

# Leighton Joint Venture



## Leighton Joint Venture

c/o 39<sup>th</sup> Floor  
Sun Hung Kai Centre  
30 Harbour Road  
Hong Kong

t: (852) 2823-1111  
f: (852) 2529-8784  
e: info@leightonasia.com

### By Hand

18-FEB-2015

Our Ref: H2613-LJV-EN-LE-1011

The EIA Ordinance Register Office  
Environmental Protection Department  
27/F, Southorn Centre  
130 Hennessy Road  
Wan Chai, Hong Kong

Dear Sir,

### **Contract No. HY/2011/08**

### **Central – Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works Associated with Tunnel Commissioning Landscape Plan (Rev. 2)**

Pursuant to Condition 2.14 of the Environmental Permit no. FEP-11/364/2009/B and we refer to your letter ref. (10) in EP2/H4/S3/15 Pt. 32 dated 08.08.2014, we submit herewith four hard copies and one electronic copy of the revised Landscape Plan (Rev. 2) with ET's certification letter and IEC's verification letter for your information.

Should you have any query, please do not hesitate to contact our Mr. Malcolm Leung at 6323 9478, or malcolm.leung@leightonasia.com.

Yours faithfully  
For and on behalf of  
Leighton Joint Venture

  
Colman Wong  
Project Director

CW / RP / CC / ML / PY

cc. AECOM - Mr. Peter Poon, PRE (w/ a CD only)  
LAM - Mr. Raymond Dai, ETL (w/ a CD only)  
ENVIRON - Mr. David Yeung, IEC (w/ a CD only)

Our Ref: H2613-LJV-EN-LE-1011

Page 1 of 1



# Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

華益土力有限公司

Ref : G1120/CS/L930/FEP-11/364/2009/B  
Date : 13 February 2015

**Leighton Joint Venture**  
39/F Sun Hung Kai Centre  
30 Harbour Road  
Wan Chai Hong Kong

**Attn: Site Agent, Mr. Colman Wong**

Dear Mr. Wong,

**Contract No. HY/2011/08**  
**Central – WanChai Bypass Tunnel –Tunnel Buildings, Systems and Fittings, and Works**  
**Associated with Tunnel Commissioning**

**Landscape Plan (Rev. 2)**

Referring to the captioned submission dated 12 February 2015 received through email on 12 February 2015, we have reviewed your submitted details and hereby certified this submission in accordance with Condition 2.14 of FEP-11/364/2009/B.

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. Bond Chow	(By Fax: 2714 5289)
AECOM	- Mr. Peter Poon	(By Fax: 3912 3090)
AECOM	- Mr. Frankie Fan	(By Fax: 2587 1877)
ENVIRON	- Mr. David Yeung	(By Fax: 3548 6988)



14 February 2015

Ref.: AACWBIECEM00\_0\_6254L.15

By Post and Fax (2140 6799)

Leighton Joint Venture  
39<sup>th</sup> Floor  
Sun Hung Kai Centre  
30 Harbour Road  
Hong Kong

Attention: Site Agent, Mr. Colman Wong

Dear Sir,

**Re: Contract No. HY/2011/08  
Central – Wan Chai Bypass – Tunnel Buildings, Systems and Fittings, and Works  
Associated with Tunnel Commissioning  
Landscape Plan (Revision 2)**

Reference is made to your submission of the Landscape Plan (Revision 2) dated 12 February 2015 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 2.14 of FEP-11/364/2009/B.

Thank you for your kind attention.

Yours sincerely,



David Yeung  
Independent Environmental Checker

c.c.	HyD	Mr. Bond Chow	by fax: 2714 5289
	AECOM	Mr. Peter Poon	by fax: 3912 3090
	AECOM	Mr. Frankie Fan	by fax: 2587 1877
	LAM	Mr. Raymond Dai (ETL)	by fax: 2882 3331

Q:\Projects\AACWBIECEM00\Corr\AACWBIECEM00\_0\_6254L.15.doc

**LEIGHTON**  
禮頓



**Contract No. HY/2011/08  
Central-Wan Chai Bypass – Tunnel Building,  
Systems and Fittings, and Works Associated  
with Tunnel Commissioning**

## **Landscape Plan**

*Reviewed by:*

**Chris CHAN**  
**Environmental Officer**

*Approved by:*

**Colman Wong**  
**Site Agent**

## About this Document

This document is available for all project employees via the project network. We regularly revise this document and the latest version is always available electronically. Once printed, the document should no longer be considered to be the latest version. It may be distributed to the Highways Department and the Engineer on the understanding that any such document may not be the latest version or it may be distributed to the Highways Department and the Engineer as a controlled document in which case the front cover is to be stamped “Controlled Copy” in red and a copy number added.

The Environmental Officer is responsible for updating and maintaining the plan, including the original hard copy, which is signed by the person in charge of the project to indicate approval.

The status of this plan is identified by a revision number and date on each page. On revision, the plan will be uploaded as a whole to the project server or within the Incite Keystone. The Environmental Officer maintains a record of the revision status of the plan, which is available on request.

If you have any enquiry relating to this plan, please contact the Environmental Officer.

### Revision History and Plan Approval

Revision	Date	Section/Description	Prepared	Reviewed	Authorised by
01	16.07.2014	Issue for Construction	Penny Yiu	Donald Ip	Colman Wong
02	12.02.2015	Responses to Comments	Malcolm Leung	Chris Chan	Colman Wong

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## 1. Introduction

- 1.1. The purpose of this Landscape Plan is to fulfil the Condition 2.14 under Environmental Permit number: FEP-11/364/2009/B.
- 1.2. This Landscape Plan provides the design details, locations, implementation programme, maintenance and management schedules, and drawings of the landscape and visual mitigation measures for mitigation of the landscape and visual impact arising from the construction of the Central - Wan Chai Bypass - Tunnel Building, Systems and Fittings and Works Associated with Tunnel Commissioning (Contract No. HY/2011/08, hereinafter referred to as “the **CWB-CC**”) as per the requirements in the approved CWB&IECL EIA Report (Register No. AEIAR-041/2001) and the WDII&CWB EIA Report (Register No. AEIAR-125/2008).
- 1.3. With reference to the Urban Design Study for the New Central Harbourfront (UDS) and the Master Greening Plan (MGP), it is noted that the development in the UDS area might require associated transplanting needed to be addressed in the future. However, the development works in the UDS area and the associated MGP are not covered in CWB-CC.
- 1.4. Moreover, the operational phase mitigation measures for the CWB project as mentioned in EIA Reports are not covered by the CWB-CC.

## 2. Project Background (Contract No. HY/2011/08)

- 2.1. The scope of the CWB-CC mainly includes:
- construction of the tunnel control buildings and ventilation buildings including Administration Building, West Ventilation Building, Central Ventilation Building, East Ventilation Building and East Vent Shaft;
  - provision of associated road lighting, road signing, traffic control and surveillance system; and
  - carrying out other associated works.
- 2.2. The project boundary of the CWB-CC is shown in **Appendix A** and the key visual sensitive receivers (hereinafter referred to as “VSR”) for the CWB project were identified in Figure 10.4 of the WDII&CWB EIA Report (**Appendix B**).
- 2.3. Hence, only VSR numbers C1-C37, C50, C52-C54, C54A, C/R1-C/R23, GIC1012, O1-O9, OU1, R1-R7, S1 and T1-T3 and 98-99 in the abovementioned figure have been identified as the key visual sensitive receivers related to the CWB-CC.

### **3. EIA Requirements**

- 3.1. In order to fulfil the Condition 2.14 of the EP, the Permit Holder “Leighton JV” shall implement a series of landscape and visual mitigation measures for the reduction of the landscape and visual impact during the construction phase of the CWB-CC.
- 3.2. Sections 7.6.27 and 7.6.28 of the approved CWB&IECL EIA Report listed additional mitigation measures for landscape and visual impacts. Meanwhile, Table 10.5 of the approved WDII&CWB EIA Report listed proposed mitigation measures for landscape and visual impacts during the construction phase. To comply with the requirements, the CWB-CC shall implement the following aspects:
- Implementation of Landscape Works (Section 4)
    - Soil Mix
    - Tree Preservation and Planting
  - Provision of Hoarding (Section 5)
  - Control of Night Lighting (Section 6)



#### 4. Landscape Works

- 4.1. The CWB-CC requires carrying out trees and shrubs planting as shown in **Appendix C**. No planned tree transplanting and felling works are required during the construction phase. The proposed landscape works to be implemented include provision of new soil mix and implementation of tree preservation and planting.
- 4.2. Provision of New Soil Mix
- New soil mix shall be used for new planting areas.
  - Soil mix shall be tested by a HOKLAS accredited laboratory and submitted to the Engineer's Representative for approval before installation.
  - Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practicable.
- 4.3. Implementation of Tree Preservation and Planting
- Initial tree survey shall be carried out after the CWB-CC took over the site portions with trees from other CWB projects.
  - The existing trees recommended to be retained shall be protected by means of fencing to prevent vehicles, construction machines or pedestrian intrusion which may potentially damage the tree canopies, trunks and root zones concerned.
  - Tree inspection for retained trees shall be carried on a bi-monthly basis and reports shall be submitted to the Engineer's Representative.
  - In any cases where trees are required to be felled during the construction phase, proposal and compensation scheme shall be submitted to relevant government department(s) for approval and implemented accordingly upon receipt of approval.

## 5. Hoarding Works

- 5.1. The CWB-CC provides three types of hoardings along the site boundary as shown in **Appendix D**. In the meantime, except hoarding surface treatment, all hoardings shall follow the HyD Standard Drawings H6110 & H6111 and all access gates shall follow the CEDD Standard Drawings C1007.
- 5.2. Before installation of hoardings, hoarding surface treatment shall be submitted to the Engineer's Representative for approval.
- 5.3. Suitable surface treatment in the urban context shall be applied to the screen hoardings. The proposed hoardings intend to illustrate the completed Central – Wan Chai Bypass (CWB) and Island Eastern Corridor Link (IECL) from the view of local people, road users and that on the Kowloon side.
- 5.4. The three types of hoardings are:
  - Type A hoarding – view from local people in North Point.
  - Type B hoarding – view from the Kowloon side.
  - Type C hoarding – view from road users in Central.
- 5.5. Weekly tidying inclusive of cleansing, re-conditioning and/or replacement of hoarding shall be carried out to maintain the hoarding in good work condition.

## 6. Control of Night Lighting

- 6.1. The CWB-CC shall implement the following mitigation measures to minimise the impacts on its neighbours due to night lighting:
- 6.2. Night Lighting Arrangement
- Any night-time works required shall be carefully planned to minimise the amount of unnatural lighting.
  - The usage of lighting equipment shall be minimised. Assessments shall be conducted carefully to evaluate the need of lighting based on the tasks performed.
  - The lighting equipment shall be directed to the site area and controlled to be diverted from adjoining residential and hotel development.
  - The layout and alignment of construction activities shall be carefully planned to reduce the lighting impact.
- 6.3. On-site Supervision
- During night-time works, the lighting impact shall be monitored, assessed and controlled by designated site supervision staff.
  - Upon receipt of any public concerns and/or complaints, the lighting equipment shall be repositioned, shielded, redirected, dimmed and/or lowered where necessary.

## 7. Part D – Implementation Programme, Maintenance and Management Schedule

7.1. The implementation programme of the mitigation measures is summarised below:

Item	ID No.*	Mitigation Measures	Location / Timing
A1.	CM1	Approved new soil-mix for new planting areas.	New planting areas / Entire construction period.
A2.	CM2, 3, 4	Retention and protection of existing trees where feasible and transplanting of trees which are in conflict with the road works (where practicable). All in accordance with the tree preservation, transplanting and felling plans.	Entire works area / Entire construction period. (tree protection and transplanting to be carried in stages to suit the programme of the works)
B.	CM6	Screen hoarding to be installed, where appropriate, with suitable surface treatment in the urban context.	Entire works area / Entire construction period. (hoarding erection to be carried out in stages to suit the programme of the works)
C.	CM5	Control of night time lighting.	Entire works area / Entire construction period.

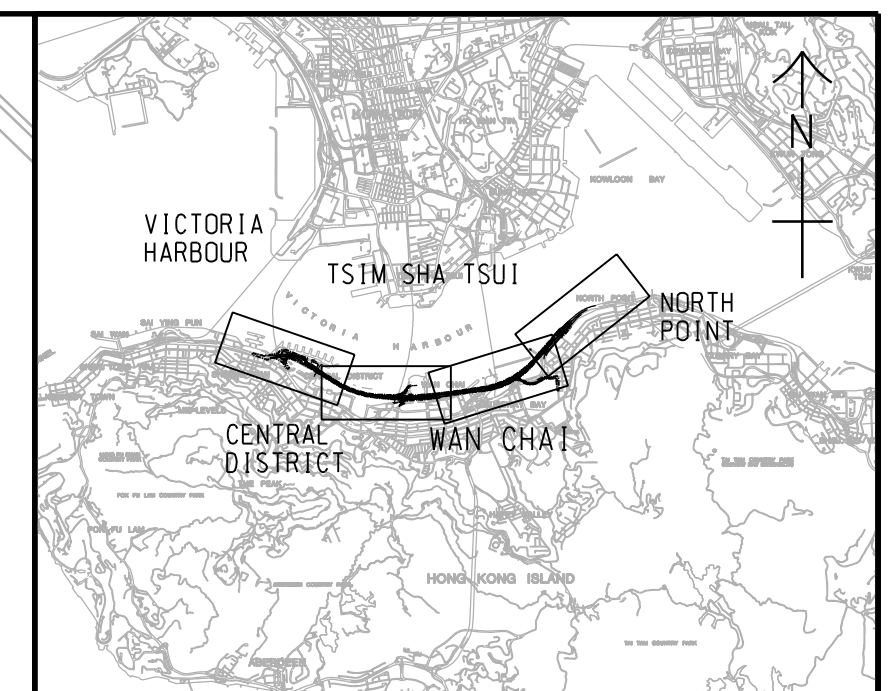
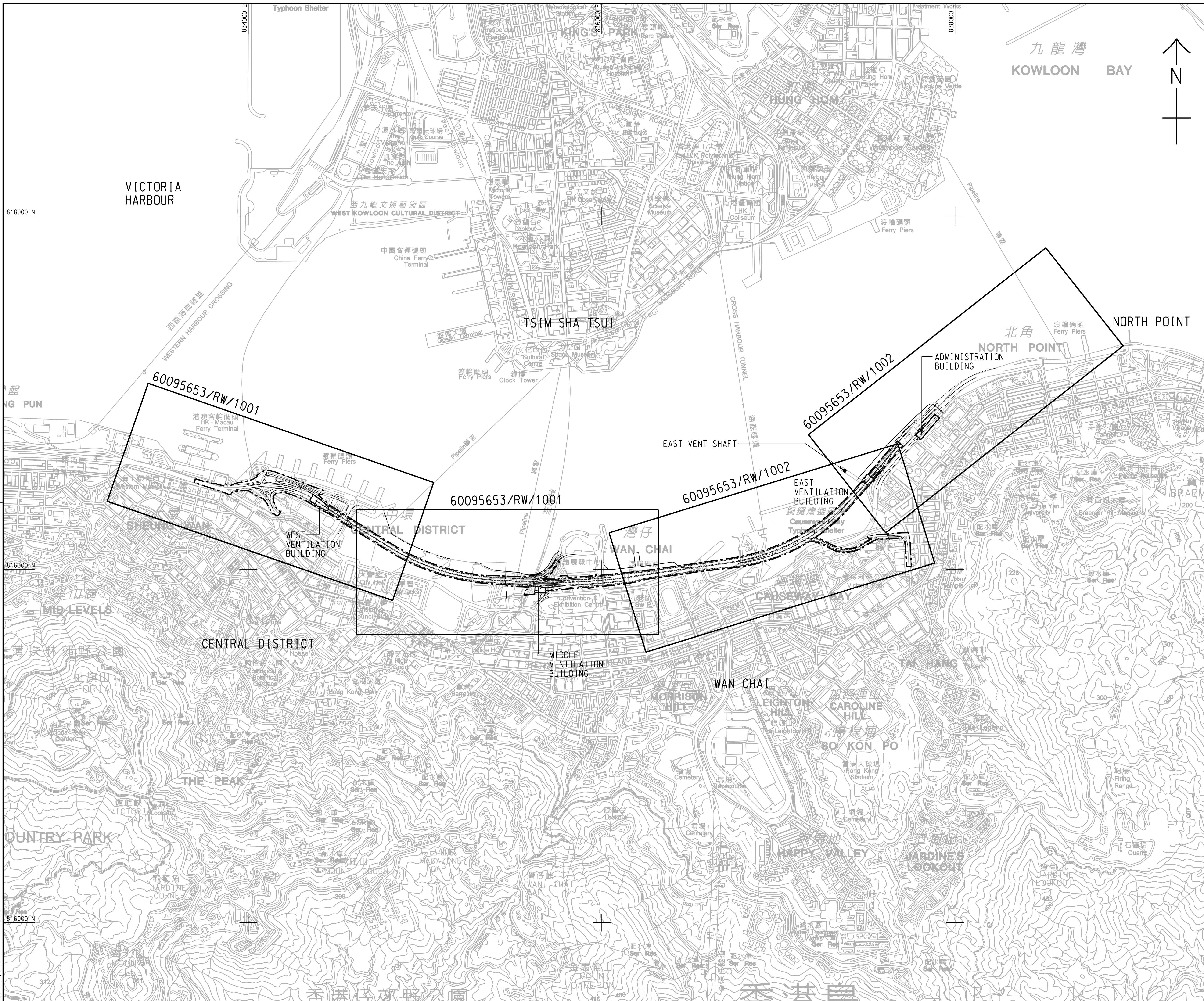
\*The above mitigation measures with ID no. are made reference to EIA Report AEIAR-125/2008 Table 10.5 Proposed Construction Phase Landscape Mitigation Measures

7.2. The maintenance and management schedules are summarised below:

Item	Maintenance and Management Schedule
A1.	The Contractor of the CWB-CC shall test the proposed soil mix and submit the results to Engineer's Representative for approval before installation.
A2.	The Contractor of the CWB-CC shall implement sufficient tree protection measures and shall rectify deficiencies when necessary. Routine checking and photo records shall be submitted to Engineer's Representative for records.
B.	The Contractor of the CWB-CC is responsible for carrying out weekly tidying which shall include cleansing, re-conditioning and/or replacement of hoarding to good working condition. To comply with these requirements, an inspection checklist for weekly tidying shall be submitted to the Engineer's Representative for records.
C.	The Contractor of the CWB-CC shall check night time lighting every night and switch off unnecessary lighting. If practicable, spotlights shall be diverted away from sensitive receivers.

