

Your Ref :
Our Ref : (CV/2012/09)/M45/100/D00001

By Hand

7 August 2013

Director
Environmental Impact Assessment Ordinance Register Office
Environmental Protection Department
27/F, Southorn Centre,
130 Hennessy Road,
Wanchai, Hong Kong

Dear Sirs,

Contract No. CV/2012/09
Liantang / Heung Yuen Wai Boundary Control Point -
Site Formation and Infrastructure Works - Contract 3

Submission of Project Layout Plan for Contract 3 of the Project (EP No. EP- 404/2011)

With reference to Section 2.7 of Environmental Permit (EP) No. EP- 404/2011 for the captioned Project, and on behalf of the Permit Holder, Civil Engineering and Development Department (CEDD), I would like to submit 3 hard copies of the Project Layout Plan and respective works programme with explanatory notes for Contract 3 of the Project titled "Liantang / Heung Yuen Wai Boundary Control Point and Associated Works", which had been certified by the ET Leader and verified by the IEC, for your approval.

Should you have any queries, please contact the undersigned at 2674 2273.

Yours faithfully,
For and on behalf of
AECOM Asia Co. Ltd.



Kelvin Lee
Engineer's Representative

Encl.

c.c. CEDD/BCP	- Attn: - Mr. William Cheung	(Fax No. 2714 0103) } w/e – 1 hard copy
SMEC(IEC)	- Attn: - Mr. Anthony Wong	(Fax No. 3995 8101) } w/e – 1 CD (pdf copy)
AUES(ET)	- Attn: - Mr. T. W. Tam	(Fax No. 2959 6079) } w/e – 1 CD (pdf copy)
AECOM	- Attn: - Mr. Pat Lam	} w/e – 1 hard copy
Chun Wo	- Attn: - Mr. Clement Kwok	(Fax No. 2744 6937) } w/e – 1 hard copy

KL/LQR/tc

Our Ref: TCS00670/13/300/L0047

AECOM
8/f Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, Hong Kong

Attn: Mr. Kelvin Lee
Engineer's Representative

01 August 2013
By E-mail and By Post
Fax: 3922 9797

Dear Mr. Kelvin Lee,

**Re: Contract CV/2012/09 Liantang/ Heung Yuen Wai Boundary Control Point Site
Formation and Infrastructure Works – Contract 3
Certification of Project Layout Plan (Rev.01) under EP-404/2011 Condition 2.7**

According to your documents provide including:

1. Project Layout Plans (Drawing Nos. 60212563/BL3/000 to 60212563/BL3/004) for Contract No. CV/2012/09 of Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3;
2. Explanatory Notes for Works Programme for Contract No. CV/2012/09 of Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3; and
3. Works Programme for Contract No. CV/2012/09 of Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3

Please be noted that we have no adverse comments on the captioned submission. We herewith certify the Project Layout Plans of Contract 3 (CV/2012/09) of the captioned Project in accordance with the requirements stipulated in *Clause 2.7* of the *Environmental Permit No. EP-404/2011*.

Should you have any question or require further information, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or E-mail: twtam@fordbusiness.com.

Yours sincerely,
For and on Behalf of

Action-United Environmental Services & Consulting



T. W. Tam
Environmental Team Leader
TW/nh/jk



瑞峰工程顧問有限公司

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E smecasia@smec.com
W www.smec.com

6 August 2013

Our ref: 7076192/L14139/R/AB/AW/WM/rw

Your ref:

AECOM
8/F, Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, N.T.

By Email & Post

Attention: Mr Kelvin LEE

Dear Sirs

Agreement No. CE 42/2012 (EP)
Liantang/Heung Yuen Wai Boundary Control Point and Associated Works
Independent Environmental Checker – Investigation
Project Layout Plans of Contract 3 (CV/2012/09)

Reference is made to the following documents:

1. Project Layout Plans (Drawing Nos. 60212563/BL3/000 to 60212563/BL3/004);
2. Explanatory Notes for Works Schedule for Contract No. CV/2012/09 – Contract 3;
3. Works Schedule for Contract No. CV/2012/09 – Contract 3; and
4. The ET Leader's certification (ET's ref.: TCS00670/13/300/ L0047) dated 1 August 2013.

Please be noted that we have no adverse comments on the captioned submission. We herewith verify the Project Layout Plans of Contract 3 (CV/2012/09) of the captioned Project in accordance with Condition 2.7 of Environmental Permit No. EP-404/2011.

