



Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

Ref : G1120/CS/L929/FEP-10/364/2009/B
Date : 13 February 2015

China State Construction Engineering (Hong Kong) Ltd
P.O. Box 35159
King's Road Post Office

Attn: Site Agent, Dr. Dave Chan

Dear Dr. Chan,

Contract No. HY/2010/08
Central – WanChai Bypass Tunnel (Slip Road 8 Section)

Additional Mitigation Plan for Slip Road 8 (Rev. 2)

Referring to the captioned submission dated 09 February 2015 received through email on 09 February 2015, we have reviewed your submitted details and hereby certified this submission in accordance with Condition 2.16 of FEP-10/364/2009/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_6253L.15

By Post and Fax (2566 2192)

China State Construction Engineering (Hong Kong) Ltd.
29/F, China Overseas Building
139 Hennessy Road
Hong Kong

Attention: Site Agent, Dr. Dave Chan

Dear Sir,

**Re: Contract No. HY/2010/08
Central – Wan Chai Bypass – Tunnel (Slip Road 8 Section)
Additional Mitigation Plan (Rev. 2)**

Reference is made to your submission of the Additional Mitigation Plan (Revision 2) dated 9 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 2.16 of FEP-10/364/2009/B.

Thank you for your kind attention.

Yours sincerely,



David Yeung
Independent Environmental Checker

| | | | |
|------|-------|-----------------------|-------------------|
| c.c. | HyD | Mr. Bond Chow | by fax: 2714 5289 |
| | CEDD | Mr. Jason Cheung | by fax: 2577 5040 |
| | AECOM | Mr. Kelvin Cheng | by fax: 2691 2649 |
| | LAM | Mr. Raymond Dai (ETL) | by fax: 2882 3331 |

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中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

**Central – Wan Chai Bypass Tunnel
(Slip Road Section 8)
Contract No. HY/2010/08**

Additional Mitigation Plan for Slip Road 8 under condition 2.16 of FEP- 10/364/2009/B

Revision: 2

February 2015

| | | |
|---------------------------------------|-----------|-----------------------|
| Prepared by: Environmental Officer | C. M Wong | Date: 9 February 2015 |
|---------------------------------------|-----------|-----------------------|

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1.0 Introduction

In accordance with condition 2.16 of the Further Environmental Permit No. FEP-10/364/2009/B, the purpose of this additional mitigation plan is to set out the noise and visual mitigation measures of Slip Road 8 Section in Victoria Park, i.e. noise screening structure with aesthetic design of the Central – Wan Chai Bypass Tunnel (Slip Road 8 Section) Project (hereafter SR8).

Landscape issue will discuss in a separate landscape plan condition 2.14 of FEP-10/364/2009/B.

Noise screening structure with aesthetic design forms part of works for Central – Wan Chai Bypass as recommended in the approved EIA report (Registration No.: AEIAR-12512008). As the permit holder of the Further Environmental Permit No. FEP-10/364/2009/B, China State Construction Engineering (Hong Kong) Limited (hereafter CSHK) would be responsible for construction of the screening structure.

2.0 Scope of Works of SR8

In accordance with the conditions stipulated in the Environmental Permit No. EP-364/2009/B and Further Environmental Permit No. FEP-10/356/2009/B, this plan aims to reduce the noise & visual impacts of the Slip Road 8 on users of the Victoria Park during the operation phase.

The scope of works mainly includes:

- i) Construction of about 100m long Slip Road 8 tunnel structure in CBTS by cut-and cover method;
- ii) Construction of about 200m slip road 8 tunnel underneath Victoria Park Road and within Victoria Park by cut-and- cover method;
- iii) Construction of about 310m at grade carriageway connecting to Tsing Fung Street;
&
- iv) A Landscape area in accordance with Figure 4.5 of the approved EIA report.

Location of noise screening structure with aesthetic design, please refer to **Appendix A**.

3.0 List of Reference Document

Relevant conditions in the EP and FEP are listed as follows for ease of references.

| EP and FEP Condition | Remarks |
|--|--|
| EP No. EP-364-2009, Condition 2.16 and FEP-10/364/2009/B, Condition 2.16 | <ul style="list-style-type: none">- Referring to the Condition 2.16 stipulated in Environmental Permit No. EP-364/2009 and FEP-10/364/2009/B, submission of additional mitigation plan at least one month prior commencement of the works.- 4 hard copies & 1 electronic copy of additional mitigation plan shall be certified by ET Leader and verified by the IEC as conforming to the relevant information and recommendation contained in the approved EIA Report (Register No.: AEIAR-125/2008). |

4.0 Key Factors Considered during Construction of Noise Screening Structure with Aesthetic Design

The following factors have been taken into account during the preparation for this additional mitigation plan

4.1 The proposed aesthetic design would be applied on the side facing Victoria Park. The rationale is that the noise screening wall should be structure with compatible form, color and pattern to create a harmonious visual relationship with Victoria Park. Different forms and aesthetic design were considered at the design stage. By weighing different factors including cost, visual impact, ease of construction and maintenance, the current design of the noise screening structure adopting a pattern with a variety of trees with different trunk widths and natural colors was found to be the most suitable (Please refers to **Appendix C**). The construction of noise screening structure with aesthetic design will be carried out inside SR8. Details of planting plan, please refers to **Appendix B**.

4.2 Re-provisional works of the existing bowling green field prior to construction of noise screening structure.

- 4.3 Diversion of traffic on Tsing Fung Street, Victoria Park Road & Island East Corridor (IEC) to facilitate the construction works.
- 4.4 Plants established for the noise screening structure & landscape area. Please refer to **Appendix C** for more details.
- 4.5 The purpose of the screen wall is to further reduce the traffic noise impact of Slip Road 8. The screen wall is an additional measure to the noise mitigation measures stated in the EIA report and therefore the overall performance on noise mitigation will be better than the recommendations in the EIA.

5.0 Details of Proposed Noise Screening Structure

5.1 Taking into account of the key factors mentioned in Section 4 above & in accordance with the Table 10.4 (Significant Landscape Impacts of the Proposed Works during Construction Phase) of the approved EIA report, the construction works of noise screening structure is designed and its details are elaborated below

- (a) Approx. 1,900m² of Victoria Park will be permanently alienated by the Slip Road 8,
- (b) One bowling green court will be permanently alienated by the Slip Road 8,
- (c) Existing trees will be affected by the roadworks and
- (d) Existing trees will be affected by the reprovisioning of the affected facilities in the Victoria Park including the reprovisioning of a bowling green, and
- (e) Existing trees will be affected by the Landscape Deck across Victoria Park Road

5.2 Maintenance of planting & shrubs –

- (a) To carry out the establishment period as stipulated in the Particular Specification,
- (b) Liaise with the Engineer on site to tackle the earth works issue(s),
- (c) Drawings shown indicative layout, final decision will subject to the site condition & Engineer's decision.

5.3 Change in alignment of structure & construction details, if any, would be subject to the instruction & drawings of Highways Department.

6.0 Construction Schedule

The anticipated schedule of the noise screening structure is shown in **Appendix A**. It is prepared based on the latest Works Programme and may subject to changes to cope with the actual site situation and progress. Noise screening structure with aesthetic design would be the permanent structure along the carriageway.

Construction of noise screening structure on site subject to the works carried out. Works programme refers to **Appendix A** for details.

7.0 Tree & shrub planting amongst the Noise Screening Structure

The overall tree planting & shrub planting of noise screening structure with aesthetic design is summarized and enclosed in **Appendix B**.

