



香港大學
THE UNIVERSITY OF HONG KONG

IMPORTANT

Circular No. 20/04/10

15 April 2010

NOTICE

To:	All Offices, Departments, Units & Centres in the Buildings under the Distribution List
Subject:	Drainage Services Department - Hong Kong West Drainage Tunnel Drainage Intake HKU1 adjacent to Graduate House Blasting Works for Underground Adit Tunnel <i>(Please refer the attached plan for location of works)</i>
Period:	2 June 2010 to 31 December 2010
Frequency of Blasting:	Once per day <i>(Exact time of blasting will be notified separately in advance)</i>

As notified by Drainage Services Department (DSD) via the attached letter of 13 April 2010, the blasting works for DSD's underground adit tunnel at 70m below ground level will be carried out during the period specified above.

DSD advised that the HKU buildings highlighted with colours as shown in the attached plan may be affected by the vibration arising from DSD's blasting works. The list of potentially affected HKU buildings/structures with the corresponding anticipated maximum ground-borne vibration limits is attached for information.

Although the anticipated maximum ground-borne vibration limits will comply with relevant statutory requirements, DSD would like to consult HKU whether any sensitive equipments are located within the affected buildings which may subject to a lower value of vibration limit.

In this regard, we would be grateful if all Offices, Departments, Units & Centres in the affected buildings could kindly advise us on any sensitive equipments that required special attention and the relevant allowable vibration limits for DSD's attention. Please kindly be advised the information should be sent to Estates Office via email to cwfung@estates.hku.hk before 18 May 2010 (Tuesday) for our onward submission to DSD.

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ESTATES OFFICE 物業處

17/F, KENNEDY TOWN CENTRE, 23 BELCHER'S STREET, KENNEDY TOWN, HONG KONG
香港堅尼地城卑路乍街二十三號堅城中心十七樓

TELEPHONE • 電話 • (852) 28168211 FAX • 傳真 • (852) 2855 0346/2855 7109/2986 3715/2517 0456 EMAIL • 電子郵件 • estates@estates.hku.hk



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Should you have any enquiry on the above, please feel free to contact DSD's Resident Engineer, Mr. Thomas Yip (Arup) at 9860 8767 or our Senior Technical Manager, Mr. Andy Fung at 2816 8285.

We thank you in advance for your kind understandings in this matter.



K. L. Tam

Senior Assistant Director



AF

Encl.

- c.c. DSD – Attn: Mr. Stanley Cheng (by Email)
Arup – Attn: Mr. Thomas Yip (by Email)
CMW – Attn: Mr. Chris Lee / Mr. Samuel Kan (By Email)
Safety Office (by Email)
Dr. Clement Wong / Mr. C.B. Lo / Mr. Roger Liu (by Email)
Security and Parking Unit – Mr. Teddy Wong / Mr. Frankie Law (by Email)
Customer Services Unit – Mrs. K. Yip (by Email)
PWT (By Email)
KW/KLT (please see on file)

Distribution List:

1. Graduate House
2. University Drive No. 2
3. James Hsioung Lee Science Building
4. Technology Innovation & Incubation Building
5. Runme Shaw Building
6. Run Run Shaw Building
7. Hui Oi Chow Science Building
8. Library Building
9. Library Annex
10. Kadoorie Biological Sciences Building
11. Haking Wong Building
12. Simon K Y Lee Hall
13. Composite Building
14. Chow Yei Ching Building
15. Rayson Huang Theatre
16. Robert Black College
17. May Hall
18. University Lodge
19. Eliot Hall
20. Meng Wah Complex
21. Chong Yuet Ming Amenities Centre
22. Tang Chi Ngong Building
23. Swire Building
24. T T Tsui Building
25. Fung Ping Shan Building
26. K K Leung Building
27. Knowles Building
28. Main Building
29. Hung Hing Ying Building
30. Pao Siu Loong
31. Chong Yuet Ming Chemistry Building
32. Chong Yuet Ming Physical Building
33. Yam Pak Building



Drainage Services Department
Project Management Division
42nd floor, Revenue Tower, 5 Gloucester Road,
Wan Chai, Hong Kong.

渠務署
工程管理部
香港灣仔告士打道5號
稅務大樓42樓

本署檔號 Our Ref: () in DSD PM 8 4103CD/DC0710/93
來函檔號 Your Ref:
電話 Telephone: (852) 2594 7289
圖文傳真 Fax: (852) 2827 8526

13 April 2010

The University of Hong Kong
17/F, Kennedy Town Centre,
23 Belcher's Street,
Kennedy Town,
Hong Kong.

Attention : Mr. Andy Fung

Contract No. DC/2007/10

Design and Construction of Hong Kong West Drainage Tunnel

Intake HKU1 – Notification of Commencement for Blasting Works

Dragages – Nishimatsu Joint Venture (DNJV) is the main contractor appointed by the Drainage Services Department (DSD) to carry out the construction of Hong Kong West Drainage Tunnel under DSD Contract No.: DC/2007/10. The aim of this Project is to alleviate potential flooding problems in Northern Hong Kong Island during heavy storm season.

