



Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

華益土力有限公司

Ref : G1001/CS/L288/FEP-04/356/2009
Date : 17 February 2011

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

Attn: Mr. K. Y. Leung

Dear Sir,

FEP-04/356/2009

Contract No. HY/2009/15

**Central- Wan Chi Bypass – Tunnel (Causeway Bay Typhoon Shelter Section)
Landscape Plan (Revision 0)**

Referring to your submission of the captioned plan (Revision 0 dated 17 February 2011) received through email on 17 February 2011, we have reviewed your submitted details and hereby certify this submission in accordance with Condition 2.21 of Further Environmental Permit no. FEP-04/356/2009.

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

Yours faithfully,

Raymond Dai
Environmental Team Leader

c.c. CEDD
HyD
AECOM CWB
AECOM WDII
ENVIRON

- Mr. Patrick Keung (By Fax: 2577 5040)
- Mr. Jones Lai (By Fax: 2714 5289)
- Mr. Peter Poon (By Fax: 3529 2829)
- Mr. Frankie Fan (By Fax: 2587 1877)
- Mr. David Yeung (By Fax: 3548 6988)

Ref.: AACWBIECEM00_0_0995L.11

17 February 2011

By Post and Fax (2566 2192)

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

Attention: Mr. K. Y. Leung

Dear Sir,

**Re: Contract No. HY/2009/15
Central – Wan Chai Bypass – Tunnel (Causeway Bay Typhoon Shelter
Section)
Landscape Plan (Revision 0)**

Reference is made to your submission of the Landscape Plan (Revision 0 dated 17 February 2011) to us through E-mail on 17 February 2011 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 2.21 of FEP-04/356/2009.

Thank you for your kind attention.

Yours sincerely,



David Yeung
Independent Environmental Checker

| | | | |
|------|-------------|-----------------------|-------------------|
| c.c. | HyD | Mr. Jones Lai | by fax: 2714 5289 |
| | CEDD | Mr. Patrick Keung | by fax: 2577 5040 |
| | AECOM (CWB) | Mr. Peter Poon | by fax: 3529 2829 |
| | AECOM | Mr. Kelvin Cheng | by fax: 2691 2649 |
| | LAM | Mr. Raymond Dai (ETL) | by fax: 2882 3331 |

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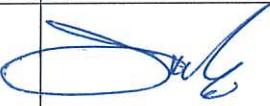
CONTRACT HY/2009/15

CENTRAL – WAN CHAI BYPASS TUNNEL (CAUSEWAY BAY TYPHOON SHELTER SECTION)

Landscape Plan

Submission Status: For Approval

| Revision | Description | Date |
|----------|----------------------------|------------------|
| 0 | 1 st Submission | 17 February 2011 |

| | | | |
|--------------|-----------------------------|--|------------|
| Prepared by: | Kelven Yip |  | 17/02/2011 |
| | Environmental Supervisor | Signature | Date |
| | | | |
| Checked by: | Anna Yu |  | 17/02/2011 |
| | Environmental Officer | Signature | Date |
| | | | |
| Approved by: | K. Y. Leung |  | 17/02/2011 |
| | Contractor's Representative | Signature | Date |

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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 contract requirement, Condition 2.24 of Environmental Permit No. EP-356/2009 and Condition 2.21 of Further Environmental Permit No. FEP-04/356/2009.

2.0 Landscape Mitigation Measures

The proposed landscape mitigation measure during construction phase for HY/2009/15, but not limited to, is listed as below:

- a. Control of night-time lighting

3.0 Identified Visual Sensitive Receivers

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

- C/R4 (Elizabeth House);
- C/R5 (Riviera Mansion);
- C/R6 (Prospect Mansion);
- C/R7 (Miami Mansion);
- C/R8 (Marco Polo Mansion);
- C/R9 (Victoria Park Mansion);
- C/R18 (Belle House);
- C32 (Excelsior Hotel);
- C36 (Citicorp Centre); and
- C37 (Victoria Centre).

The above VSRs are mapped in Appendix B.

4.0 Sources of Night-time Lighting Impacts

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

- Site investigations;
- Dredging and reclamation works;
- Construction of seawalls;

- Construction site traffic;
- Wind-solar powered pole lighting or other lighting devices at site offices;
- ¹Signal sensor light on yellow marker buoys which are laid to mark the position of the anchors extending from the working vessels; and
- ²Signal sensor light which are laid to mark the extent of the silt curtain.

