

Ref.: AACWBIECEM00\_0\_8828L.16

8 December 2016  
By Post and Fax (2570 8013)

Chun Wo – CRGL – MBEC Joint Venture  
Box 25024,  
King's Road Post Office,  
Hong Kong

Attention: Mr. David Lau

Dear Sir,

**Re: FEP-07/364/2009/D**  
**Contract No. HY/2009/19**  
**Central – Wan Chai Bypass – Tunnel (North Point Section) &**  
**Island Eastern Corridor Link**

**Landscape Plan (Revision 5)**

Reference is made to your submission of the Landscape Plan (Revision 5 dated 2 December 2016) to us through E-mail on 2 December 2016 for our review and comment.

Please be informed that we have no further comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 2.13 of FEP-07/364/2009/D.

Please feel free to contact the undersigned should you have any queries.

Yours sincerely,



David Yeung  
Independent Environmental Checker

c.c.	HyD	Mr. Eddy Wu	by fax: 2714 5289
	CEDD	Mr. Stephen Lo	by fax: 2577 5040
	AECOM	Mr. Peter Poon	by fax: 3912 3010
	LAM	Mr. Raymond Dai (ETL)	by fax: 2882 3331

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# Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

Ref : G1525/CS/L291/Chun Wo-CRGL-MBEC JV  
Date : 07 December 2016

**Chun Wo - CRGL - MBEC Joint Venture**  
5C, Hong Kong Spinners Industrial Building Phase I  
601-603 Tai Nan West Street,  
Cheung Sha Wan,  
Kowloon,  
Hong Kong

**By Post and Fax (3757 8901)**

華益  
土力  
有限  
公司

**Attn: Mr. David Lau, Project Manager**

Dear Sir,

**Contract No. HY/2009/19**  
**Central – WanChai Bypass Tunnel**  
**(North Point Section) and Island Eastern Corridor Link**  
**Landscape Plan (Rev. 5)**

Referring to the captioned information dated 02 December 2016 received through email on 02 December 2016, we have reviewed your submitted details and hereby certify the submission in accordance with Condition 2.13 & 2.14 of FEP-07/364/2009/D.

Should you have any enquiry, please feel free to contact the undersigned at 2839 5666.

Yours faithfully,

Raymond Dai  
Environmental Team Leader

C.C.

HyD	- Mr. Eddy Wu	(By Fax: 2714 5289)
AECOM	- Mr. Peter Poon	(By Fax: 3153 5812)
AECOM	- Mr. Frankie Fan	(By Fax: 2587 1877)
Ramboll ENVIRON	- Mr. David Yeung	(By Fax: 3548 6988)

**Responses to Comments from Planning Department dated 25 November 2016**

**Ref: (7) in EP2/H4/S3/15 Pt. 43**

<b>Comments received:</b>		<b>Responses:</b>
(a)	It is noted that the consultant has updated paragraph 1 in page 3 of Appendix F to include Seaview Estate as VSR affected by the proposed noise barriers / screening / semi-enclosure of Island Eastern Corridor. The consultant should also update paragraph 2 in page 6 of Section 8.1 accordingly.	Noted and paragraph 2 in page 6 of Section 8.1 has been updated.



俊和-中國中鐵-中鐵大橋局聯營  
CHUN WO - CRGL - MBEC JOINT VENTURE

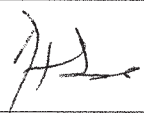

## LANDSCAPE PLAN

For

Contract No.: HY/2009/19

Central – Wan Chai Bypass  
Tunnel (North Point Section)  
and  
Island Eastern Corridor Link

(Pursuant to the Further Environmental Permit - No. FEP-07/364/2009/D)

Revision:	5	Prepared by:	Approved by:
Date:	02/12/16		
		M.H. Isa	David Lau
		Environmental Officer	Site Agent

C2, 5/F., Hong Kong Spinners Industrial Building, 601-603 Tai Nan West Street,  
Cheung Sha Wan, Kowloon, Hong Kong.





**REGISTRY OF NOISE MANAGEMENT PLAN AMENDED**

Rev. No.	Amendment Date	Amendment Section	Content	Amended by
0	04 Jul 2011		Initial Revision	M.H. Isa
1	01 Mar 2012	Section 9.0	Attachment of Implementation Schedule	M.H. Isa
2	26 Feb 2013	Section 1.2	Scope of Work	M.H. Isa
		Section 5.3	Tree Preservation, Protection and Transplanting	
		Section 8.0	Control of Impact	
3	17 Dec 2013	Section 5.3	Tree Preservation, Protection and Transplanting (last 2 paragraph)	M.H. Isa
4	21 Mar 2016	One of the reason for fine-tuning the Landscape Plan is to alignment with the requirements of FEP-07/364/2009/D		M.H. Isa
		List of Content	Section 5.0, 8.0, 9.0, 10.0, Appendix F and Appendix G	
		Section 1.0	Introduction (Updated the revision of FEP)	
		Section 1.2	Scope of Work (Omitted the last 2 lines)	
		Section 5.0	Construction Stage Implementation Programme (Title of section 5.0 changed)	
		Section 5.3	Tree Preservation, Protection and Transplanting (The first 2 bullet points fine-tuned to better reflect the Landscape Plan)	
		Section 6.0	Design and Fixing Details of Hoarding (To align with Noise Management Plan Rev. 4 approved on 10 Mar 2016)	
		Section 7.3	Tree Preservation, Protection and Transplanting (Deleted last 2 paragraphs and added a new one)	
		Section 8.0	Operation Stage Implementation Programme (New section added)	
		Section 9.0	Control of Impact (Previously Section 8.0 and revised after 8.0(viii))	
		Section 10.0	On Site Supervision (Previously Section 9.0 and amended the last line to read as 'Refer to Appendix G for the implementation Schedule )	
		Appendix F (New Appendix added)	Design Consideration, Details and Material Specification of the Semi-enclosures and Barriers	
		Appendix G (New Appendix added)	Implementation Schedule	
5	03 Jun 2016	Section 5.3 & 7.3	Tree Preservation, Protection and Transplanting	M.H. Isa
		Section 3.0	Visual Sensitive Receivers	
	23 Aug 2016	Section 2.0	Landscape Mitigation Measures	M.H. Isa
		Appendix E	Location Plan of Trees to Retain / Transplant	
		Section 1.0	Introduction	
	Appendix F	Design Consideration, Details and Material Specification of the Semi-enclosures and Barriers		
02 Dec 2016	Section 8 subsection 8.1	Operation Stage Implementation Programme		

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## 1.0 Introduction

The purpose of this plan is to demonstrate design details, locations, implementation programme, maintenance and management schedules in accordance with the Condition 2.13 and 2.14 of the Further Environmental Permit No. FEP-07/364/2009/D.

The current landscape proposal is conforming to the findings of the approved EIA Report. The recommended landscape mitigation measures mentioned in section 2.0 will be followed by means of regular maintenance and inspections with tree specialist at monthly interval. Tree transplanted will be kept in a nursery for regular maintenance.

### 1.1 Project Description

This designated Project (HY/2009/19) is a part of the CWB project, which shall provide relief to the existing congestion along the East-West corridor and cater for the anticipate growth of traffic on Hong Kong Island.

### 1.2 Scope of Work

The scope of the Project mainly includes:

- Construction of a 300-metre-long tunnel at North Point;
- Construction of an approach road to the tunnel;
- Modification of the section of Island Eastern Corridor between Hing Fat Street and Po Leung Kuk Yu Lee Mo Fan Memorial School;
- Modification of the junction of Victoria Park Road and Hing Fat Street;
- Demolition of Rumsey Street Flyover eastbound in Central;
- Sub-structure works of the East Ventilation Building and the foundation works of the Administration Building; and
- Associated works including landscaped deck, noise barriers, noise semi-enclosures, road drainage and landscaping works.
- The Preservation and Protection of Existing Trees

## 2.0 Landscape Mitigation Measures

The proposed landscape mitigation measures during construction phase are listed below:

- Tree Transplant, compensatory tree planting for trees felled and to protect existing trees to be retained during construction (**Refer Appendix E**)

### 3.0 Visual Sensitive Receivers

The following visual sensitive receivers (VSRs) are likely to be affected during the construction phase of the project:

- C36 (Citicorp Centre);
- C37 (Victoria Centre);
- C52 (AIA Tower);
- C53 (Newton Hotel);
- C54 (Electric Centre);
- C54A (Sea View Estate);
- C/R14 (Viking Garden);
- C/R15 (50-52 Hing Fat Street);
- C/R16 (Mayson Garden Building);
- C/R17 (Gordon House);
- C/R18 (Belle House);
- GIC12 (Electric Road);
- R4 (Harbour Heights);
- R5 (Residential Properties fronting King Wah Road);
- R6 (City Garden);
- R7 (Provident Centre).

The above VSRs are mapped in **Appendix B**.

### 4.0 Source of Landscape / Visual Impacts

Sources of night-time lighting impact during construction phase would include:

- Site Investigations;
- Removal of existing dolphins;
- Installation of temporary piles and marine piling;
- Construction of box culvert at Watson Road;
- Surcharge activity at Portion V;
- Bored pile construction on land;
- Open-cut construction of tunnel;

- Substructure works for East Ventilation Building and foundation work to Administration Building;
- Construction of Diaphragm Wall;
- Concreting activities;
- Construction site traffic;
- Solar powered lighting including other lighting at site office; and
- <sup>1</sup>Signal sensor light on yellow marker buoys which are laid to mark the position of the anchors extending from the working vessels.

(1= Referring to Marine Department Notice No. 154 & 192 of 2010 and 23of 2011 .)

## 5.0 Construction Stage Implementation Programme

### 5.1 Decorative Screen Hoarding:

- Decorative screen hoarding will be erected between Watson Road and Oil Street (below the elevated road) and extending beyond Oil Street towards City Garden while typical hoarding of 2.4m high will also be erected at the above mentioned location but on backfilled areas near the sea. The tentative programme will be from 04 Aug 2011 to 28 Apr 2017. The location of the hoarding is shown in **Appendix C**.
- Any existing decorative screen hoarding handed over after site possession will be maintained.

### 5.2 Night-time Lighting:

- Night-time lighting control tentatively scheduled from 28 Apr 2011 till 28 Apr 2017.

### 5.3 Tree Preservation, Protection and Transplanting:

- Tree preservation and transplanting will be carried out in accordance with the Development Bureau Technical Circular ‘DEVB TC(W) No. 7/2015 – Tree Preservation’, which has been scheduled tentatively from 10 Nov 2011 till 28 Apr 2017.
- During construction, tree(s) affected by the Project works would be transplanted and exiting trees to be retained would be protected. For any tree felled, compensatory tree(s) will be planted in accordance with the relevant technical circular DEVB TC(W) No. 7/2015.

Summary table for “Construction Phase Landscape and Visual Mitigation Measures” is attached after section 9.0



A tree monitoring report is submitted regularly for the trees transplanted and is a separate submission. Appendix E refers to the trees to be transplanted / retained. For any tree fell or any compensating tree planting in the future. This will be included / updated in the Plan.

Tree preservation schedule and summary of protection method/measures is described in section 7.3

As the approved EIA has not identified any trees for this contract therefore trees felling, retained, etc. follows contracts requirement as shown in Appendix E.

As per comments from Planning Department (PlanD), progress photos would be forwarded to PlanD on bi-monthly basis by the contractor via regular submission for the tree reports.

## **6.0 Design and Fixing Details of Hoarding**

The layout, alignment and design details of decorative screen hoarding are shown in **Appendix D**. The Landscape Plan will be amended accordingly from time to time to reflect the graphical design of the decorating screen hoardings in the future (refer to Noise Management Plan for details).

## **7.0 Maintenance and Management Schedule**

### **7.1 Decorative Screen Hoarding:**

Daily cleaning and weekly inspection will be carried out to prevent accumulation of debris and to maintain the apparent quality of the hoarding. Any damage found will be made good.

### **7.2 Night-time Lighting:**

Floodlights will be checked every night to ensure that they are diverted away from sensitive receivers where practical.

Lighting installed for safety and security reasons will not cause disturbance to the public. Lighting, if needed, will be directed towards the work areas and away from the sensitive receivers where practical.

### **7.3 Tree Preservation, Protection and Transplanting:**

The service of a specialist contractor “Pegasus Greenland Ltd.” has been employed for tree transplanting to the designated nursery approved by the Engineer.

The specialist contractor employed will prepare and submit a Tree Survey Report for approval by the Engineer for subsequent submission to Planning Department which will include the survey schedules, location plans for the trees and their receptor sites, methodology of transplanting, photos showing trees to be transplanted and the like. Details shall be referred in separate submission.

During construction, tree(s) affected by the Project works would be transplanted and existing trees to be retained would be protected. (Refer to **Appendix E** for any tree to be transplanted / retained. Also included in the **Appendix E** are the tree schedule and the location of the nursery for trees to be transplanted). For any tree felled, compensatory tree(s) will be planted in accordance with the relevant technical circular DEVB TC(W) No. 7/2015.

## 8.0 Operation Stage Implementation Programme

8.1 Under the Environmental Permit (EP-364/2009/D), to minimize road traffic impact to sensitive receivers, noise barriers/screening/semi-enclosures will be built on the Central-Wan Chai Bypass project.

The noise barriers/screening/semi-enclosures of Island Eastern Corridor (IEC) will mainly affect visual sensitive receivers (VSR) of lower floors of Victoria Centre, Harbour Heights, Seaview Estate, City Garden, Provident Centre and nearby schools in North Point. Amenity planting along the eastbound and westbound of IEC with vertical greening of semi-enclosures above the planter, together with other mitigation measures mentioned below during the construction and operation phases, it is considered the visual impacts of noise barriers/screening/semi-enclosures are slight on VSRs in North Point.

### 8.2 Mitigation Measures

To mitigate visual impact due to semi-enclosures and barriers constructed under the project. The semi-enclosures and barriers will compose of:

- (i) Transparent panels, translucent panels and/or green roof with translucent skylight in the upper part where appropriate; and
- (ii) Green panels with planters in the lower part where appropriate.