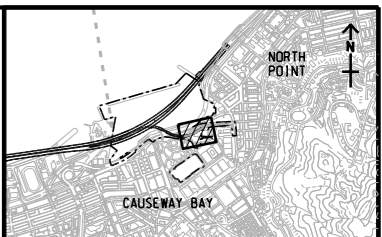
8.0 Noise screening structure with aesthetic design

The detail section of noise screening structure with aesthetic design, please refer to **Appendix C** for details.

Appendix A

Location of Noise Screening Structure with Aesthetic Design & its Associated Programme

START DATE : APR 2015
FINISH DATE : APR 2016



KEY LOCATION PLAN
SCALE A1 1 : 2000

- NOTES:**
- ALL LEVELS ARE IN METRES AND REFER TO PRINCIPAL DATUM.
 - ALL CO-ORDINATES ARE IN ACCORDANCE WITH HK(1980) GAUSS CO-ORDINATE SYSTEM.
 - DETAILS INCLUDING DIMENSIONS, LEVELS, DESCRIPTIONS, LOCATIONS, ETC. GIVEN FOR EXISTING ROADS, FOOTPATHS, BRIDGE STRUCTURE ARE INDICATIVE ONLY. THE CONTRACTOR SHALL VERIFY THE ACTUAL EXISTING DETAILS ON SITE.

- LEGEND:**
- SITE BOUNDARY
 - U-SHAPE STRUCTURE
 - SCREEN WALL
 - LANDSCAPE AREA
 - ROAD LEVEL (APPROXIMATE)
 - TRAFFIC LANE ON AT GRADE ROAD
 - AMENITY AREA
 - M.J. MOVEMENT JOINT
 - R.J. ROTATION JOINT
 - CHAINAGE ALONG MAIN SETTING OUT LINE
 - SR08 LINE NUMBER

- REMARK:**
- DETAIL '1' & '2' REFERS TO APPENDIX C.

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|------|----------------|------|-----------|
| I | MINOR REVISED | WCM | 29/JUN/14 |
| H | MINOR REVISED | WCM | 27/JUN/14 |
| G | MINOR REVISED | WCM | 24/JUN/14 |
| F | MINOR REVISED | WCM | 06/JUN/14 |
| E | MINOR REVISED | WCM | 28/MAY/14 |
| D | MINOR REVISED | WCM | 14/FEB/14 |
| C | REVISED LAYOUT | WCM | 27/JAN/14 |
| B | REVISED LAYOUT | WCM | 04/JAN/14 |
| A | REVISED LAYOUT | WCM | 18/DEC/13 |
| - | FIRST ISSUED | WCM | 12/DEC/13 |
| REV. | DESCRIPTION | CHK. | DATE |

路政署
Highways Department
主要工程管理处
Major Works Project Management Office

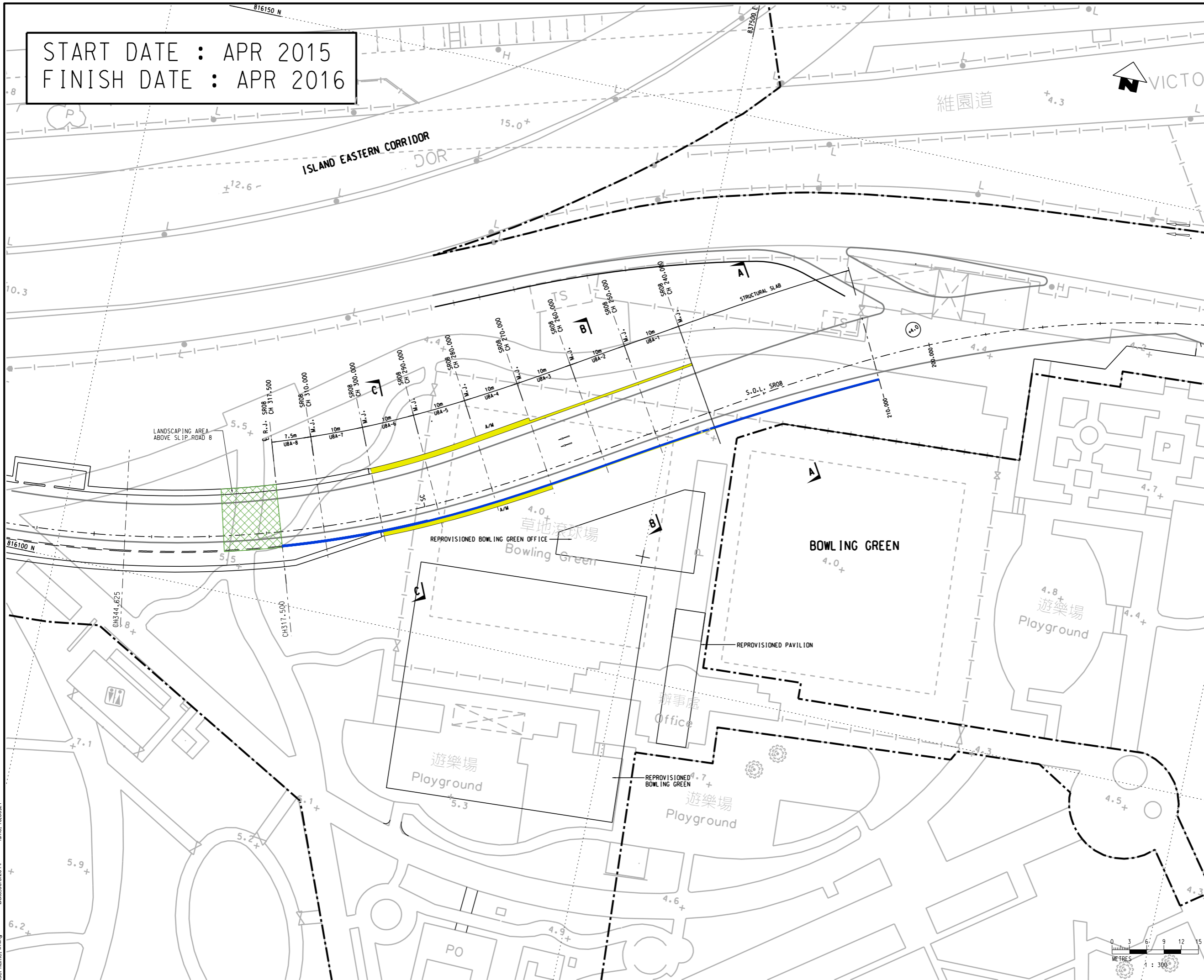


CENTRAL-WAN CHAI BYPASS-TUNNEL
(SLIP ROAD 8 SECTION)

