Legislative Council Public Works Subcommittee

Development of Anderson Road Quarry Site Site Formation and Associated Infrastructure Works

Supplementary Information

Introduction

Among the follow-up actions of the Legislative Council (LegCo) Public Works Subcommittee meeting on 21 May 2016, Members requested the Government to provide supplementary information about the pedestrian connectivity facilities (PCFs) for the site formation and associated infrastructure works of the Anderson Road Quarry (ARQ) site.

Proposed Pedestrian Connectivity Facilities

The Civil Engineering and Development Department (CEDD) proposes to construct PCFs, including footbridges, lift towers and/or escalators, along four routes in two phases, so as to reduce the residents' demand for short-trip transportation in Kwun Tong. Phase 1 of the PCFs includes 7 sets of footbridges, 11 lift towers, 2 sets of escalators and 2 subways near On Tat Estate, Hiu Lai Court and Hiu Wah Building, as well as the proposed bus-to-bus interchange (BBI) at the toll plaza of Tseung Kwan O Tunnel, i.e. routes 1, 2 and 4 (part).

Details of the four proposed pedestrian connectivity routes are as below:

Routes (Please refer to Appendix 1)

Route 1 (Hiu Lai Line): via west of On Tat Estate, north of Sau Mau

Ping Shopping Centre, Hiu Lai Court, Tsui Ping

(North) Estate to Kwun Tong MTR Station;

Route 2 (Hiu Wah Line): via west of On Tat Estate, south of Sau Mau

Ping Shopping Centre, Hiu Wah Building, Tsui

Ping (North) Estate to Kwun Tong MTR Station;

via east of On Tat Estate, Po Tat Estate, Sau Route 3 (Sau Nam Line):

> Mau Ping (South) Estate, Hiu Ming Street Football Court, Tsui Ping (North) Estate to

Kwun Tong MTR Station; and

Route 4 (Po Tat Line): via east of On Tat Estate, Po Tat Estate to the

proposed BBI at the toll plaza of Tseung Kwan

O Tunnel.

Details of PCF (Phase 1)

Route 1 (Hiu Lai Line)

Name of Facility / Location	Major Facilities					
PCF – E1 (see Appendix 2)	(a) Construction of a set of 12					
(Hiu Ming Street to Hiu Kwong	escalators on an elevated covered					
Street)	walkway with an overall height of					
	approximately 42 metres and an					
	overall length of approximately					
	180 metres in Sau Mau Ping					
	Memorial Park.					
PCF – System A (see Appendix 3)	(a) Construction of 3 lift towers with					
(On Sau Road to Road L4 at the ARQ	staircases, and 4 lifts, 2 lifts and 4					
site)	lifts respectively at the ARQ site					
	and near the west of On Tat					
	Estate.					
	(b) Construction of a subway under					
	the proposed Road L4 at the ARQ					
	site.					
	(c) Construction of an approximately					

3.2-metre wide and 30-metre long						
elevated covered walkway to						
connect the above-mentioned lift						
towers to the ARQ site.						

Route 2 (Hiu Wah Line)

Name of Facility / Location	Major Facilities
PCF – E2 (see Appendix 2)	(a) Construction of an approximately
(Hiu Kwong Street to Footbridge to	13-metre high lift tower with
Sau Ming Street)	staircases and 2 lifts at Hiu
	Kwong Street near Hiu Wah
	Building.
	(b) Construction of an approximately
	3.2-metre wide and 50-metre long
	elevated covered walkway to
	connect the above-mentioned lift
	tower to the lift tower linking Sau
	Ming Road to be constructed by
	the Housing Department under
	entrustment by the Highways
	Department.
PCF – E3 (see Appendix 2)	(a) Construction of an approximately
(Hiu Ming Street to Hiu Kwong	46-metre high lift tower with
Street)	staircases and 3 lifts at Hiu Ming
	Street.
	(b) Construction an approximately
	3.8-metre wide and 45-metre long
	elevated covered walkway to
	connect the above-mentioned lift
	tower to Hiu Kwong Street.