7.3. With the implementation of mitigation measures by the Contractor of the CWB-CC, the residual landscape and visual impacts would become minimal.

# **Appendix A Layout Plan of the CWB-CC**



LOCATION PLAN  
SCALE A1 1 : 100000  
A3 1 : 200000

LEGEND:  
--- SITE BOUNDARY

REV.	DESCRIPTION	DATE
-	TENDER DRAWING	JWKN/ALCF MAY 13

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

CENTRAL - WAN CHAI BYPASS -  
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,  
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

KEY PLAN

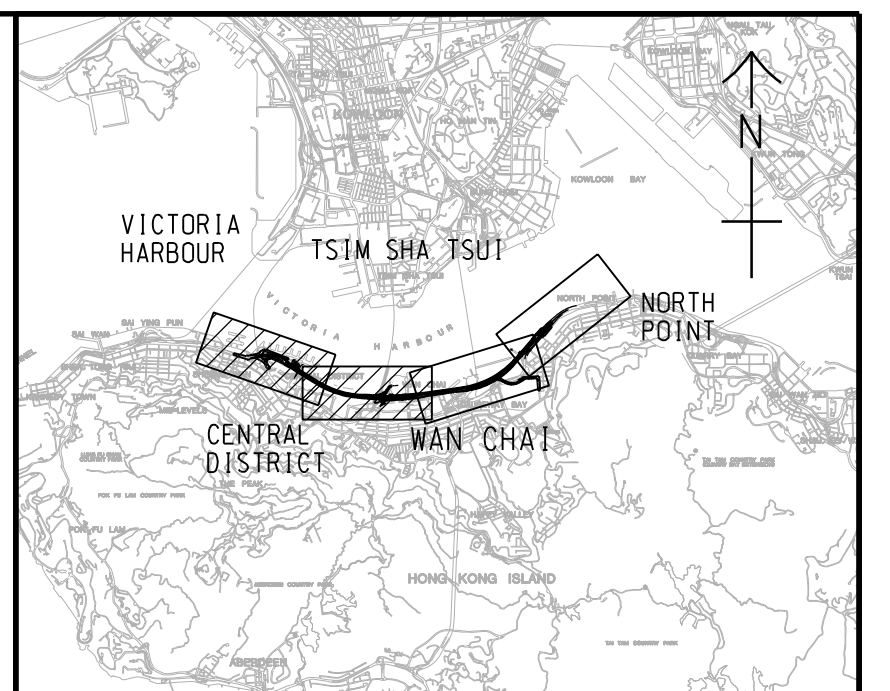
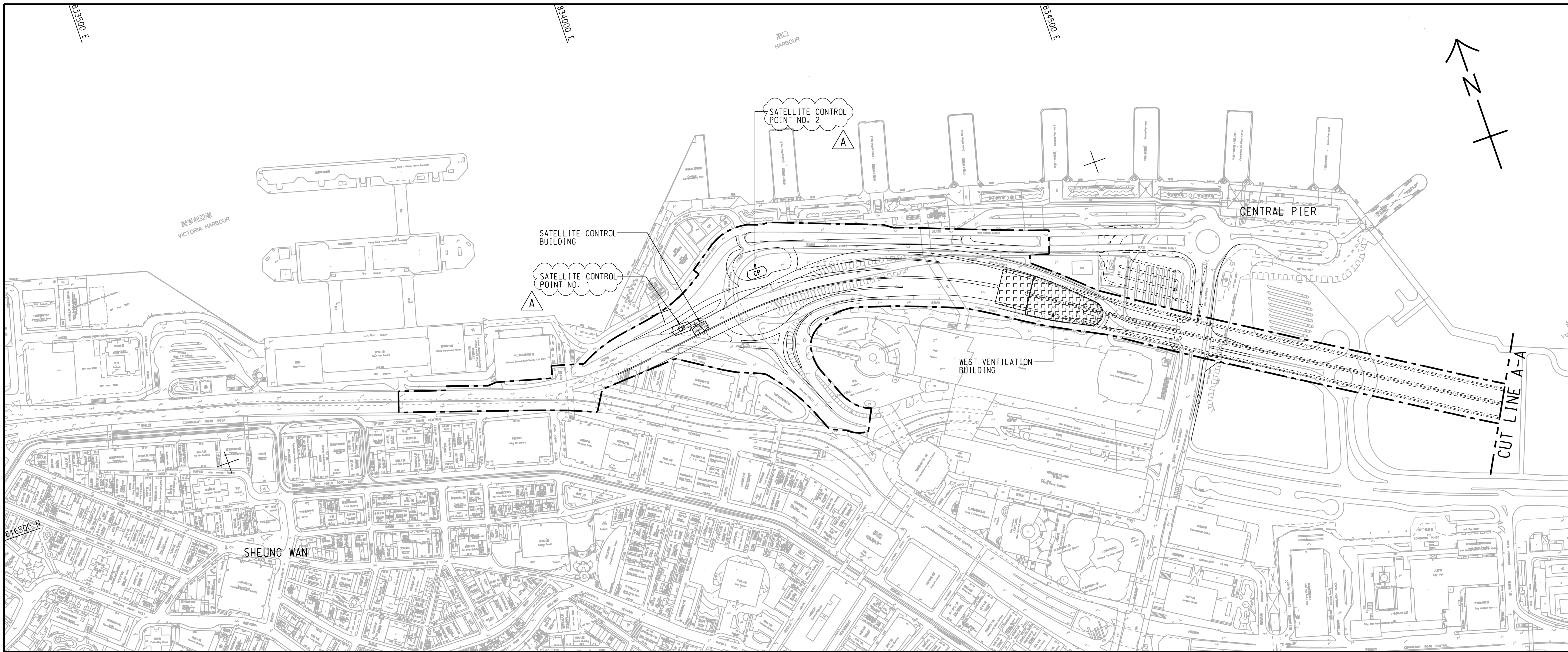
**AECOM**

DRG.NO. 60095653/RW/1000  
圖紙編號

DESIGNED BY ALCF	CONTRACT NO. HY/2011/08	P. DIV. APPROVED CWN
DRAWN BY LIUL	STATUS CHECKED	
SCALE A1 1 : 10000 A3 1 : 20000		
DIMENSIONS ARE IN METRES		

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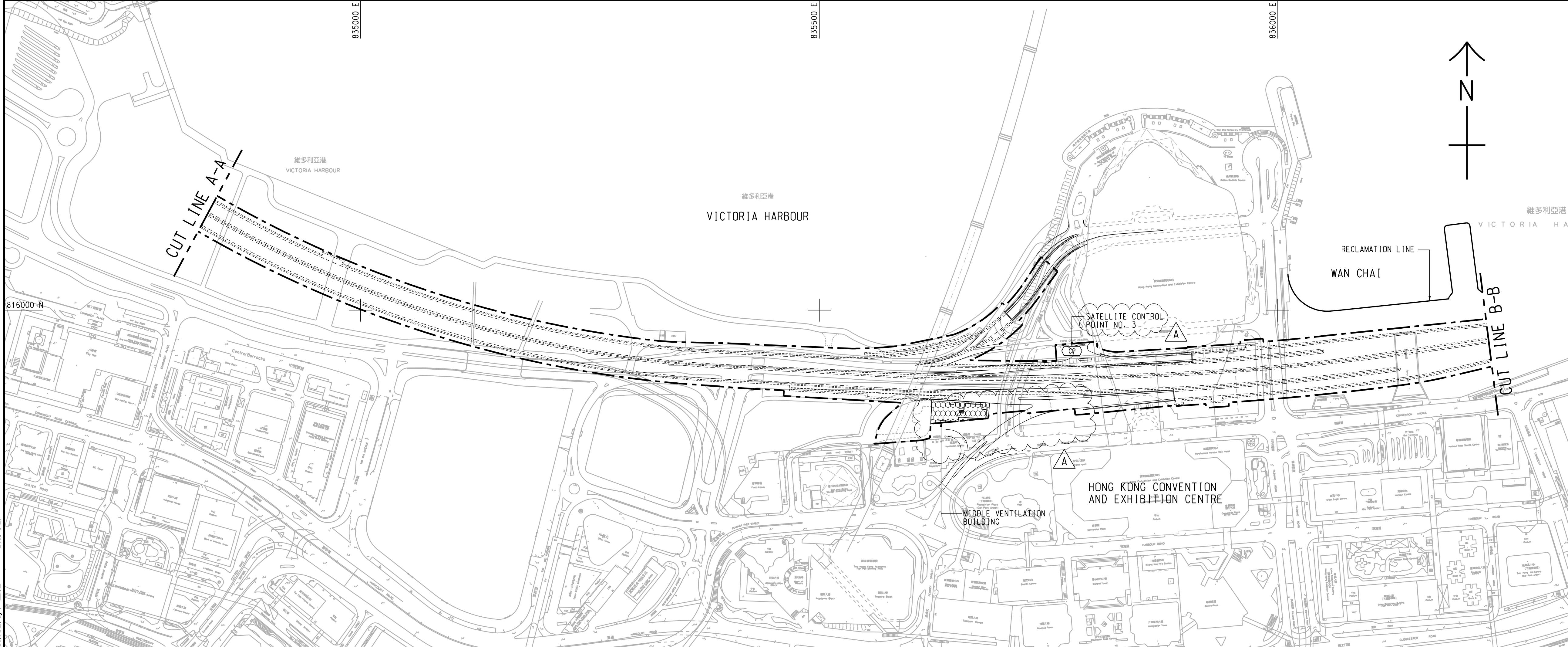
Plot File by: LIUL  
2015-5-22



**KEY PLAN**  
SCALE A1 : 100000  
A3 : 200000

- NOTES:**
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NO. 60095653/RW/1002.
  2. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
  3. DETAILS INCLUDING DIMENSIONS, LEVELS, DESCRIPTIONS, LOCATIONS, ETC. GIVEN FOR EXISTING ROADS, FOOTPATHS, BRIDGE STRUCTURES ARE INDICATIVE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL EXISTING DETAILS ON SITE.

- LEGEND:**
- SITE BOUNDARY
  - CP CONTROL POINT
  - West Ventilation Building
  - Satellite Control Building
  - Middle Ventilation Building
  - East Ventilation Building
  - Administration Building
  - East Vent Shaft



REV.	DESCRIPTION	DATE
A	TENDER ADDENDUM NO. 1	JUN 13
-	TENDER DRAWING	MAY 13

**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

CENTRAL - WAN CHAI BYPASS -  
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,  
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

**GENERAL LAYOUT**  
SHEET 1 OF 2

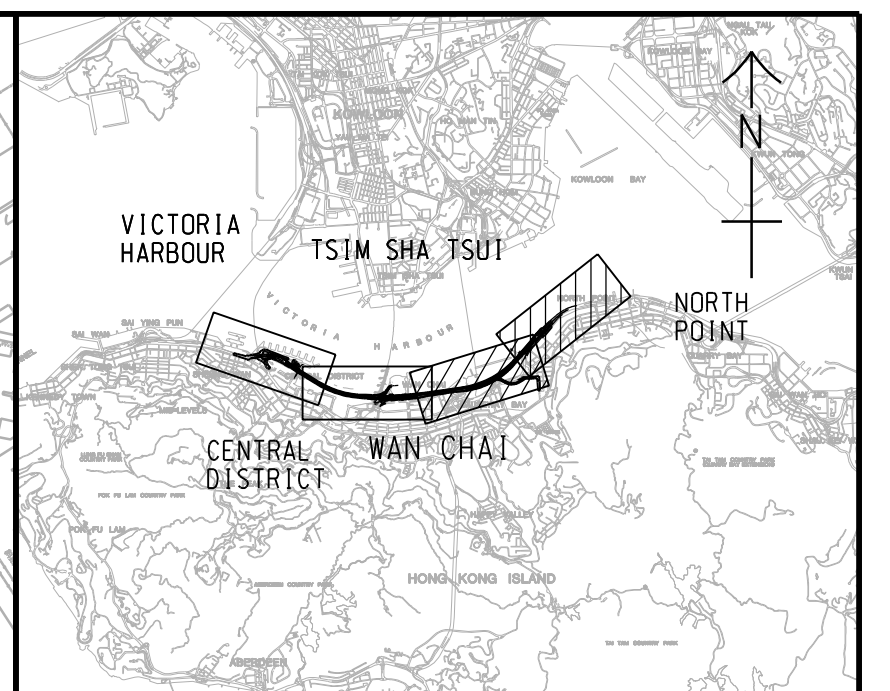
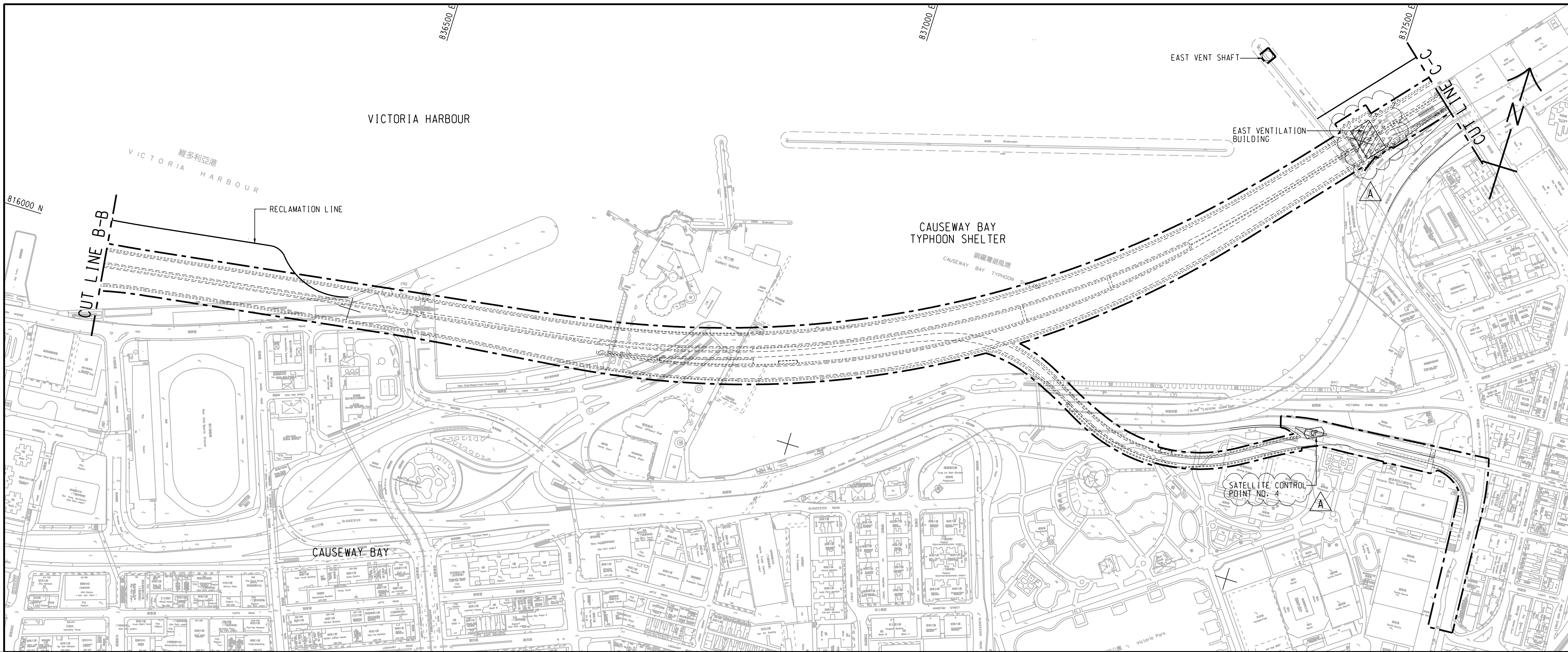