TITLE:
U-SHAPE STRUCTURE
GENERAL ARRANGEMENT

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

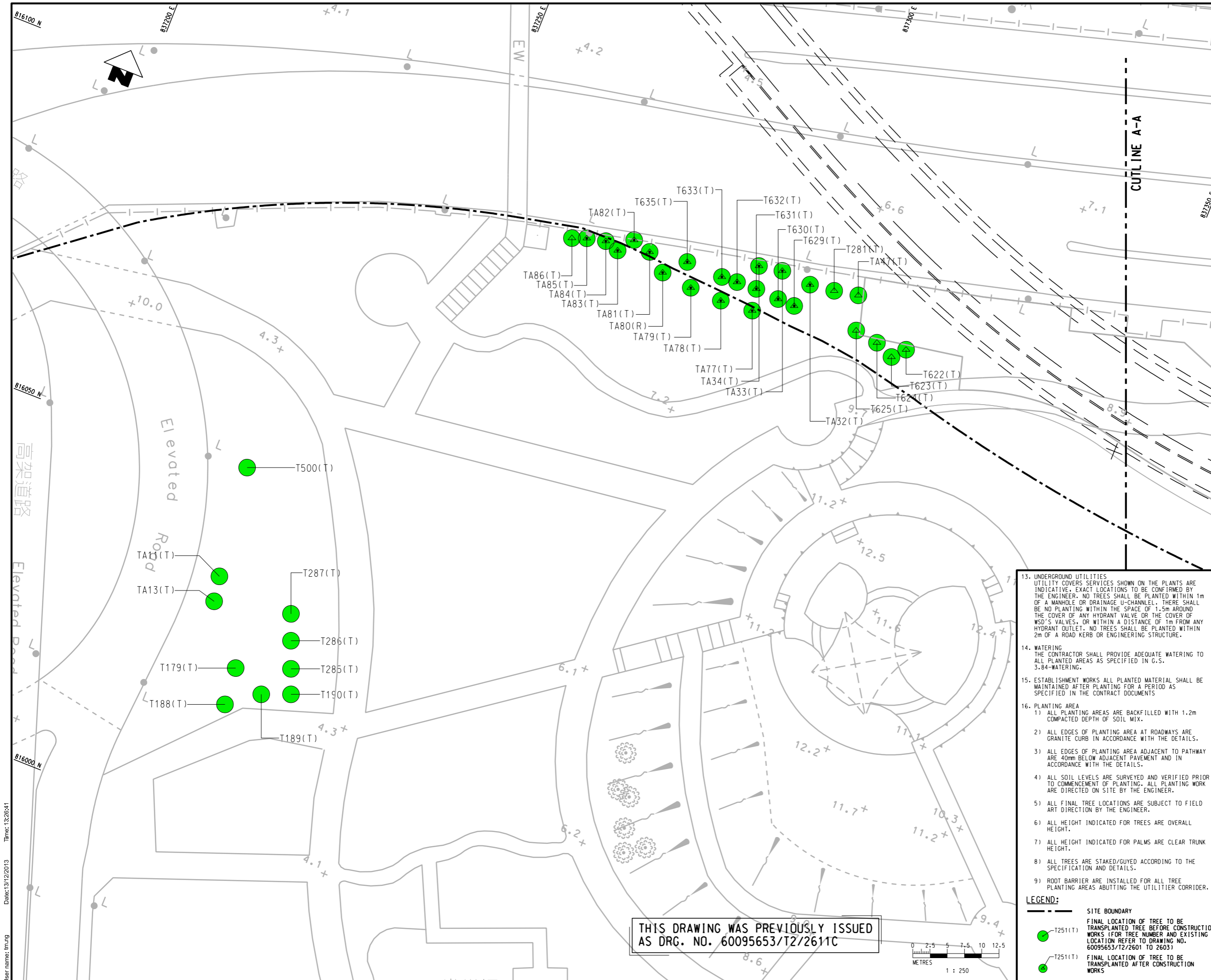
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| SCALE 比例 | 1 : 300 | STATUS 階段 | - |
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Appendix B

Tree Planting Plan & Shrub Planting Plan



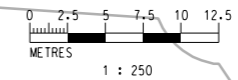
- NOTES:**
1. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH DRAWING NOS. 60095653/T2/2612 TO 2614.
 2. TREES THAT ARE NOT AFFECTED BY THE PROJECT IS NOT SHOWN FOR CLARITY.
 3. THE FINAL LOCATION OF THE TREES TO BE TRANSPLANTED UNDER THE ENGINEER'S INSTRUCTION WILL BE TRANSPLANTED OUTSIDE VICTORIA PARK. THE EXACT LOCATION TO BE ADVISED BY THE ENGINEER.

- GENERAL NOTES FOR LANDSCAPE WORKS:**
1. 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 SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
 2. DRAWING DIMENSIONS
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
 3. EXISTING TREES/VEGETATION
THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN G.S. SECTION 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING/RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.
 4. TREE FELLING
NO TREES SHALL BE FELLED OR REMOVED WITHOUT THE DLO APPROVAL.
 5. GROUND PREPARATION WORKS
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS EXCEPT SLOPE AREA TO BE PLANTED AS SPECIFIED.
 6. 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.
 7. MULCHING
TREE PLANTING AND SHRUB ARE AS 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-MULCH.
 8. PLANT NAME
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
 9. 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.
 10. 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 SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
 11. 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.
 12. DRAINAGE
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHOULD REFER TO ENGINEER DRAWING.

13. UNDERGROUND UTILITIES
UTILITY COVERS SERVICES SHOWN ON THE PLANTS 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.
14. WATERING
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3.84-WATERING.
15. ESTABLISHMENT WORKS
ALL PLANTED MATERIAL SHALL BE MAINTAINED AFTER PLANTING FOR A PERIOD AS SPECIFIED IN THE CONTRACT DOCUMENTS
16. PLANTING AREA
1) ALL PLANTING AREAS ARE BACKFILLED WITH 1.2m COMPACTED DEPTH OF SOIL MIX.
2) ALL EDGES OF PLANTING AREA AT ROADWAYS ARE GRANITE CURB IN ACCORDANCE WITH THE DETAILS.
3) ALL EDGES OF PLANTING AREA ADJACENT TO PATHWAY ARE 40mm BELOW ADJACENT PAVEMENT AND IN ACCORDANCE WITH THE DETAILS.
4) ALL SOIL LEVELS ARE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING. ALL PLANTING WORK ARE DIRECTED ON SITE BY THE ENGINEER.
5) ALL FINAL TREE LOCATIONS ARE SUBJECT TO FIELD ART DIRECTION BY THE ENGINEER.
6) ALL HEIGHT INDICATED FOR TREES ARE OVERALL HEIGHT.
7) ALL HEIGHT INDICATED FOR PALMS ARE CLEAR TRUNK HEIGHT.
8) ALL TREES ARE STAKED/GUYED ACCORDING TO THE SPECIFICATION AND DETAILS.
9) ROOT BARRIER ARE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIER CORRIDOR.

- LEGEND:**
- T251(T) FINAL LOCATION OF TREE TO BE TRANSPLANTED BEFORE CONSTRUCTION WORKS (FOR TREE NUMBER AND EXISTING LOCATION REFER TO DRAWING NO. 60095653/T2/2601 TO 2603)
 - T251(T) FINAL LOCATION OF TREE TO BE TRANSPLANTED AFTER CONSTRUCTION WORKS

THIS DRAWING WAS PREVIOUSLY ISSUED AS DRG. NO. 60095653/T2/2611C



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路政署
Highways Department
主要工程管理处
Major Works Project Management Office



CENTRAL-WAN CHAI BYPASS-TUNNEL
(SLIP ROAD 8 SECTION)

TITLE:
TREE PLANTING PLAN
(ADDITIONAL MITIGATION PLAN)
SHEET 1 OF 3

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

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LEGEND:

- SITE BOUNDARY
- U-SHAPE STRUCTURE
- SCREEN WALL
- LANDSCAPE AREA
- T251(T) FINAL LOCATION OF TREE TO BE TRANSPLANTED TREE BEFORE CONSTRUCTION WORKS (FOR TREE NUMBER AND EXISTING LOCATION REFER TO DRAWING NO. 60095653/T2/2601 TO 2603)
- T251(T) FINAL LOCATION OF TREE TO BE TRANSPLANTED AFTER CONSTRUCTION WORKS