For details and material specifications, refer to **Appendix F**.

For the design of landscape deck, the detail design is still under consideration by Highways Department and the Engineer. Once it is formalised, the Landscape Plan will then be amended accordingly.

Due to the maintenance concern of the green panel during the operation phase, an alternative arrangement for a portion of green panel at the outer side of eastbound bridge has been proposed and the detailed explanatory note has been attached in **Appendix F**.

## 9.0 Control of Impact

The following measures will be implemented where practicable to minimise impact:

- (i) Control of night-time lighting – Carefully planning of any night-time work will be adopted to minimize the use of unnatural lighting;
- (ii) The need of using equipment headlights / lightings will be assessed for optimum usage and to minimize the number of unnatural lighting;
- (iii) Where lightings are needed, these will be aimed away from the visual sensitive receivers where necessary;
- (iv) For floodlights mounted on the barges, the direction of light will be oriented to open sea facing downwards and away from the visual sensitive receivers where possible;
- (v) Signal sensor light would be attached on buoys for ensuring safe navigation;
- (vi) Solar powered lighting including other lighting at the site office will be oriented away from VSRs.
- (vii) Erection of decorative screen hoarding comparable with the surrounding setting.
- (viii) During construction, tree(s) affected by the Project works would be transplanted and exiting trees to be retained would be protected. For any tree felled, compensatory tree(s) will be planted in accordance with the relevant technical circular No. 7/2015.

The construction phase mitigation measures are in compliance with relevant requirements in the EIA Report. The Landscape Plan will be amended accordingly from time to time to reflect the graphical design of the decorating screen hoardings in the future (refer to Noise Management Plan for details).

Hard landscape work is expected to complete tentatively in July 2017 followed by the soft landscape work.

## 10.0 On Site Supervision

The lighting impact will be monitored and assessed by designated person during night-time construction work. Upon any public concerns or complaints, lights will be repositioned, redirected or shielded where necessary.

Refer to **Appendix G** for the Implementation Schedule.



## LANDSCAPE PLAN

FOR

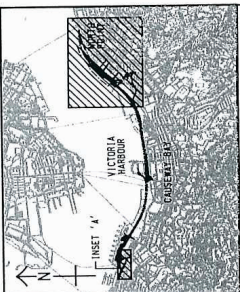
**Contract No.: HY/2009/19**

**Central – Wan Chai Bypass  
Tunnel (North Point Section)  
and  
Island Eastern Corridor Link**

**Appendix A**

**Project Site Boundary**





**LEGEND:**  
--- WORKS SITE BOUNDARY

REV	DATE	DESCRIPTION	BY	CHKD
1		ISSUED FOR INFORMATION	ST	-
2		ISSUED FOR PERMIT	ST	-
3		ISSUED FOR PERMIT	ST	-

**Chun Wo - CRGL-MBEC JV**

**CENTRAL WALKWAY BYPASS AND IEC LINK**  
NORTH POINT SECTION AND ISLAND EASTERN CORRIDOR LINK

**TITLE:** GENERAL LAYOUT PLAN

SKETCH NO. 60095653/IEC/DF/0006

SCALE 1:10000 (A1)







## **LANDSCAPE PLAN**

**FOR**

**Contract No.: HY/2009/19**

**Central – Wan Chai Bypass  
Tunnel (North Point Section)  
and  
Island Eastern Corridor Link**

### **Appendix B**

#### **Location Plan of Visual Sensitive Receivers**



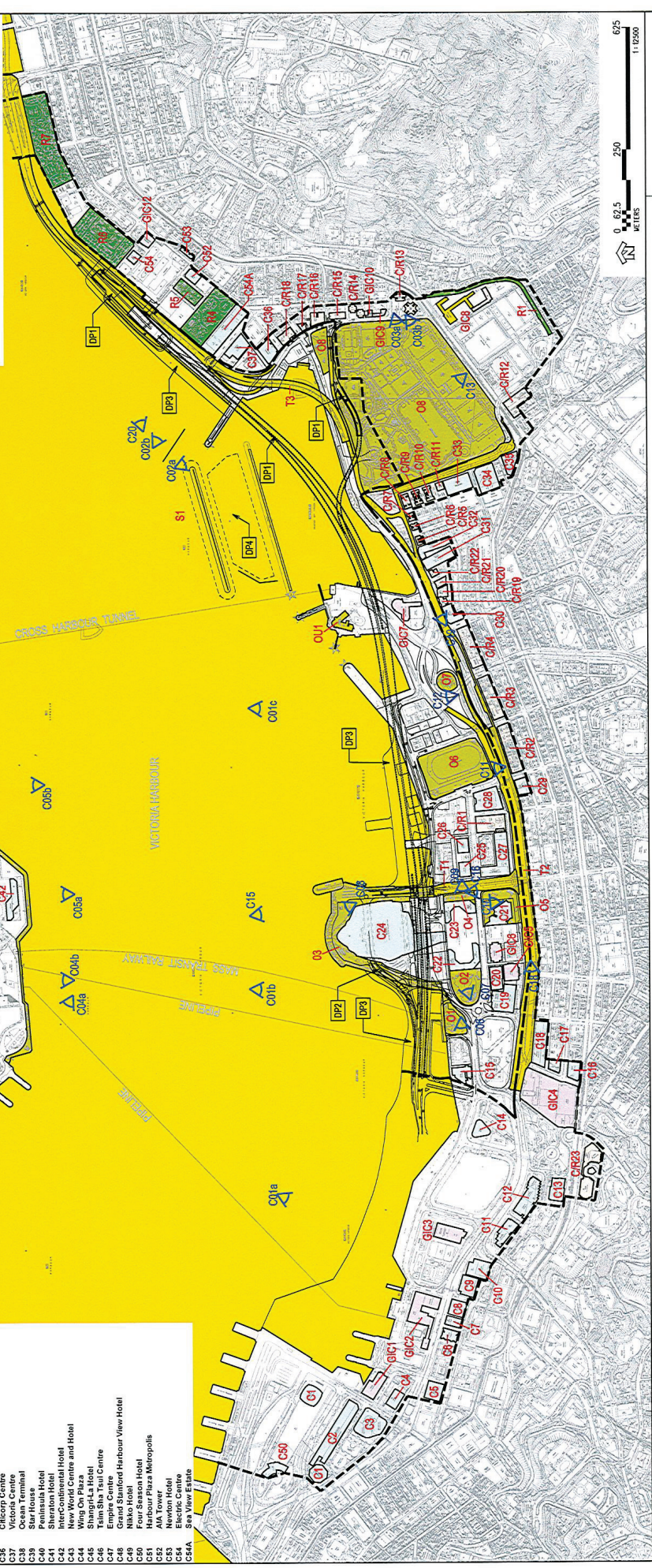
- KEY FOR VISUAL SENSITIVE RECEIVERS**
- C1 International Finance Centre
  - C2 AECOM Development Phase 2
  - C3 Exchange Square
  - C4 Jardine House
  - C5 Hong Kong Club
  - C6 Hong Kong Hotel
  - C7 AIA Tower
  - C8 Hutchison Tower
  - C9 Bank of America Tower
  - C10 Far East Financial Centre
  - C11 United Centre
  - C12 CITIC Tower
  - C13 Fleet Arcade
  - C14 Sun Hung Kai Building
  - C15 Sun Hung Kai Tower
  - C16 Sun Hung Kai Tower
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  - C49 Sun Hung Kai Tower
  - C50 Sun Hung Kai Tower

- G1C1 General Post Office
- G1C2 P.A. Headquarters at Tamar
- G1C3 Hong Kong Police Force Headquarters, May House
- G1C4 Wai Chai Tower
- G1C5 Police Officers' Club
- G1C6 Queen's College Post Office
- G1C7 Victoria Park School for the Deaf
- G1C8 Wanchai Park School for the Deaf
- G1C9 Wanchai Park School for the Deaf
- G1C10 Wanchai Park School for the Deaf
- G1C11 Wanchai Park School for the Deaf
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- G1C48 Wanchai Park School for the Deaf
- G1C49 Wanchai Park School for the Deaf
- G1C50 Wanchai Park School for the Deaf

- R1 Residential Properties fronting Tung Lo Wan Road
- R2 Residential Properties fronting Tung Lo Wan Road
- R3 Residential Properties fronting Tung Lo Wan Road
- R4 Residential Properties fronting Tung Lo Wan Road
- R5 Residential Properties fronting Tung Lo Wan Road
- R6 Residential Properties fronting Tung Lo Wan Road
- R7 Residential Properties fronting Tung Lo Wan Road
- R8 Residential Properties fronting Tung Lo Wan Road
- R9 Residential Properties fronting Tung Lo Wan Road
- R10 Residential Properties fronting Tung Lo Wan Road
- R11 Residential Properties fronting Tung Lo Wan Road
- R12 Residential Properties fronting Tung Lo Wan Road
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- R18 Residential Properties fronting Tung Lo Wan Road
- R19 Residential Properties fronting Tung Lo Wan Road
- R20 Residential Properties fronting Tung Lo Wan Road
- R21 Residential Properties fronting Tung Lo Wan Road
- R22 Residential Properties fronting Tung Lo Wan Road
- R23 Residential Properties fronting Tung Lo Wan Road

**LEGEND**

- PLANNING AND ENGINEERING REVIEW STUDY AREA BOUNDARY
- LIMIT OF PRIMARY ZONE OF VISUAL INFLUENCE
- BOUNDARY OF KEY VSRs
- PHOTO TAKING POINT WITH PHOTO NO.
- COMMERCIAL
- COMMERCIAL / RESIDENTIAL
- RESIDENTIAL
- RECREATIONAL
- GOVERNMENT / INSTITUTION / COMMUNITY
- TRANSPORT
- DP1 CENTRAL-WANCHAI BYPASS (CWB) INCLUDING ITS ROAD TUNNEL AND SLIP ROADS
- DP2 ROAD P2 AND OTHER ROADS WHICH ARE CLASSIFIED AS PRIMARY/DISTRICT DISTRIBUTOR ROADS
- DP3 RECLAMATION WORKS INCLUDING ASSOCIATED DREDGING WORKS
- DP4 TEMPORARY TYPHOON SHELTER







## LANDSCAPE PLAN

FOR

**Contract No.: HY/2009/19**

**Central – Wan Chai Bypass  
Tunnel (North Point Section)  
and  
Island Eastern Corridor Link**

### Appendix C

### Location Plan of Decorative Screen Hoarding









## LANDSCAPE PLAN

FOR

**Contract No.: HY/2009/19**

**Central – Wan Chai Bypass  
Tunnel (North Point Section)  
and  
Island Eastern Corridor Link**

### Appendix D

### Design Details of Decorative Screen Hoarding

**NOTE:**  
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH  
1. DING, INC., NO. 60095653/EC/1301 & 1302 AND 1317-1314.

**GENERAL:**  
1.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATION AND PARTICULAR REQUIREMENTS AS SHOWN ON INDIVIDUAL DRAWINGS.  
1.2 UNLESS OTHERWISE SPECIFIED, THESE GENERAL NOTES ARE APPLICABLE TO SPECIAL SITE HOARDING ONLY.  
1.3 ALL REFERENCES OF STANDARD DRAWING SHALL BE REFERRED TO THE LATEST VERSION OF THAT STANDARD DRAWING.

**DIMENSIONS AND LEVELS:**  
2.1 ALL REFERENCES OF STANDARD DRAWING SHALL BE REFERRED TO THE LATEST VERSION OF THAT STANDARD DRAWING.  
2.2 LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (HPD) UNLESS OTHERWISE NOTED.  
2.3 DIMENSIONS ARE IN MILLIMETRES.  
2.4 DIMENSIONS ARE IN METRES.  
2.5 SETTING OUT DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SOLELY PHYSICALLY OR ELECTRONICALLY FROM THE DRAWINGS OR FILES.

**CONCRETE:**  
3.1 ALL REFERENCES OF STANDARD DRAWING SHALL BE REFERRED TO THE LATEST VERSION OF THAT STANDARD DRAWING.  
3.2 PRECAST CONCRETE BLOCK  
GRADE 40/20, COVER 35MM  
GRADE 10/20

**BLINDING LAYER**  
3.2 ALL REFERENCES OF STANDARD DRAWING SHALL BE REFERRED TO THE LATEST VERSION OF THAT STANDARD DRAWING.  
3.3 CONSTITUENT MATERIALS, MIX DESIGN AND TESTING REQUIREMENTS ARE DEFINED IN THE HONG KONG GOVERNMENT GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS 2006 EDITION.  
3.4 ACCORDING WITH THE HONG KONG GOVERNMENT GENERAL SPECIFICATION FOR DESIGN SHALL BE OF P. 22 IN ACCORDANCE WITH THE HONG KONG GOVERNMENT GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS 2006.