**DRG.NO. 60095653/RW/1001A**  
圖紙編號

DESIGNED BY ALCF	CONTRACT NO. HY/2011/08	P. BY - APPROVED CWN
DRAWN BY LHJ	STATUS CHECKED	DATE CWN
SCALE A1 1 : 2500 A3 1 : 5000	DIMENSIONS ARE IN METRES	

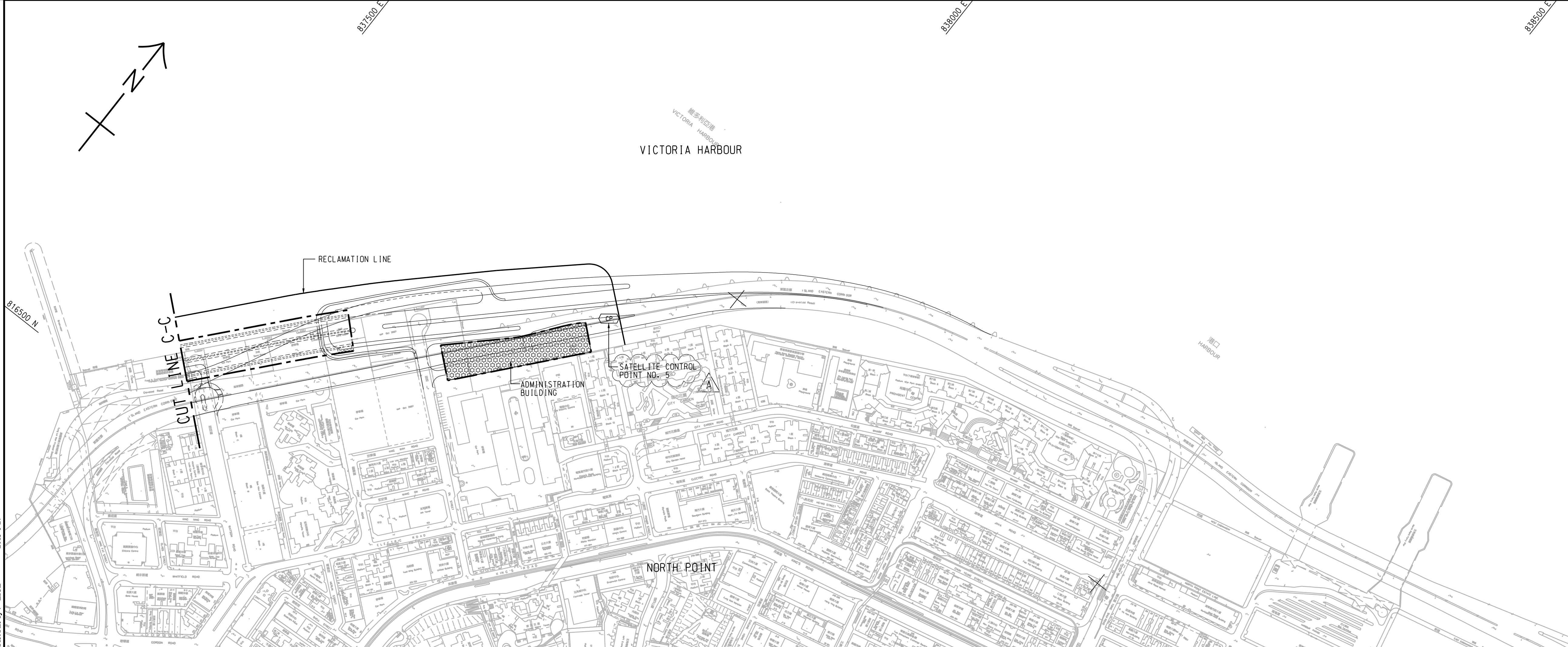
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Plot File by : LIUL 2015-6-27



**KEY PLAN**  
SCALE A1 : 100000  
A3 : 200000

- NOTES:**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60095653/RW/1001.
  2. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60095653/RW/1001.



A	TENDER ADDENDUM NO. 1	JWKNALCF	JUN 13
-	TENDER DRAWING	JWKNALCF	MAY 13
REV.	DESCRIPTION	CHECKED	DATE
	內容摘要	審核	日期

**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

CENTRAL - WAN CHAI BYPASS -  
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,  
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

**GENERAL LAYOUT**

SHEET 2 OF 2



**DRG.NO. 60095653/RW/1002A**  
圖紙編號

DESIGNED BY 設計	ALCF	CONTRACT NO. 合約編號	HY/2011/08	P. DIV. APPROVED 負責人	CWY
DRAWN BY 繪圖	ANM	STATUS 情況			
SCALE 比例	A1 1 : 5000 A3 1 : 10000				
DIMENSIONS ARE IN 尺寸單位	METRES				

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Plot File by: LIUL 2015-6-27



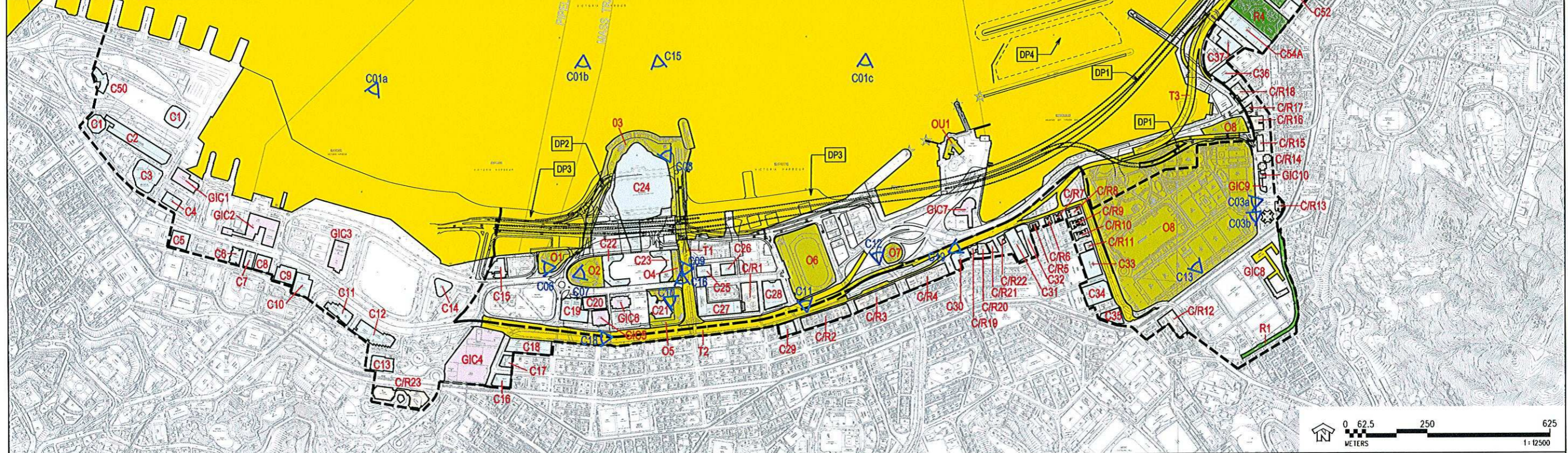
# **Appendix B Layout Plan of the Key Visual Sensitive Receivers**

**KEY FOR VISUAL SENSITIVE RECEIVERS**

- |  |   |   |  |
|--|---|---|--|
| C1 International Finance Centre  | C/R1 Causeway Centre                    | GIC1 General Post Office                            | R1 Residential Properties fronting Tung Lo Wan Road    |
| C2 Hong Kong Station Development Phase 2                                   | C/R2 160-169 Gloucester Road            | GIC2 City Hall                                      | R4 Harbour Heights                                     |
| C3 Exchange Square   | C/R3 210-226 Gloucester Road            | GIC3 PLA Headquarters at Tamar                      | R5 Residential Properties fronting King Wah Road       |
| C4 Jardine House   | C/R4 Elizabeth House                    | GIC4 Hong Kong Police Force Headquarters, May House | R6 City Garden   |
| C5 Mandarin Hotel  | C/R5 Riviera Mansion                    | GIC5 Revenue Tower                                  | R7 Provident Centre                                    |
| C6 Hong Kong Club  | C/R6 Prospect Mansion                   | GIC6 Wan Chai Tower                                 | S1 Harbour Traffic                                     |
| C7 Ritz Carlton Hotel  | C/R7 Miami Mansion                      | GIC7 Police Officers' Club                          | T1 Wanchai North Road Network - vehicular - pedestrian |
| C8 AIA Tower   | C/R8 Marco Polo Mansion                 | GIC8 Queen's College                                | T2 Gloucester Road Corridor - vehicular - pedestrian   |
| C9 Hutchison House   | C/R9 Victoria Park Mansion              | GIC9 Hing Fat Street Post Office                    | T3 Island Eastern Corridor                             |
| C10 Bank of America Tower  | C/R10 Chestorfield Mansion              | GIC10 Victoria Park School for the Deaf             |  |
| C11 Far East Financial Centre  | C/R11 Greenfield Mansion                | GIC11 YMCA  |  |
| C12 Admiralty Centre   | C/R12 Properties fronting Causeway Road | GIC12 Electric Road Municipal Services Building     |  |
| C13 United Centre  | C/R13 Park Towers                       | O1 Fenwick Pier Street Public Open Space            |  |
| C14 CITIC Tower  | C/R14 Viking Garden                     | O2 HKCEC Open Space                                 |  |
| C15 Fleet Arcade   | C/R15 50-52 Hing Fat Street             | O3 HKCEC Extension Open Space and Promenade         |  |
| C16 Asian House  | C/R16 Mayson Garden Building            | O4 Renaissance Harbour View Plaza                   |  |
| C17 Chung Nam Building   | C/R17 Garden House                      | O5 Central Plaza Open Space                         |  |
| C18 Fleet House, Harcourt House  | C/R18 Belle House                       | O6 Wanchai Sports Ground                            |  |
| C19 Telecom House, Hong Kong Arts Centre, Harbour View International House | C/R19 Top Glory Tower                   | O7 Tunnel Approach Rest Garden                      |  |
| C20 Shui On Centre   | C/R20 Hoi Kung Court                    | O8 Victoria Park                                    |  |
| C21 Central Plaza  | C/R21 Hoi To Court                      | O9 Tsim Sha Tsui Waterfront Promenade               |  |
| C22 Grand Hyatt Hotel  | C/R22 Hoi Daen Court                    | OU1 Royal Hong Kong Yacht Club                      |  |
| C23 Renaissance Harbour View Hotel   | C/R23 Pacific Place Complex             |   |  |
| C24 Hong Kong Convention and Exhibition Centre                             |   |   |  |
| C25 Great Eagle Centre   |   |   |  |
| C26 Harbour Centre   |   |   |  |
| C27 China Resources Building   |   |   |  |
| C28 Sun Hung Kai Centre  |   |   |  |
| C29 AXA Centre   |   |   |  |
| C30 Sino Plaza   |   |   |  |
| C31 World Trade Centre   |   |   |  |
| C32 Excelsior Hotel  |   |   |  |
| C33 The Park Lane Hotel  |   |   |  |
| C34 Windsor House  |   |   |  |
| C35 19-31 Yee Wo Street  |   |   |  |
| C36 Citicorp Centre  |   |   |  |
| C37 Victoria Centre  |   |   |  |
| C38 Ocean Terminal   |   |   |  |
| C39 Star House   |   |   |  |
| C40 Peninsula Hotel  |   |   |  |
| C41 Sheraton Hotel   |   |   |  |
| C42 InterContinental Hotel   |   |   |  |
| C43 New World Centre and Hotel   |   |   |  |
| C44 Wing On Plaza  |   |   |  |
| C45 Shangri-La Hotel   |   |   |  |
| C46 Tsim Sha Tsui Centre   |   |   |  |
| C47 Empire Centre  |   |   |  |
| C48 Grand Stanford Harbour View Hotel                                      |   |   |  |
| C49 Nikko Hotel  |   |   |  |
| C50 Four Season Hotel  |   |   |  |
| C51 Harbour Plaza Metropolis   |   |   |  |
| C52 AIA Tower  |   |   |  |
| C53 Newton Hotel   |   |   |  |
| C54 Electric Centre  |   |   |  |
| C54A Sea View Estate   |   |   |  |

**LEGEND**

- PLANNING AND ENGINEERING REVIEW
- TUDY AREA BOUNDARY
- LIMIT OF PRIMARY ZONE OF VISUAL INFLUENCE
- C1 BOUNDARY OF KEY VSRs
- C01 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