(1) Background of DSD's Project

The scope of the Project comprises the construction of about 11km long drainage tunnel extending from Tai Hang to Cyberport, 34 nos. of stormwater intakes structure and about 8km of associated connection adit tunnels. One of the stormwater intake structure namely Intake HKU1 will be constructed within the boundary of the University of Hong Kong (HKU) at the existing nullah adjacent to Graduate House. The tentative overall construction period for the major works (from Tai Hang portion to Cyberport portion) will be from October 2009 to February 2011.

(2) Construction Activities to be Carried Out by DSD

Up to date, the pipe piling works at Intake HKU1 have been completed and DNJV is about to commence the next stage of construction works with details as follows:

Location of Works	70m below the road level of University Drive and existing slope adjacent to Graduate House of HKU
Scope of Work :	Drill and Blast for Underground Adit Tunnel
Potentially Affected Areas (PAAs):	Please refer to the attached "List of Potentially Affected Buildings/Structures" & Sketch No. "965"
Anticipated period affecting PAAs:	02 June 2010 to 31 December 2010
Frequency of Blasting:	Once per day (Exact time of blasting to be notified separately)

(3) Vibration Control

During the abovementioned period, ground-borne vibrations will be generated from blasting and may be experienced by the buildings within the plot contour as shown on the attached plan. DNJV will carry out all necessary mitigation works to minimize the disturbance that may be caused to HKU.

The levels of vibration will be properly controlled to comply with the relevant statutory requirements (i.e. Upper limit on maximum peak particle velocity (ppv) of **15mm/sec or a lower value** to avoid damage to general buildings or historic buildings, respectively, in accordance with Practice Note for Authorized Persons and Registered Structural Engineers (PNAP) No. APP-137 published by Buildings Department).

As there may be some sensitive equipment within the plot contour that may be subjected to a lower value of vibration limit, DNJV would like to seek HKU's advice on the relevant vibration limits, if any, by 20 May 2010.

During the above period of blasting works, DNJV will conduct vibration monitoring within the plot contour for every blast to ensure that the blasting works will have no adverse impact on the nearby buildings/equipments/structures.

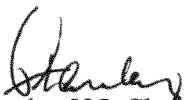
(4) Noise Control

As the drill and blast operation will be conducted underground, construction noise should not be generated at the ground level during the construction period. DNJV will comply with the relevant statutory requirements for noise control and carry out all necessary mitigation works to minimize the disturbance that may be caused to HKU.

The noise levels will be properly controlled to comply with relevant government technical circular (i.e. 70dB(A)(Leq 30min) for schools and 65dB(A)(Leq 30min) during school examinations, ETWB TC 19_2005 refers.)

We thank you in advance for your kind understanding in this matter. Should you have any queries, you are welcome to contact Mr. Thomas Yip, Resident Engineer of our consultant (Arup) responsible for supervising the described works at 9860 8767.

Yours faithfully,


(Stanley Y L Cheng)
for Chief Engineer/Project Management
Drainage Services Department

c.c.

ARUP

DC/2007/10 SOR

CMW

HKU Supervision Team

(Attn.: Mr. Daman LEE)

(Attn.: Mr. Ted TANG)

(Attn: Mr. Chris Lee / Mr. Samuel Kan)

(Attn: Mr. PW Tam)