**REINFORCEMENT:**  
4.1 STEEL REINFORCEMENT SHALL COMPLY WITH CONSTRUCTION STANDARD C52 : 1995 OF HONG KONG.  
4.2 STEEL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF CONSTRUCTION STANDARD C52:1995 AND SHALL BE BENT IN ACCORDANCE WITH BS8666:2005.  
4.3 REINFORCEMENT NOTATION IS AS FOLLOWS:  
30/250/250/250 (E)

**ND. OF BARS**  
4.4 REINFORCEMENT IS SHOWN DIAGRAMMATICALLY ON THE DRAWINGS AND DOES NOT INTEND TO SHOW THE PRECISE LOCATION OF BARS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. BAR SPACING IS MEASURED PERPENDICULAR TO THE BAR.  
4.5 TOP OR NEAR SIDE BARS SHOWN AS  
4.6 ABSERRATIONS:  
B BOTTOM  
4.7 BARS SHALL BE LAPPED AT THE LOCATIONS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER IF BARS ARE TO BE LAPPED ELSEWHERE.  
4.8 MINIMUM ANCHORAGE LENGTHS FOR STRAIGHT BARS ARE AS FOLLOWS:

**CONCRETE GRADE: F40/20/MP**

DIAMETER	ANCHORAGE LENGTH	TENSION	COMPRESSION
10	350	280	415
12	420	340	495
16	560	450	660
20	700	565	825
25	875	705	1030
32	1115	900	1315
40	1395	1125	1645

**CONCRETE GRADE: F40/20/MP**

DIAMETER	ANCHORAGE LENGTH	TENSION	COMPRESSION
10	400	350	560
12	450	390	630
16	560	480	795
20	700	595	990
25	875	740	1260
32	1115	930	1555
40	1395	1175	1965

**CONCRETE GRADE: F40/20/MP**

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25	875	740	1260
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**CONCRETE GRADE: F40/20/MP**

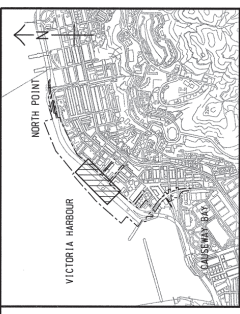
DIAMETER	ANCHORAGE LENGTH	TENSION	COMPRESSION
10	400	350	560
12	450	390	630
16	560	480	795
20	700	595	990
25	875	740	1260
32	1115	930	1555
40	1395	1175	1965

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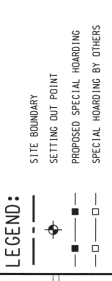
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20	700	595	990
25	875	740	1260
32	1115	930	1555
40	1395	1175	1965

**EXTERIOR DESIGN OF HOARDING:**  
7.1 PURSUANT TO THE PARTICULAR SPECIFICATION, THE CONTRACTOR SHALL PROVIDE 3 ALTERNATIVE OPTIONS OF AESTHETIC PROFESSIONAL GRAPHIC DESIGNS FOR THE SPECIAL HOARDING.

**SPECIAL HOARDINGS:**  
8.1 FOR STANDARD HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWINGS H610 AND H611.  
8.2 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H612.  
8.3 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H613.  
8.4 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H614.  
8.5 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H615.  
8.6 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H616.  
8.7 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H617.  
8.8 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H618.  
8.9 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H619.  
8.10 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H620.  
8.11 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H621.  
8.12 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H622.  
8.13 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H623.  
8.14 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H624.  
8.15 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H625.  
8.16 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H626.  
8.17 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H627.  
8.18 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H628.  
8.19 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H629.  
8.20 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H630.  
8.21 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H631.  
8.22 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H632.  
8.23 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H633.  
8.24 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H634.  
8.25 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H635.  
8.26 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H636.  
8.27 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H637.  
8.28 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H638.  
8.29 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H639.  
8.30 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H640.  
8.31 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H641.  
8.32 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H642.  
8.33 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H643.  
8.34 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H644.  
8.35 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H645.  
8.36 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H646.  
8.37 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H647.  
8.38 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H648.  
8.39 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H649.  
8.40 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H650.  
8.41 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H651.  
8.42 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H652.  
8.43 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H653.  
8.44 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H654.  
8.45 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H655.  
8.46 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H656.  
8.47 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H657.  
8.48 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H658.  
8.49 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H659.  
8.50 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H660.  
8.51 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H661.  
8.52 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H662.  
8.53 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H663.  
8.54 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H664.  
8.55 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H665.  
8.56 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H666.  
8.57 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HKO STANDARD DRAWING H667.  
8.58

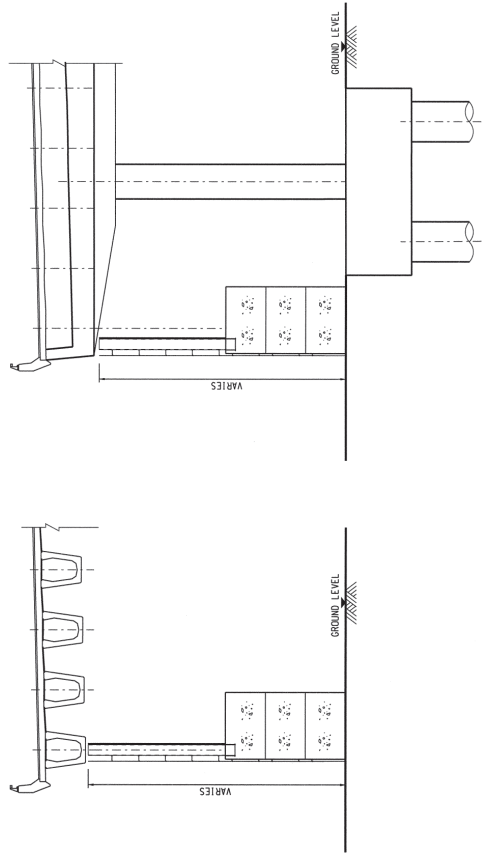
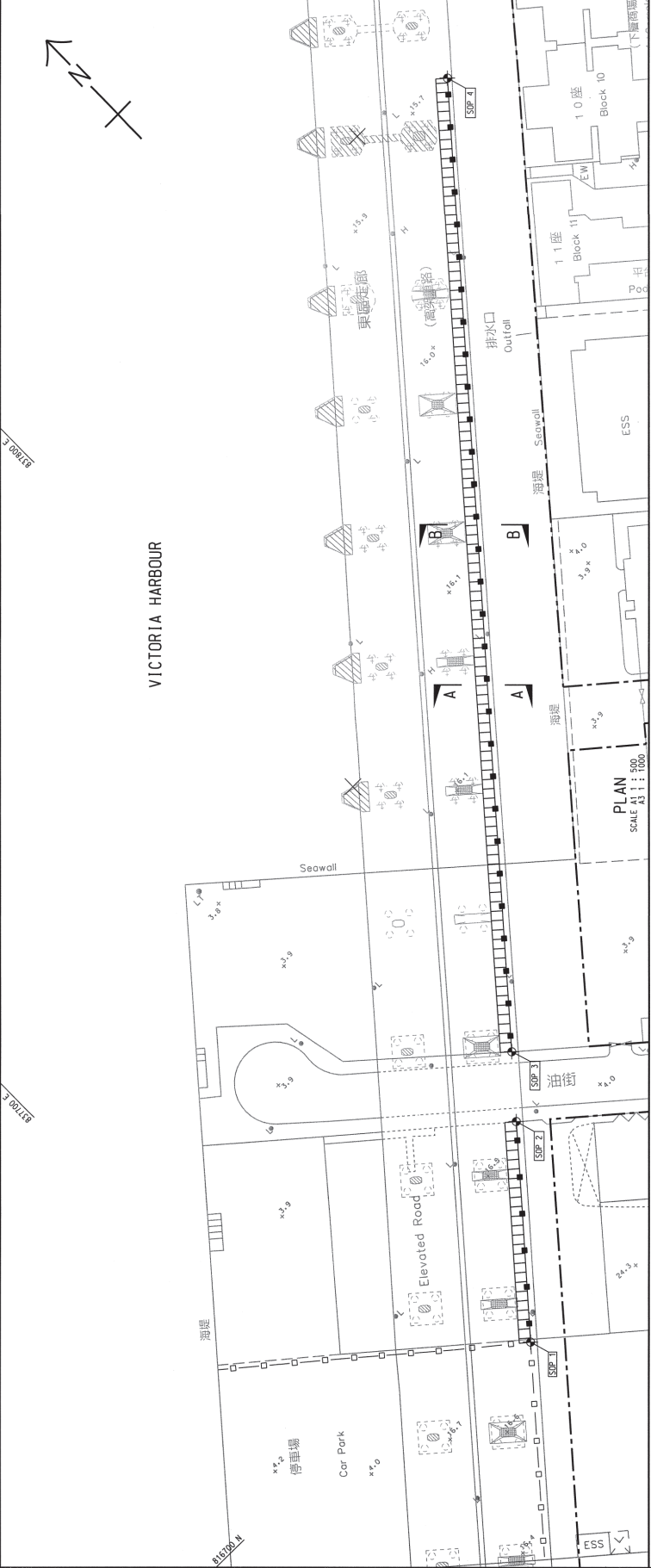


**NOTES:**  
1. FOR GENERAL NOTES, PLEASE REFER TO DRG.  
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRG. NO. 60095653/IEC/1311 AND 1313-1314.



**SETTING OUT POINTS:**

	EASTING	NORTHING
SOP 1	837742.786	816886.796
SOP 2	837744.220	816723.165
SOP 3	837844.162	816734.672
SOP 4	837922.88X	818995.220



A	WORKING DRAWING	ALC/FBC	DEC 10
-	TENDER DRAWING	ALC/FBC	MAY 10
REV	REVISION	DATE	BY

Highways Department 路政署  
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH  
工務計劃項目編號

LAYOUT AND SECTIONS OF SPECIAL HOARDING



DRGNO. 60095653/IEC/1312A  
圖紙編號

DATE: 11/2009/19  
日期: 11/2009/19

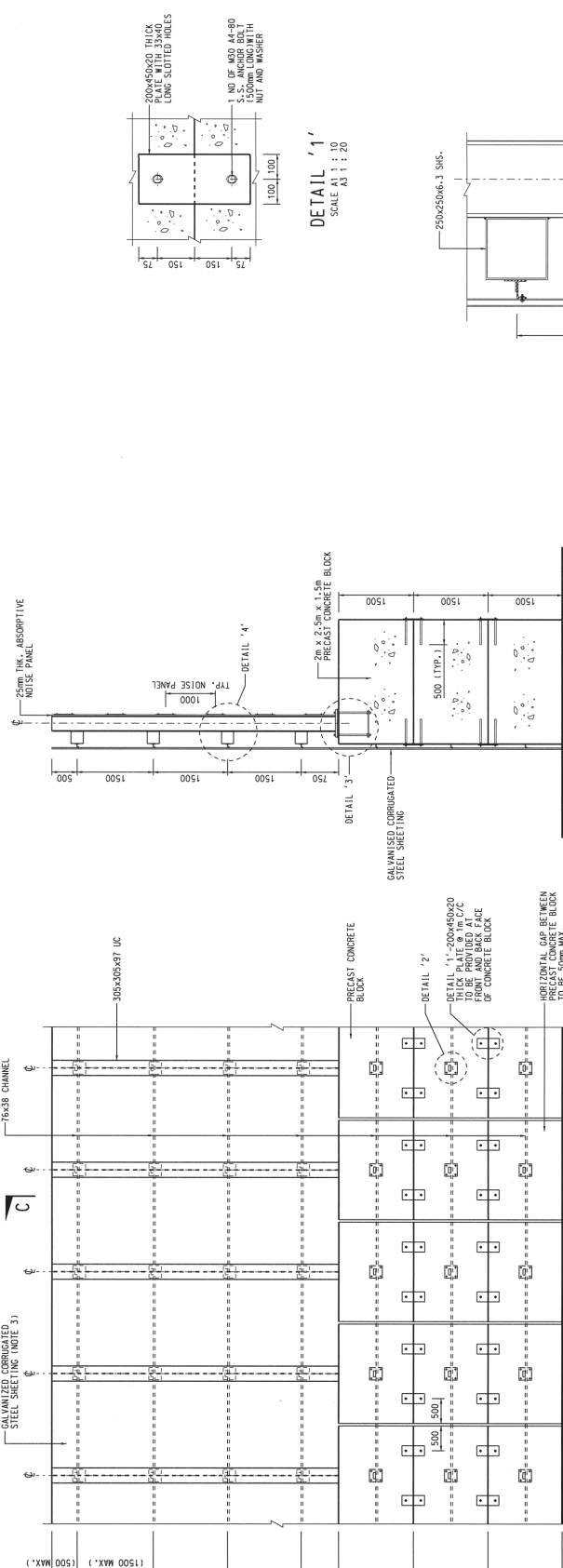
SCALE: A3 AS SHOWN  
圖紙比例: 按圖紙所示

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**NOTES:**

- REFER TO DRAWING 60095653/IEC/1311 FOR GENERAL NOTES.
- WORKING DRAWING IS TO BE READ IN CONJUNCTION WITH DRG. NO. 60095653/IEC/1312 AND 1314.
- CORRUGATED STEEL SHEETING SHALL HAVE SECTION MODULUS NOT LESS THAN 4000mm<sup>3</sup>/m. THE SHEETING SHALL BE TO BS5889 0/0 0308.



**ELEVATION**  
SCALE A1 : 50  
A3 : 100

**SECTION C - C**  
SCALE A1 : 50  
A3 : 100

**DETAIL '1'**  
SCALE A1 : 10  
A3 : 20

**ELEVATION**  
SCALE A1 : 50  
A3 : 100

**SECTION D - D**  
SCALE A1 : 5  
A3 : 10

**DETAIL '2'**  
SCALE A1 : 10  
A3 : 20

**DETAIL '3'**  
SCALE A1 : 10  
A3 : 20

**DETAIL '4'**  
SCALE A1 : 10  
A3 : 20

**DETAIL '3'**  
SCALE A1 : 10  
A3 : 20

**DETAIL '2'**  
SCALE A1 : 5  
A3 : 10

**SECTION D - D**  
SCALE A1 : 5  
A3 : 10

**DETAIL '3'**  
SCALE A1 : 10  
A3 : 20

**SECTION E - E**  
SCALE A1 : 10  
A3 : 20

1	WORKING DRAWING	16/03/2010
2	REVISION	16/03/2010
3	REVISION	16/03/2010
4	REVISION	16/03/2010
5	REVISION	16/03/2010

**Highways Department 路政署**  
**Major Works Project Management Office**

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH  
工務計劃項目編號

DETAILS OF SPECTRAL HOARDING  
SHEET 1 OF 2



DRG. NO. 60095653/IEC/1313A  
圖號

DATE 16/03/2010  
日期

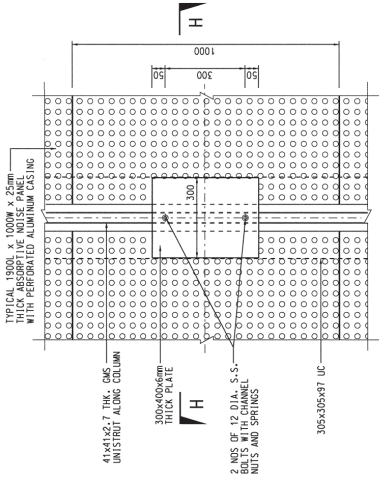
SCALE A1 : 10  
A3 : 20  
比例

WORKING DRAWING  
工務計劃圖樣  
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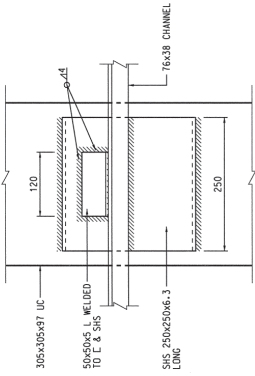
**NOTES:**

1. REFER TO DRAWING 60095653/IEC/1311 FOR GENERAL NOTES.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING 60095653/IEC/1311.
3. TYPE OF RUCKWOOL HAVING A SURFACE DENSITY OF NO LESS THAN 14 KG/M<sup>2</sup> AND A THICKNESS OF 25mm.
4. THE NOISE ABSORPTIVE MATERIAL SHALL BE USED ON THE USE OF 1mm THICK ALUMINUM SHEET WITH PERFORATION AT THE FRONT FACE. THE GRADE OF ALUMINUM SHALL BE GRADE 5083. THE PERFORATION OF THE ALUMINUM SHEET AT THE FRONT SHALL BE 35%.