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| D | REVISED STRUCTURE | WCM | 27/JUN/14 |
| C | REVISED STRUCTURE | WCM | 27/JAN/14 |
| B | ADDED LANDSCAPE DECK | WCM | 04/JAN/14 |
| A | REVISED HATCH AREA | WCM | 18/DEC/13 |
| - | FIRST ISSUED | WCM | 12/DEC/13 |
| REV. | DESCRIPTION | CHK. | DATE |

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Highways Department
主要工程管理處
Major Works Project Management Office



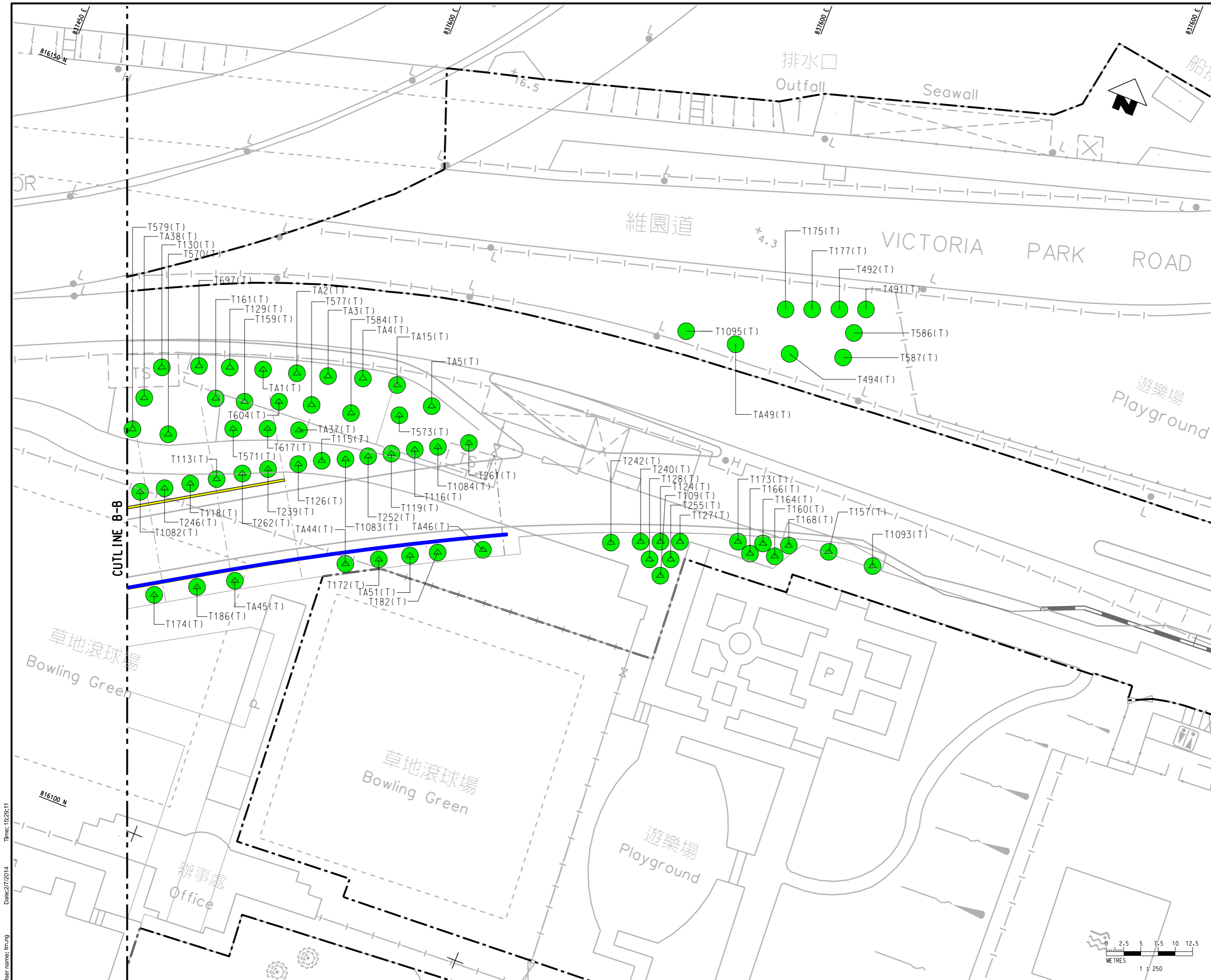
CENTRAL-WAN CHAI BYPASS-TUNNEL
(SLIP ROAD 8 SECTION)

TITLE:
TREE PLANTING PLAN
(ADDITIONAL MITIGATION PLAN)
SHEET 2 OF 3

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

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|--------------------------|-------------|-----------------------|-----------|
| DRG. NO. 圖紙編號 | CDD VP 0240 | REV. 修訂 | E |
| CONTRACT NO. 合約編號 | HY/2010/08 | DATE OF ISSUE 發出日期 | 12/DEC/13 |
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- LEGEND:**
- SITE BOUNDARY
 - U-SHAPE STRUCTURE
 - SCREEN WALL
 - T251(T) FINAL LOCATION OF TREE TO BE TRANSPLANTED TREE BEFORE CONSTRUCTION WORKS (FOR TREE NUMBER AND EXISTING LOCATION REFER TO DRAWING NO. 60095653/T2/2601 TO 2603)
 - T251(T) FINAL LOCATION OF TREE TO BE TRANSPLANTED AFTER CONSTRUCTION WORKS

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| C | REVISED STRUCTURE | WCM | 27/JAN/14 |
| B | REVISED HATCH COLOR | WCM | 04/JAN/14 |
| A | REVISED HATCH AREA | WCM | 18/DEC/13 |
| - | FIRST ISSUED | WCM | 12/DEC/13 |
| REV. | DESCRIPTION | CHK. | DATE |

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Highways Department
主要工程管理處
Major Works Project Management Office

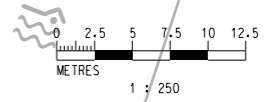


CENTRAL-WAN CHAI BYPASS-TUNNEL
(SLIP ROAD 8 SECTION)