Thank you for your attention and please do not hesitate to contact the undersigned on tel. 3995 8120 or by email to antony.wong@smec.com; or our Ms Winnie MA on tel. 3995 8138 or by email to winnie.ma@smec.com.

Yours faithfully
For and on behalf of
SMEC Asia Limited

Antony WONG
Independent Environmental Checker

cc	CEDD/BCP	- Mr Pui Sang LI	by fax: 2714 0103
	AECOM	- Mr Pat LAM	by email
	AUES	- Mr TW TAM	by email



**Liantang / Heung Yuen Wai Boundary Control Point
and Site Formation and Infrastructure Works –
Contract 3**

Environmental Permit (EP No.: EP- 404/2011)

Project Layout Plan

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**Explanatory notes for works schedule for Contract No. CV/2012/09 –
Liantang / Heung Yuen Wai boundary Control Point Site Formation and Infrastructure Works – Contract 3**

A. Overall works

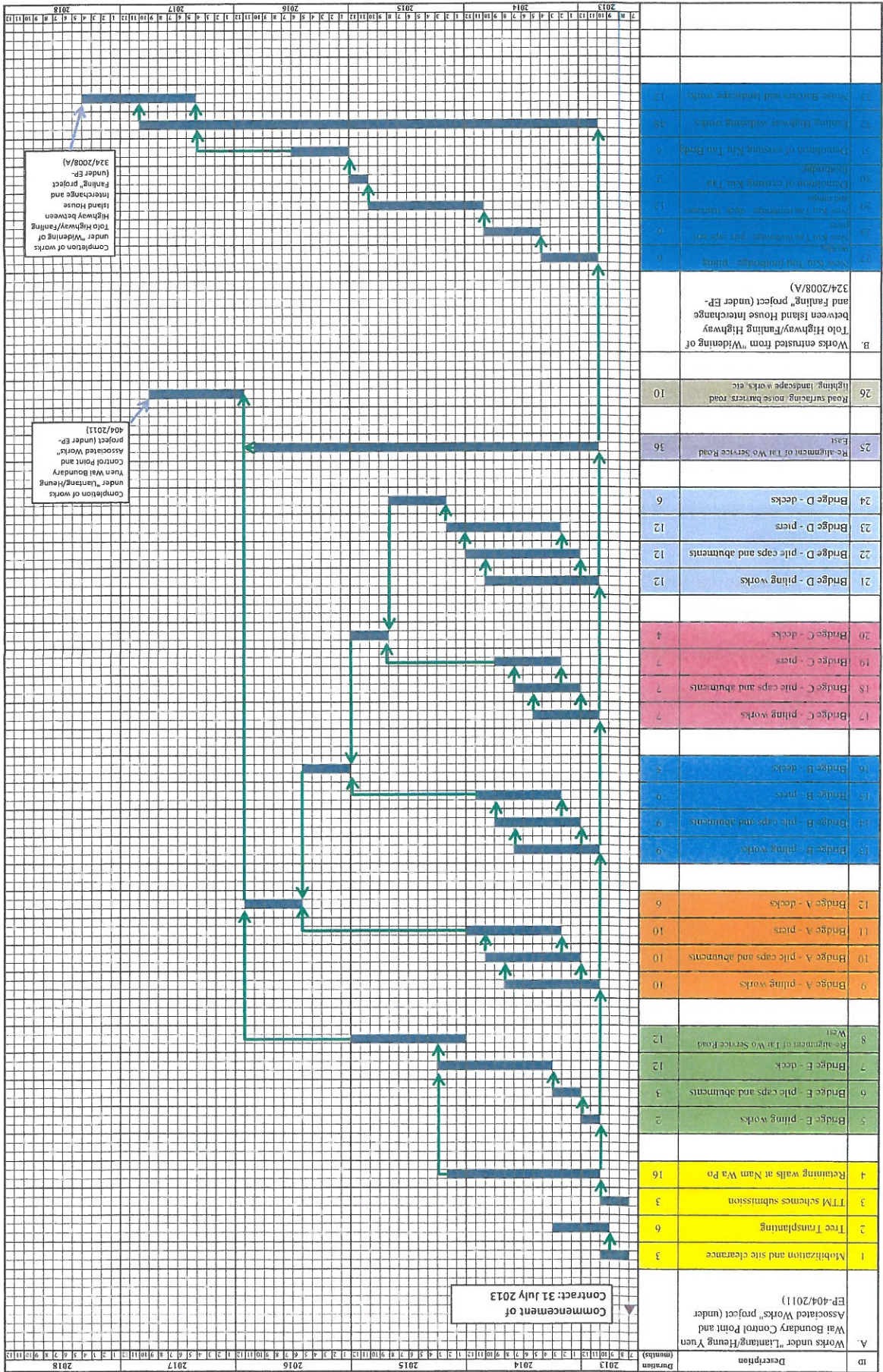
1. The works to be executed under Contract No. CV/2012/09 - : Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 3” (Contract 3) comprise (i) the works under CEDD’s “Liantang / Heung Yuen Wai Boundary Control Point and Associated Works” project under Environmental Permit No. EP-404/2011; and (ii) the works entrusted by HyD under HyD’s “Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling” project under Environmental Permit No. EP-324/2008/A. The Contract 3 works boundary (= site boundary), and the works areas of these two projects are illustrated in the drawings 60212563/BL3/000 to 004.
2. The works to be executed under Contract 3 under CEDD’s “Liantang / Heung Yuen Wai Boundary Control Point and Associated Works” project under EP No. EP-404/2011 include the following major works items:
 - (i) Construction of four link roads (Link Roads 1 to 4), in the form of four viaducts (Bridge A, Bridge B, Bridge C, and Bridge D), to link up Fanling Highway with the proposed trunk road to Liantang / Heung Yuen Wai Boundary Control Point (the BCP);
 - (ii) Realignment of the existing Tai Wo Service Road West, including the construction of a vehicular bridge (Bridge E) crossing Ma Wat Channel;
 - (iii) Realignment of the existing Tai Wo Service Road East;
 - (iv) Construction of associated footpath, slopes, retaining walls, drainage, waterworks, landscape works and other ancillary works; and
 - (v) Associated noise barriers and landscape works.
3. The works to be executed under Contract 3 and entrusted by HyD under HyD’s “Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling” project under EP No. EP-324/2008/A include the following major works items:
 - (i) Widening about 1 km of the existing Fanling Highway from dual three-lane carriageway to dual four-lane carriageway;
 - (ii) Construction of a new Kiu Tau Footbridge across the widened Fanling Highway to replace the existing Kiu Tau footbridge, which will be demolished;
 - (iii) Demolition of the existing Kiu Tau Bridge; and
 - (iv) Associated noise barriers and landscape works.