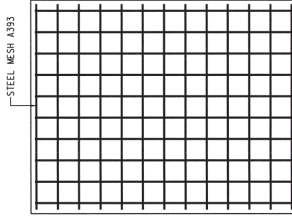
**ELEVATION G - G**

SCALE A3 1 : 20



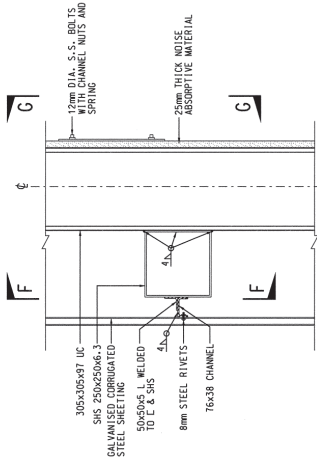
**SECTION F - F**

SCALE A1 1 : 5  
A3 1 : 10



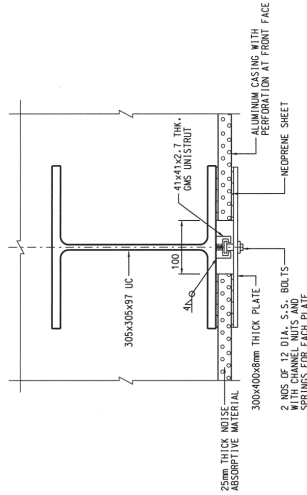
**CONCRETE BLOCK REINFORCEMENT**

STEEL MESH A3B3 TO BE PROVIDED FOR ALL SIX SIDES OF CONCRETE BLOCKS  
SCALE A3 1 : 20



**DETAIL ' F - F**

SCALE A1 1 : 10  
A3 1 : 20



**SECTION H - H**

FIXING DETAIL FOR ABSORPTIVE NOISE PANELS  
SCALE A1 1 : 5  
A3 1 : 10

A	WORKING DRAWING	REVISED	DEC 10
-	TENDER DRAWING	REVISED	MAY 10
REVISED	DATE	BY	REASON

Highways Department 路政署  
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH  
工務計劃項目編號

DESIGNED BY: WAN CHAI BYPASS - TUNNEL  
NORTH POINT SECTION AND ISLAND EASTERN CORRIDOR LINK

DETAILS OF  
SPECIAL HOARDING

SHEET 2 OF 2

**AECOM**

DRGNO. 60095653/IEC/1314A  
圖紙編號

DESIGNED BY	ALCF	DATE	11/2009/19	REVISED	CH
CHECKED BY	YML	DATE		REVISED	

SCALE: A1 AS SHOWN  
A3 AS SHOWN  
圖則比例: A1 按圖所示  
A3 按圖所示

WORKING DRAWING  
圖則

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MILLIMETRES

**GENERAL :**

- 1.1 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATION AND PARTICULAR REQUIREMENTS AS SHOWN ON INDIVIDUAL DRAWINGS.
  - 1.2 UNLESS OTHERWISE SPECIFIED, THESE GENERAL NOTES ARE APPLICABLE TO SPECIAL SITE HOARDING ONLY.
  - 1.3 ALL REFERENCES OF STANDARD DRAWING SHALL BE REFERRED TO THE LATEST VERSION OF THAT STANDARD DRAWING.
- DIMENSIONS AND LEVELS:**
- 2.1 ALL REFERENCES OF STANDARD DRAWING SHALL BE REFERRED TO THE LATEST VERSION OF THAT STANDARD DRAWING.
  - 2.2 LEVELS ARE IN METRES RELATIVE TO HONG KONG PRINCIPAL DATUM (HPD) UNLESS OTHERWISE NOTED.
  - 2.3 DIMENSIONS ARE IN MILLIMETRES.
  - 2.4 DIMENSIONS ARE IN METRES.
  - 2.5 SETTING OUT DIMENSIONS, LEVELS, COORDINATES ARE TO BE CALCULATED BY THE CONTRACTOR. NO INFORMATION SHOULD BE SOLELY PHYSICALLY OR ELECTRONICALLY FROM THE DRAWINGS OR FILES.
- CONCRETE:**
- 3.1 ALL REFERENCES OF STANDARD DRAWING SHALL BE REFERRED TO THE LATEST VERSION OF THAT STANDARD DRAWING.
  - 3.2 FINISHING SHALL BE AS FOLLOWS:
    - GRADE 40/20, COVER 50MM
    - GRADE 30/20, COVER 50MM
    - GRADE 10/20
  - 3.3 CONCRETE SHALL BE CASTED IN THE MINIMUM 90 DAYS SUBSEQUENT TO THE START OF WORKS IN ORDER TO AVOID THE RISK OF CONCRETE CRACKS. THE MINIMUM SIZE OF CONCRETE SHALL NOT EXCEED 30MM.
  - 3.4 CONSTITUTIVE MATERIALS, MIX DESIGN AND TESTING REQUIREMENTS ARE DEFINED IN THE HONG KONG GOVERNMENT GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS 2006 EDITION.
  - 3.5 REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE HONG KONG GOVERNMENT GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS 2006 EDITION.
  - 3.6 UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL BE IN MILLIMETRES UNLESS OTHERWISE NOTED.

**REINFORCEMENT:**

- 4.1 STEEL REINFORCEMENT SHALL COMPLY WITH CONSTRUCTION STANDARD C32 : 1995 OF HONG KONG.
- 4.2 STEEL REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF CONSTRUCTION STANDARD C32:1995 AND SHALL BE BENT IN ACCORDANCE WITH BS8666:2005.
- 4.3 REINFORCEMENT NOTATION IS AS FOLLOWS:
  - 30/20/20/20 (E)
- 4.4 REINFORCEMENT NOTATION IS AS FOLLOWS:
  - ND. OF BARS
  - TYPE OF BAR
  - WILD STEEL BAR OF GRADE 250
  - HIGH YIELD DEFORMED BAR OF GRADE 460
  - FABRIC TO BS4449.
  - SPECIFIED CHARACTERISTIC STRENGTH OF STRUCTURAL STEEL
  - SPECIFIED CHARACTERISTIC STRENGTH OF WRAPPING MESH FABRIC TO BE 250N/mm<sup>2</sup>
- 4.5 TOP OR NEAR SIDE BARS SHOWN AS
- 4.6 ABSABBATIONS:
  - B BOTTOM
  - T TOP
- 4.7 BARS SHALL BE LAPPED AT THE LOCATIONS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER IF BARS ARE TO BE LAPPED ELSEWHERE.
- 4.8 MINIMUM ANCHORAGE LENGTH FOR STRAIGHT BARS ARE AS FOLLOWS:
 

CONCRETE GRADE: F40/20/MP	CONCRETE GRADE: F40/20/MP	CONCRETE GRADE: F40/20/MP
DIAMETER	ANCHORAGE LENGTH	ANCHORAGE LENGTH
10	350	280
12	420	340
16	560	450
20	700	560
25	875	700
32	1115	900
40	1395	1125
- 4.9 MINIMUM LAP LENGTH FOR VARIOUS BAR SIZES ARE AS FOLLOWS UNLESS SHOWN OTHERWISE ON THE DRAWINGS:
 

CONCRETE GRADE: F40/20/MP	CONCRETE GRADE: F40/20/MP	CONCRETE GRADE: F40/20/MP	CONCRETE GRADE: F40/20/MP
DIAMETER	MIN. LAP LENGTH	MIN. LAP LENGTH	MIN. LAP LENGTH
10	400	350	560
12	450	390	630
16	560	475	780
20	700	580	980
25	875	700	1220
32	1115	900	1500
40	1395	1125	1875

**WELDING:**

- 5.1 ALL WELDING SHALL COMPLY WITH THE STANDARDS AS STIPULATED IN THE SPECIFICATIONS.
- 5.2 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.3 WELDING FOR CARBON MANGANESE STEEL SHALL COMPLY WITH BS EN 1011-1:1998 AND BS EN 1011-2:2001 CONTINUOUS FILLET WELD SHALL BE USED FOR ALL JOINTS UNLESS OTHERWISE SPECIFIED. WELD SHALL BE GRADE TEST ELECTRODES WITH CAPACITY OF 250N/mm<sup>2</sup>.
- 5.4 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.5 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.6 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.7 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.8 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.9 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.10 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.11 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.12 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.13 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.14 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.15 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.16 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.17 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.18 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.19 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.20 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.21 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.
- 5.22 WELDING SHALL BE CARRIED OUT BY CERTIFIED WELDERS AS DESCRIBED IN THE SPECIFICATION.

**PRECAST CONCRETE BLOCK:**

- 6.1 PRECAST CONCRETE BLOCKS SHALL BE REINFORCED WITH STEEL FABRIC TO B.S. 4883 TYPE A 335 ON ALL SIDES.
  - 6.2 PRECAST CONCRETE BLOCKS SHALL BE SET ON GROUNDS WITH AN ALLOWABLE BEARING CAPACITY GREATER THAN 350 KPA UNLESS PERMITTED BY THE ENGINEER. PLATE LOAD TESTS SHALL BE CARRIED OUT TO VERIFY THE SOIL BEARING CAPACITY TO THE SATISFACTION OF THE ENGINEER.
  - 6.3 THE CONTRACTOR SHALL DESIGN AND PROVIDE THE LIFTING EYES TO THE PRECAST CONCRETE BLOCK. THE DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- EXTERIOR DESIGN OF HOARDING:**
- 7.1 PURSUANT TO THE PARTICULAR SPECIFICATION, THE CONTRACTOR SHALL PROVIDE 3 ALTERNATIVE OPTIONS OF AESTHETIC PROFESSIONAL GRAPHIC DESIGNS FOR THE SPECIAL HOARDING.
- SPECIAL HOARDINGS:**
- 8.1 FOR STANDARD HOARDINGS, DETAILS SHALL BE REFERRED TO HYDRO STANDARD DRAWINGS H610 AND H611.
  - 8.2 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HYDRO STANDARD DRAWINGS H610 AND H611.
  - 8.3 THE CONTRACTOR SHALL DESIGN AND PROVIDE THE LIFTING EYES TO THE PRECAST CONCRETE BLOCK. THE DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

**PAINTING:**

- 9.1 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.2 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.3 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.4 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.5 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.6 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.7 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.8 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.9 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.10 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.

**PROPOSED GRAPHICAL DESIGN OF DECORATIVE SCREEN HOARDINGS & FUTURE TREE TRANSPLANTING (BY OTHERS)**



**PROPOSED GRAPHICAL DESIGN OF DECORATIVE SCREEN HOARDINGS & FUTURE TREE TRANSPLANTING (BY HY/2009/19)**



**NOTE:**

- 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH 1. Dwg. No. 60095653/IEC/1301 & 1302 AND 1312-1314.

- 5.3.1 HOLLOW SECTIONS : GRADE S355JD OR EQUIVALENT
- 5.3.2 SECTIONS OTHER THAN : GRADE S355JD OR EQUIVALENT
- 5.3.3 PLATES FOR STRUCTURAL ELEMENTS : GRADE S355JD OR EQUIVALENT
- 5.3.4 CIRCULAR ELEMENT : GRADE S355JD OR EQUIVALENT
- 5.3.5 CONNECTION BOLTS : A307 CLASS 8.8
- 5.3.6 WELDING : AS STIPULATED IN THE SPECIFICATIONS

- 5.4 IN ACCORDANCE WITH BS EN 10025:1993, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE NOTCH TOUGHNESS AND THE CHARPY IMPACT REQUIREMENTS OF THE STEEL. THE SELECTION OF THE STEEL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 5.4.1 OF BS 5950 : PART 1 : 1990 BASED ON A MINIMUM TEMPERATURE OF 10 °C.

- 5.5 STAINLESS STEEL SHALL COMPLY WITH THE STANDARDS AS STIPULATED IN THE SPECIFICATIONS.
- 5.6 STAINLESS STEEL SHALL COMPLY WITH THE STANDARDS AS STIPULATED IN THE SPECIFICATIONS.
- 5.7 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.8 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.9 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.10 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.11 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.12 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.13 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.14 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.15 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.16 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.17 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.18 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.19 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.20 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.21 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.
- 5.22 UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS, ALL FASTENERS SHALL BE STAINLESS STEEL.

**GENERAL NOTES:**

- 6.1 FOR STANDARD HOARDINGS, DETAILS SHALL BE REFERRED TO HYDRO STANDARD DRAWINGS H610 AND H611.
- 6.2 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HYDRO STANDARD DRAWINGS H610 AND H611.
- 6.3 THE CONTRACTOR SHALL DESIGN AND PROVIDE THE LIFTING EYES TO THE PRECAST CONCRETE BLOCK. THE DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

**EXTERIOR DESIGN OF HOARDING:**

- 7.1 PURSUANT TO THE PARTICULAR SPECIFICATION, THE CONTRACTOR SHALL PROVIDE 3 ALTERNATIVE OPTIONS OF AESTHETIC PROFESSIONAL GRAPHIC DESIGNS FOR THE SPECIAL HOARDING.