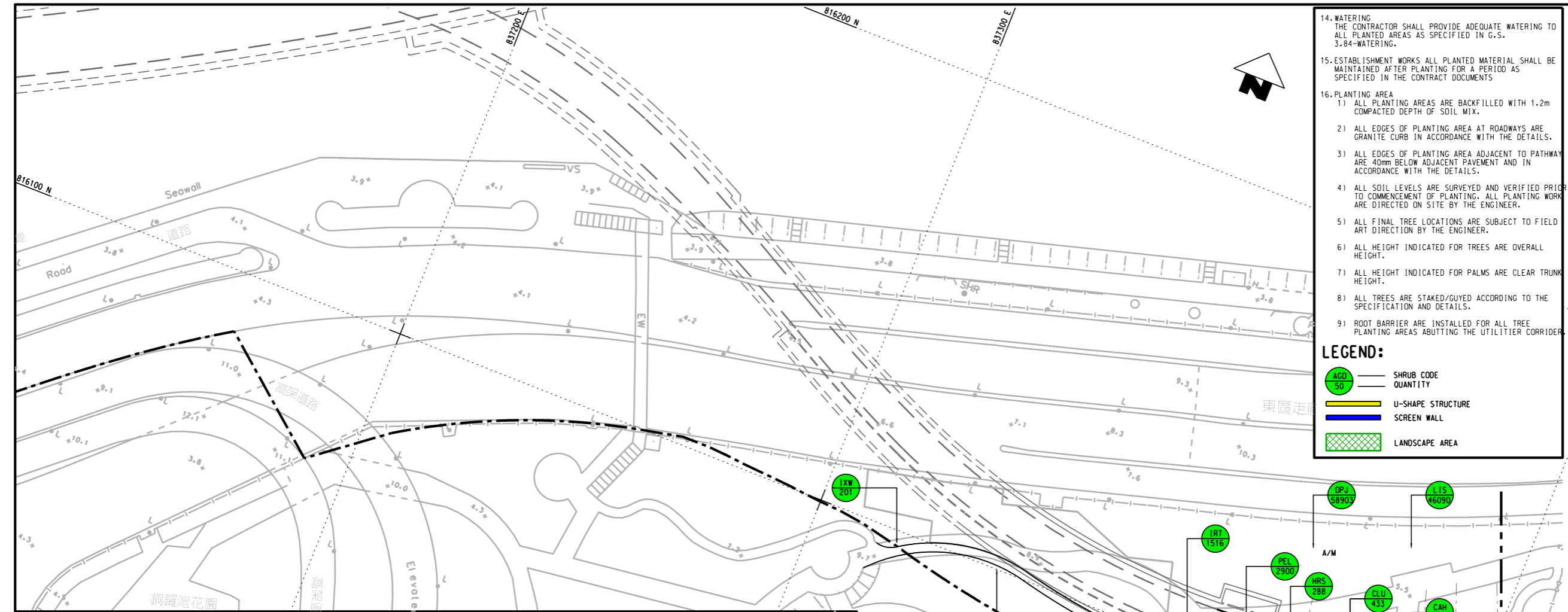
TITLE:
TREE PLANTING PLAN
(ADDITIONAL MITIGATION PLAN)
SHEET 3 OF 3

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

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| DRG. NO. 圖紙編號 | CDD VP 0241 | REV. 修訂 | E |
| CONTRACT NO. 合約編號 | HY/2010/08 | DATE OF ISSUE 發出日期 | 12/DEC/13 |
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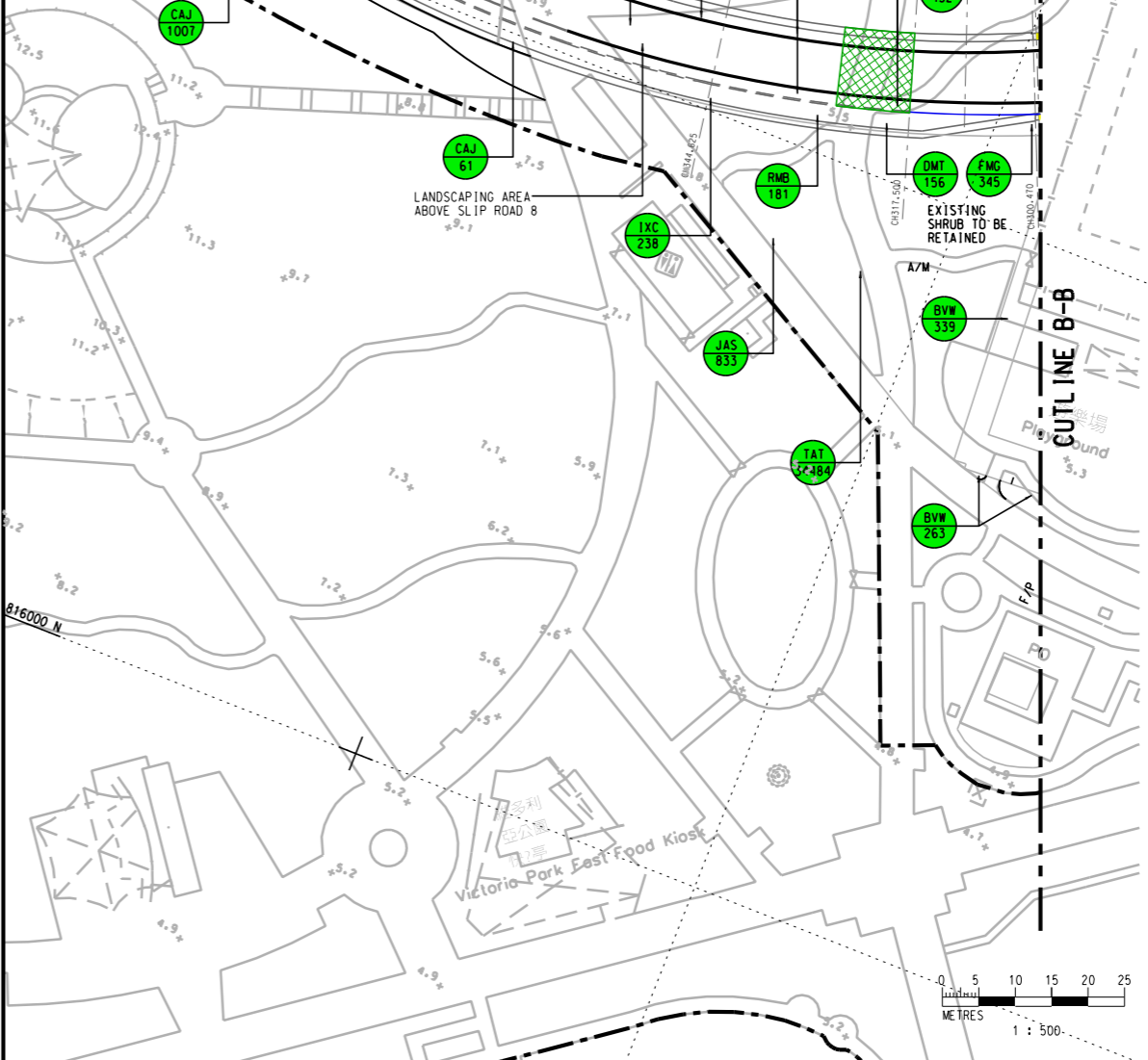
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14. WATERING
THE CONTRACTOR SHALL PROVIDE ADEQUATE WATERING TO ALL PLANTED AREAS AS SPECIFIED IN G.S. 3-84-WATERING.
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 - 9) ROOT BARRIER ARE INSTALLED FOR ALL TREE PLANTING AREAS ABUTTING THE UTILITIES CORRIDOR.
- LEGEND:**
- AGO 50 — SHRUB CODE QUANTITY
 - U-SHAPE STRUCTURE
 - SCREEN WALL
 - LANDSCAPE AREA

- GENERAL NOTES FOR LANDSCAPE WORKS:**
1. 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 SUPERVISING OFFICER IMMEDIATELY FOR ANY DISCREPANCY BETWEEN THE ENGINEERING AND LANDSCAPE DRAWINGS.
 2. DRAWING DIMENSIONS
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
 3. EXISTING TREES/VEGETATION
THE CONTRACTOR SHALL PROTECT ALL TREES TO BE RETAINED ON SITE AS STIPULATED IN G.S. SECTION 26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REINSTATING EXISTING/RETAINED VEGETATION AFFECTED BY THE CONSTRUCTION WORKS.
 4. TREE FELLING
NO TREES SHALL BE FELLED OR REMOVED WITHOUT THE DLO APPROVAL.
 5. GROUND PREPARATION WORKS
GROUND PREPARATION WORKS SHALL BE CARRIED OUT TO ALL AREAS (EXCEPT SLOPE AREA) TO BE PLANTED AS SPECIFIED.
 6. 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.
 7. MULCHING
TREE PLANTING AND SHRUB ARE AS 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-MULCH.
 8. PLANT NAME
BOTANICAL NAME SHALL TAKE PRECEDENCE TO ENGLISH AND CHINESE NAME.
 9. 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.
 10. 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. SOIL LEVELS SHALL BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF PLANTING.
 11. 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.
 12. DRAINAGE
ALL PLANTER DRAINAGE DETAILS AND WEEPHOLES DETAILS SHOULD REFER TO ENGINEER DRAWING.
 13. UNDERGROUND UTILITIES
UTILITY COVERS SERVICES SHOWN ON THE PLANTS 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.