WAN CHAI DEVELOPMENT PHASE II - PLANNING AND ENGINEERING REVIEW

KEY VSRs AND PRIMARY ZONE OF VISUAL INFLUENCE DURING CONSTRUCTION

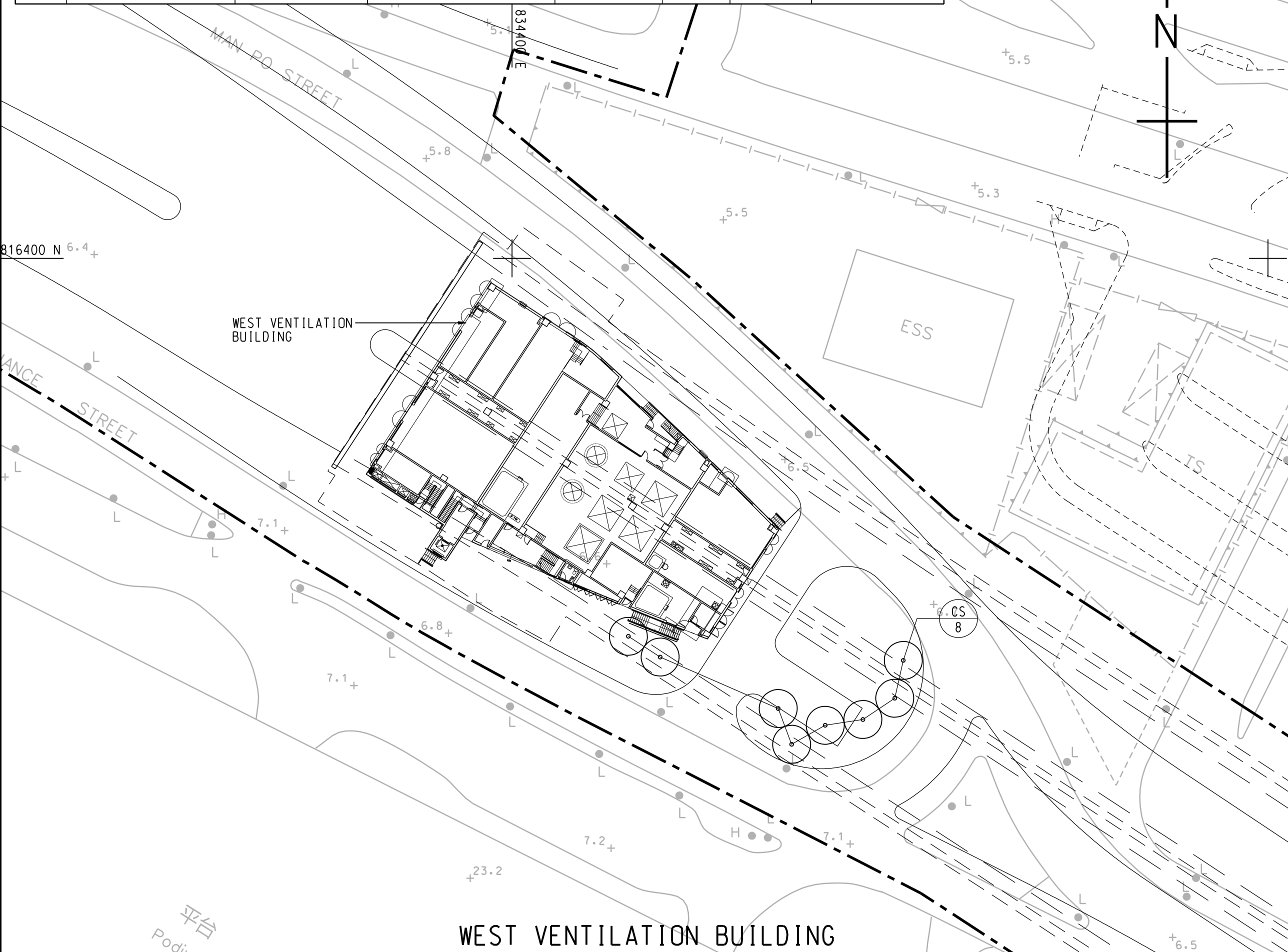
FIGURE 10.4

# **Appendix C**

## **Layout Plan of Tree and Shrub Plantings**

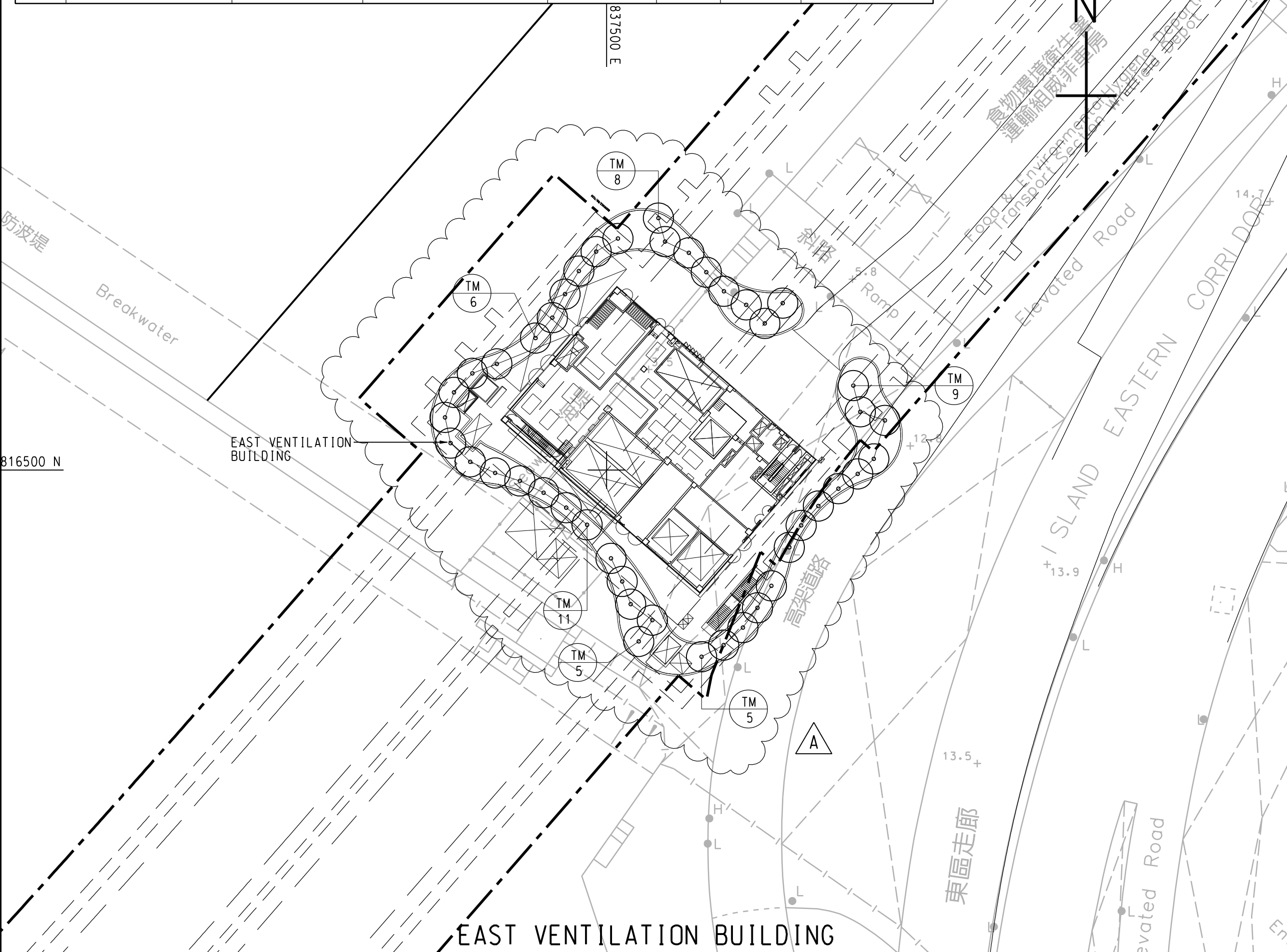
TREE PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m <sup>2</sup>	QUANTITY	COMMENT
CS	CASSIA SURATTENSIS	黃槐	STANDARD	AS SHOWN	-	8	



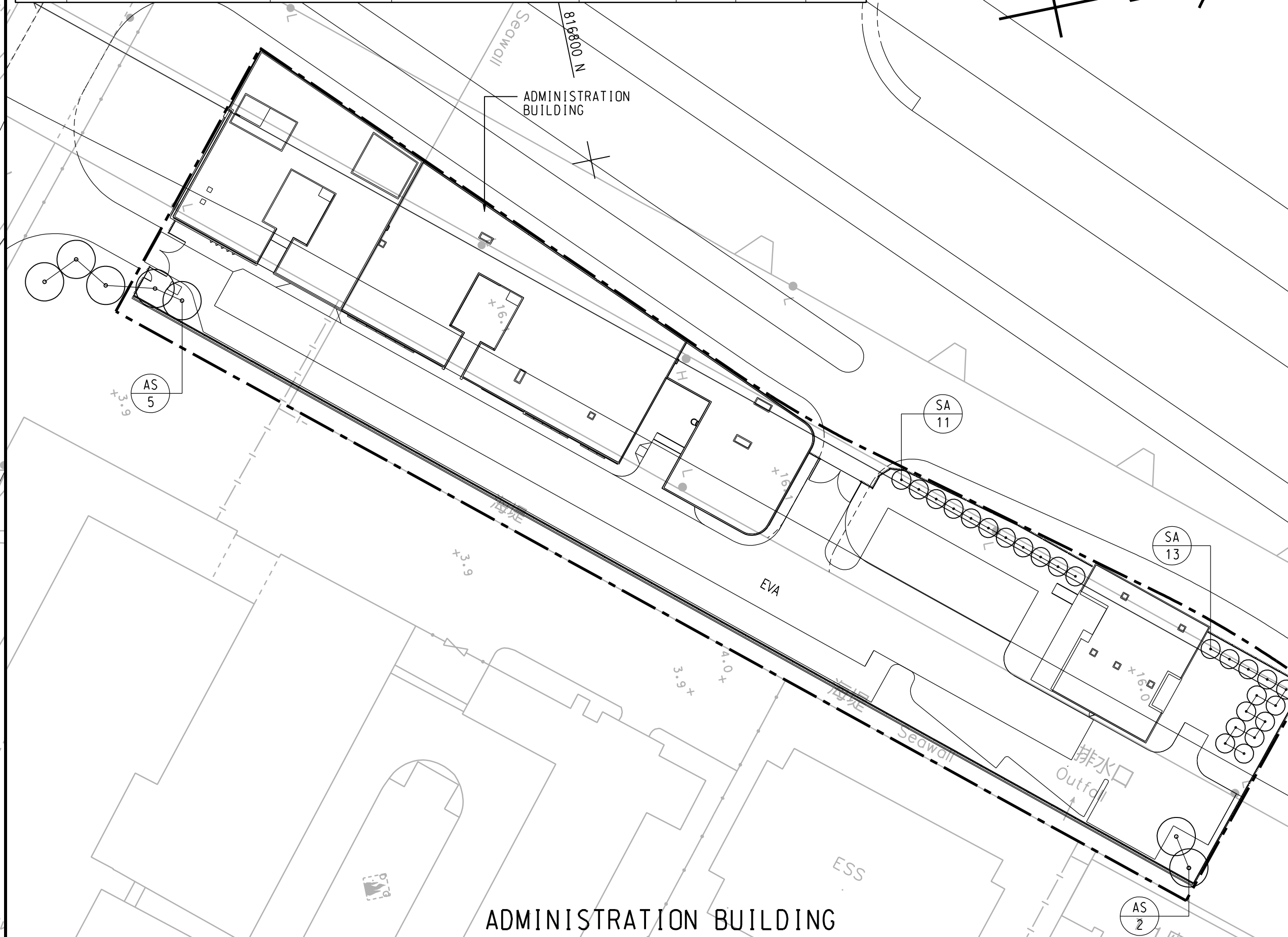
TREE PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m <sup>2</sup>	QUANTITY	COMMENT
TM	TERMINALIA MANTALY	細葉欖仁	HEAVY STANDARD	AS SHOWN	-	44	



TREE PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m <sup>2</sup>	QUANTITY	COMMENT
AS	ALSTONIA SCHOLARIS	糖膠樹	HEAVY STANDARD TREE	AS SHOWN	-	7	
SA	SCHEFFLERA ACTINOPHYLLA	傘樹	HEAVY STANDARD TREE	AS SHOWN	-	24	

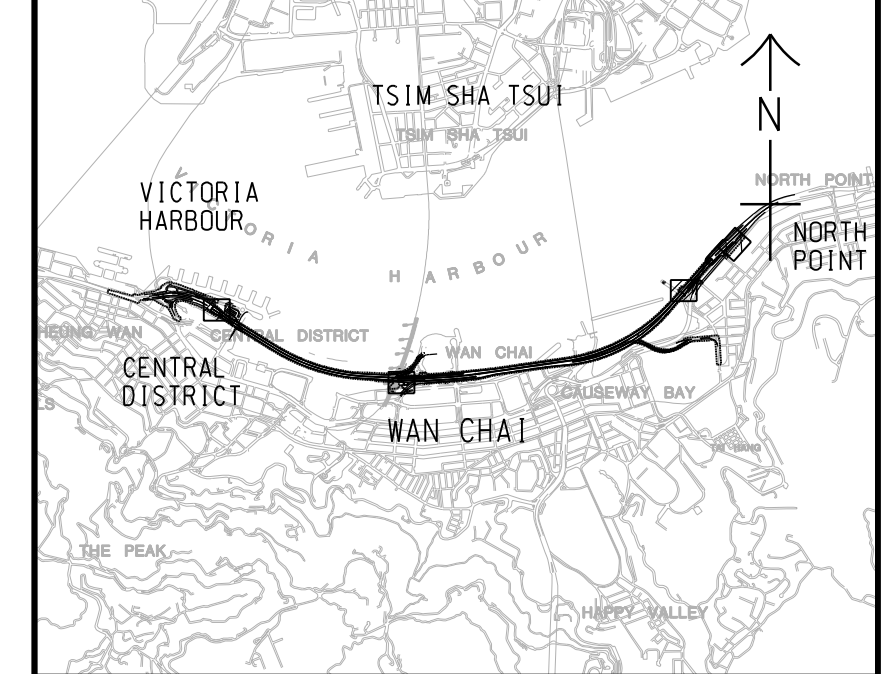


GENERAL NOTES FOR LANDSCAPE WORKS:

- UNDERGROUND UTILITIES**  
UTILITY COVERS SERVICES SHOWN ON THE PLANS ARE INDICATIVE. EXACT LOCATIONS TO BE CONFIRMED BY THE ENGINEER. NO TREES SHALL BE PLANTED WITHIN 1m OF A MANHOLE OR DRAINAGE U-CHANNEL. THERE SHALL BE NO PLANTING WITHIN THE SPACE OF 1.5m AROUND THE COVER OF ANY HYDRANT VALVE OR THE COVER OF WSD'S VALVES. OR WITHIN A DISTANCE OF 1m FROM ANY HYDRANT OUTLET. NO TREES SHALL BE PLANTED WITHIN 2m OF A ROAD KERB OR ENGINEERING STRUCTURE.
- WATERING**  
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84-WATERING.

LEGEND:

- SITE BOUNDARY
- ▭ RECTANGLE TREE PLANTING
- PROPOSED TREE PLANTING
- FB/7 PLANT CODE QUANTITY



KEY PLAN  
SCALE A1 : 50000  
A3 : 100000

GENERAL NOTES FOR LANDSCAPE WORKS:

- GENERAL INFORMATION**  
THESE DRAWING PACKAGES INTENDS TO SHOW SOFT LANDSCAPE TREATMENT ONLY. FOR SETTING OUT AND STRUCTURAL DESIGNS, REFER TO ENGINEERING PACKAGE. FOR CONSTRUCTION OF ALL ENGINEERING WORKS INCLUDING ROADWAYS, BRIDGE AND UTILITIES, REFER TO ENGINEERING DRAWING PACKAGE. THE CONTRACTOR SHALL REPORT TO THE ENGINEER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
- DRAWING DIMENSIONS**  
ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- GROUND PREPARATION WORKS**  
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.
- SOIL MIX AND SOIL CONDITIONER**  
SOIL MIX SHALL CONSIST OF FRIABLE COMPLETELY DECOMPOSED GRANITE AND SOIL CONDITIONER IN THE PROPORTIONS 3:1 BY VOLUME AND SHALL BE FREE OF DELETERIOUS MATERIALS AS SPECIFIED IN G.S. CLAUSE 3.30 - SOIL-MIX AND G.S. CLAUSE 3.31 FOR SOIL CONDITIONER.
- MULCHING**  
TREE PLANTING AND SHRUB AREAS SHALL BE MULCHED TO A DEPTH OF 50mm. FINISH LEVEL OF MULCH SHALL BE 25mm BELOW ADJACENT FINISHED SURFACES. AND COMPLY WITH G.S. CLAUSE 3.32.
- PLANT NAME**  
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
- PLANTING PATTERN**  
ALL PLANTS ARE TO BE PLANTED IN STAGGERED PATTERN AT SPACING INDICATED IN THE SCHEDULE. CLIMBING PLANTS SHALL BE PLANTED AGAINST SUPPORTING STRUCTURE.
- TREE PLANTING**  
LOCATION OF TREES IS SHOWN ON THE DRAWING. SPACING INDICATED IN THE PLANT SCHEDULE IS INDICATIVE. TREES SHALL BE LOCATED TO AVOID ANY UNDERGROUND UTILITIES. ALL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
- STAKING**  
BAMBOO STAKES SHALL BE USED FOR ALL TREES EXCEPT WHIPS AS SPECIFIED IN G.S. 3.36. TREE TRUNKS SHALL BE PROTECTED BY USING RUBBER HOUSE PROTECTIVE SLEEVING OR SIMILAR, AND SHALL BE LOOSENED TWICE A YEAR.
- DRAINAGE**  
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHALL REFER TO ENGINEERING DRAWING.