**SPECIAL HOARDINGS:**

- 8.1 FOR STANDARD HOARDINGS, DETAILS SHALL BE REFERRED TO HYDRO STANDARD DRAWINGS H610 AND H611.
- 8.2 FOR SPECIAL HOARDINGS, DETAILS SHALL BE REFERRED TO HYDRO STANDARD DRAWINGS H610 AND H611.
- 8.3 THE CONTRACTOR SHALL DESIGN AND PROVIDE THE LIFTING EYES TO THE PRECAST CONCRETE BLOCK. THE DETAILS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

**PAINTING:**

- 9.1 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.2 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.3 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.4 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.5 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.6 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.7 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.8 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.9 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.
- 9.10 ALL SURFACES SHALL BE PAINTED WITH AN APPROVED WATER-BASED EPOXY RESIN ADHESIVE IMMEDIATELY PRIOR TO THE APPLICATION OF THE FINISH COAT.

DIAMETER	CONCRETE GRADE: F40/20/MP		CONCRETE GRADE: F40/20/MP		CONCRETE GRADE: F40/20/MP	
	MIN. LAP LENGTH	MIN. LAP LENGTH	MIN. LAP LENGTH	MIN. LAP LENGTH	MIN. LAP LENGTH	MIN. LAP LENGTH
10	400	350	560	490	780	630
12	450	390	630	550	900	720
16	560	475	780	660	1120	900
20	700	580	980	825	1400	1130
25	875	700	1220	1000	1720	1380
32	1115	900	1500	1220	2100	1650
40	1395	1125	1875	1500	2550	2020

THE LAP LENGTH SHOULD BE 1.4B OR 1.4D IF ANY OF THE FOLLOWING CONDITIONS APPLY:

- (a) THE LAP LENGTH SHOULD BE 1.4B OR 1.4D IF ANY OF THE FOLLOWING CONDITIONS APPLY:
- (b) THE CLEAR DISTANCE BETWEEN THE LAP AND ANOTHER PAIR OF LAPPED BARS IS LESS THAN 150MM.
- (c) FACE IS LESS THAN TWICE THE BAR SIZE.
- (d) FACE IS LESS THAN TWICE THE BAR SIZE.
- (e) FACE IS LESS THAN TWICE THE BAR SIZE.
- (f) FACE IS LESS THAN TWICE THE BAR SIZE.
- (g) FACE IS LESS THAN TWICE THE BAR SIZE.
- (h) FACE IS LESS THAN TWICE THE BAR SIZE.
- (i) FACE IS LESS THAN TWICE THE BAR SIZE.
- (j) FACE IS LESS THAN TWICE THE BAR SIZE.
- (k) FACE IS LESS THAN TWICE THE BAR SIZE.
- (l) FACE IS LESS THAN TWICE THE BAR SIZE.
- (m) FACE IS LESS THAN TWICE THE BAR SIZE.
- (n) FACE IS LESS THAN TWICE THE BAR SIZE.
- (o) FACE IS LESS THAN TWICE THE BAR SIZE.
- (p) FACE IS LESS THAN TWICE THE BAR SIZE.
- (q) FACE IS LESS THAN TWICE THE BAR SIZE.
- (r) FACE IS LESS THAN TWICE THE BAR SIZE.
- (s) FACE IS LESS THAN TWICE THE BAR SIZE.
- (t) FACE IS LESS THAN TWICE THE BAR SIZE.
- (u) FACE IS LESS THAN TWICE THE BAR SIZE.
- (v) FACE IS LESS THAN TWICE THE BAR SIZE.
- (w) FACE IS LESS THAN TWICE THE BAR SIZE.
- (x) FACE IS LESS THAN TWICE THE BAR SIZE.
- (y) FACE IS LESS THAN TWICE THE BAR SIZE.
- (z) FACE IS LESS THAN TWICE THE BAR SIZE.

**STEEL WORKS:**

- 5.1 ALL DIMENSIONS AND LEVELS, INCLUDING AS CONSTRUCTED HOLDING DOWN BOLT POSITIONS, SHALL BE CHECKED ON SITE BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL FROM THE ENGINEER FOR THE PROPOSED DESIGN.
- 5.2 HOT ROLLED SECTION TO COMPLY WITH OTHER SECTIONS COME WITH OTHER STANDARDS UNLESS APPROVED BY THE ENGINEER.
- 5.3 UNLESS OTHERWISE SPECIFIED, ALL STRUCTURAL STEEL MEMBERS AND ALL STRUCTURAL HOLLOW SECTION SHALL COMPLY WITH BS EN 10025:1993 AND BS EN 10210 PART 1 AND PART 2 RESPECTIVELY.

**DRG. NO.** 60095653/IEC/1311A  
**SCALE** N.T.S.  
**DATE** 11/2009/19  
**PROJECT NO.** HY/2009/19  
**CLIENT** ALCF  
**DESIGNER** MZC  
**CHECKED** MZC  
**APPROVED** CH  
**WORKING DRAWING**  
**COPYRIGHT RESERVED**

**Highways Project Management Office**  
**Major Works Department**  
**GENERAL - WAN CHAI BYPASS AND IEC LINK**  
**PWP ITEM NO. 579 TH**  
**GENERAL NOTES FOR SPECIAL HOARDING**

**AECOM**

**WORKING DRAWING**  
**GENERAL NOTES FOR SPECIAL HOARDING**  
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俊和-中國中鐵-中鐵大橋局聯營  
CHUN WO - CRGL - MBEC JOINT VENTURE

## LANDSCAPE PLAN

FOR

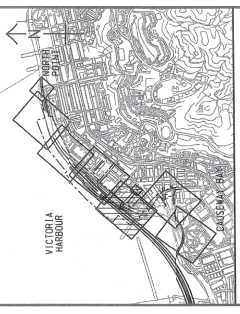
**Contract No.: HY/2009/19**

**Central – Wan Chai Bypass  
Tunnel (North Point Section)  
and  
Island Eastern Corridor Link**

### Appendix E

**Location Plan of Trees to Retain / Transplant**





**KEY PLAN**  
SCALE A3 : 1 : 4000

- NOTES:**
- THIS DRAWING IS TO BE USED IN CONJUNCTION WITH THE DRAWING COVERED BY REFERENCE TO THIS DRAWING.
  - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
  - ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
  - ALL CO-ORDINATES ARE IN ACCORDANCE WITH HK1980 DATUM.
  - DETAILS INCLUDING DIMENSIONS, LEVELS FOR EXISTING ROADS, FLOPPY BRIDGE STRUCTURE ARE INDICATIVE ONLY. CONTRACTOR SHALL VERIFY THE ACTUAL EXISTING DETAILS ON SITE.
  - TREES THAT ARE NOT AFFECTED BY THE PROJECT ARE NOT SHOWN FOR CLARITY.

- LEGEND:**
- EXISTING TREE TO BE RETAINED
  - EXISTING TREE TO BE FELLED
  - EXISTING TREE TO BE TRANSPLANTED
  - F/P FOOTPATH
  - A/M AMENITY AREA
  - UNWANTED TREE TO BE TRANSPLANT



TENDER DRAWING	DATE	1/1/2010
REVISED DRAWING	DATE	1/1/2010
REVISED DRAWING	DATE	1/1/2010
REVISED DRAWING	DATE	1/1/2010

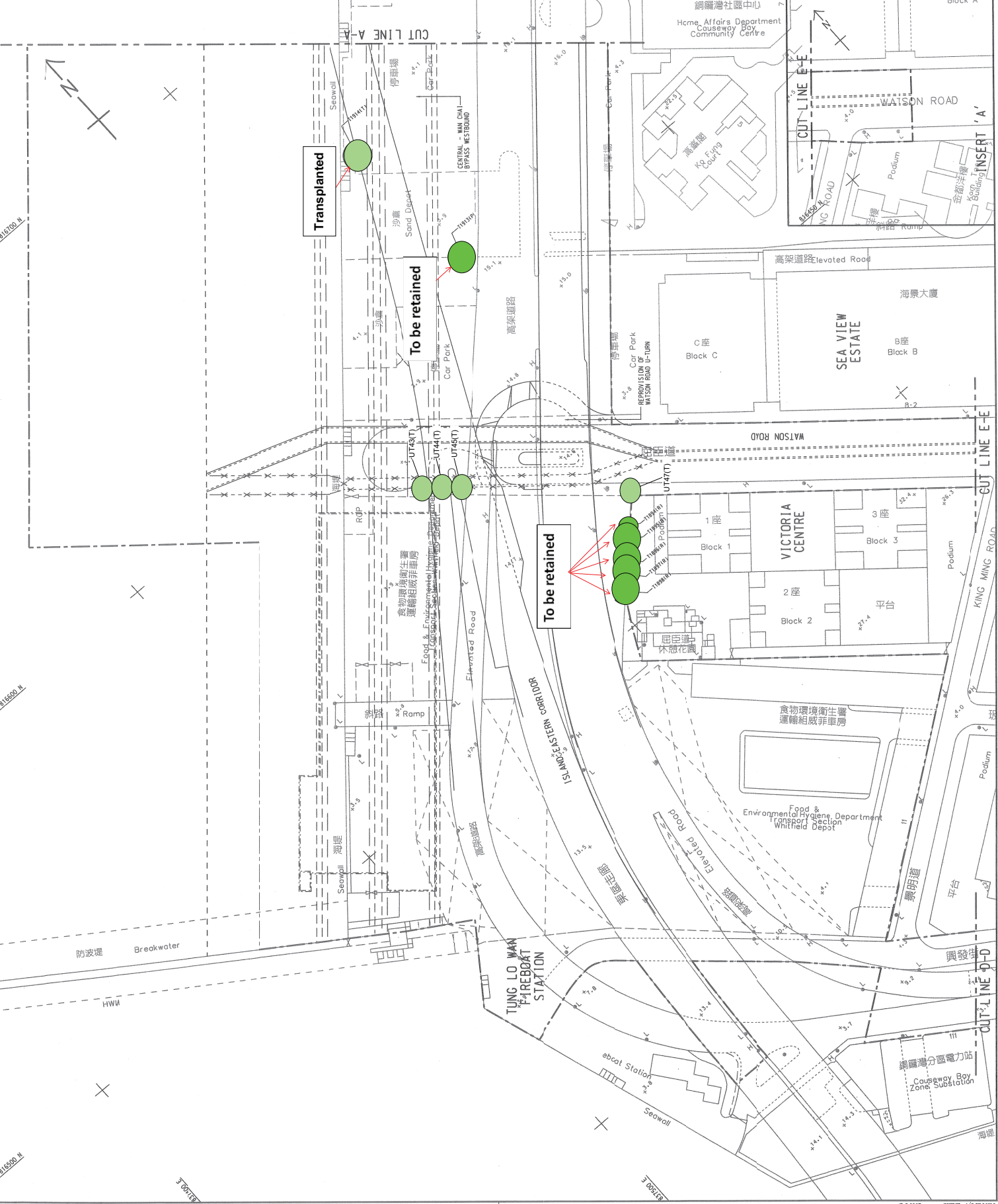
Highways Department 路政署  
Major Works Project Management Office 主要工程項目管理處

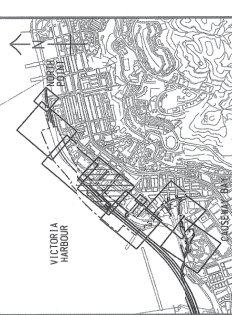
CENTRAL - WAN CHAI BYPASS AND IEG LINK  
PWP ITEM NO. 579 TH  
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS - TUNNEL  
NORTH POINT SECTION AND ISLAND EASTERN CORRIDOR LINK  
**TREE PRESERVATION AND TRANSPLANTING AND FELLING PLAN**  
SHEET 1 OF 6

**AECOM**

DRGNO 60095653/IEC/9001  
PROJECT NO. H/2009/19  
DRAWN BY ALF  
CHECKED BY WYP  
DATE 1/1/2010  
SCALE A3 : 1 : 5000  
METRES  
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**KEY PLAN**  
SCALE A3 1 : 40000

**NOTES:**  
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWINGS NO. 60095653/IEC/9001, 9003 TO 9006.  
2. FOR NOTES AND LEGEND REFER TO DRC. NO. 60095653/IEC/9001.