B. Works under “Liantang / Heung Yuen Wai Boundary Control Point and Associated Works” project (EP No. EP-404/2011)

4. In the initial 3 months, the works will cover mainly mobilization and site clearance (Activity ID 1).
5. Tree transplanting (Activity ID 2) will take about 6 months, and will be carried out in parallel with the piling works.
6. TTM (Temporary Traffic Management) scheme submissions (Activity 1D 3) will take 3 months.
7. Upon mobilization of resources, and submission and approval of TTM schemes, piling works for the bored-pile retaining walls at Nam Wa Po (Activity ID 4) and for Bridges A to E (Activity ID 5, 9, 13, 17, 21) will commence. The works for re-alignment of Tai Wo Service Road West (Activity ID 8) and Tai Wo Service Road East (Activity ID 25) will proceed in parallel.

8. As soon as some of the piles are completed, the construction of the pile caps and bridge abutments will follow (Activity ID 6, 10, 14, 18, 22).
9. The construction of the viaduct piers (Activity ID 11, 15, 19, 23) will follow the completion of the pile caps.
10. The bridge decks are to be constructed by balanced cantilever precast segmental method, and the bridge deck segments will be cast off-site. Assuming only one set of launching girder (or one pair of lifting frames) is engaged, the bridge decks of Bridges A to D will be installed in the sequence from Bridge D to Bridge A (Activity ID 24, 20, 16, 12).
11. Bridge E is a single span at-grade crossing, and its bridge deck will be constructed upon completion of its two abutments (Activity ID 7).
12. The road surfacing, noise barriers, landscape works, and road lighting etc. (Activity ID 26) will take about 10 months, and are to be carried out upon completion of the bridge decks.
- C. Works under "widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling" project (EP No. EP-324/2008/A)
13. Fanling Highway widening works (Activity ID 32) will be carried out in stages, and will take about 48 months.
14. The works for Kiu Tau footbridge (Activity ID 27, 28, 29), and the demolition of the existing Kiu Tau footbridge (Activity ID 30) will take place in parallel with Fanling Highway widening works.
15. The demolition of the existing Kiu Tau bridge (Activity ID 31) is expected to take place in early 2016.
16. The noise barrier installation and landscape works (Activity ID 33) will be implemented in the last 12 months of the construction period.