| CODE | BOTANICAL NAME | CHINESE NAME | SPECIFICATION(mm) HEIGHT(H)xSPREAD(S) | SPACING (mm) | NO./M2 | QUANTITY | COMMENT |
|------------------------------|---|--------------|---------------------------------------|--------------|--------|----------|--|
| SHRUB PLANTING | | | | | | | |
| DRV | DURANTA REPENS 'VARIEGATA' | 花葉連翹 | 500(H)x500(S) | 400 | 7.25 | 386 | PLANT ALL SPECIES IN A STAGGERED PATTERN |
| RMB | RHOODODENDRON MUCRONATUM (BLUME) G. DON | 白/宮粉杜鵑 | 500(H)x500(S) | 400 | 7.25 | 181 | |
| CAH | CALLIANDRA HAEMATOCEPHALA | 紅絨球 | 500(H)x500(S) | 400 | 7.25 | 2008 | |
| CAJ | CAMELLIA JAPONICA | 山茶 | 500(H)x500(S) | 400 | 7.25 | 1468 | |
| COV | CODIAEUM VARIEGATUM | 洒金榕 | 400(H)x400(S) | 300 | 12.54 | 237 | |
| DRG | DURANTA REPENS 'GOLDEN' | 金連翹 | 400(H)x400(S) | 300 | 12.54 | 850 | |
| CLU | CLERODENDRUM UGANDENSE | 藍蝴蝶 | 500(H)x500(S) | 400 | 7.25 | 2470 | |
| FMG | FICUS MICROCARPA 'GOLDEN LEAF' | 黃榕 | 500(H)x500(S) | 400 | 7.25 | 789 | |
| HRS | HIBISCUS ROSA-SINENSIS 'COOPERI' | 花葉大紅花 | 500(H)x500(S) | 400 | 7.25 | 288 | |
| IRT | IRIS TECTORUM | 鳶尾 | 400(H)x400(S) | 300 | 12.54 | 1516 | |
| IXC | IXORA CHINENSIS | 大葉龍船花 | 500(H)x500(S) | 400 | 7.25 | 238 | |
| IXW | IXORA WILLIAMIRI 'SUNKIST' | 矮龍船 | 300(H)x300(S) | 300 | 12.54 | 293 | |
| JAS | JASMINUM SAMBAC | 茉莉 | 500(H)x500(S) | 400 | 7.25 | 833 | |
| AGD | AGLAIA ODORATA | 米仔蘭 | 500(H)x500(S) | 400 | 7.25 | 977 | |
| OSF | OSMANTHUS FRAGRANS | 桂花 | 500(H)x500(S) | 400 | 7.25 | 390 | |
| PEL | PENTAS LANCEOLATA | 五星花 | 300(H)x300(S) | 300 | 12.54 | 2900 | |
| DMT | DRACAENA MARGINATA 'TRICOLOR' | 五彩馬尾鐵 | 500(H)x500(S) | 400 | 7.25 | 320 | |
| RFT | RHOODODENDRON FARRERAE TATE | 宮粉杜鵑 | 500(H)x500(S) | 400 | 7.25 | 1016 | |
| GROUND COVER PLANTING | | | | | | | |
| TAT | TRACHELOSPERMUM ASIATICUM 'TRICOLOR' | 花葉絡石 | 100(H)x200(S) | 150 | 44.44 | 83129 | |
| LIS | LIRIOPE SPICATA | 麥門冬 (蒲草) | 100(H)x200(S) | 150 | 44.44 | 67441 | |
| OPJ | OPHIOPOGON JAPONICUS | 沿階草 | 100(H)x200(S) | 150 | 44.44 | 62300 | |
| BAMBOO PLANTING | | | | | | | |
| BVW | BAMBUSA VULGARIS CV WAMIN | 大佛肚竹 | 1500(H)x5 SHOOTS | 500 | 4 | 602 | |



| | | | |
|---|----------------------|-----|-----------|
| E | REVISED STRUCTURE | WCM | 02/JUL/14 |
| D | REVISED STRUCTURE | WCM | 27/JUN/14 |
| C | REVISED STRUCTURE | WCM | 27/JAN/14 |
| B | ADDED LANDSCAPE DECK | WCM | 04/JAN/14 |
| A | REVISED HATCH LEGEND | WCM | 18/DEC/13 |
| - | FIRST ISSUED | WCM | 12/DEC/13 |

REV. DESCRIPTION CHK. DATE

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Major Works Project Management Office

AECOM

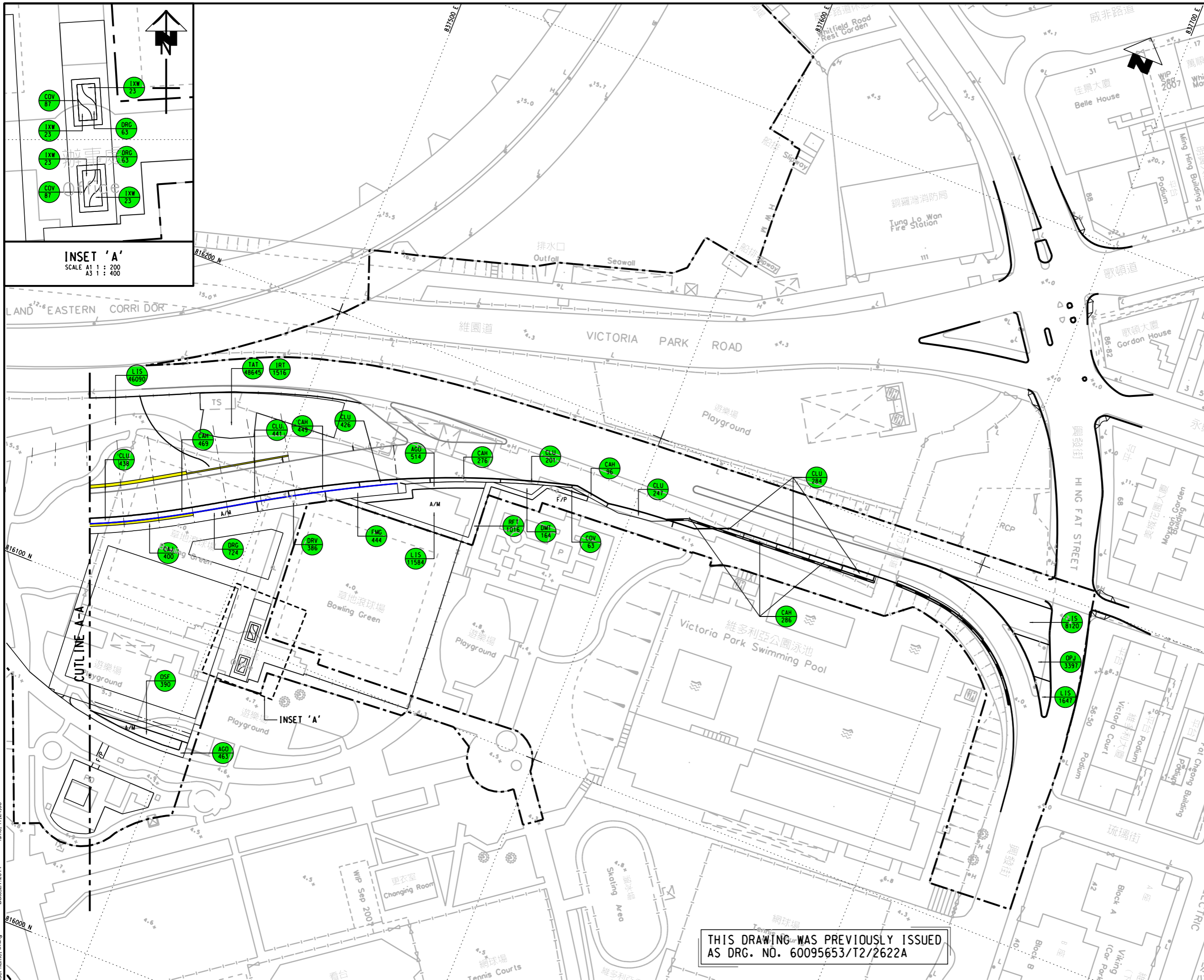
CENTRAL-WAN CHAI BYPASS-TUNNEL
(SLIP ROAD 8 SECTION)