TENDER DRAWING	ALC/EC	DATE	MAY 10
DESIGNED BY	ALC	PROJECT NO.	HY2009/19
DRAWN BY	WTP	SCALE	A3 1 : 40000
CHECKED BY	WTP	DATE	MAY 10
DATE	A3 1 : 40000	PROJECT NO.	HY2009/19
PROJECT NO.	HY2009/19	SCALE	A3 1 : 40000
DATE	MAY 10	DATE	MAY 10
PROJECT NO.	HY2009/19	SCALE	A3 1 : 40000
DATE	MAY 10	DATE	MAY 10

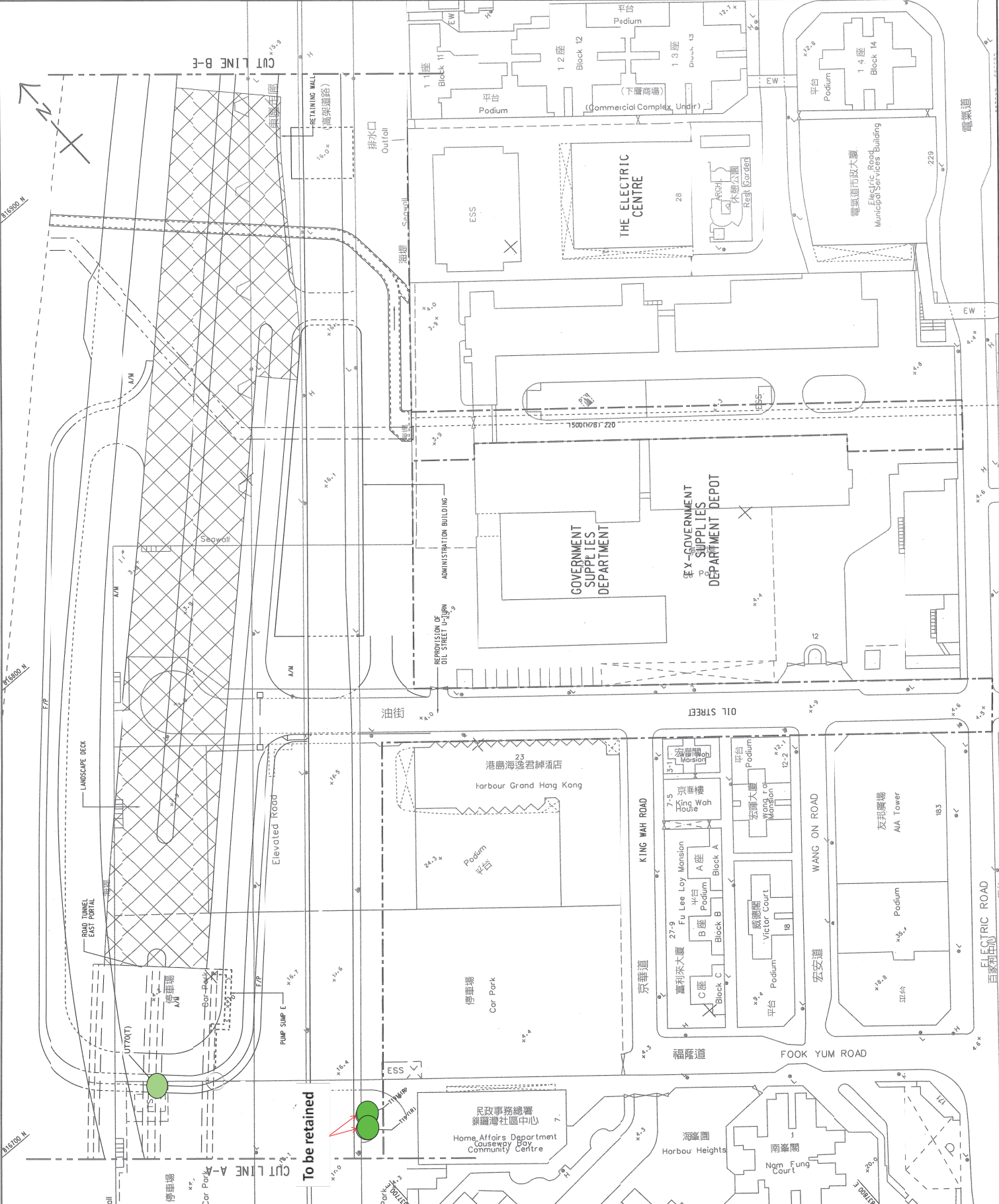
Highways Department 路政署  
Major Works Project Management Office

CENTRAL - WAN CHAI BYPASS AND IEC LINK  
PMP ITEM NO. 579 TH  
工務計劃項目編號

CENTRAL - WAN CHAI BYPASS - TUNNEL  
NORTH POINT SECTION AND ISLAND EASTERN CORRIDOR LINK  
TREE PRESERVATION AND TRANSPLANTING AND FELLING PLAN  
SHEET 2 OF 6

**AECOM**  
60095653/IEC/9002  
PROJECT NO. HY2009/19  
SCALE A3 1 : 40000  
DATE MAY 10

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**LEGEND:**

T11498(R) TREE TRANSPLANTATION NOT REQUIRED  
(UNDER C19 CONTRACT)

T1129(T) ADDITIONAL TREE TO BE TRANSPLANTED  
(UNDER C19 CONTRACT)



REV	DATE	DESCRIPTION	BY	CHK
1	01/05/2013	ISSUED FOR INFORMATION		

**AECOM**

**CENTRAL - WAN CHAI BYPASS AND IEC LINK**  
 CONTRACT NO. HY000519  
 (SHEWAN TOMES & PARTNERS)  
 NORTH POINT SECTION AND EASTERN CORRIDOR LINK  
 TIAU

**TREE LAYOUT PLAN AT VICTORIA PARK**

SKETCH NO. 60059533/IEC/9001A  
 SCALE 1:5000

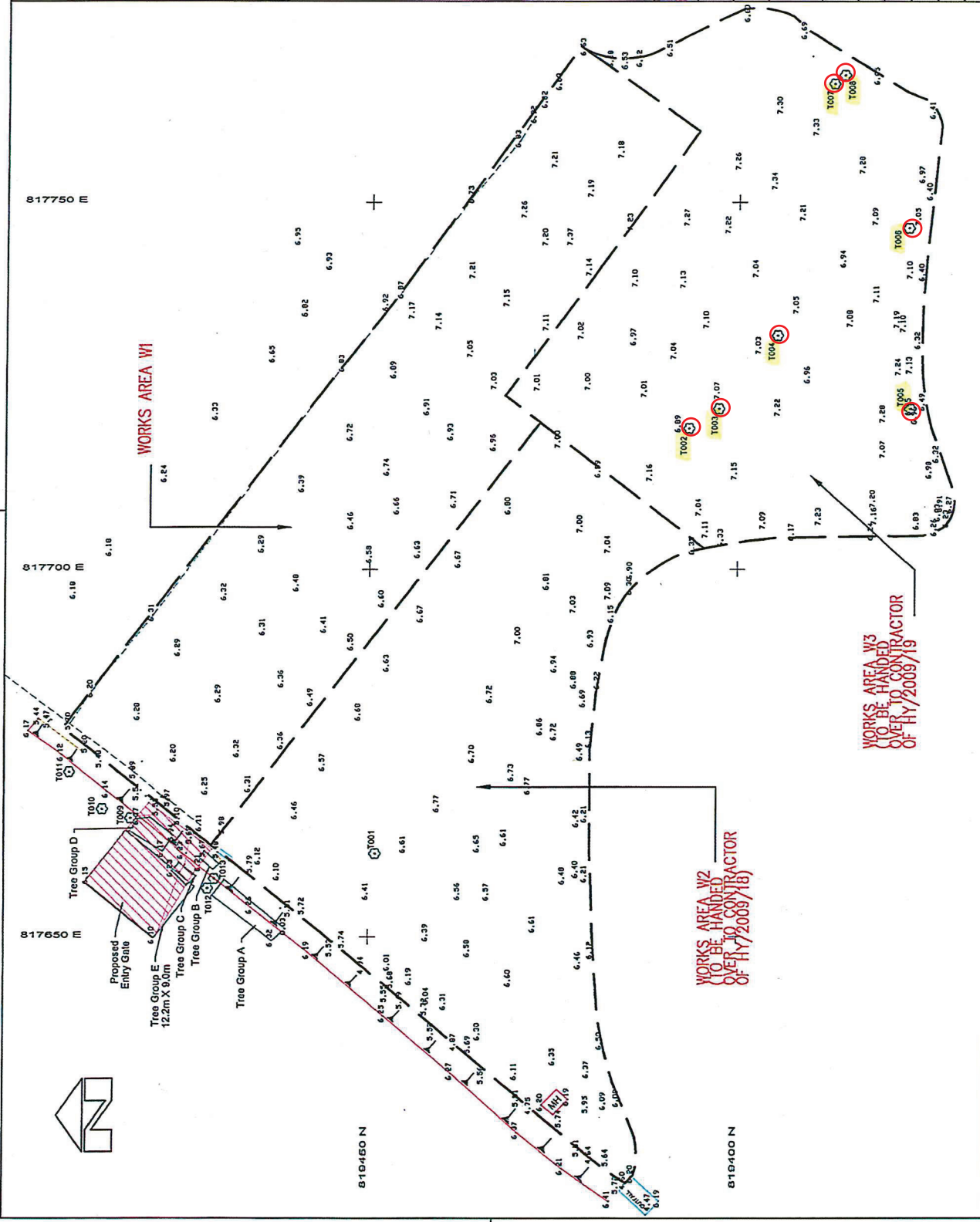
EXTRACTED FROM WORKING DRAWING NO. 60059533/IEC/9001A

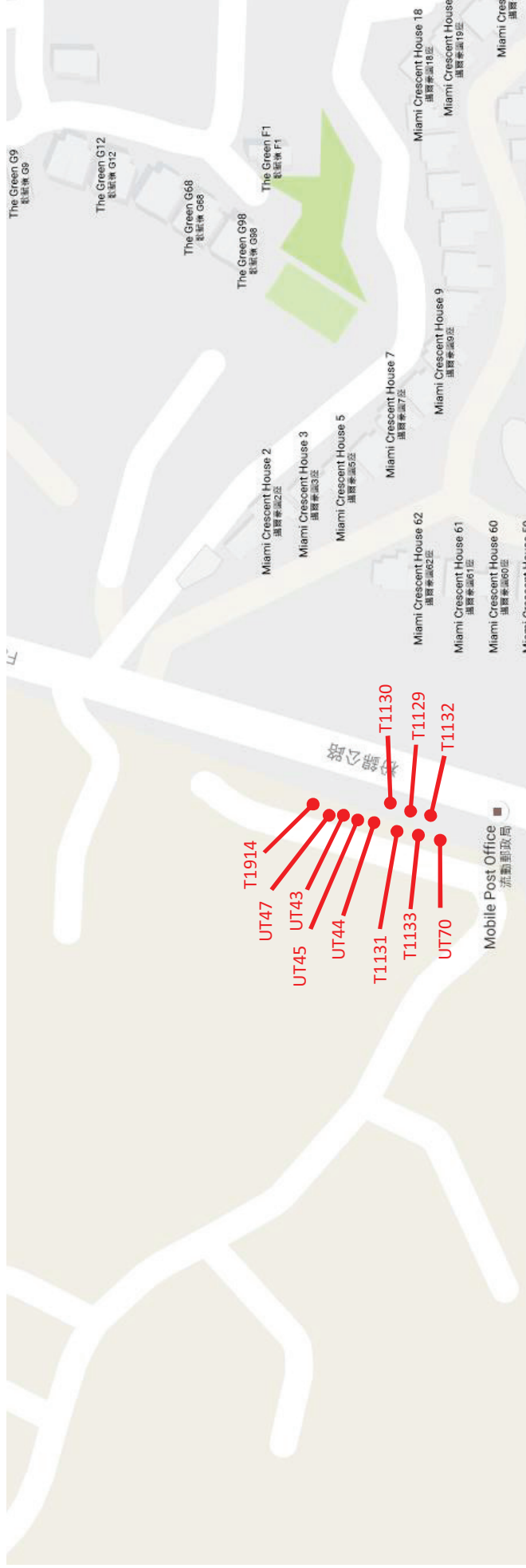
NOTES:  
 1. ALL LEVELS SHOWN ARE IN METRES REFER TO THE SURVEY DATUM (MOPPO) UNLESS OTHERWISE STATED.  
 2. GRID LINES ARE IN H.K. METRIC GRID 1960  
 3. DECIMAL POINT OF SPOT HEIGHT IS THE SURVEYED POSITION OF SURVEYED POINT.

- LEGEND:
- TREE RETAIN
  - SIGN POLE
  - KERB
  - FENCING
  - SLOPE
  - SLOPE TOP
  - SLOPE BOTTOM
  - SPOT LEVEL
  - GATE

**AECOM**  
 香港特区政府  
 公路局  
 主要工程管理  
 Major Works Project Management Office

TITLE:  
 Initial Record Survey Plan  
 (Works Area W1-W3 - Siu Ho Wan)





Tsiu Keng Nursery (DD100) Fan Kam Road



Tree Schedule																	
Tree No.	Botanical Name	Chinese Name	DBH (mm)	Height (m)	Spread (m)	Form			Health			Amenity Value	Action Provided by Client	Original Location	Holding Nursery Location	Date of transplant to nursery	Remarks
						Good	Fair	Poor	Good	Fair	Poor						
UT43	<i>Koelreuteria bipinnata</i>	複葉欒樹	160	-	-	-	-	-	-	-	-	M	T			15-Jan-14	Removed, to be replaced
UT44	<i>Koelreuteria bipinnata</i>	複葉欒樹	140	7.5	4	P	P	P	P	P	P	M	T	Watson Road North Point		15-Jan-14	Beehive observed; Transplanted to Tsiu Keng Nursery on 15 January 2014.
UT45	<i>Koelreuteria bipinnata</i>	複葉欒樹	120	-	-	-	-	-	-	-	-	M	T			15-Jan-14	Removed, to be replaced
UT47	<i>Koelreuteria bipinnata</i>	複葉欒樹	100	-	-	-	-	-	-	-	-	M	T			15-Jan-14	Removed, to be replaced
UT70	<i>Macaranga tanarius</i>	血桐	170	5	3	F	F	F	F	F	F	L	T	FEHD Depot		24-Oct-11	Wound on branch; Replaced on 28 October 2014
T1914	<i>Ficus microcarpa</i>	細葉榕	400	6	3	F	F	F	F	F	F	M	T	Private lot at Oil Street North Point	Tsiu Keng Nursery (DD100)	15-Jan-14	Transplanted to Tsiu Keng Nursery on 15 January 2014.
T1129	<i>Livistona chinensis</i>	蒲葵	260	5	6	F	F	F	F	F	F	M	T			15-Jan-14	Transplanted to Tsiu Keng Nursery on 15 January 2014.
T1130	<i>Livistona chinensis</i>	蒲葵	240	7	5	F	F	F	P	P	M	M	T			15-Jan-14	Transplanted to Tsiu Keng Nursery on 15 January 2014.
T1131	<i>Livistona chinensis</i>	蒲葵	250	6	5	F	F	F	F	F	M	M	T	Tsing Fung Street Tin Hau		15-Jan-14	Transplanted to Tsiu Keng Nursery on 15 January 2017.
T1132	<i>Livistona chinensis</i>	蒲葵	240	6	6	F	F	F	F	F	M	M	T			15-Jan-14	Transplanted to Tsiu Keng Nursery on 15 January 2017.
T1133	<i>Livistona chinensis</i>	蒲葵	240	6	6	F	F	F	F	F	M	M	T			15-Jan-14	Transplanted to Tsiu Keng Nursery on 15 January 2014.

