNo valuable landscapes are currently present on the reclaimed island, adverse landscape impact during both construction and operational phases is not anticipated.VisualGiven the ITT is located about 3km away from the Project, the overall visual change would not be significant. As such, additional adverse visual impacts are not anticipated in both construction and operational phases.	No additional landscape and visual impacts are identified in construction stage.	No additional landscape and visual impacts are identified during operation.
Road P1 (Tai Ho – Sunny Bay Section)	Construction of a new highway (namely Road P1) running parallel to the North Lantau Highway.	LandscapeNo valuable landscapes are currently present on the urbanised area, adverse landscape impact during both construction and operational phases is not anticipated, subject to future detailed design.VisualGiven the Road P1 is located about 2km away from the Project, the overall visual change would not be significant. As such, additional adverse visual impacts are not anticipated in both construction and operational phases.	No additional landscape and visual impacts are identified in construction stage, subject to future detailed design.	No additional landscape and visual impacts are identified during operation, subject to future detailed design.

Proposed development/on-going projects	Nature of the projects	Major potential landscape and visual impacts	Construction phase	Operational phase
Planning, Engineering and Architectural Study for Topside Development at HKBCF Island of the HZMB – Feasibility Study	Topside Development at Hong Kong Boundary Crossing Facilities (HKBCF) Island of the Hong Kong- Zhuhai-Macau Bridge (HZMB).	Landscape No valuable landscapes are currently presented on the reclaimed island, adverse landscape impact during both construction and operational phases is not anticipated. <u>Visual</u>	No additional landscape and visual impacts are identified in construction stage.	No additional landscape and visual impacts are identified during operation.
		Given it is located at the artificial island, which is a piece of reclaimed landmass, the development is considered compatible with the surrounding area. As such, additional adverse visual impacts are not anticipated in both construction and operational phases.		
Improvement Works for Ma Wan Chung Pier	Redevelopment of a pier	Landscape No valuable landscapes are currently presented on the urbanised area, adverse landscape impact during both construction and operational phases is not anticipated. <u>Visual</u>	No additional landscape and visual impacts are identified in construction stage.	No additional landscape and visual impacts are identified during operation.
		Given the layout for the proposed improvement work is relatively small and located about 1km away from the Project, the improvement work is considered compatible with the surrounding area. As such, additional adverse visual impacts are not anticipated in both construction and operational phases.		
Tuen Mun – Chek Lap Kok Link (TMCLKL)	Dual-2 lane carriageway between northwest New Territories and HKBCF	Landscape No valuable landscapes are currently presented on the urbanised area, adverse landscape impact during both construction and operational phases is not anticipated.	No additional landscape and visual impacts are identified in construction stage.	No additional landscape and visual impacts are identified during operation.
		Visual Given the TMCLKL is located about 2km away from the Project, the overall visual change would not be significant.		

Proposed development/on-going projects	Nature of the projects	Major potential landscape and visual impacts	Construction phase	Operational phase
		As such, additional adverse visual impacts are not anticipated in both construction and operational phases.		

10.11 Conclusion

- **10.11.1.1** The majority extent of the development is compatible with the surrounding local context, the project would generate insignificant to moderate/substantial adverse visual impact during construction phase and insignificant to moderate adverse visual impact during operational phase without the provision of mitigation measures.
- **10.11.1.2** With the provision of mitigation measures, most of the residual landscape impacts would be insignificant to slight by operation year 10. The likely residual visual impacts and possibility would be insignificant to slight by operation day 1 and operation year 10 when the mitigation measures have matured and taken effect. It is therefore anticipated that the overall residual landscape and visual impacts from the proposed scheme of Tung Chung Line Extension are considered acceptable with mitigation measures.