TITLE:
SHRUB PLANTING PLAN
SHEET 1 OF 2

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

| | | | |
|--------------------------|------------|-----------------------|-----------|
| DRG. NO. 圖紙編號 | HY 2010/08 | REV. 修訂 | E |
| CONTRACT NO. 合約編號 | HY/2010/08 | DATE OF ISSUE 發出日期 | 12/DEC/13 |
| CHECK BY 覆核 | WCM | DRAW BY 繪圖 | NTM |
| SCALE 比例 | 1 : 500 | STATUS 階段 | WORKING |
| DIMENSION ARE IN 單位尺寸 | M | PAPER SIZE 圖紙尺寸 | A1 |

User name: tm.ng Date: 27/12/2014 Time: 17:28:03



LEGEND:

- SITE BOUNDARY
- U-SHAPE STRUCTURE
- SCREEN WALL

INSET 'A'
SCALE A1 1 : 200
A3 1 : 400

| | | | |
|------|---------------------|------|-----------|
| D | REVISED STRUCTURE | WCM | 02/JUL/14 |
| C | REVISED STRUCTURE | WCM | 27/JAN/14 |
| B | REVISED HATCH COLOR | WCM | 04/JAN/14 |
| A | REVISED HATCH AREA | WCM | 18/DEC/13 |
| - | FIRST ISSUED | WCM | 12/DEC/13 |
| REV. | DESCRIPTION | CHK. | DATE |

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Major Works Project Management Office



CENTRAL-WAN CHAI BYPASS-TUNNEL
(SLIP ROAD 8 SECTION)

TITLE:
SHRUB PLANTING PLAN
SHEET 2 OF 2

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

| | | | |
|--------------------------|-------------|-----------------------|-----------|
| DRG. NO. 圖紙編號 | CDD VP 0243 | REV. 修訂 | D |
| CONTRACT NO. 合約編號 | HY/2010/08 | DATE OF ISSUE 發出日期 | 12/DEC/13 |
| CHECK BY 覆核 | MN | DRAW BY 繪圖 | NTM |
| SCALE 比例 | AS SHOWN | STATUS 階段 | WORKING |
| DIMENSION ARE IN 單位尺寸 | M | PAPER SIZE 圖紙尺寸 | A1 |

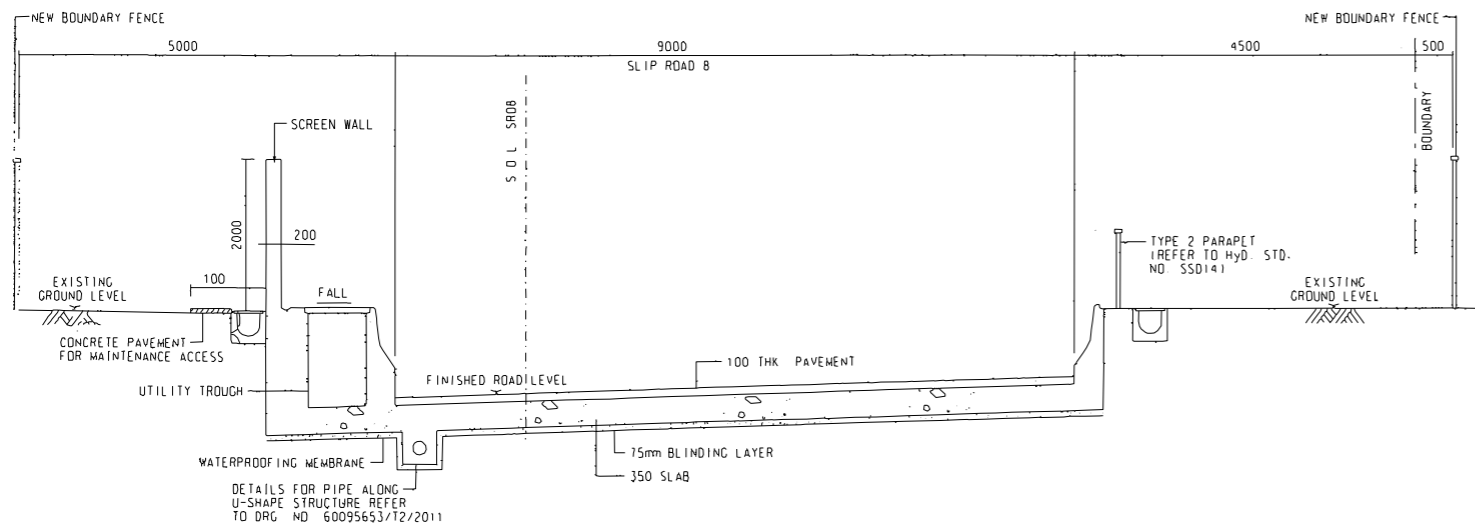
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AS DRG. NO. 60095653/T2/2622A