Total no. of trees: 8

Tree Schedule									
Tree No.	Botanical Name	Chinese Name	DBH (mm)	Height (m)	Spread (m)	Form	Health	Action (provided by client)	Remarks
T002	<i>Macaranga tanarius</i>	血桐	188	5	5	F	P	R	Epicormics sprouts; exposed dead wood.
T003	<i>Macaranga tanarius</i>	血桐	172	5	8	F	F	R	Epicormics sprouts.
T004	<i>Acacia confusa</i>	台灣相思	239	6	5	F	F	R	Dead branches; double trunk; exposed root.
T005	<i>Acacia confusa</i>	台灣相思	249	6	5	P	F	R	Dead branches; exposed root; leaning; multi trunk; vines, imbalanced crown.
T006	<i>Acacia auriculiformis</i>	耳果相思	232	8	5	P	P	R	Bark crack; broken branches; dead branches; exposed root; leaning; vines, hanger.
T007	<i>Acacia confusa</i>	台灣相思	167	8	5	P	F	R	Dead branches; double trunk, hanger.
T008	<i>Acacia confusa</i>	台灣相思	131	7	4	P	F	R	Dead branches; slightly leaning.
T1894	<i>Psidium guajava</i>	番石榴	196	-	-	-	-	F	Felled on 19 <sup>th</sup> September 2015
T1895	<i>Macaranga tanarius</i>	血桐	245	6	6	F	F	R	Sprouts; contact with building, dead branch, mechanical damage of branch
T1896	<i>Macaranga tanarius</i>	血桐	221	6	6	F	F	R	Sprouts, contact with building, dead branch, pest found
T1897	<i>Ficus virens</i>	黃葛樹	630	14	9	F	F	R	Wound, dead branch; Excessive epicormics
T1898	<i>Ficus virens</i>	黃葛樹	530	14	9	F	F	R	Dead branch, unbalanced tree crown
T1913	<i>Ficus microcarpa</i>	細葉榕	470	6	8	F	F	R	Wound on root
T1916	<i>Aleurites moluccana</i>	石栗	362	12	10	F	F	R	Pruned; Material within protection area; Cross branches; Dieback
T1917	<i>Ficus microcarpa</i>	垂葉榕	423	12	11	F	F	R	Pruned; Cavity; Wound.

Total no. of tree: 14



俊和-中國中鐵-中鐵大橋局聯營  
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## LANDSCAPE PLAN

FOR

**Contract No.: HY/2009/19**

**Central – Wan Chai Bypass  
Tunnel (North Point Section)  
and  
Island Eastern Corridor Link**

### Appendix F

**Design Consideration, Details and Material Specification of the  
Semi-enclosures and Barriers**

Contract No. HY/2009/19  
Central – Wan Chai Bypass – Tunnel (North Point Section)  
and Island Eastern Corridor Link

## **Green Panel Design Development Explanatory Notes for Landscape Plan Deposition**

### **Background**

Contract HY/2009/19 (the Contract) is one of the contracts of the Central-Wan Chai Bypass (the CWB) Project that will provide a new trunk road running along the northern shore of Hong Kong Island. The Contract comprises 300m of cut and cover tunnel and reconstruction of part of the Island East Corridor (IEC) to form the new Island East Corridor Link (IECL) connecting the north point access of the tunnel and the existing IEC. In order to reduce the traffic noise nuisance to the neighbouring residents between Victoria Centre and Provident Centre, the Contract will provide some 1.3km long noise barrier works at the IECL. The scope of noise barrier works includes, among others, the construction of 550m cantilever noise barriers at the new eastbound bridge of the IECL between Watson Road and City Garden.

The cantilever noise barrier design comprises three different types of barriers at various sections of the IECL eastbound bridge:-

1. Types A1 and A2 : 130m long 5.5m high barrier with 4.5m cantilever length at 45 degrees to the horizontal;
2. Type B : 90m long 5.5m high barrier with 1m cantilever length at 45 degrees to the horizontal ; and
3. Type C: 330m long 3.5m high vertical barrier.

In order to mitigate the visual nuisance to local residents, green panels are provided on the outer side of the cantilever noise barriers facing the residential area (i.e. not facing the inside carriageway). The green panel seats on the concrete parapet and rises to a height of 2m above the road surface level of the elevated vehicular bridge. The extent of cantilever noise barrier is shown on Figure 1.

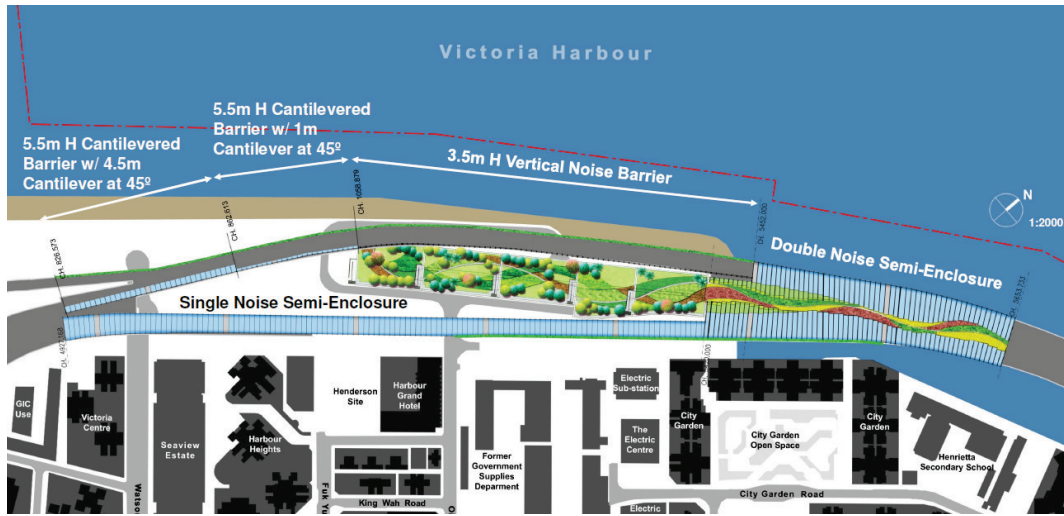


Figure 1 – Extent of Green Panel of Cantilever Noise Barrier at New Eastbound Bridge

Sections of 3 types of cantilever noise barriers mounting with green wall panel at outer side are shown on Figure 2.

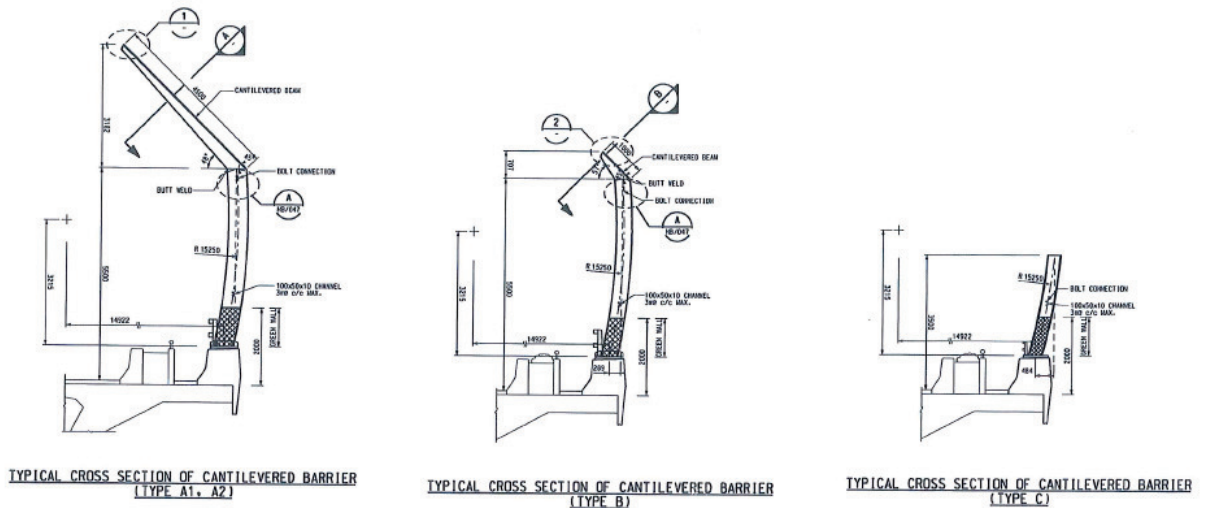


Figure 2 – Sections of 3 Types of Cantilever Noise Barrier

### Requirements of Green Panel

Clause 2.15 of the Environmental Permit No. EP-364/2009/D under Measures to Mitigate Landscape and Visual Impact section specifies:-

*“The landscape plan(s) to be submitted under Condition 2.14 of this Permit shall include measures to mitigate the landscape and visual impact of the road traffic noise semi-enclosure and barriers. The noise semi-enclosures and barriers shall mainly compose of:*

- (a) *transparent panels, translucent panels and/or green roof with translucent skylight in the upper part where appropriate; and*
- (b) *green panels with planters in the lower part where appropriate.”*

An advisory note in Section 10.9.12 of the approved Environmental Impact Assessment (EIA) report states that the proposed noise barriers/screening/semi-enclosures of IEC will mainly affect VSR of lower floors of Victoria Centre, Seaview Estate, Harbour Heights, City Garden, Provident Centre and nearby schools in North Point.

In accordance with these two environmental documents, green panel should be installed above parapet facing local residents to soften the visual impact to the edge of the IECL structures.

### **Maintenance Concerns of Green Panel**

In accordance with figures 4d, 4e and 4g of Environmental Permit No. EP-364/2019/D, the green panel along the IECL eastbound bridge shall be constructed at the external side of the cantilever noise barrier facing residential areas whereas the planter along the IEC eastbound bridge is located at the inner side of noise barrier. As shown in Figure 2 above, there will be a maintenance walkway in the inner side of noise barrier, which is separated from the carriageway by roadside barriers and planters. There will be no access at bridge deck level for the maintenance of the green panel. It would be very difficult for maintenance plant to access from the carriageway to the green panel at the outer side of eastbound bridge by crossing over the cantilever noise barriers.

The noise barrier panels were designed to be sitting one by one with interlock system so that the removal of bottom green panel for maintenance would require the removal of all the panels above involving at least 2 traffic lanes closure of IECL. The closure of 2 traffic lanes closure of IECL was unlikely to be carried out at a frequent manner as this will induce enormous impacts to the road users.

Maintenance of green panel using scissor lifting platform supporting on ground is possible for the short-term. In the long term when the ground level area is turned into a landscaped seafront in accordance with the future development plan, the plant access via the open space underneath the bridge for maintenance of green panel would be undesirable as it would impose constraints to the future development of open space.

In contrast with the green panels along IECL westbound bridge, the maintenance walkway is located at the outer side of the noise semi-enclosure, the above maintenance difficulties are irrelevant to the green panel along IECL westbound bridge. Hence, no design review of green panel along IECL westbound bridge is required.

### **Design Development of Green Panel along IECL Eastbound Bridge**

In accordance with the relevant clauses in the approved EIA report and EP, the requirements of green panel are one of the measures to mitigate the landscape and visual impacts and its purpose was to soften the IECL structures. It is more important for the appearance of green panel to blend with the global landscape theme of this project at this location and not inducing any adverse landscape or visual effect to these stakeholders. Several green panel options including real species planting, artificial greening and graphic film were explored. It is found



that withering or aging of these materials would have adverse landscape and visual impacts on the understanding that no frequent maintenance could be carried out due to no proper maintenance access to the outer side of the noise barriers.

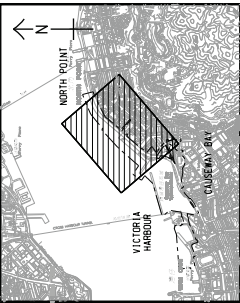
To tackle the above issues, the design development is to combine the green panel with noise absorptive panel into a unique panel of noise barrier so that the mitigation requirements in terms of noise, landscape and visual as specified in EP could be met. As the conforming design of noise absorptive panel itself could comply with the noise mitigation requirement in the EP, the design development focuses on the appearance of noise absorptive panel for landscape and visual enhancement. The design of green colour box covering the noise absorptive panel blended with project global landscape theme is developed to soften the visual and landscape impact of bridge structures.

Meeting amongst HyD, ET Leader, IEC and AECOM held on 7 October 2015 advised that the above design development of noise panel at the bottom row of noise barrier together with the landscape deck and planters could serve the landscape and visual mitigation purpose. ET Leader and IEC considered that the proposed design and features will be able to produce a combined effect in landscape and visual mitigation as described in Section 10.9.12 of the approved EIA report so as to satisfy the EIA and EP requirements. The minutes of this meeting is attached with this explanatory notes.

The extent and location of green panel of noise barrier along IECL Eastbound Bridge, together with the scope of design development are shown on the attached Sketch no. 60095653/IEC/SK1896.

### **Conclusion**

In view of the design development of green panel of noise barrier along IECL eastbound bridge blending with the global landscape theme of this Contract together with the landscape deck and planters could serve the landscape and visual mitigation purpose so as to satisfy the EIA and EP requirements, this explanatory notes is to be deposited together with the landscape plan to the Environmental Protection Department (EPD) as stipulated in the EP. The design of green panel of noise semi-enclosure along IECL westbound bridge would remain unchanged.