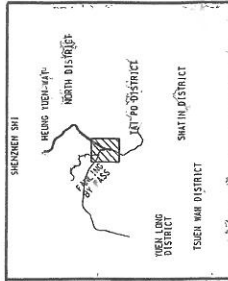
Works Schedule for Contract No. V/2012/09 "Lamang / Heng Vun Wat Boundary Control Point Site Foundation and Infrastructure Works - Contract 3"



Completion of works under EP-324/2008/A

Completion of works under "Lamang/Heng Vun Wat Boundary Control Point and Associated Works" project (under EP-404/2011)

Contract: 31 July 2013



LOCATION PLAN
SCALE 1:1 : 30000

LEGEND:
--- SITE BOUNDARY

NO.	REVISION	DATE

CEDD
Civil Engineering and
Development Department
LUNGSAN MOUNTAIN CONTROL POINT
SITE IDENTIFICATION, INVESTIGATION AND
CONTRACT 3

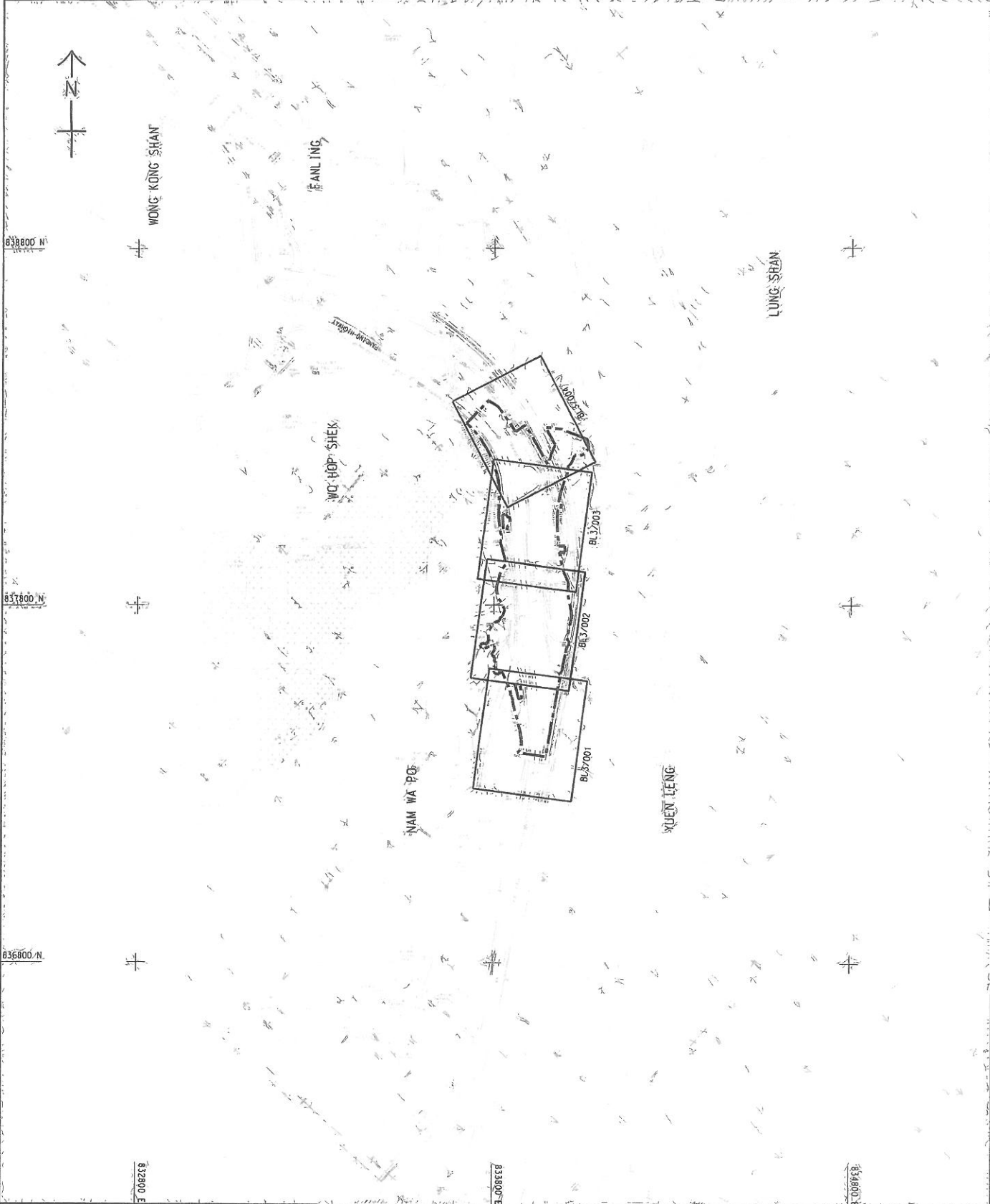
KEY PLAN



DRGNO. 60212563/BL 3/000

DESIGNED BY	CHKD BY
DRAWN BY	DATE
SCALE	PROJECT NO.

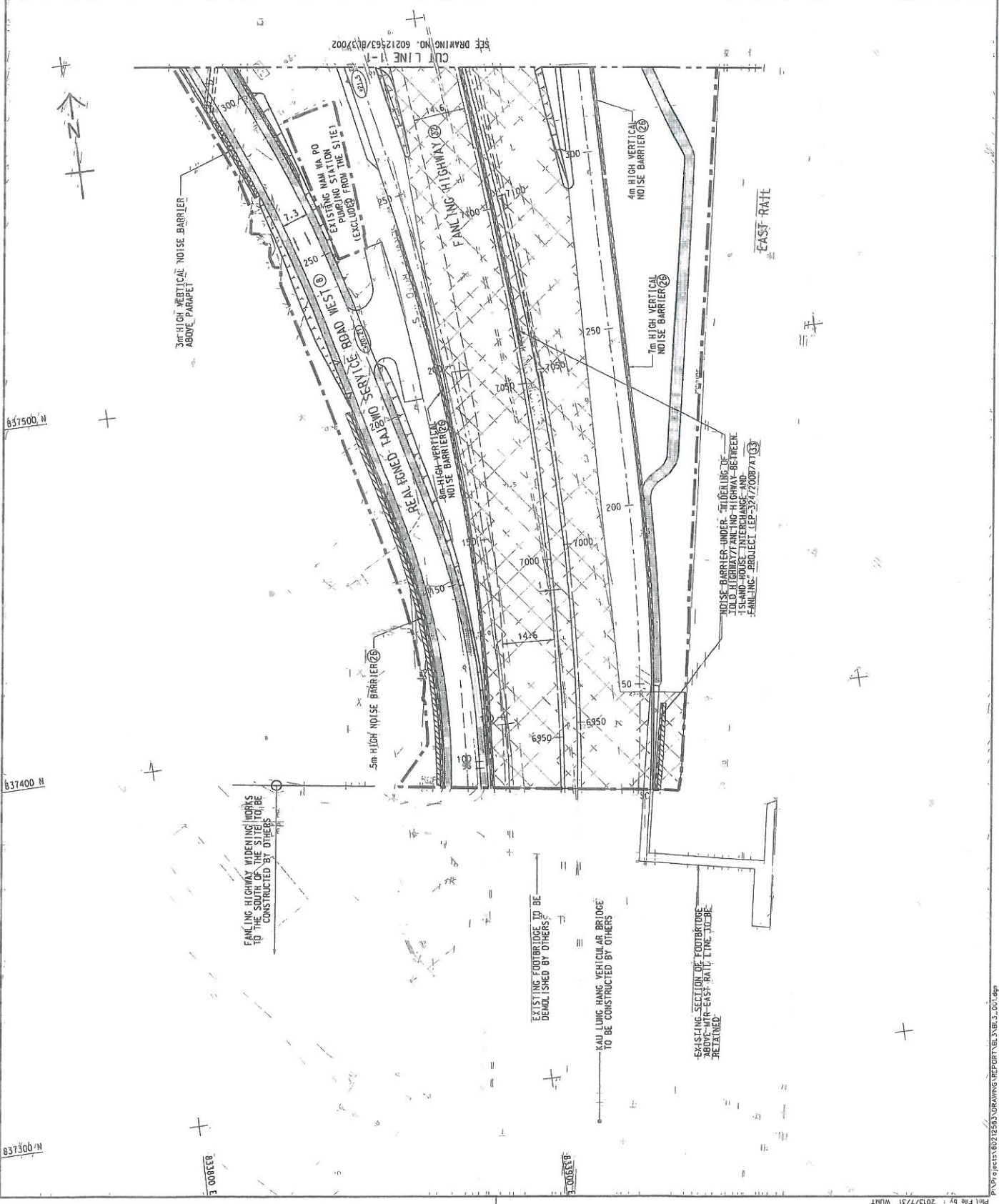
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NOTE:
1. ALL LEVELS SHOWN ARE INDICATIVE ONLY.