5.0 Control of Night-time Lighting

The following measures, but not limited to, would be implemented where practical to minimize impact:

- a. Carefully planning of any night-time work would be adopted to minimize the use of unnatural lighting;
- b. The need of using lighting devices would be carefully assessed based on work task to minimize usage;
- c. Where lighting devices are needed to be operated, the devices would be aimed away from the visual sensitive receivers where necessary.
- d. For all floodlights mounted on the dredger (grab), the direction of light would be oriented to open sea and barge where possible.
- e. Signal sensor light would be attached on buoys and silt curtain only for the purpose of ensuring safe navigation.
- f. Wind-solar powered lighting pole or site office lighting will be oriented away from VSRs.

6.0 On Site Supervision of Night-time Lighting

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

¹ Referring to Marine Department Notice No. 157, 176, 179 & 192 of 2010

² Ditto.

7.0 Implementation Programme, Maintenance and Management Schedule

Implementation Programme

| Mitigation Measures | Location / Period |
|--------------------------------|---|
| Control of night time lighting | Entire works area and construction phase involving marine works (Tentative schedule: 3 Dec 2010 to 20 Aug 2015) |

Maintenance and Management Schedule

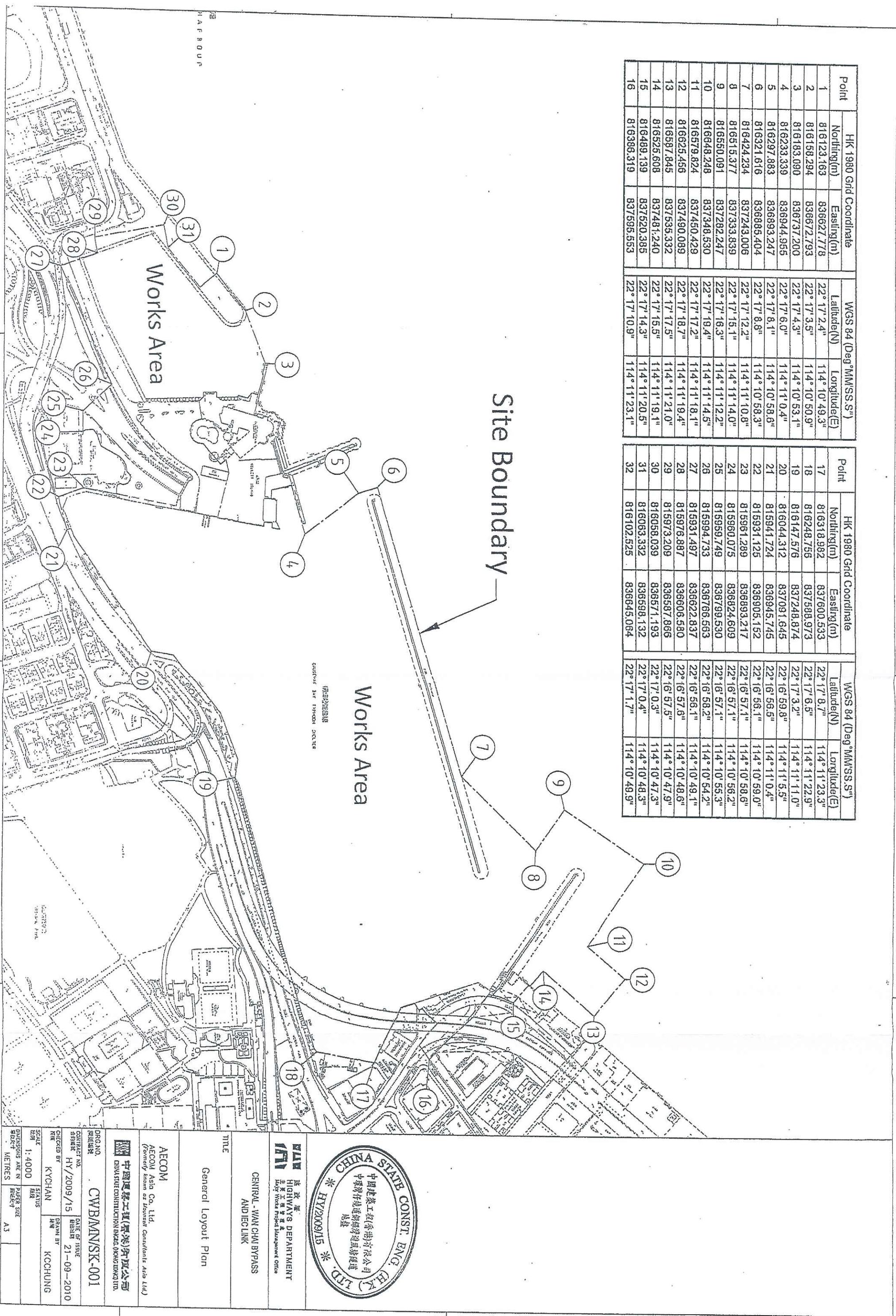
| Maintenance and Management Schedule |
|---|
| Floodlights shall be checked every night to ensure that they are controlled to divert from sensitive receivers where practical. |