**KEY PLAN**  
SCALE A1 : 30000  
A2 : 60000

**NOTE:**  
1. FOR GENERAL NOTES, REFER TO DOC. NO. 60095653/EC/2420.

- LEGEND:**
- (A) 5.5M HIGH CANTILEVERED BARRIER WITH 4.5M CANTILEVER AT 45°
  - (B) 5.5M HIGH CANTILEVERED BARRIER WITH 4.5M CANTILEVER AT 45°
  - (C) 3.5M HIGH VERTICAL NOISE BARRIER
  - SITE BOUNDARY
  - ▽▽▽▽ SINGLE NOISE SEMI - ENCLOSURE
  - ▨ DOUBLE NOISE SEMI - ENCLOSURE
  - EXTENT OF GREEN PANEL DESIGN DEVELOPMENT ALONG IEC EASTBOUND BRIDGE

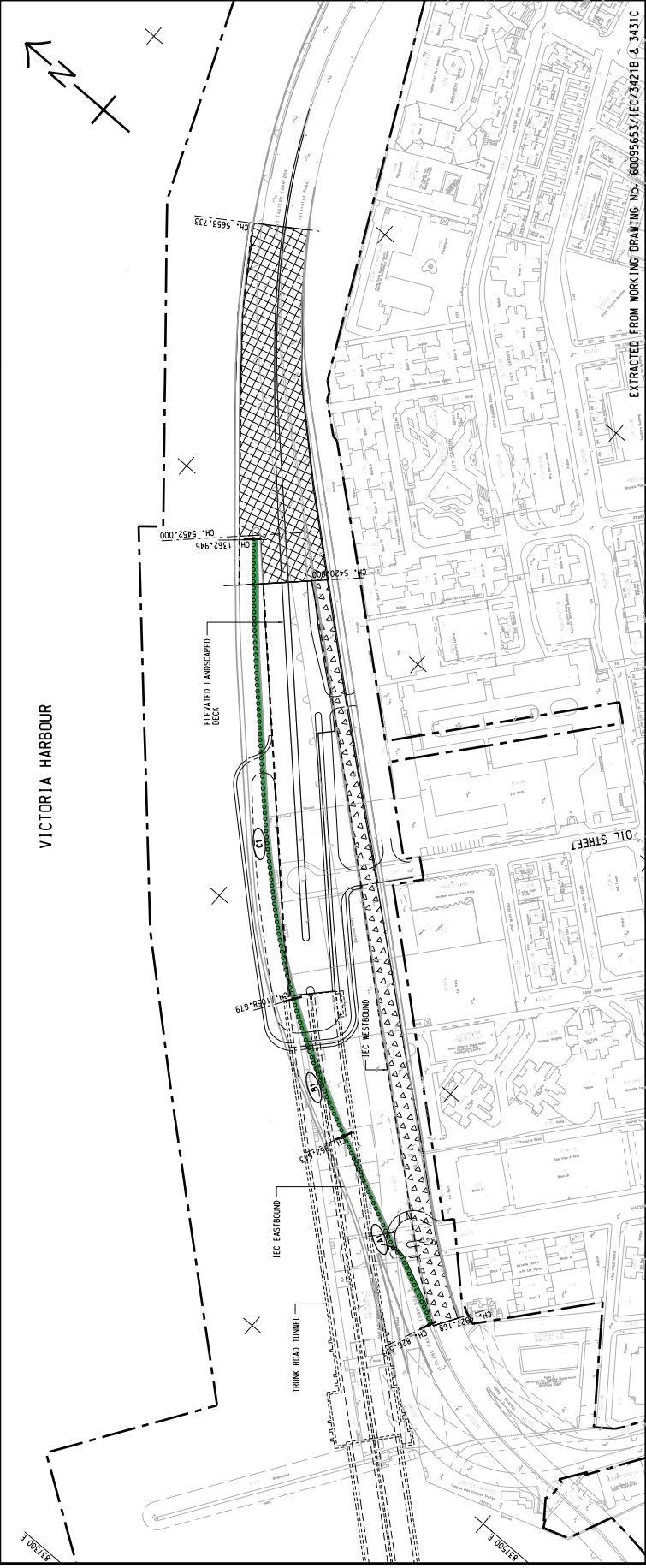
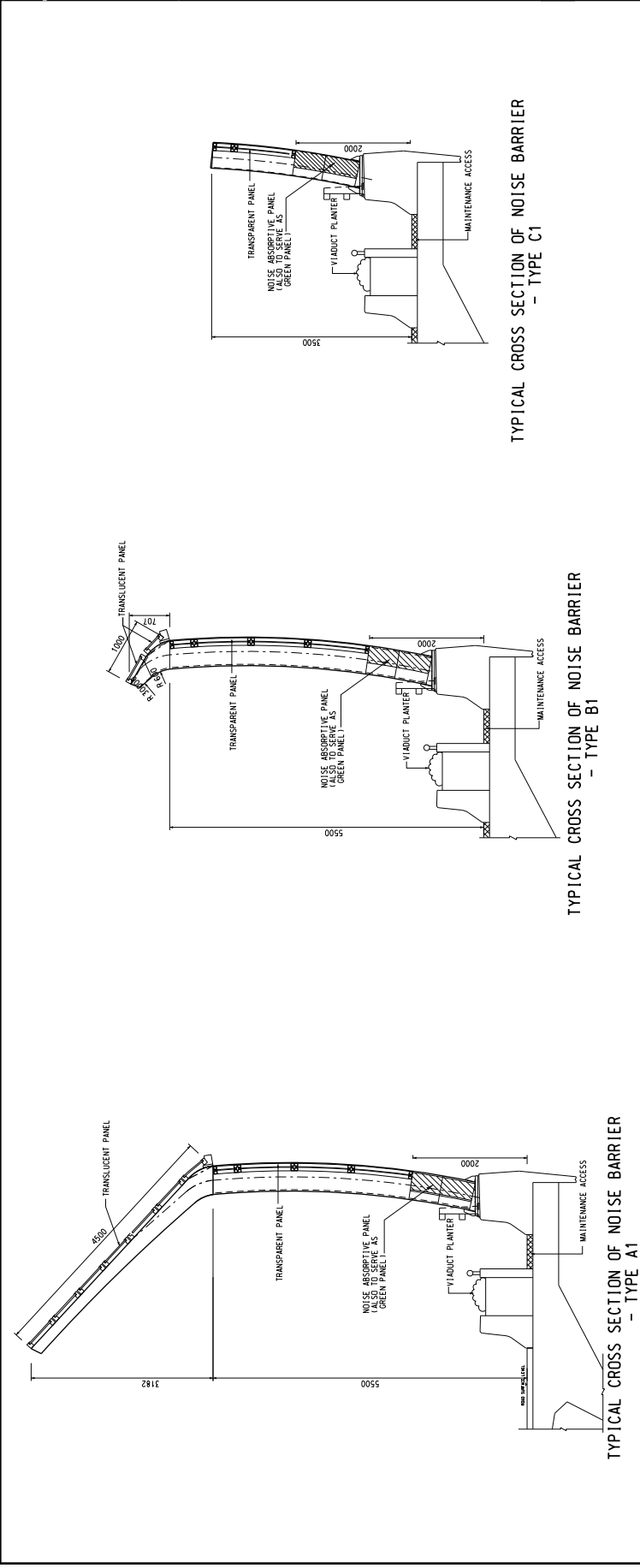
Rev	Date	Description	VS	RVL	Drawn/Prepared/Checked
1		ISSUE FOR GENERAL NOTES			

**AECOM**

**CENTRAL - WAN CHAI BYPASS AND IEC LINK**  
CONTRACT NO. HY2009/19  
CENTRAL - WAN CHAI BYPASS - TUNNEL  
(NORTH POINT SECTION) AND ISLAND EASTERN CORRIDOR LINK

**PERMANENT NOISE BARRIERS AND ENCLOSURES**  
GENERAL LAYOUT

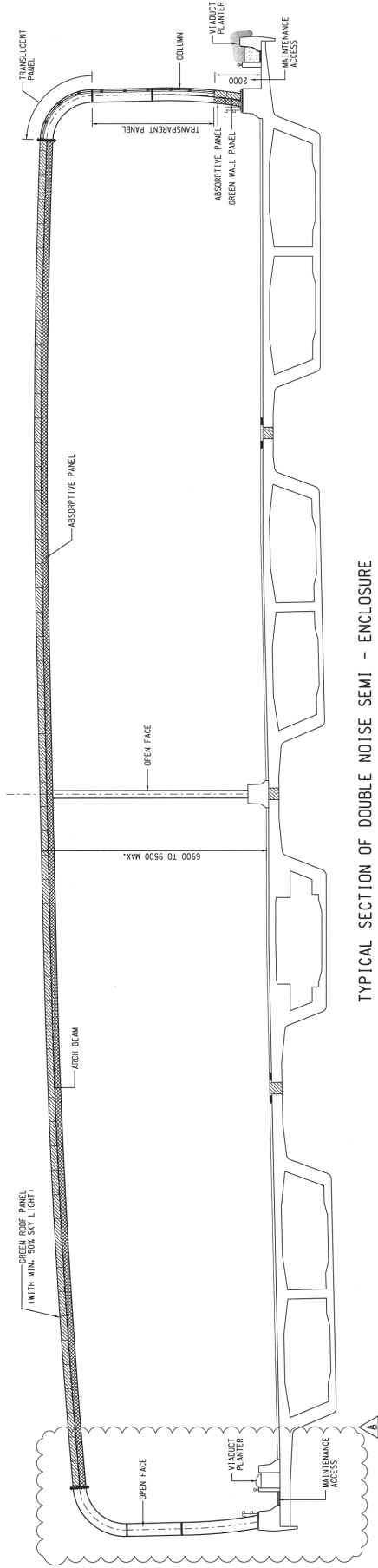
SHEET NO. 60095653/EC/SK1896  
DATE: 15/12/2015 4:12:29 PM



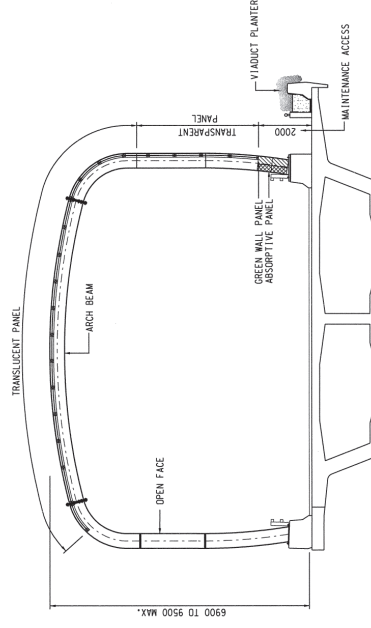


**NOTES:**

1. THE NOISE SEMI - ENCLOSURE SHALL BE DESIGNED BY THE CONTRACTOR.
2. ALL DESIGN REQUIREMENTS OF NOISE SEMI - ENCLOSURE SHALL COMPLY WITH THE SECTION 30100.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES SHOWN ON THIS DRAWING AND FOR THE PROTECTION OF ALL UTILITIES SHOWN ON THIS DRAWING. CONTRACTOR'S REFERENCE ONLY.



TYPICAL SECTION OF DOUBLE NOISE SEMI - ENCLOSURE



TYPICAL SECTION OF SINGLE NOISE SEMI - ENCLOSURE

NO.	DESCRIPTION	DATE
B	WORKING DRAWING	ALCF BCC DEC 10
A	TENDER ADDENDUM NO.1	ALCF BCC JUN 10
-	TENDER DRAWING	ALCF BCC MAY 10

Highways Department 路政署  
Major Works Project Management Office 主要工程項目管理處

CENTRAL - WAN CHAI BYPASS AND IEC LINK

PWP ITEM NO. 579 TH  
工務計劃項目編號

SCHEMATIC PERMANENT NOISE ENCLOSURE CROSS SECTIONS



DRGNO. 60095653/IEC/3432B  
圖紙編號

DESIGNED BY	ALCF	DATE	14/12/2009/19
CHECKED BY	SV	DATE	11/1/2010
DATE	11/1/2010	SCALE	AS SHOWN

WORKING DRAWING  
圖紙

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CHUN WO - CRGL - MBEC JOINT VENTURE

## LANDSCAPE PLAN

FOR

**Contract No.: HY/2009/19**

**Central – Wan Chai Bypass  
Tunnel (North Point Section)  
and  
Island Eastern Corridor Link**

**Appendix G**

**Implementation Schedule**

Implementation Schedule for Landscape and Visual

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages				Relevant Legislation and Guidelines	Implementation status	Cross-Reference to Landscape Plan
				Des	C	O	Dec			
<b>Construction Phase</b>										
<b>For the Whole Project</b>										
Table 10.5	CM1 Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Will be implemented if identified	--
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Implemented	Section 2.0, 5.3, 7.3 & 9.0(viii)
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	In progress	Section 2.0, 5.3, 7.3 & 9.0(viii)
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Will be implemented if tree felling is needed	Section 2.0, 5.3, 7.3 & 9.0(viii)
Table 10.5	CM5 Control of night-time lighting.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	Implemented	Section 2.0, 5.2, 7.2 & 9.0(i)(ii)(iii)(iv)(v)(vi)
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Work site / During Construction Phase	Contractor	√	√			EIAO TM	In progress	Section 2.0, 5.1, 7.1, 8.1, 8.2 & 9.0(vii)

**For DPI – CWB (Within the Project Boundary)**

Table	Work site / During Construction Phase	Contractor						EIAO TM	Will be implemented if identified	--
Table 10.5	CM1 Topsoil, where stripped and stored for re-use in the construction of the soft landscape works, where practical.						√			
Table 10.5	CM2 Existing trees to be retained on site shall be carefully protected during construction.	Contractor	√				√	EIAO TM	Implemented	Section 2.0, 5.3, 7.3 & 9.0(viii)
Table 10.5	CM3 Trees unavoidably affected by the works shall be transplanted where practical.	Contractor	√				√	EIAO TM	In progress	Section 2.0, 5.3, 7.3 & 9.0(viii)
Table 10.5	CM4 Compensatory tree planting shall be provided to compensate for felled trees.	Contractor	√				√	EIAO TM	Will be implemented if tree felling is needed	Section 2.0, 5.3, 7.3 & 9.0(viii)
Table 10.5	CM5 Control of night-time lighting	Contractor					√	EIAO TM	Implemented	Section 2.0, 5.2, 7.2 & 9.0(i)(ii)(iii)(iv)(v)(vi)
Table 10.5	CM6 Erection of decorative screen hoarding compatible with the surrounding setting.	Contractor					√	EIAO TM	In progress	Section 2.0, 5.1, 7.1, 8.1, 8.2 & 9.0(vii)