Name of Facility / Location	Major Facilities
PCF – System B (see Appendix 4)	(a) Construction of 3 lift towers
(On Tat Estate to the east of the ARQ	(approximately 32-, 15- and 15-
site)	metre high respectively) with
	staircases, and 2 lifts, 2 lifts, 4
	lifts respectively at the ARQ site
	and near the east of On Tat
	Estate.
	(b) Construction of a subway under
	the proposed Road L1 at the ARQ site.
	(c) Construction of 2 approximately
	3.2-metre wide, respectively
	50-metre and 130-metre long
	elevated covered walkways to
	connect the above-mentioned lift
	towers to the existing footbridge
	at the Development of Anderson
	Road.
PCF – E11 (see Appendix 5)	(a) Construction of 2 approximately
(Proposed BBI to Sau Mau Ping Road	11-metre high lift towers with
near Po Tat Estate)	staircases and each with 2 lifts at
	the eastbound of the proposed
	BBI at the toll plaza of Tseung
	Kwan O Tunnel.
	(b) Construction of a set of
	approximately 2.8-metre wide
	and 100-metre long elevated
	covered walkway to connect the
	above-mentioned lift towers to
	Sau Mau Ping Road.

PCF – E12 (see Appendix 5)	(a) Construction of an approximately				
(Proposed BBI to Lin Tak Road near	16-metre high lift tower with				
Hong Wah Court)	staircases and each with 2 lifts a				
	the westbound of the proposed				
	BBI at the toll plaza of Tseung				
	Kwan O Tunnel.				
	(b) Construction of an approximately				
	16-metre long covered elevated				
	walkway to connect the				
	above-mentioned lift tower to Lin				
	Tak Road.				
Proposed BBI at the toll plaza of	(a) Construction of 2 sets of covered				
Tseung Kwan O Tunnel (see	walkway, approximately 100- and				
Appendix 5)	79-metre long respectively, at the				
	passenger holding area.				

Estimated Usage and Efficiency of PCF (Phase 1)

On the basis of current and on-site survey data, the consultants gave estimates on the pedestrian flow of the PCFs in 2026 by using a computer model. The hourly pedestrian flows of the PCFs during peak hours are as below:

Route / Location	Facility	Estimated Peak Hour 2-way	Estimated Peak Hour 1-way	
		Pedestrian	Pedestrian Pedestrian	
		Flow / Hour	Flow / Hour	
Route 1 (Hiu Lai Line)	PCF – E1	about 2,200	about 2,000	
	PCF – System A	about 2,600	about 2,100	
Route 2 (Hiu Wah Line)	PCF – E2	about 1,800	about 1,600	
	PCF – E3	about 1,800	about 1,600	
Route 4 (Po Tat Line	PCF – E11	about 600	about 550	
(part))				
	PCF – E12	about 600	about 550	
	PCF – System B	about 2,500	about 1,800	

The distances between estates and locations along each pedestrian route are set out at <u>Table 1</u>. With these PCFs, more people would be encouraged to access to various locations in the district (including the MTR station and proposed BBI for travel to other districts) on foot, thereby reducing the demand for short-trip public transportation by the residents in the district and releasing the road capacity.

Construction Cost, Programme and Arrangements during Construction of PCF (Phase 1)

Should the Finance Committee (FC) of LegCo approve the funding application in June 2016, PCF (Phase 1) is anticipated to be commenced in early 2017 for completion in 2020 the earliest by phases. The breakdown of construction cost of PCF (Phase 1) is set out at <u>Table 2</u>.

CEDD will stipulate in the construction contract that the contractor is required to set up community liaison groups and keep close liaison with the nearby residents, with a view to minimising the environmental and traffic impacts during construction. Furthermore, CEDD will implement mitigation measures to control the construction dust and noise during construction. The mitigation measures include watering at site, use of quiet plants and working methods. CEDD will also liaise closely with the nearby schools to avoid carrying out noisy construction works during the examination period. Besides, the construction of "PCF – E1" will not affect the daily operation of the temple near Sau Mau Ping Memorial Park.