LEGEND:

- CONTRACT 3 SITE BOUNDARY (= WORKS BOUNDARY)
- ROAD LEVEL
- EXISTING SLOPE
- OPEN CUT SLOPE AT MAX ANGLE AS STATED
- CONSTRUCTED FILL SLOPE AT 2:1 OR 3:1 UNLESS OTHERWISE STATED
- 2-SHAPE OR RETAINING STRUCTURE IN SPECIFIC TYPE
- NOISE BARRIER IN SPECIFIC HEIGHT
- E.G. BETWEEN BRIDGE STRUCTURE IN MAINTENANCE ACCESS
- VIADUCT UNDER 'LIANGKANG/KEUNG NEW VIADUCT BOUNDARY CONTROL POINT (EP-404/2011)
- FOOTPATH
- BORED PILE RETAINING WALL
- WORKS AREA FOR WORKS UNDER 'VIADUCT UNDER 'LIANGKANG/KEUNG INTERCHANGE AND FANLING PROJECT (EP-352/2004/1)
- ACTIVITY ID 'N' IN SUBMITTED BIDDING PROGRAMME



GENERAL LAYOUT

SHEET 1 OF 4

AECOM

60212563/BL3/001

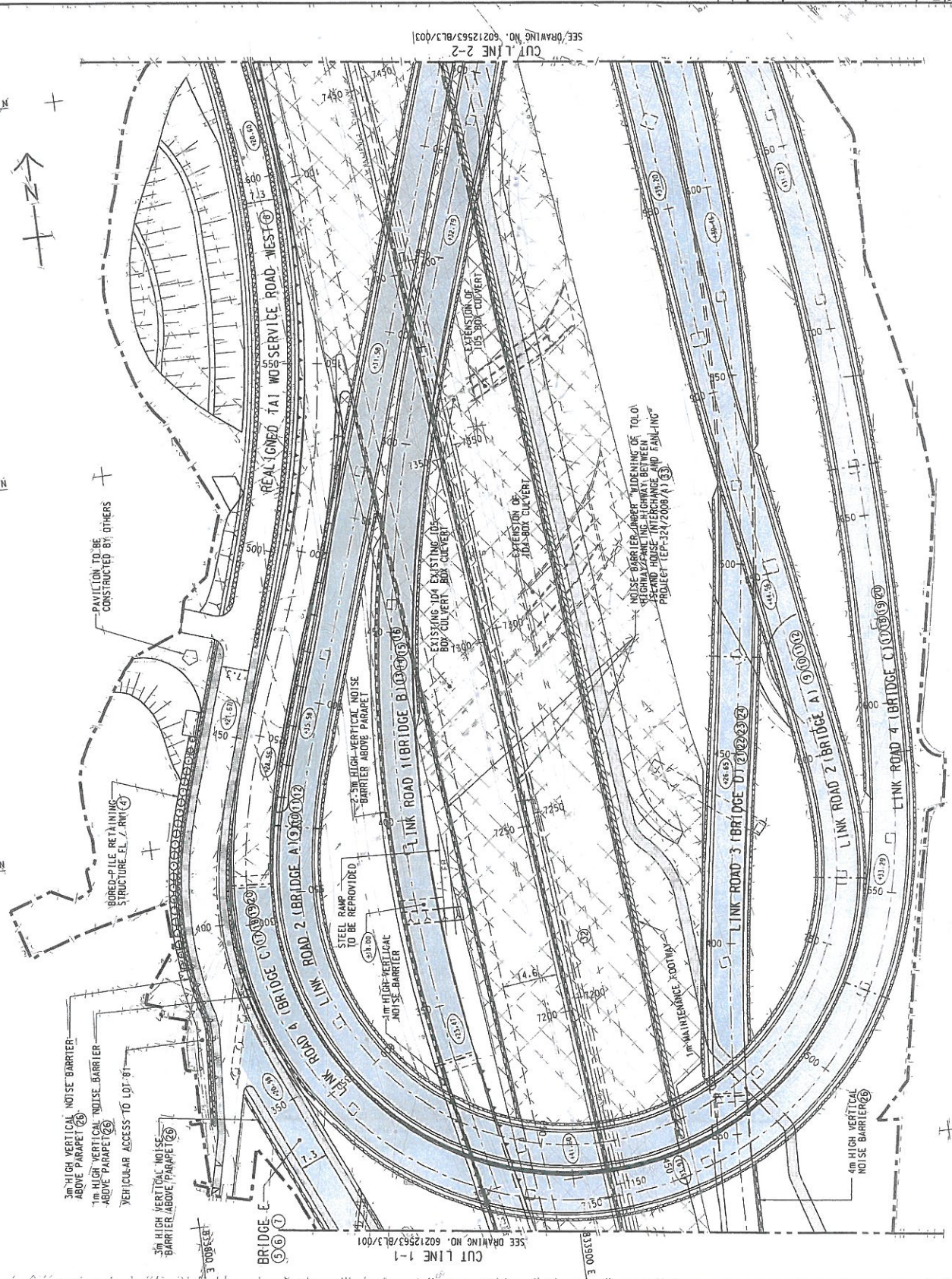
ORGANO: AECOM
PROJECT NO: 60212563/BL3/001
DATE: 21/10/2010
SCALE: AS SHOWN
UNIT: METRES