B	WORKING DRAWING	JWK/ALCF	MAR 14
A	TENDER ADDENDUM NO. 1	JWK/ALCF	JUN 13
-	TENDER DRAWING	JWK/ALCF	MAY 13
REV.	DESCRIPTION	DATE	DATE
	內容	日期	日期

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

CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

TREE PLANTING PLAN



DRG.NO. 60095653/RW/1701B  
圖紙編號

DESIGNED BY ALCF	CONTRACT NO. HY/2011/08	P. DIV. APPROVED CWN
DRAWN BY LHJ	STATUS WORKING DRAWING	
SCALE A1 1 : 500 A3 1 : 1000		
DIMENSIONS ARE IN METRES		

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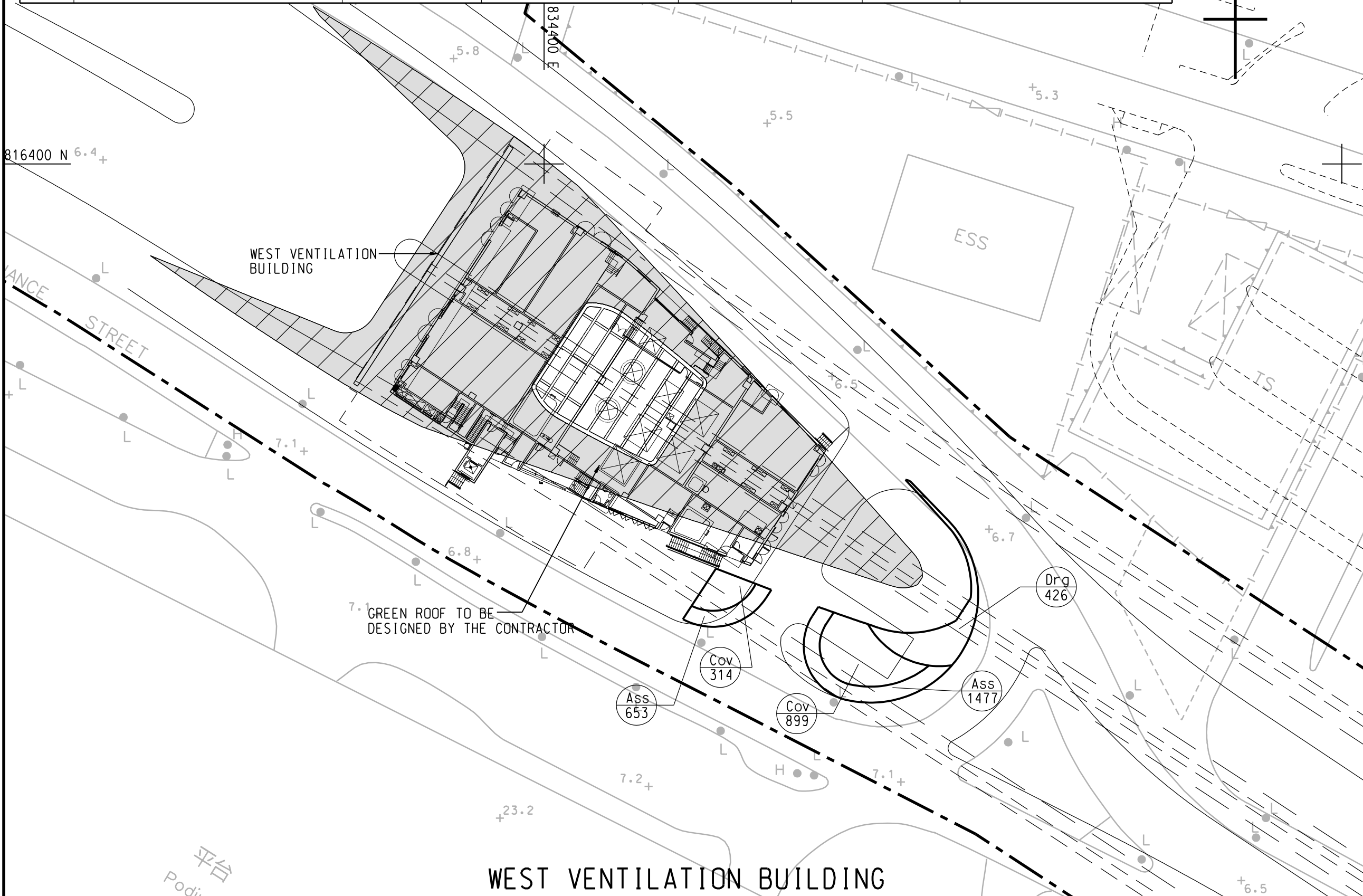
Plot File by: LIUL 2015-6-26

SHRUB PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m <sup>2</sup>	QUANTITY	COMMENT
Drq	DURANTA REPENS 'GOLDEN'	金連翹	500(H)x500(S)	400	7.25	426	PLANT ALL SPECIES IN A STAGGERED PATTERN
Cov	CODIAEUM VARIEGATUM	洒金榕	400(H)x400(S)	300	12.54	1213	

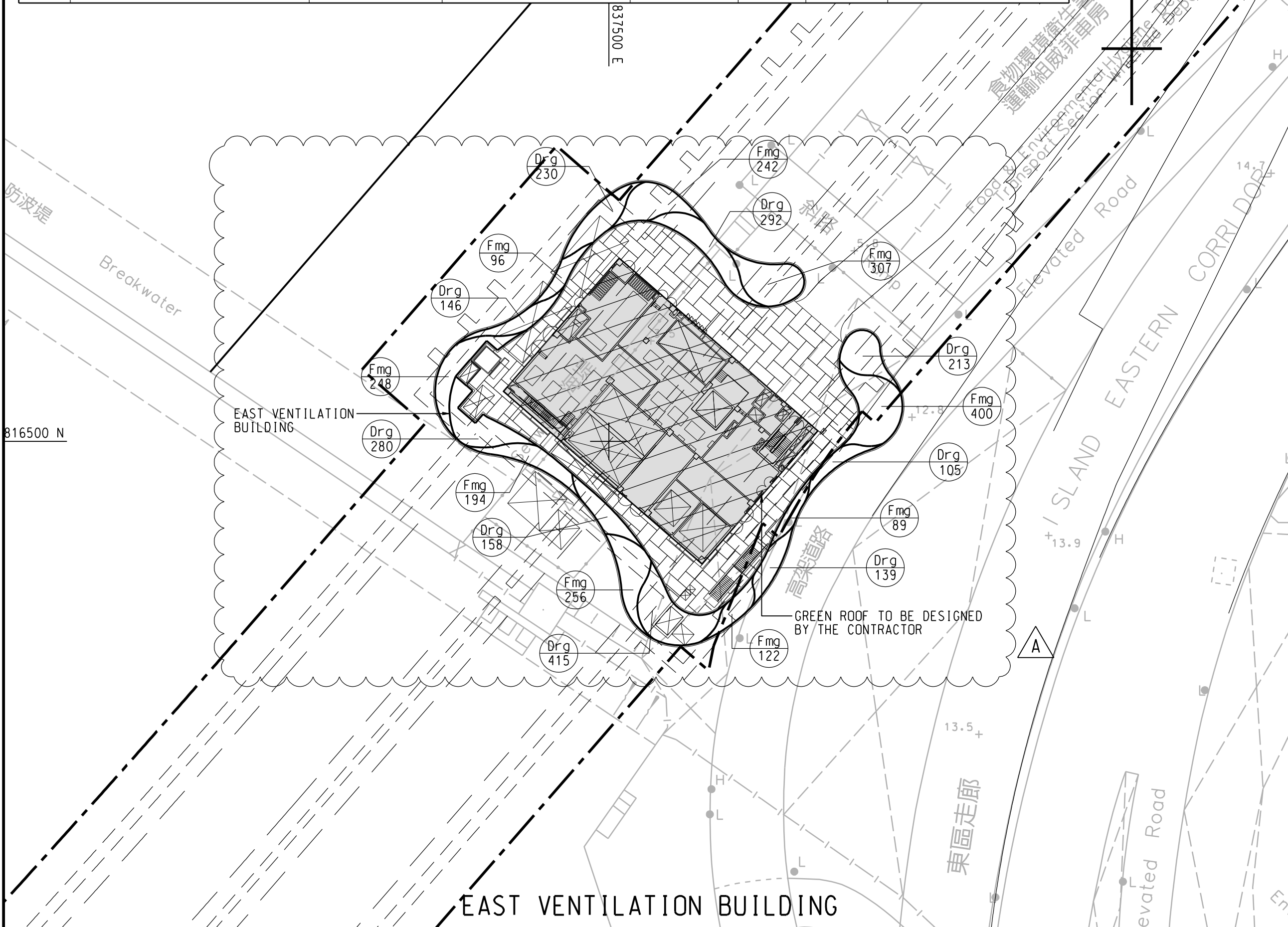
GROUND COVER PLANTING

Ass	ASPARAGUS SPRENGEN	天冬	200(H)x200(S)	200	29	2130	PLANT ALL SPECIES IN A STAGGERED PATTERN
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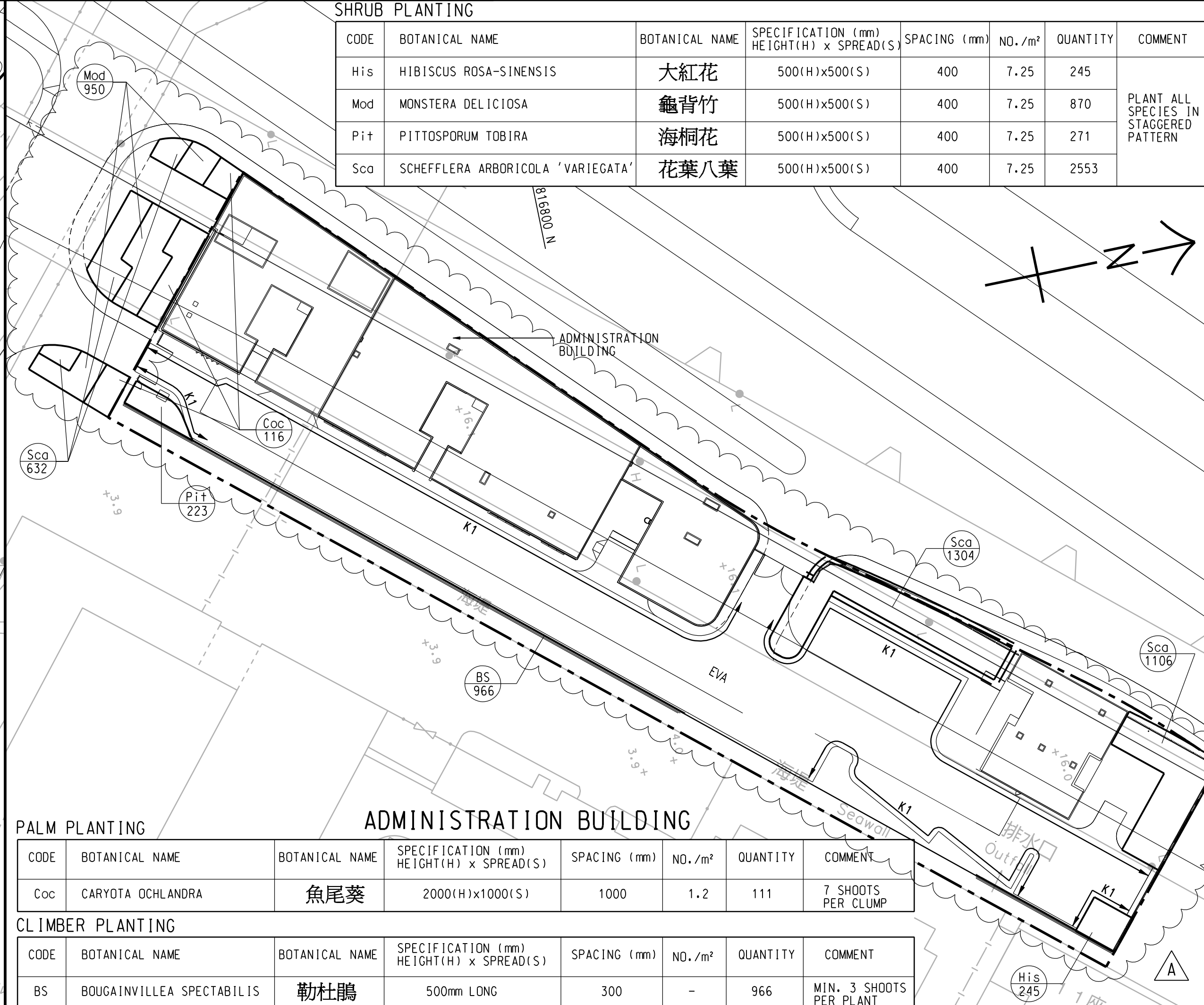
SHRUB PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m <sup>2</sup>	QUANTITY	COMMENT
Drq	DURANTA REPENS 'GOLDEN'	金連翹	500(H)x500(S)	400	7.25	1978	PLANT ALL SPECIES IN A STAGGERED PATTERN
Fmg	FICUS MICROCARPA 'GOLDEN LEAF'	黃榕	500(H)x500(S)	400	7.25	1954	



SHRUB PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m <sup>2</sup>	QUANTITY	COMMENT
His	HIBISCUS ROSA-SINENSIS	大紅花	500(H)x500(S)	400	7.25	245	PLANT ALL SPECIES IN A STAGGERED PATTERN
Mod	MONSTERA DELICIOSA	龜背竹	500(H)x500(S)	400	7.25	870	
Pit	PITTIOSPORUM TOBIRA	海桐花	500(H)x500(S)	400	7.25	271	
Scs	SCHEFFLERA ARBORICOLA 'VARIEGATA'	花葉八葉	500(H)x500(S)	400	7.25	2553	

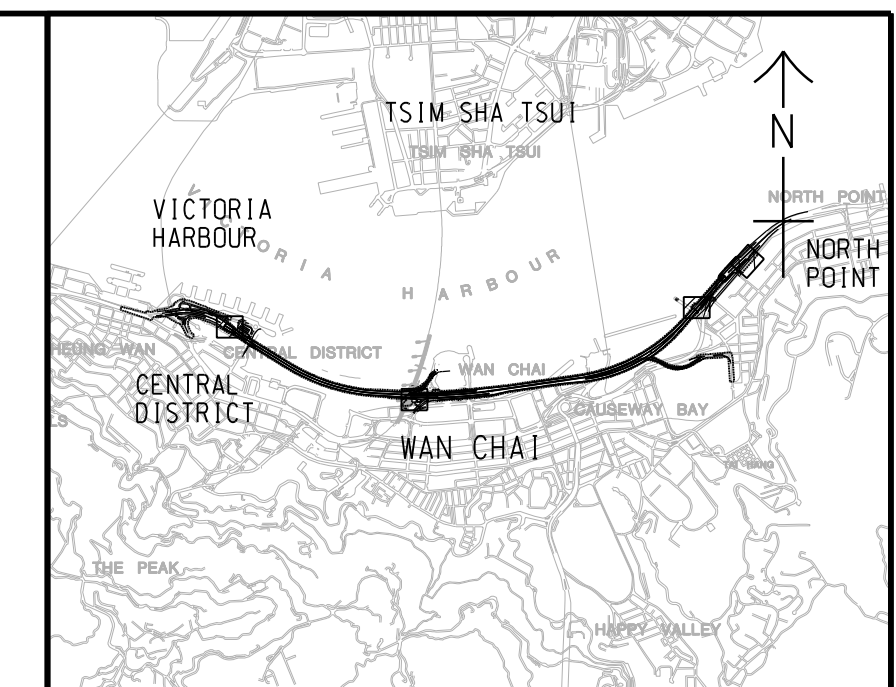


PALM PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m <sup>2</sup>	QUANTITY	COMMENT
Coc	CARYOTA OCHLANDRA	魚尾葵	2000(H)x1000(S)	1000	1.2	111	7 SHOOTS PER CLUMP

CLIMBER PLANTING

CODE	BOTANICAL NAME	BOTANICAL NAME	SPECIFICATION (mm) HEIGHT(H) x SPREAD(S)	SPACING (mm)	NO./m <sup>2</sup>	QUANTITY	COMMENT
BS	BOUGAINVILLEA SPECTABILIS	勒杜鵑	500mm LONG	300	-	966	MIN. 3 SHOOTS PER PLANT

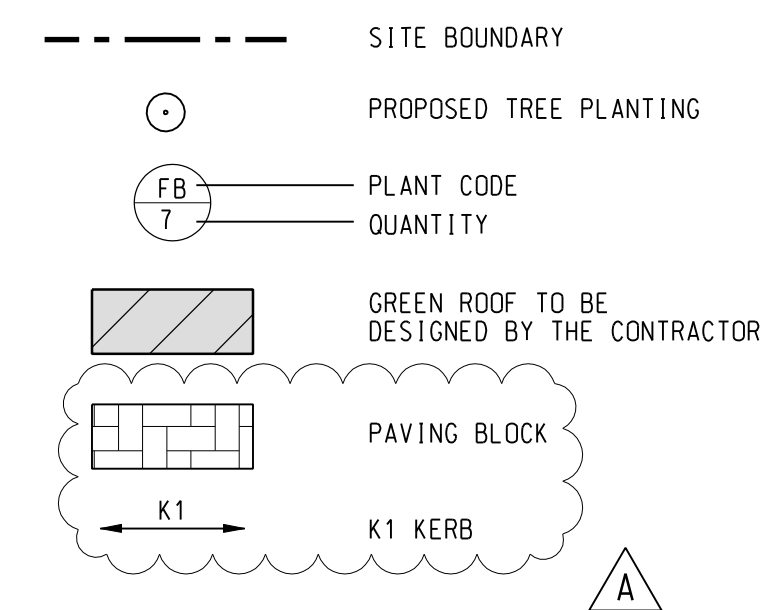


KEY PLAN  
SCALE A1 : 50000  
A3 : 100000

NOTES:

- GENERAL NOTES REFERS TO DRAWING NO. 60095653/RW/1701.
- DETAILS OF K1 KERB SHALL BE REFER TO HYD STANDARD DRAWING H1118.
- PAVING BLOCK REFER TO HIGHWAYS DEPARTMENT STANDARD DRAWING H1103E.
- THE EXTENT OF PAVEMENT SHOWN IN THIS DRAWING IS INDICATIVE ONLY. THE EXACT EXTENT AND DETAILS SHALL BE SUBMITTED BY THE CONTRACTOR AND AGREED ON SITE WITH THE ENGINEER.