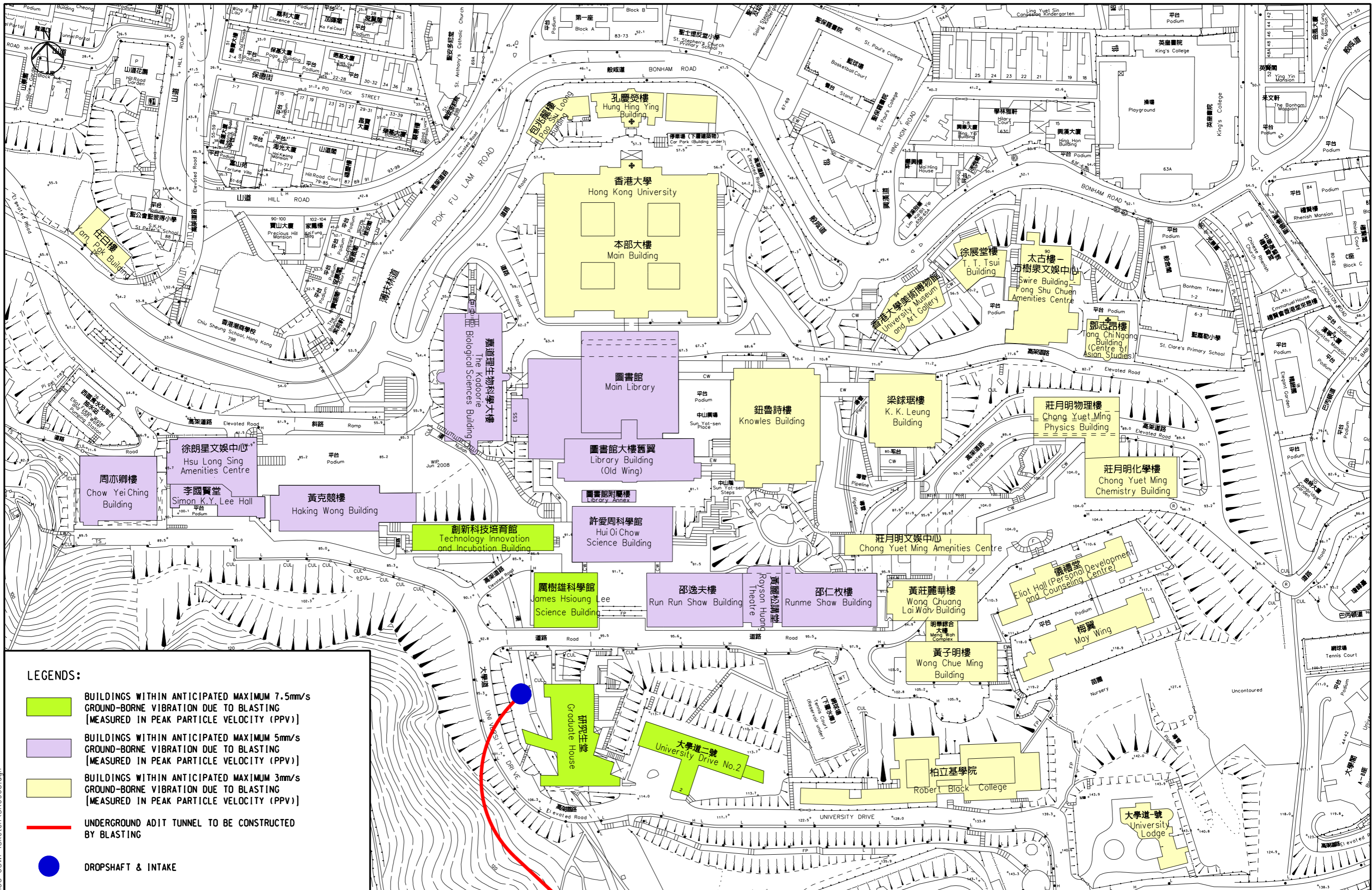
Fax 2268 3970

Fax 3961 5299

Fax 2526 3111

Internal

E/PM6 – please note in file



LEGENDS:

- BUILDINGS WITHIN ANTICIPATED MAXIMUM 7.5mm/s GROUND-BORNE VIBRATION DUE TO BLASTING [MEASURED IN PEAK PARTICLE VELOCITY (PPV)]
- BUILDINGS WITHIN ANTICIPATED MAXIMUM 5mm/s GROUND-BORNE VIBRATION DUE TO BLASTING [MEASURED IN PEAK PARTICLE VELOCITY (PPV)]
- BUILDINGS WITHIN ANTICIPATED MAXIMUM 3mm/s GROUND-BORNE VIBRATION DUE TO BLASTING [MEASURED IN PEAK PARTICLE VELOCITY (PPV)]
- UNDERGROUND ADIT TUNNEL TO BE CONSTRUCTED BY BLASTING
- DROPSHAFT & INTAKE

Printed by : 4/14/2010
 Filename : Z:\24133-CSWP\Sketchn\SK0965.dgn

ARUP Ove Arup & Partners Hong Kong Limited	Job Title	DESIGN AND CONSTRUCTION OF HONG KONG WEST DRAINAGE TUNNEL	Job No. : 24133	Scale: 1:800 @ A3	Drawn: RI	Checked:	Approved:	Issue Date :
	Rev:	Sketch Title : BLASTING VIBRATION PLOT CONTOUR AT THE UNIVERSITY OF HONG KONG	DSD Contract No. : DC/2007/10	Other Related Doc:-	Working Dwg. No.	DAN No.	Others	IN-Q No.
Sketch No. 24133/SK/0965					RFI No.			

List of Potentially Affected Buildings/Structures

Potentially Affected Buildings/Structures	Anticipated maximum ground-borne vibration due to blasting [measured in peak particle velocity (ppv)]
1) Graduate House 2) University Drive No. 2 3) James Hsioung Lee Science Building 4) Technology Innovation & Incubation Building	7.5 mm/sec
5) Runme Shaw Building 6) Run Run Shaw Building 7) Hui Oi Chow Science Building 8) Library Building 9) Library Annex 10) Kadoorie Biological Sciences Building 11) Haking Wong Building 12) Simon K Y Lee Hall 13) Composite Building 14) Chow Yei Ching Building 15) Rayson Huang Theatre	5 mm/sec
16) Robert Black College 17) May Hall 18) University Lodge 19) Eliot Hall 20) Meng Wah Complex 21) Chong Yuet Ming Amenities Centre 22) Tang Chi Ngong Building 23) Swire Building 24) T T Tsui Building 25) Fung Ping Shan Building 26) K K Leung Building 27) Knowles Building 28) Main Building 29) Hung Hing Ying Building 30) Pao Siu Loong 31) Chong Yuet Ming Chemistry Building 32) Chong Yuet Ming Physical Building 33) Yam Pak Building	3 mm/sec