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PROJECT: 60212563/BL3/001

FILED BY: 2013/7/31 WJW

NOTE:
 1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60212563/BL 3/001.



837900 E
 837800 N
 837700 N
 837600 N
 837500 E
 834000 E

3m HIGH VERTICAL NOISE BARRIER ABOVE PARAPET (S)
 1m HIGH VERTICAL NOISE BARRIER ABOVE PARAPET (S)
 VERTICAL ACCESS TO LOT 81
 5m HIGH VERTICAL NOISE BARRIER ABOVE PARAPET (S)
 BRIDGE E
 1.3

3m HIGH VERTICAL NOISE BARRIER ABOVE PARAPET (S)
 2.3m HIGH VERTICAL NOISE BARRIER ABOVE PARAPET (S)
 STEEL RAMP TO BE REPROVIDED
 1m HIGH VERTICAL NOISE BARRIER
 4m HIGH VERTICAL NOISE BARRIER (S)

CUT LINE 1-1
 SEE DRAWING NO. 60212563/BL 3/001

CUT LINE 2-2
 SEE DRAWING NO. 60212563/BL 3/001

1m MAINTENANCE FOOTWAY
 4m HIGH VERTICAL NOISE BARRIER (S)

EAST-RAIL

AECOM

GENERAL LAYOUT

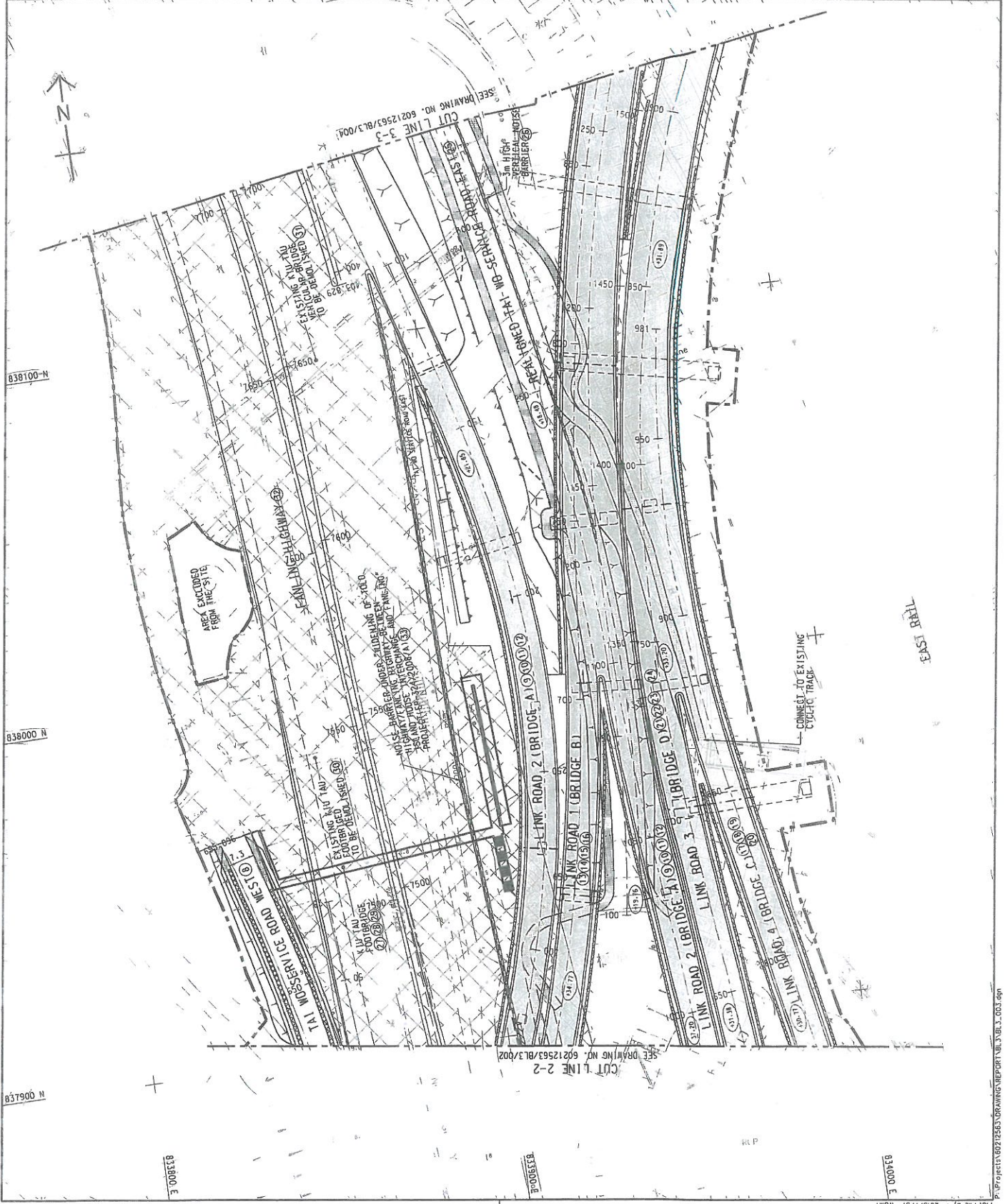
SHEET 2 OF 4

CEDD 土木工程發展局
 Civil Engineering and Development Department
 LEARNING/RESEARCH AND INNOVATION CENTRE POINT
 SITE FORMATION CONTRACT

DRG NO.	60212563/BL 3/002
DATE	2013/7/31
SCALE	A3 : 1 : 1000