LEGEND:



B	WORKING DRAWING	JWK/ALCF	MAR 14
A	TENDER ADDENDUM NO. 1	JWK/ALCF	JUN 13
-	TENDER DRAWING	JWK/ALCF	MAY 13

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

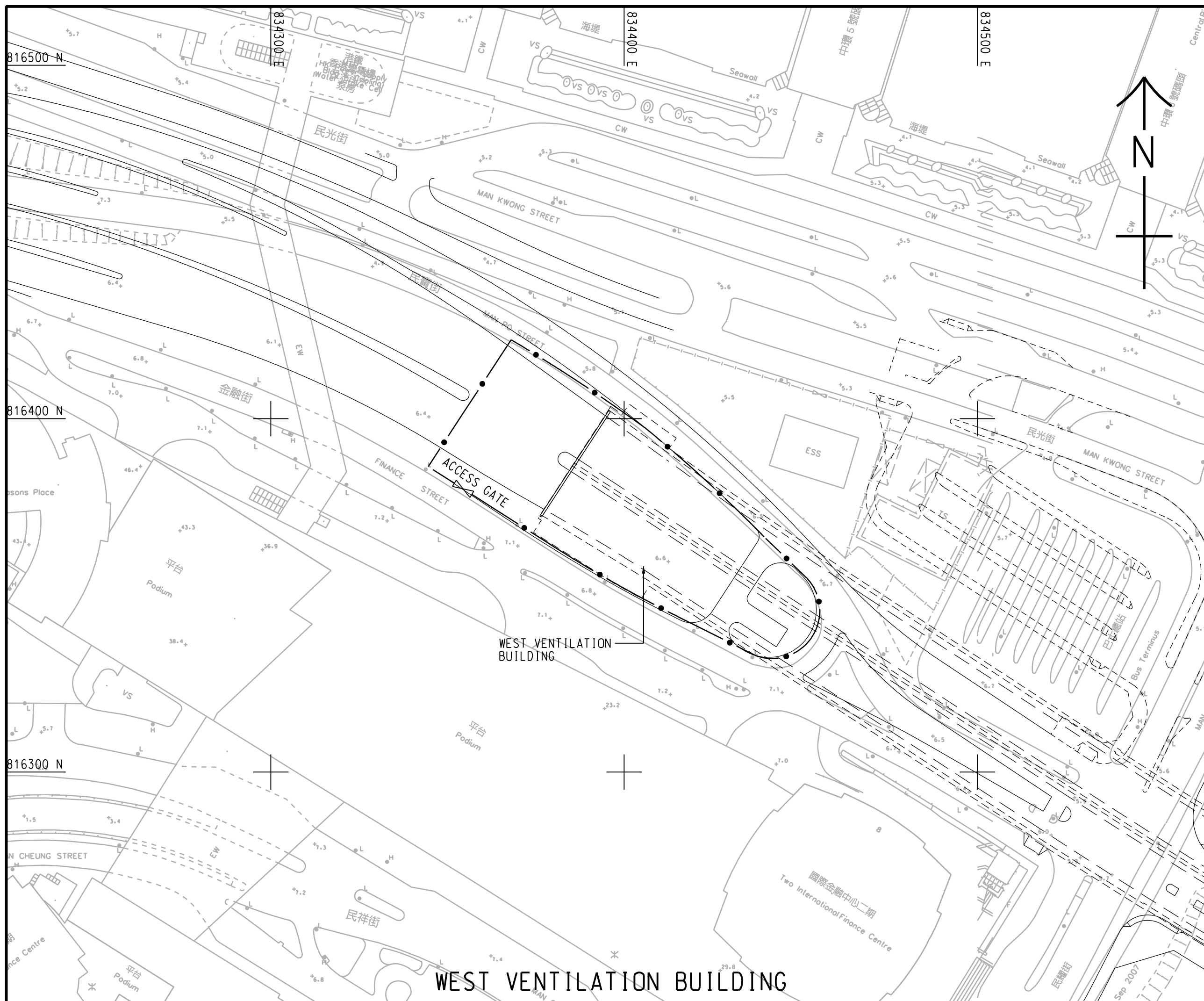
CENTRAL - WAN CHAI BYPASS -  
TUNNEL BUILDINGS, SYSTEMS AND FITTINGS,  
AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING  
PLAN FOR SHRUB PLANTING  
AND ROAD FURNITURE  
AT VENTILATION BUILDINGS

**AECOM**

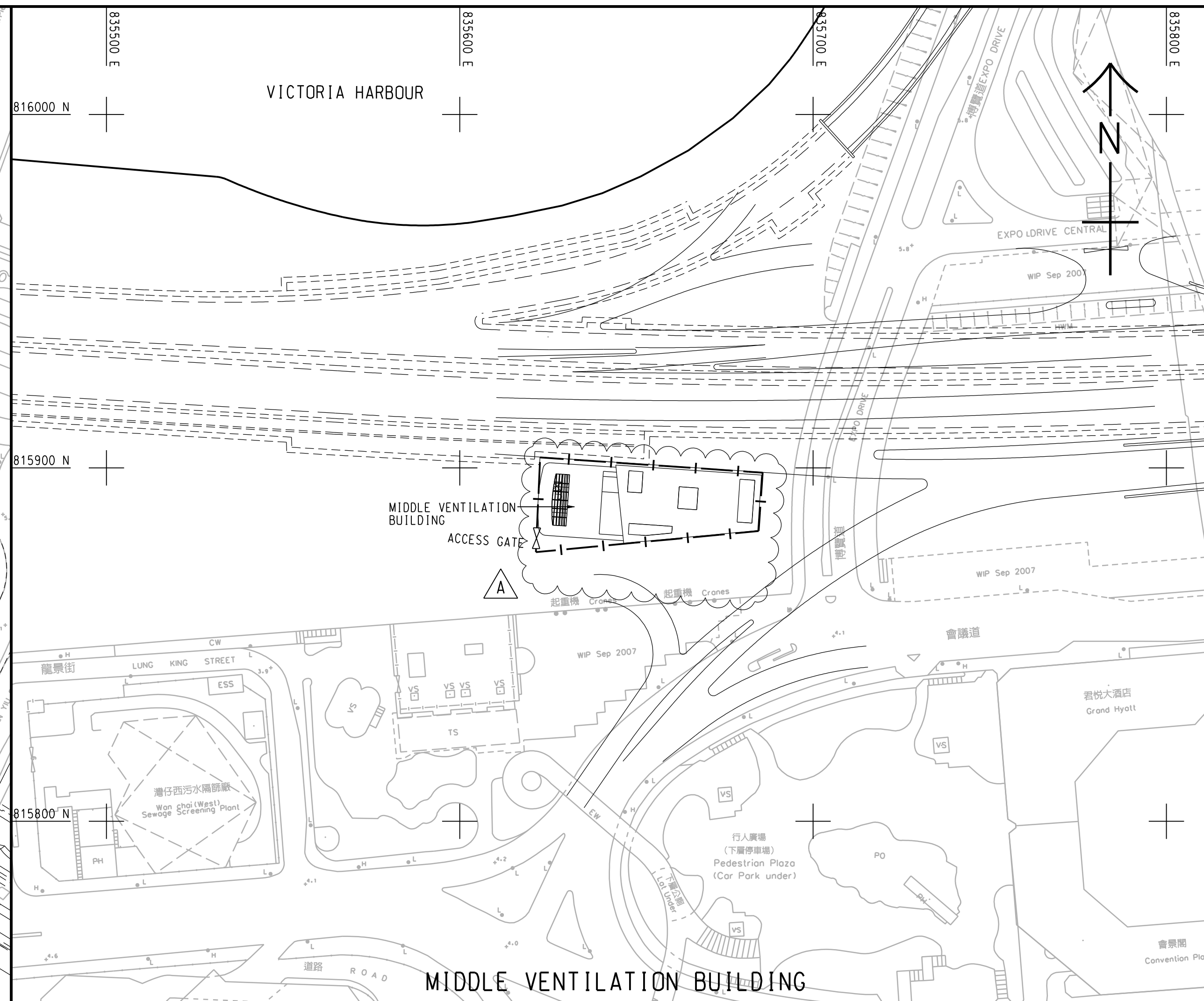
DRG.NO. 60095653/RW/1711B  
圖紙編號

DESIGNED BY 設計	ALCF	CONTRACT NO. 合約編號	HY/2011/08	P. DIR. APPROVED 批核	CWY
DRAWN BY 繪圖	LHJ	STATUS 圖況	<b>WORKING DRAWING</b>		
SCALE 比例	A1 1 : 500 A3 1 : 1000	DIMENSIONS ARE IN 尺寸單位			
METRES		© COPYRIGHT RESERVED 版權所有			

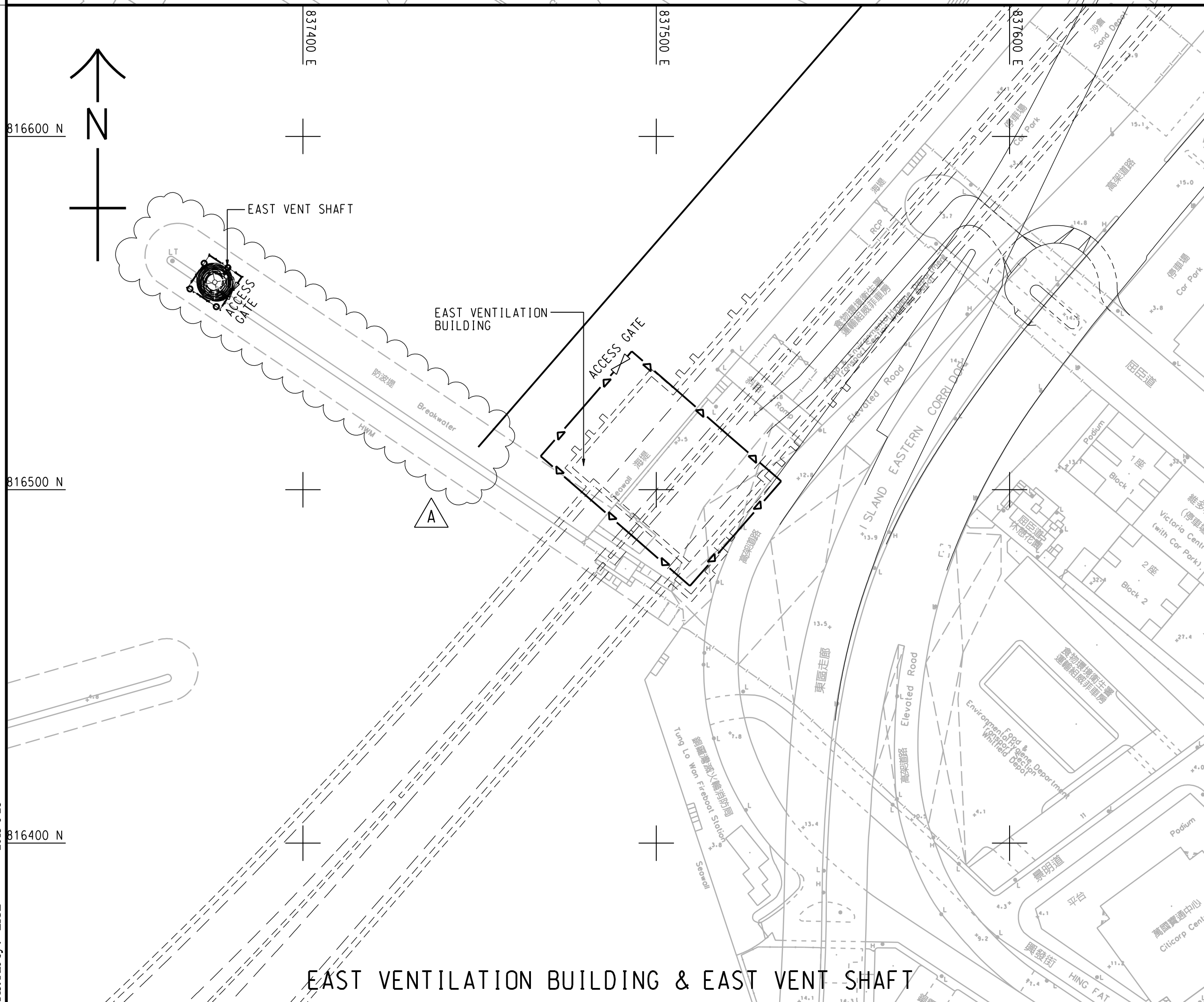
# **Appendix D Layout Plan of Hoarding Works and Hoarding Designs**