PCF (Phase 2)

PCF (Phase 2) includes the facilities at Route 3 (Sau Nam Line) and Route 4 (Po Tat Line) (remaining part), which involve issues such as potential land resumption or creation of easement, hence necessitating a longer time for preparation and consultation before construction. Our tentative plan is to seek FC's funding approval for the remainder works in early 2017. Further details will then be provided.

Appendices

Development of Anderson Road Quarry Site - Proposed
Pedestrian Connectivity Facilities
Pedestrian Connectivity Facilities (E1, E2 and E3) – Layout
Plan and Artist's Impression
Pedestrian Connectivity Facilities (System A) – Layout Plan
and Artist's Impression
Pedestrian Connectivity Facilities (System B) – Layout Plan
and Artist's Impression
Pedestrian Connectivity Facilities (Proposed Bus-to-Bus
Interchange, E11 and E12) - Layout Plan and Artist's
Impression

Table 1

<u>Distances between Estates and Locations along the PCF Routes</u>

	ARQ Site (System A)	ARQ Site (System B)	On Tat Estate (West)	On Tat Estate (East)	Po Tat Estate	Sau Mau Ping Estate	Hiu Lai Court	Hiu Wah Building	Tsui Ping (North) Estate	Kwun Tong (Tsui Ping Road) Terminus	Kwun Tong MTR Station	Proposed BBI at TKO Tunnel
ARQ Site (System A)		N/A	170m	N/A	N/A	530m	860m	910m	1370m	1390m	2000m	N/A
ARQ Site (System B)			N/A	230m	530m	710m	N/A	1400m	1520m	1740m	2140m	1070m
On Tat Estate (West)				N/A	N/A	360m	690m	740m	1200m	1220m	1800m	N/A
On Tat Estate (East)					300m	480m	N/A	1170m	1290m	1510m	1910m	840m
Po Tat Estate						400m	N/A	1090m	1210m	1430m	1830m	760m
Sau Mau Ping Estate							330m	370m	810m	650m	1350m	710m
Hiu Lai Court								410m	330m	530m	1230m	N/A
Hiu Wah Building									370m	270m	970m	N/A
Tsui Ping (North) Estate										N/A	700m	N/A
Kwun Tong (Tsui Ping Road) Terminus											700m	N/A
Kwun Tong MTR Station												N/A