PROJECT	LEARNING/RESEARCH AND INNOVATION CENTRE POINT SITE FORMATION CONTRACT
DESIGNED BY	11/11/11
CHECKED BY	11/11/11
DATE	11/11/11
SCALE	1:1000
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NOTE:
 1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60212563/BL3/001.

 CEDD Civil Engineering and Development Department (LAWYER'S USE ONLY: BARSARY CONTROL POINT SITE FORMATION AND INFRASTRUCTURE WORKS - CONTRACT 3)		北水工運務處 運輸及 發展部 合約編號: 60212563/BL3/003 日期: 2013年7月21日 比例尺: 1:1000 圖則編號: 60212563/BL3/003/004 圖則名稱: 總佈局圖 圖則日期: 2013年7月21日 圖則比例尺: 1:1000 圖則內容: 總佈局圖
SHEET 3 OF 4 GENERAL LAYOUT		AECOM 60212563/BL3/003 PROJECT NO.: 60212563/BL3/003 DRAWING NO.: 60212563/BL3/003/004 SHEET NO.: 3 OF 4 TITLE: GENERAL LAYOUT
SHEET 3 OF 4		© COPYRIGHT RESERVED 圖則名稱: 總佈局圖



NOTE:
 1. ALL DIMENSIONS AND LEGEND REFER TO DRAWING NO. 60212563/BL3/004.

PROJECT NO.	60212563/BL3/004
DATE	2013/7/31
SCALE	AS SHOWN
DRAWN BY	WANG
CHECKED BY	WANG
APPROVED BY	WANG

GENERAL LAYOUT

SHEET 4 OF 4

AECOM

DRG NO. 60212563/BL3/004

PROJECT NO. 60212563/BL3/004

DATE 2013/7/31

SCALE AS SHOWN

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