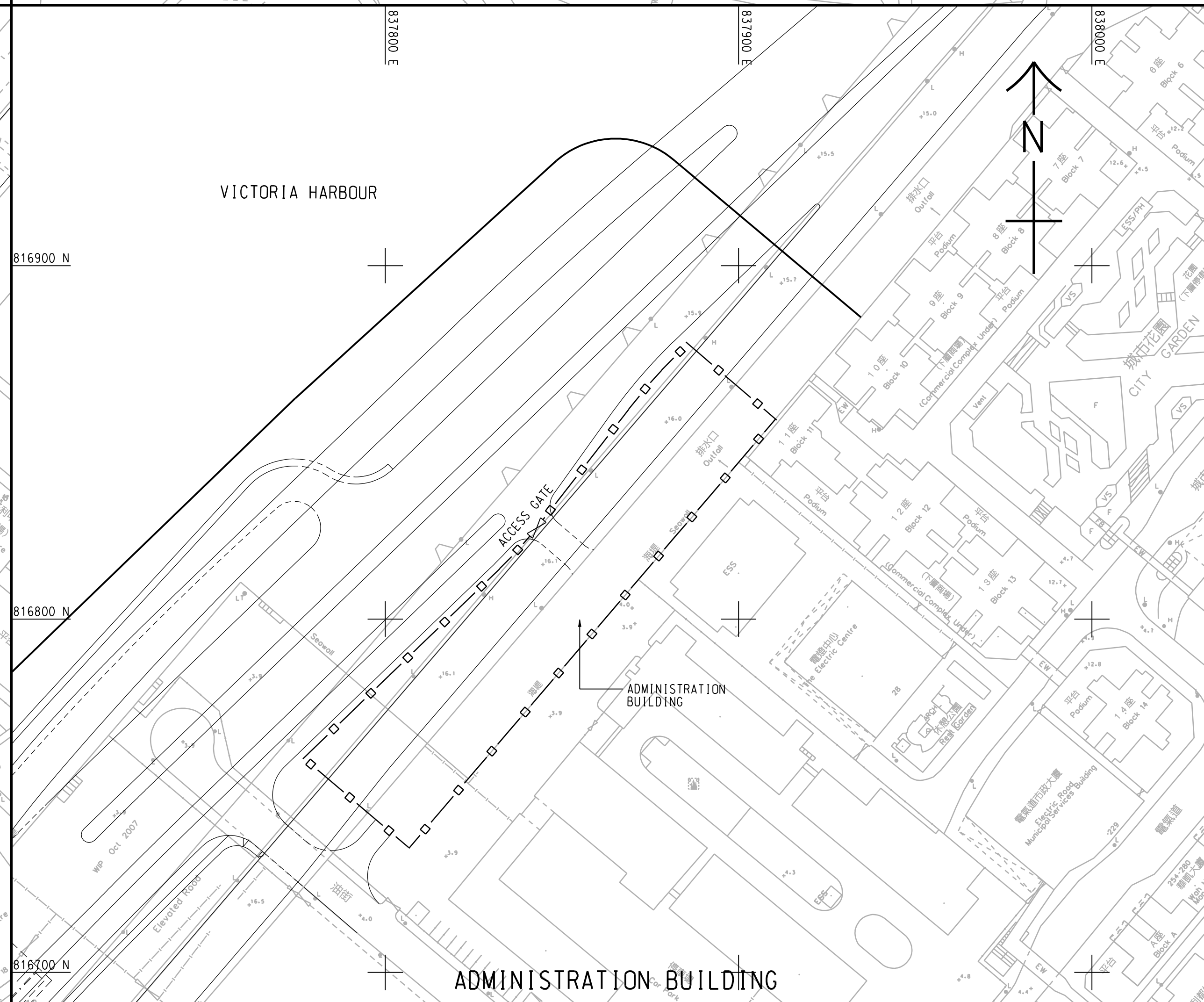
WEST VENTILATION BUILDING



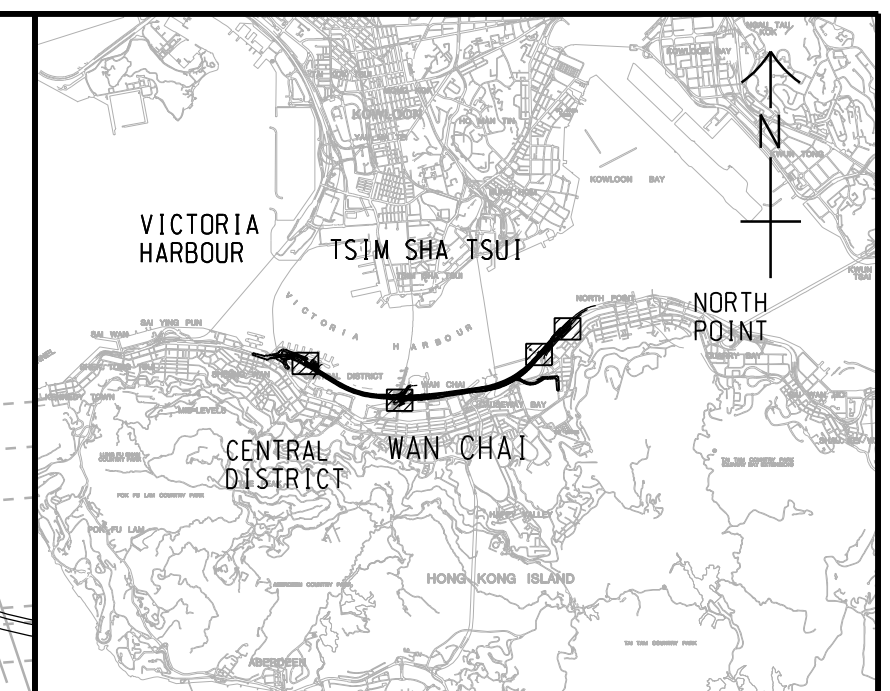
MIDDLE VENTILATION BUILDING



EAST VENTILATION BUILDING & EAST VENT SHAFT



ADMINISTRATION BUILDING



KEY PLAN  
SCALE A1 : 100000  
A3 : 200000

- NOTES:**
1. DETAILS OF TEMPORARY STANDARD HOARDING SHALL REFER TO HYD STANDARD DRAWINGS H6110 AND H6111.
  2. THE CONTRACTOR SHALL PROVIDE THREE ALTERNATIVE OPTIONS OF AESTHETIC PROFESSIONAL DESIGNS FOR EACH TYPE OF HOARDINGS IN ACCORDANCE WITH P.S. CLAUSE 1.48A.
  3. THE CONTRACTOR MAY ADJUST THE HOARDING PANELS TO SUIT THE SITE CONDITIONS, SUBJECT TO THE AGREEMENT BY THE ENGINEERS.
  4. HOARDING SHALL BE PROPERLY LIT AT NIGHT.

- LEGEND:**
- SITE BOUNDARY
  - TYPE-A HOARDING (TYPE A/B/C)
  - | | - TYPE-B HOARDING (TYPE A/B/C)
  - ▲- TYPE-C HOARDING (TYPE A/B/C)
  - TYPE-D HOARDING (TYPE A/B/C)
  - TYPE-E HOARDING (TYPE A/B/C)
  - △ ACCESS GATE (DETAILS REFER TO CEDD STANDARD DRAWINGS NO. C1007).

REV.	DESCRIPTION	DATE
A	TENDER ADDENDUM NO. 1	JUN 13
-	TENDER DRAWING	MAY 13

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

CENTRAL - WAN CHAI BYPASS - TUNNEL BUILDINGS, SYSTEMS AND FITTINGS, AND WORKS ASSOCIATED WITH TUNNEL COMMISSIONING

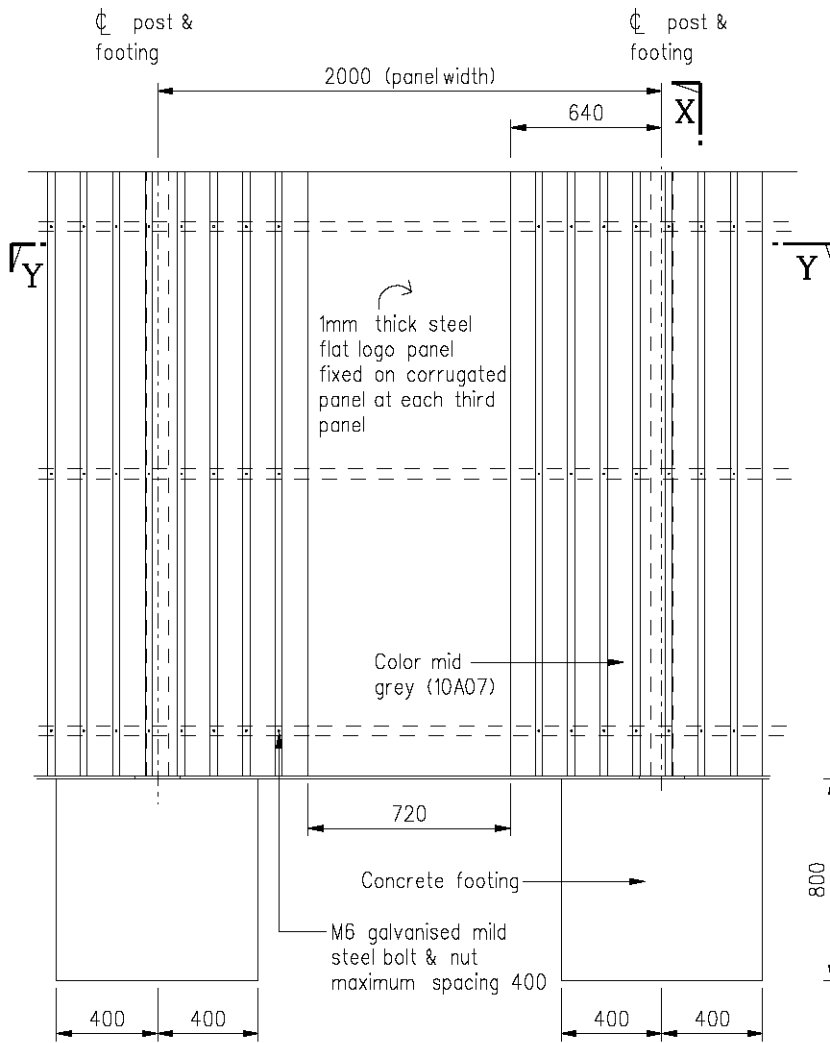
HOARDING LAYOUT PLAN



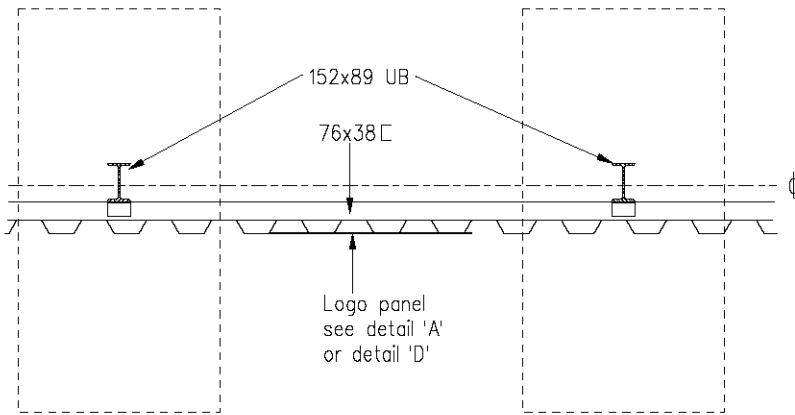
DRG.NO. 60095653/RW/1121A  
圖紙編號

DESIGNED BY ALCF	CONTRACT NO. HY/2011/08	P. BY - APPROVED CWN
DRAWN BY LHJ	STATUS CHECKED	
SCALE A1 1 : 1000 A3 1 : 2000	DIMENSIONS ARE IN METRES	

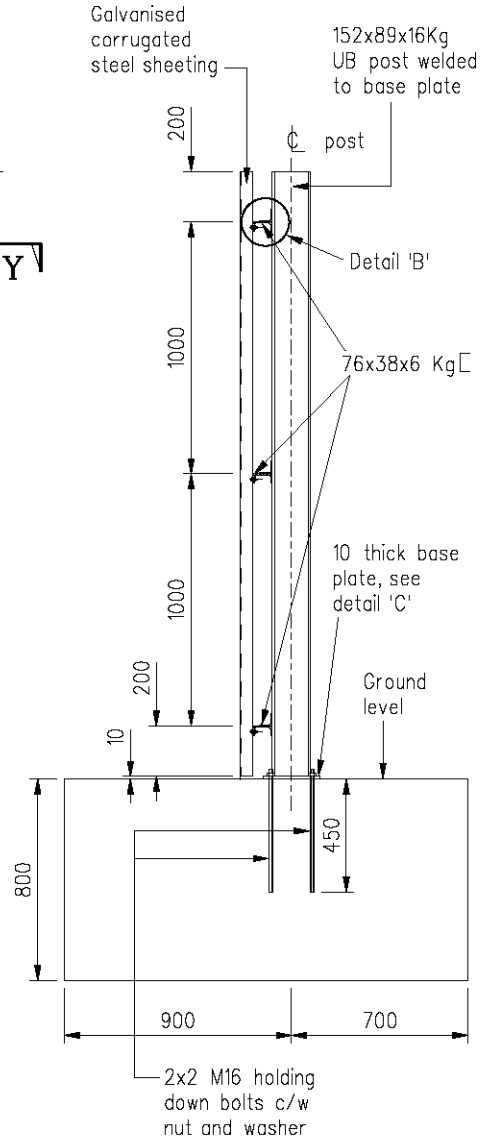
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ELEVATION



SECTION Y - Y



SECTION X - X

Notes :

1. For notes, see Drg. H6111.
2. Where the concrete footing is located in black paved footpath, the footing should be lowered to allow for the paving blocks and the sand course.
3. Logo to details 'A' and 'D' shall be displayed alternately.

C	Note 3 added, notes in section Y-Y revised and dimensions in Elevation revised for clarity		Jul 11
B	Note 2 added		Nov 99
A	Height of steel sheeting and sizes of post & footing revised		June 97
	Former Drg. No. H6007/1A		June 94
REF.	REVISION	SIGNATURE	DATE

**SITE HOARDINGS  
(SHEET 1 OF 2)**

**HIGHWAYS DEPARTMENT**

REFERENCE

DRAWING No.

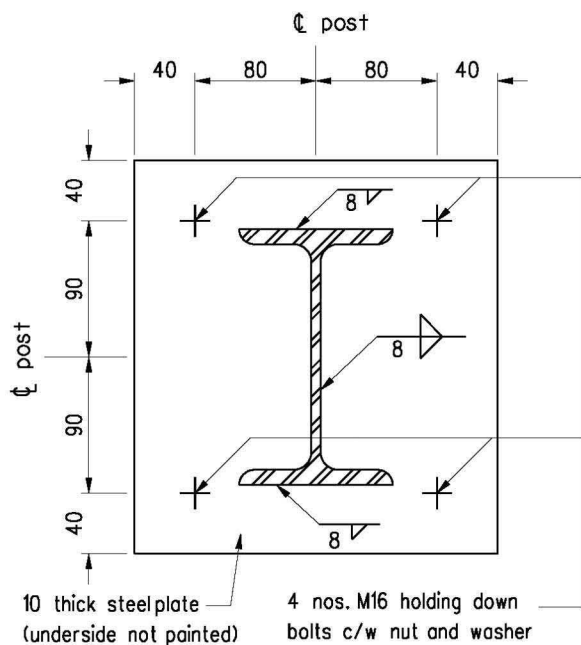
CAD

SCALE

1 : 30

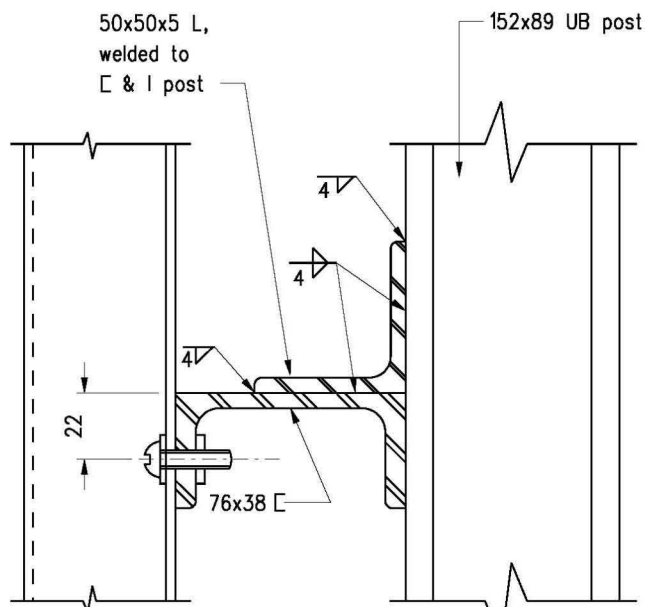
**H 6110C**





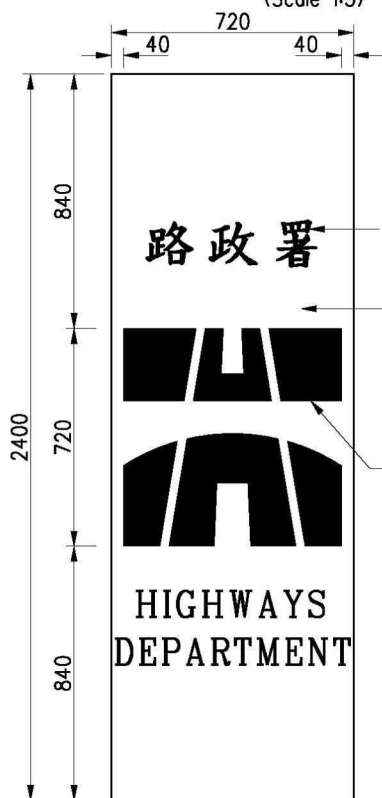
**DETAIL 'C'**

(Scale 1:5)

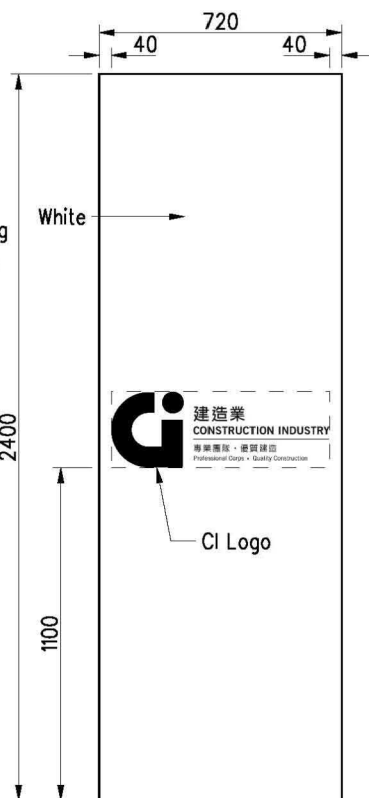


**DETAIL 'B'**

(Scale 1:2.5)



**DETAIL 'A'**



**DETAIL 'D'**

**Notes:**

1. Dimensions are in millimetres.
2. For details of Highways Department logo and Construction Industry Logo, see Drg. H6101 and H6163 respectively.
3. All steelwork except corrugated steel sheeting shall be painted with system A stated in clause 18.63 of G.S. 2006.
4. All concrete shall be grade 20/20. The use of recycled aggregates may be considered.
5. Corrugated steel sheeting shall have section modulus not less than 2000mm<sup>3</sup>/m. The sheeting shall be to BS3083 8/3 G350.
6. Alternative construction details (including foundation details) for the site hoarding, which must be capable of withstanding a wind pressure of 1.2 KPa, shall be agreed to by the Engineer.