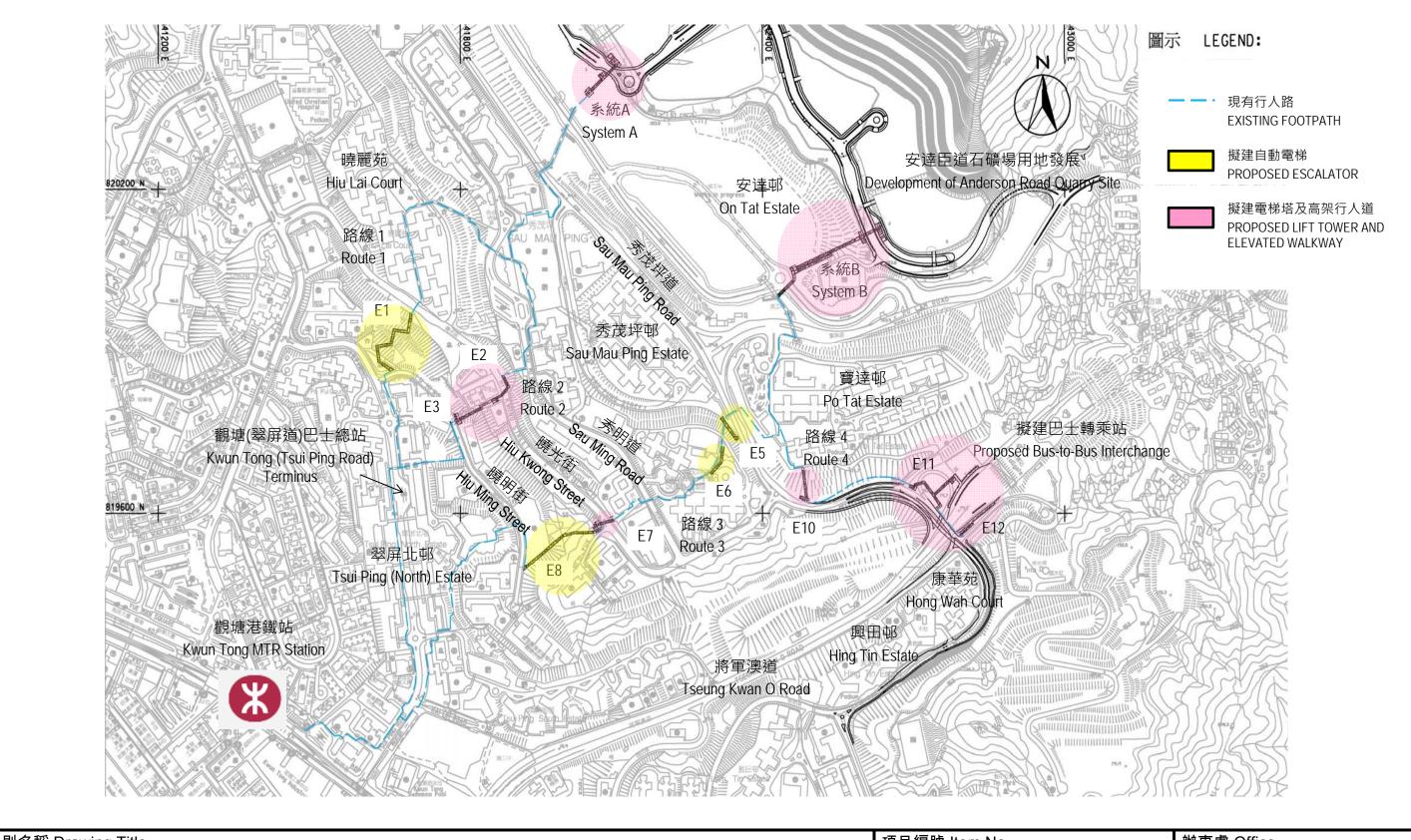
2015 prices)

Breakdown of Construction Cost of PCF (Phase 1)

\$ million

PCF (Phase 1)

(i)	PCF – E1 (escalators)		
(ii)	PCF - E2 and E3 (lift towers	180.8	
	and elevated covered	155.8	
	walkways)		
(iii)	PCF – System A (lift towers,	167.5	
	elevated covered walkway and		
	subway)		
(iv)	PCF - System B (escalators,	275.6	
	lift towers, elevated covered		
	walkways and subway)		
(v)	PCF - E11 (lift towers and	110.1	
	elevated covered walkway)		
(vi)	PCF - E12 (lift tower and	22.4	
	elevated covered walkway)		
(vii)	Proposed BBI	31.1	
	Sub-total	943.3	(in September



圖則名稱 Drawing Title

安達臣道石礦場用地發展 - 擬議行人連繫設施

Development of Anderson Road Quarry Site - Proposed Pedestrian Connectivity Facilities

項目編號 Item No.

765CL

比例 Scale

圖則編號 Drawing No.