User name: tm.ng Date: 2/7/2014 Time: 17:24:58

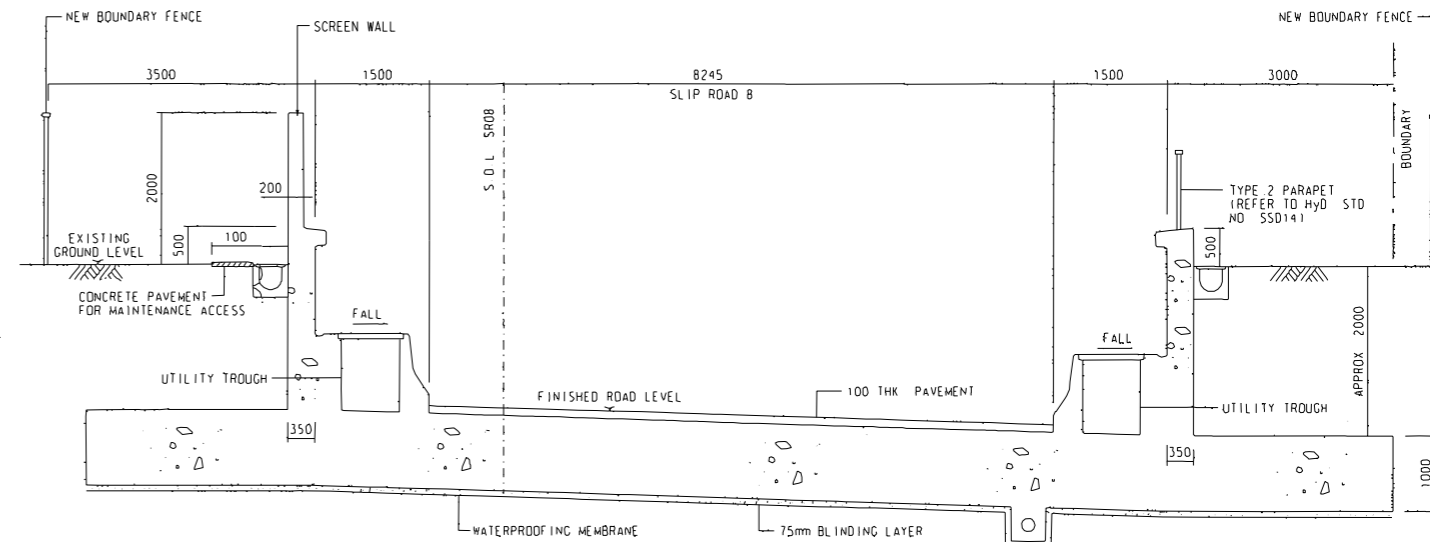
Appendix C

Detail Section of Noise Screening Structure & Wall Pattern of Noise Screening

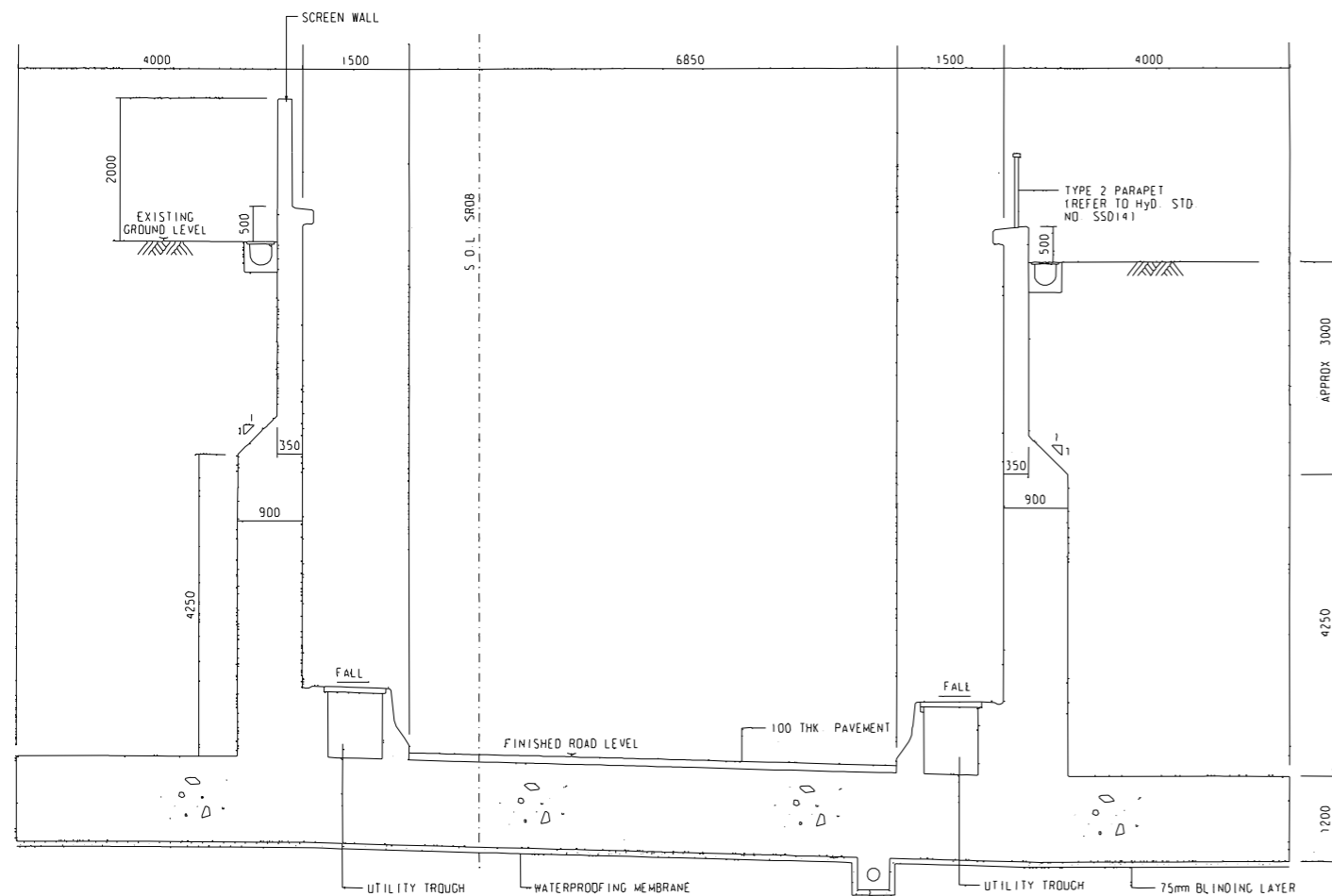
NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.



SECTION A - A
 (DRAWN AT S.O.L. SR08 CH25 DB4)
 SCALE A1 1 : 50
 A3 1 : 100



SECTION B - B
 (DRAWN AT S.O.L. SR08 CH254 675)
 SCALE A1 1 : 50
 A3 1 : 100



SECTION C - C
 (DRAWN AT S.O.L. SR08 CH313 344)
 SCALE A1 1 : 50
 A3 1 : 100

| | | | |
|------|------------------------------|------|-----------|
| A | REVISED AS PER AECOM COMMENT | WCM | 7/JUL/14 |
| - | FIRST ISSUED | WCM | 14/FEB/14 |
| REV. | DESCRIPTION | CHK. | DATE |

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CENTRAL-WAN CHAI BYPASS-TUNNEL
 (SLIP ROAD 8 SECTION)

TITLE:
 U-SHAPE STRUCTURE SECTIONS

中國建築工程(香港)有限公司
 CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

DRG. NO. 圖紙編號 CDD SR8 0389 REV. 修訂 A

CONTRACT NO. 合約編號 HY/2010/08 DATE OF ISSUE 發出日期 14/FEB/2014

CHECK BY 覆核 WCM DRAW BY 繪圖 NTM

SCALE 比例 1 : 50 STATUS 階段 -

DIMENSION ARE IN 單位尺寸 MM PAPER SIZE 圖紙尺寸 A1

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
2. DETAILS OF CONCRETE PROFILE BARRIER SHALL REFER TO HyD STANDARD DRAWING NO. H2104.



WALL PATTERN DETAIL FOR NOISE SCREENING STRUCTURE

SCALE 1 : 25 (A1)
1 : 50 (A3)

| | | | |
|------|------------------------------|------|-----------|
| B | REVISED AS PER AECOM COMMENT | WCM | 28/MAY/14 |
| A | REVISED AS PER AECOM COMMENT | WCM | 13/MAY/14 |
| - | FIRST ISSUED | WCM | 14/FEB/14 |
| REV. | DESCRIPTION | CHK. | DATE |

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CENTRAL-WAN CHAI BYPASS-TUNNEL
(SLIP ROAD 8 SECTION)

TITLE:
U-SHAPE STRUCTURE
MISCELLANEOUS DETAILS

中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LTD.

| | | | |
|--------------------------|--------------|-----------------------|-------------|
| DRG. NO. 圖紙編號 | CDD SR8 0390 | REV. 修訂 | B |
| CONTRACT NO. 合約編號 | HY/2010/08 | DATE OF ISSUE 發出日期 | 14/FEB/2014 |
| CHECK BY 覆核 | WCM | DRAW BY 繪圖 | NTM |
| SCALE 比例 | 1 : 25 (A1) | STATUS 階段 | - |
| DIMENSION ARE IN 單位尺寸 | MM | PAPER SIZE 圖紙尺寸 | A1 |