Appendix A

Site Layout Plan

| Point | HK 1980 Grid Coordinate | | WGS 84 (Deg°MM'SS.S") | |
|-------|-------------------------|-------------|-----------------------|----------------|
| | Northing(m) | Eastling(m) | Latitude(N) | Longitude(E) |
| 1 | 816123.163 | 836627.778 | 22° 17' 2.4" | 114° 10' 49.3" |
| 2 | 816158.294 | 836672.793 | 22° 17' 3.5" | 114° 10' 50.9" |
| 3 | 816183.090 | 836737.200 | 22° 17' 4.3" | 114° 10' 53.1" |
| 4 | 816233.339 | 836944.955 | 22° 17' 6.0" | 114° 11' 0.4" |
| 5 | 816297.883 | 836893.247 | 22° 17' 8.1" | 114° 10' 58.6" |
| 6 | 816321.616 | 836885.404 | 22° 17' 8.8" | 114° 10' 58.3" |
| 7 | 816424.234 | 837243.006 | 22° 17' 12.2" | 114° 11' 10.8" |
| 8 | 816515.377 | 837333.839 | 22° 17' 15.1" | 114° 11' 14.0" |
| 9 | 816550.091 | 837282.247 | 22° 17' 16.3" | 114° 11' 12.2" |
| 10 | 816648.248 | 837348.530 | 22° 17' 19.4" | 114° 11' 14.5" |
| 11 | 816579.824 | 837450.429 | 22° 17' 17.2" | 114° 11' 18.1" |
| 12 | 816625.466 | 837480.089 | 22° 17' 18.7" | 114° 11' 19.4" |
| 13 | 816587.845 | 837535.332 | 22° 17' 17.5" | 114° 11' 21.0" |
| 14 | 816555.608 | 837481.240 | 22° 17' 15.5" | 114° 11' 19.1" |
| 15 | 816489.139 | 837520.385 | 22° 17' 14.3" | 114° 11' 20.5" |
| 16 | 816386.319 | 837595.553 | 22° 17' 10.9" | 114° 11' 23.1" |
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| 31 | | | | |

| Point | HK 1980 Grid Coordinate | | WGS 84 (Deg°MM'SS.S") | |
|-------|-------------------------|-------------|-----------------------|----------------|
| | Northing(m) | Eastling(m) | Latitude(N) | Longitude(E) |
| 17 | 816318.982 | 837600.533 | 22° 17' 8.7" | 114° 11' 23.3" |
| 18 | 816248.756 | 837558.973 | 22° 17' 6.5" | 114° 11' 22.9" |
| 19 | 816147.576 | 837248.874 | 22° 17' 3.2" | 114° 11' 11.0" |
| 20 | 816044.312 | 837091.645 | 22° 16' 59.8" | 114° 11' 5.5" |
| 21 | 815941.724 | 836945.745 | 22° 16' 56.5" | 114° 11' 0.4" |
| 22 | 815931.125 | 836905.152 | 22° 16' 56.1" | 114° 10' 59.0" |
| 23 | 815961.289 | 836893.217 | 22° 16' 57.1" | 114° 10' 58.6" |
| 24 | 815962.507 | 836824.609 | 22° 16' 57.1" | 114° 10' 56.2" |
| 25 | 815959.749 | 836579.530 | 22° 16' 57.1" | 114° 10' 55.3" |
| 26 | 815994.733 | 836766.563 | 22° 16' 58.2" | 114° 10' 54.2" |
| 27 | 815931.497 | 836622.837 | 22° 16' 58.1" | 114° 10' 49.1" |
| 28 | 815976.887 | 836605.580 | 22° 16' 57.6" | 114° 10' 48.6" |
| 29 | 815973.209 | 836587.866 | 22° 16' 57.5" | 114° 10' 47.9" |
| 30 | 816058.039 | 836571.193 | 22° 17' 0.3" | 114° 10' 47.3" |
| 31 | 816063.332 | 836598.132 | 22° 17' 0.4" | 114° 10' 48.3" |
| 32 | 816102.525 | 836645.064 | 22° 17' 1.7" | 114° 10' 49.9" |



Appendix B

Location Plan of Visual Sensitive Receivers