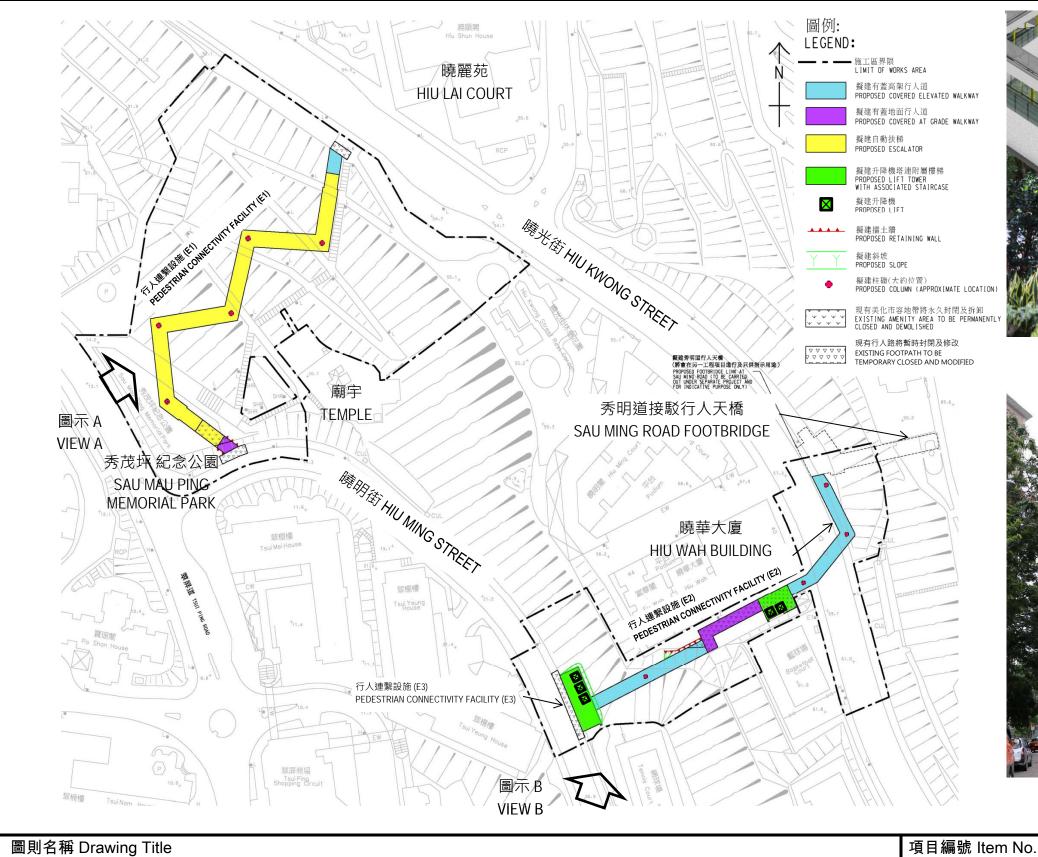
附件一 Appendix 1

辦事處 Office

新界東拓展處

NEW TERRITORIES EAST DEVELOPMENT OFFICE







圖示 A VIEW A

圖示 B

VIEW B

行人連繫設施(E1、E2及E3) - 平面圖及構思圖

Pedestrian Connectivity Facilities (E1, E2 and E3) - Layout Plan and Artist's Impression

765CL

比例 Scale

圖則編號 Drawing No.

附件二 Appendix 2

辦事處 Office

新界東拓展處 **NEW TERRITORIES EAST**

DEVELOPMENT OFFICE





圖則名稱 Drawing Title

行人連繫設施(系統A) - 平面圖及構思圖

Pedestrian Connectivity Facilities (System A) - Layout Plan and Artist's Impression

安逹邨

項目編號 Item No.

765CL

比例 Scale

圖則編號 Drawing No.