REF.	REVISION	SIGNATURE	DATE
D	Note 2 revised, detail 'D' added and dimensions of detail 'A' revised for clarity		Jul 11
C	Notes 3, 4 and 6 revised		Nov 07
B	Highways Department in Chinese is placed at the top of the logo		Dec 99
A	Sizes of post & steel plate and details of welding revised		Jun 97
	Former Drg. No. H6007/2		Jun 94

**SITE HOARDINGS  
(SHEET 2 OF 2)**

**HIGHWAYS DEPARTMENT**

REFERENCE

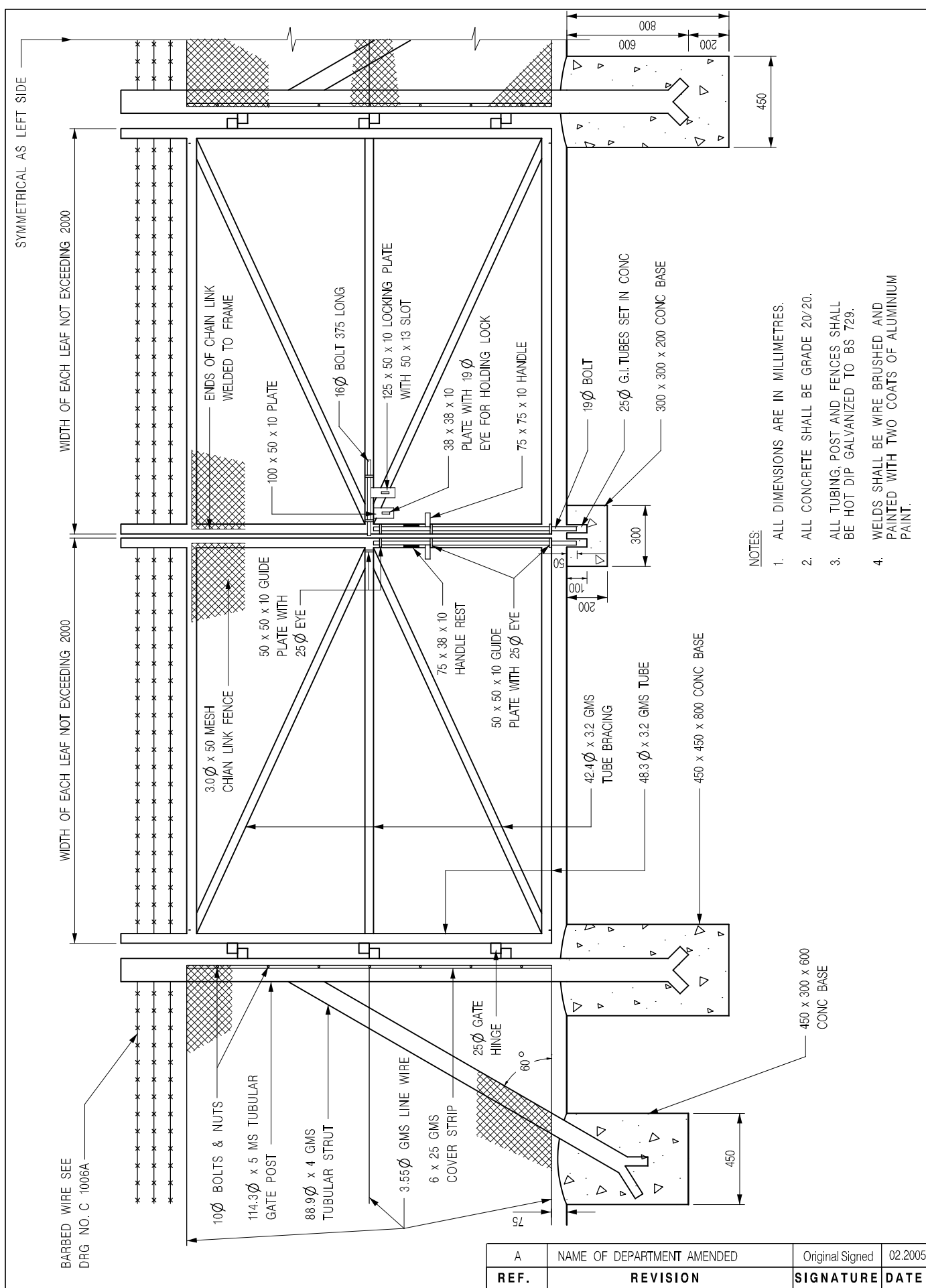
DRAWING No.

CAD

SCALE

1:25 or As shown

**H 6111D**



**NOTES:**

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL CONCRETE SHALL BE GRADE 20/20.
3. ALL TUBING, POST AND FENCES SHALL BE HOT DIP GALVANIZED TO BS 729.
4. WELDS SHALL BE WIRE BRUSHED AND PAINTED WITH TWO COATS OF ALUMINIUM PAINT.


BARBED WIRE SEE  
DRG NO. C 1006A

WIDTH OF EACH LEAF NOT EXCEEDING 2000

WIDTH OF EACH LEAF NOT EXCEEDING 2000

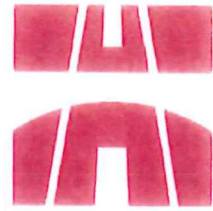
SYMMETRICAL AS LEFT SIDE

# GATE TYPE I

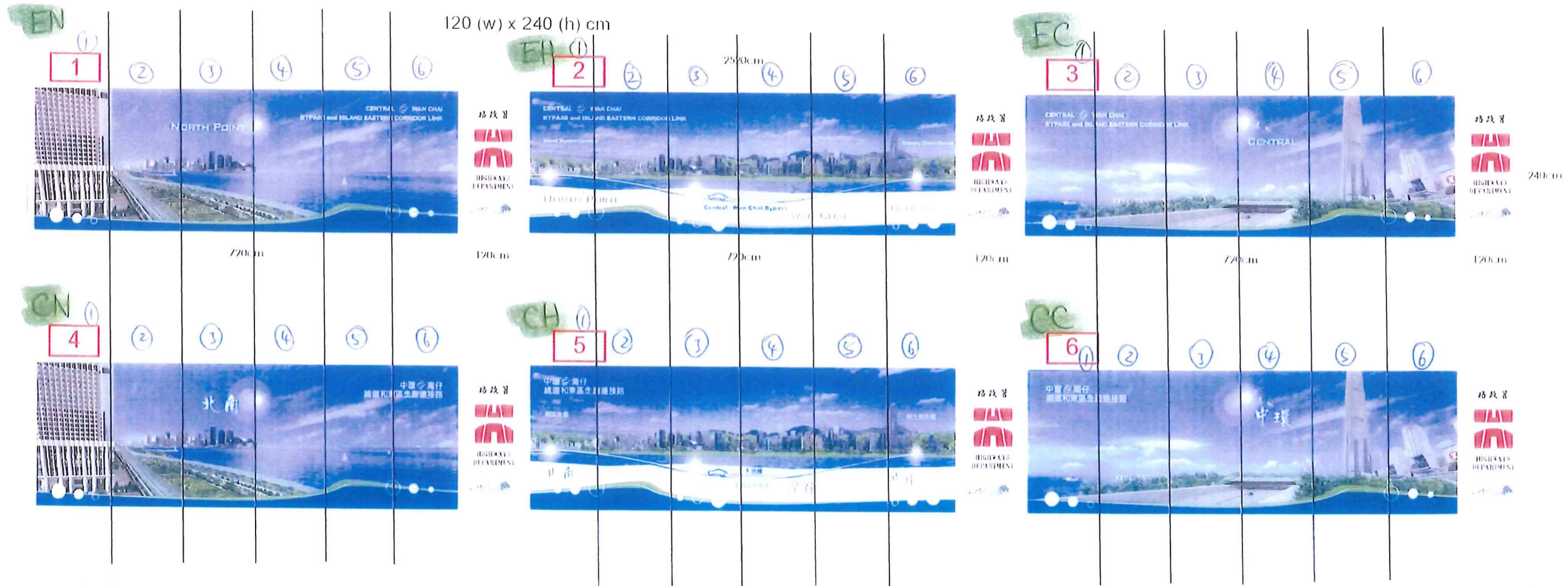
A	NAME OF DEPARTMENT AMENDED	Original Signed	02.2005
REF.	REVISION	SIGNATURE	DATE
 <b>CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT</b>			
SCALE 1 : 25		<b>DRAWING NO.</b> <b>C1007A</b>	
DATE JAN 1991			

# The Perspective of Hoarding

路政署



HIGHWAYS  
DEPARTMENT



# Type A (Chinese Version)

CN

①

120 cm

②

120 cm

③

120 cm

④

120 cm

⑤

120 cm

⑥

120 cm



720 (w) x 240 (h) cm

# Type A (English Version)

EN

①

120 cm

②

120 cm

③

120 cm

④

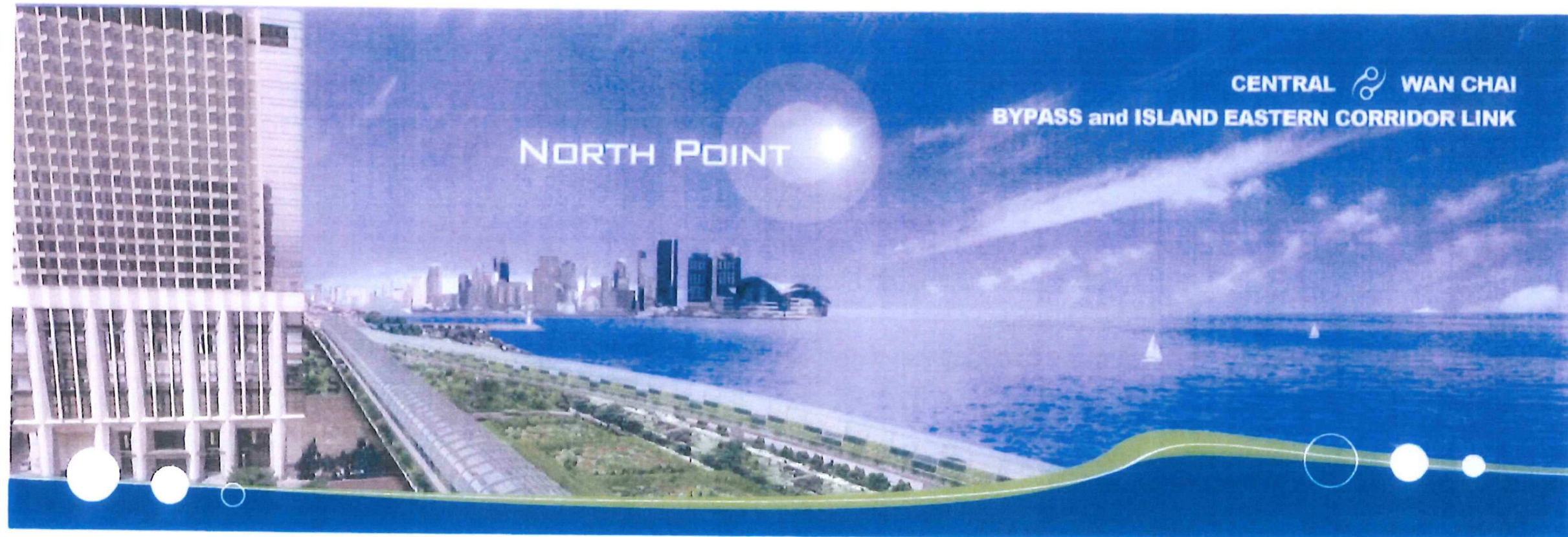
120 cm

⑤

120 cm

⑥

120 cm



720 (w) x 240 (h) cm

# Type B (Chinese Version)

CH

①

120 cm

②

120 cm

③

120 cm

④

120 cm

⑤

120 cm

⑥

120 cm



720 (w) x 240 (h) cm

# Type B (English Version)

EH



120 cm



120 cm



120 cm



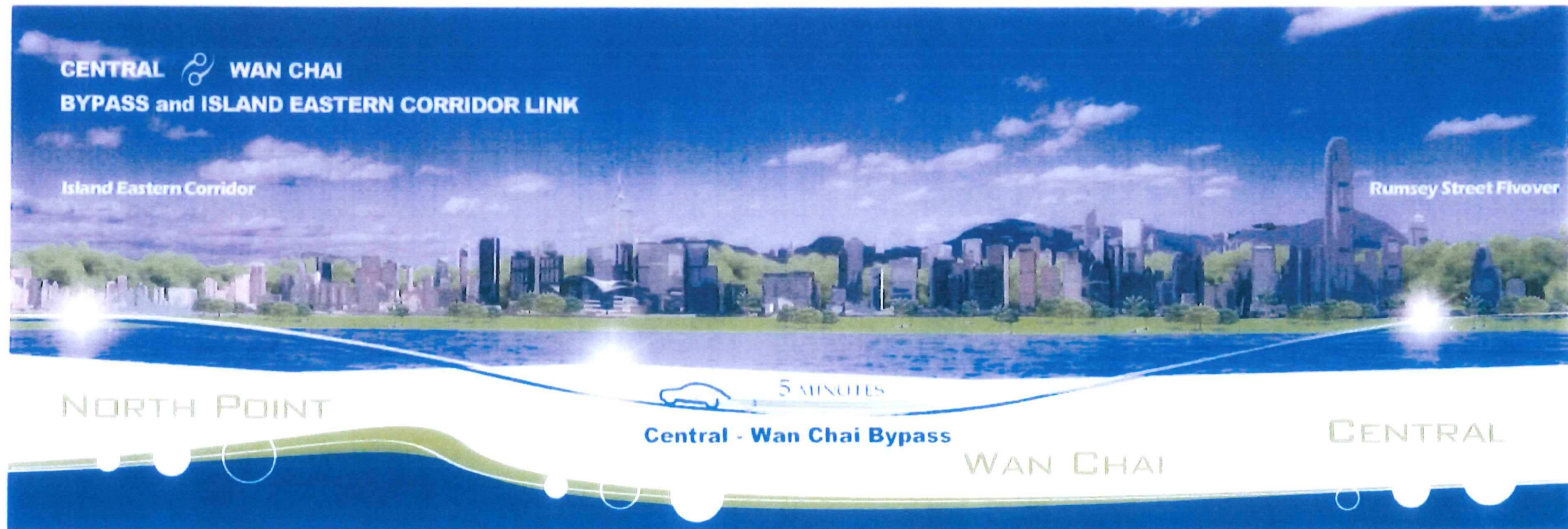
120 cm



120 cm



120 cm



720 (w) x 240 (h) cm

# Type C (Chinese Version)



120 cm



120 cm



120 cm



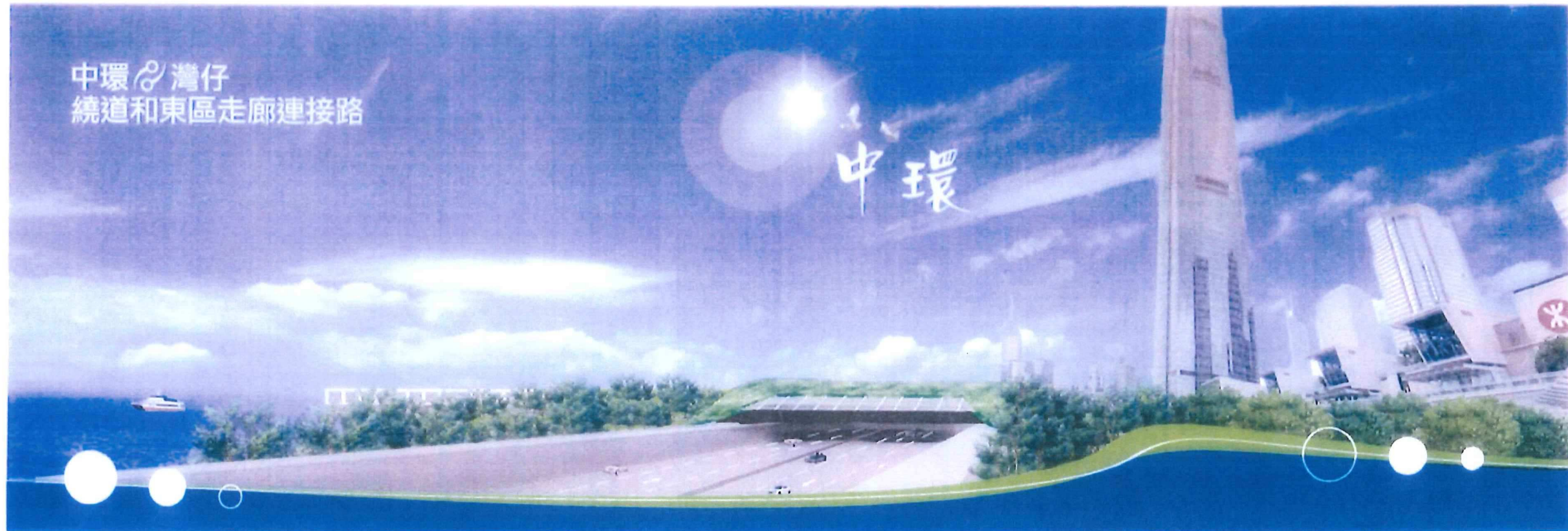
120 cm



120 cm



120 cm



720 (w) x 240 (h) cm



# Type C (English Version)

EC



120 cm



120 cm



120 cm



120 cm



120 cm



120 cm



720 (w) x 240 (h) cm