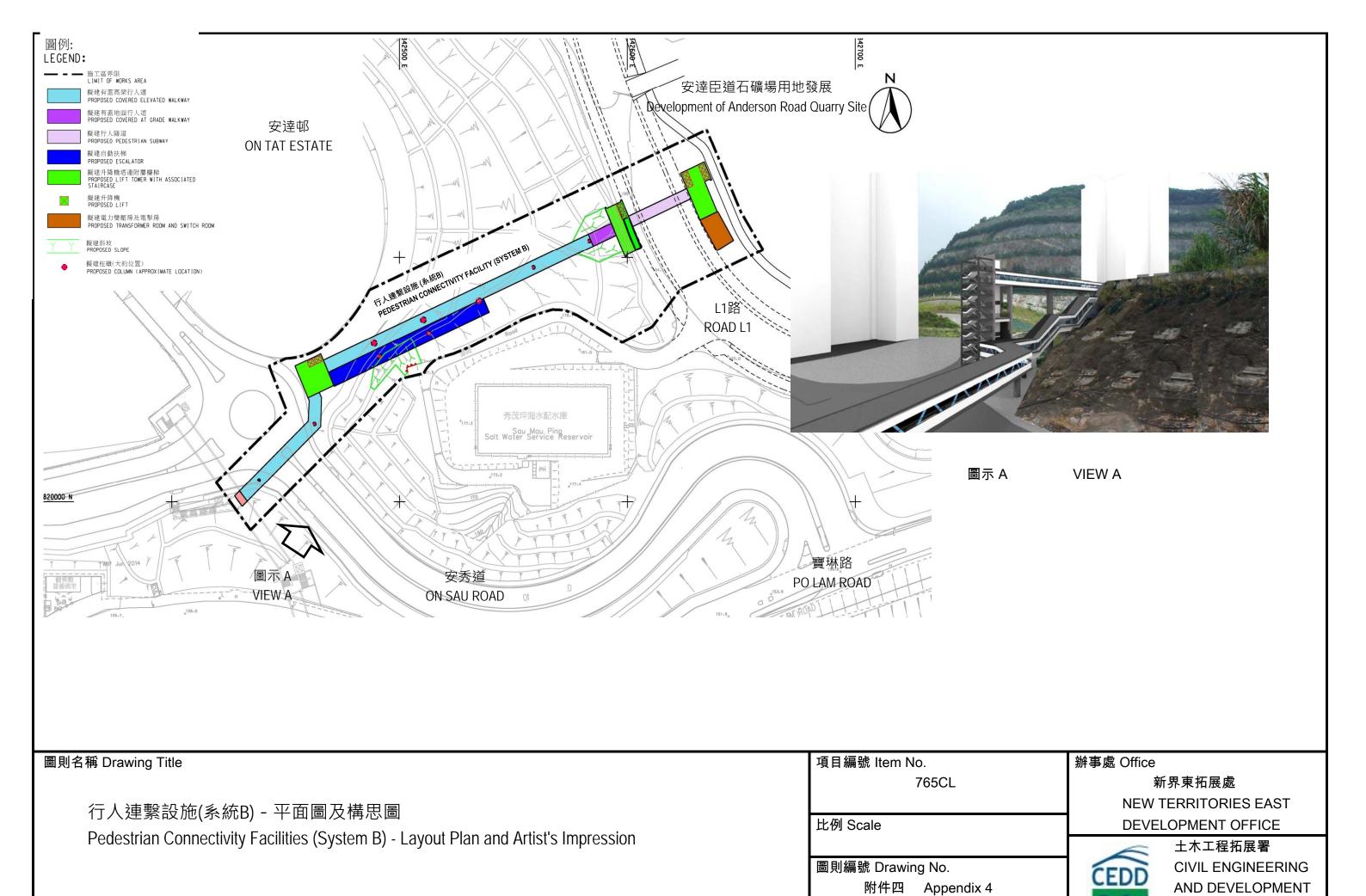
附件三 Appendix 3

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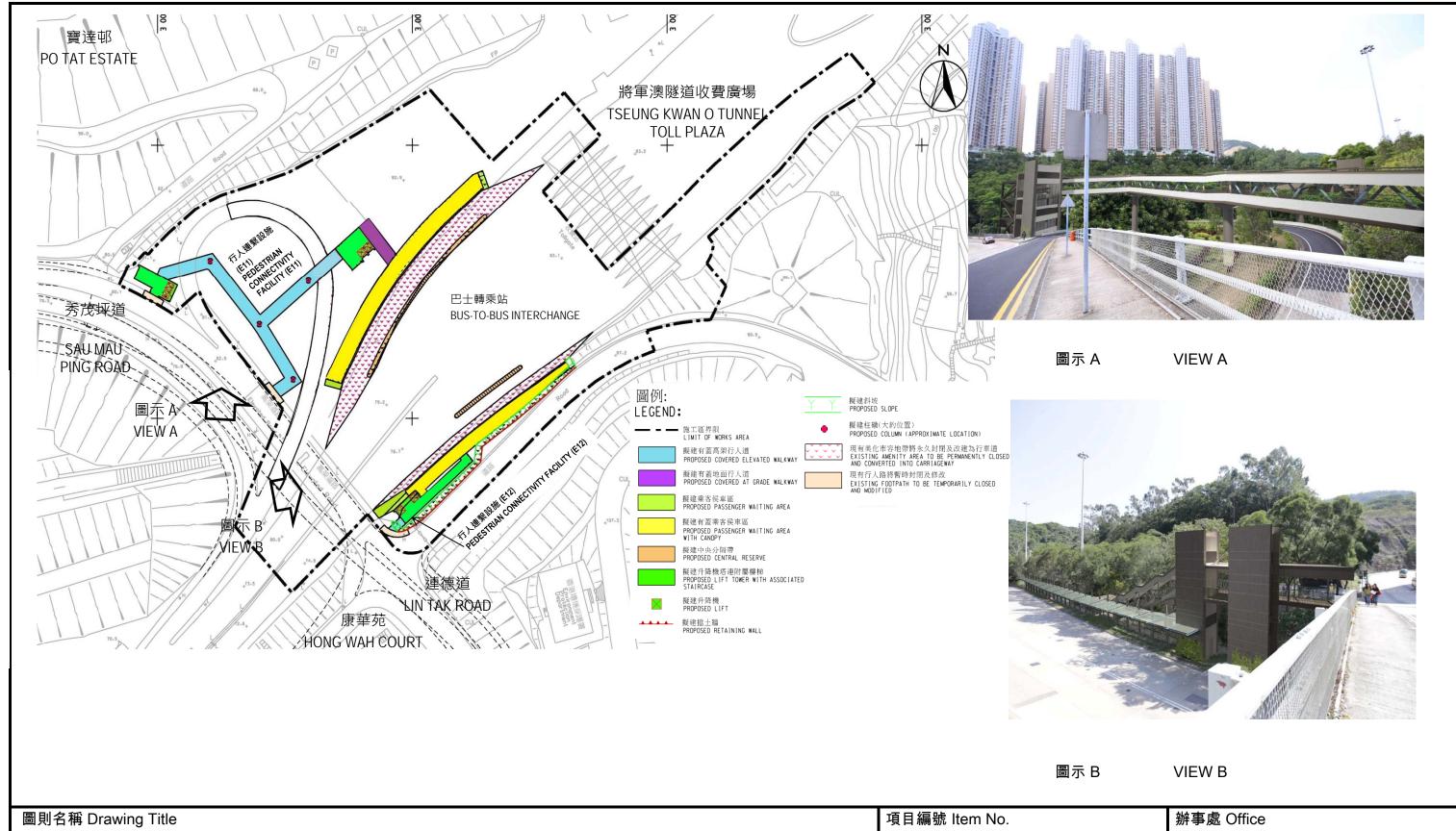
新界東拓展處 NEW TERRITORIES EAST

DEVELOPMENT OFFICE





DEPARTMENT



行人連繫設施(巴士轉乘站、E11及E12) - 平面圖及構思圖 Pedestrian Connectivity Facilities (Bus-to-Bus Interchange, E11 and E12) - Layout Plan and Artist's Impression 765CL

比例 Scale

圖則編號 Drawing No.
附件五 Appendix 5

新界東拓展處 NEW TERRITORIES EAST DEVELOPMENT OFFICE

