

# **Task Force on Kai Tak Harbourfront Development**

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For discussion  
on 1 June 2016

TFKT/07/2016

## **Design of Hong Kong Children's Hospital<sup>1</sup> at Kai Tak**

### **PURPOSE**

This paper updates Members on the latest design of Hong Kong Children's Hospital (HKCH) at Kai Tak.

### **BACKGROUND**

2. We briefed Members of the Task Force on Kai Tak Harbourfront Development on the development of HKCH and presented the conceptual design of HKCH on 16 January 2012 vide Task Force paper no. TFKT/02/2012. Members of the Task Force generally supported the project. The Chairman invited the project team to consult the Task Force on the detailed design of the project at a later stage.

3. In June 2013, the Finance Committee of the Legislative Council approved a capital funding commitment of \$13 billion for taking forward the HKCH project. Subsequently, the Design & Build Main Contract for the project was awarded in July 2013 with construction work started in August 2013 and scheduled for completion in June 2017.

### **THE SITE**

4. HKCH is located at Site C of the hospital sites (Site 3C1) at the South Apron of Kai Tak Development, with a site area of approx.

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<sup>1</sup> The hospital was formerly known as Centre of Excellence in Paediatrics and was officially named as the Hong Kong Children's Hospital in February 2014.

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21,700 m<sup>2</sup>. It has a long frontage of about 285 meters abutting Shing Cheong Road (Road TD4) on the land side and the future waterfront promenade (to be implemented by Leisure and Cultural Services Department separately) on the sea side. Currently, access to the site is mainly served by Cheung Yip Street at the southeast of the site.

5. According to the Engineering Conditions of the government land allocation of the site, three vehicular ingress and egress points are permitted for the site: two of them are located along the west bound traffic of Shing Cheong Road leading to the frontage of each building blocks (i.e. Tower A & Tower B) of the hospital, while the other is at the southeast boundary of the site leading to the planned roundabout at the end of Cheung Yip Street.

6. Currently, a mini-bus stop (no. 86, commuting between Kowloon Bay MTR Station and Kai Tak Cruise Terminal) is located near the site at the pavement of Shing Cheong Road.

7. A site plan and ground floor plan showing the pedestrian and vehicular access routes are attached at **Enclosures 1 & 2** respectively.

## **SCOPE OF WORKS**

8. While mainly providing tertiary services, HKCH will also take emergency transfer cases and provide secondary service so as to render a comprehensive range of subspecialty services for paediatric patients. The major services and facilities to be provided include -

- (a) in-patient and day-patient services with 468 beds, including general wards, neo-natal intensive care unit, paediatric intensive care unit, special care baby unit, day beds for general surgeries/procedures, and a private ward;

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- (b) ambulatory care services including specialist outpatient clinics, ambulatory surgery/day procedure centre, integrated rehabilitation centre and child development assessment service;
- (c) community care services, including patient education and resource centre, and community health education, and medical social service;
- (d) supporting diagnostic and treatment facilities, including radiology (with magnetic resonance imaging, computed tomography scanner, angiography, interventional radiology and ultrasonography), electro-diagnostic studies laboratories, operating theatres, cardiac catheterisation laboratory and clinical pathology laboratories;
- (e) medical research, teaching and training facilities to provide specific support for pursuing basic and translational research in paediatrics as well as teaching and research activities, including clinical research centre, simulation skill laboratory, lecture theatre, meeting and conference facilities;
- (f) support facilities and services to cater for the special needs of children and their families such as children recreation and play therapy areas, classrooms, family rest area, parent's support and spiritual support facilities; and
- (g) other general support and administrative services and facilities such as admission, medical records, theatre sterile supplies unit, pharmacy, linen, mortuary, procurement and supplies, housekeeping, hospital data centre, food services, café / restaurant, transportation, and staff accommodation, etc.

## URBAN DESIGN FRAMEWORK & DESIGN CONCEPT

9. The conceptual design of two separate podium-free towers (namely Tower A & Tower B) with a single-storey basement, ground

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floor central garden and 3 linkbridges (at Level 2, Level 3 & Level 9) is followed through in the subsequent design stages of HKCH. Situated in the middle of the 2 towers is a feature landscaped garden at ground level which serves as the main arrival node and one of the major exterior public domain of HKCH. The artist impression of the proposed new hospital and connection to the promenade are at **Enclosures 3 and 4.**

10. The design of HKCH complies with the following major planning parameters:

- (a) Podium-free design
- (b) Building height not exceeding 60mPD
- (c) Site Coverage and plot ratio of about 65% and 5.5 respectively
- (d) Building permeability and separation requirement as stipulated in PNAP APP-152
- (e) Site greenery coverage (overall not less than 30%; at-grade not less than 20%; roof area not less than 20%)

11. In terms of urban design, the design of HKCH will provide the following features to enhance the connectivity at pedestrian level and the public realm of the surrounding environment:

- (a) Transparent “hospital street” at ground floor main lobbies of both Tower A & Tower B with maximized visual and physical connections between pavements at Shing Cheong Road and the future waterfront promenade
- (b) Ground floor central landscaped garden integrated with the main drop-off area of the hospital and enhanced connectivity to future waterfront promenade
- (c) Added vibrancy to the pedestrian zone by locating amenity facilities (e.g. Shop, Cafeteria, Patient Education and

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Resources Centre, Main Waiting Area and Reception, etc) at suitable frontages of two towers

- (d) A network of covered walkways at the peripheral of the two towers, drop-off area and the central garden
- (e) Vertical greening at boundary fence walls and other suitable areas facing the adjacent public spaces at pedestrian level

12. The building envelope of HKCH is composed of curtain wall with insulated glass unit and aluminium cladding, articulated with a feature shading device to reduce solar heat gain. Green terraces are punctured at suitable locations on the facade to add visual interest as well as to enhance the micro-climate of the adjacent spaces.

13. To foster a visually cohesive identity and promote the branding of Kai Tak Development and the Kowloon East, the design of some of the exterior components (e.g. boundary screen walls, wayfinding signage, exterior paving patterns, landscape furniture, canopy and rain shelters, etc.) of HKCH will make reference and adopt the principles and metaphors established for the Kai Tak Public Creatives.

14. For greening features, apart from the central landscaped garden at ground floor, the design will provide vertical greening near public space and landscaped terraces at main roofs of the two towers and various upper levels for environmental and amenity benefits.

15. The design of the central landscaped garden of HKCH has been well coordinated with the design of the adjacent waterfront promenade to ensure good visual and physical connectivity between the two open spaces towards the waterfront. As the major users of the central landscaped garden are the vulnerable patients of HKCH who are generally weak and immune-compromised, uncontrolled access to the central garden by the general public may not be desirable from patient-care point of view. Conversely, from the public health perspective, a controlled hospital setting is necessary so that contact tracing could be conducted during outbreak of infectious

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disease. In addition, child abduction is a critical security concern for a children hospital. Therefore, the perimeter of the central garden will be demarcated with low planter walls and plantings, and security gates of about 1.2 metres high will be installed at strategic entrances of the central garden from the future waterfront promenade as well as from the pavement of Shing Cheong Road.

16. The project is in line with the “Green City” concept of Kai Tak Development Area. It has been registered under the BEAM Plus (New Building, V1.2) Certification of Hong Kong Building Green Council (HKGBC). A Platinum rating is achieved in the Provisional Assessment completed in June 2015.

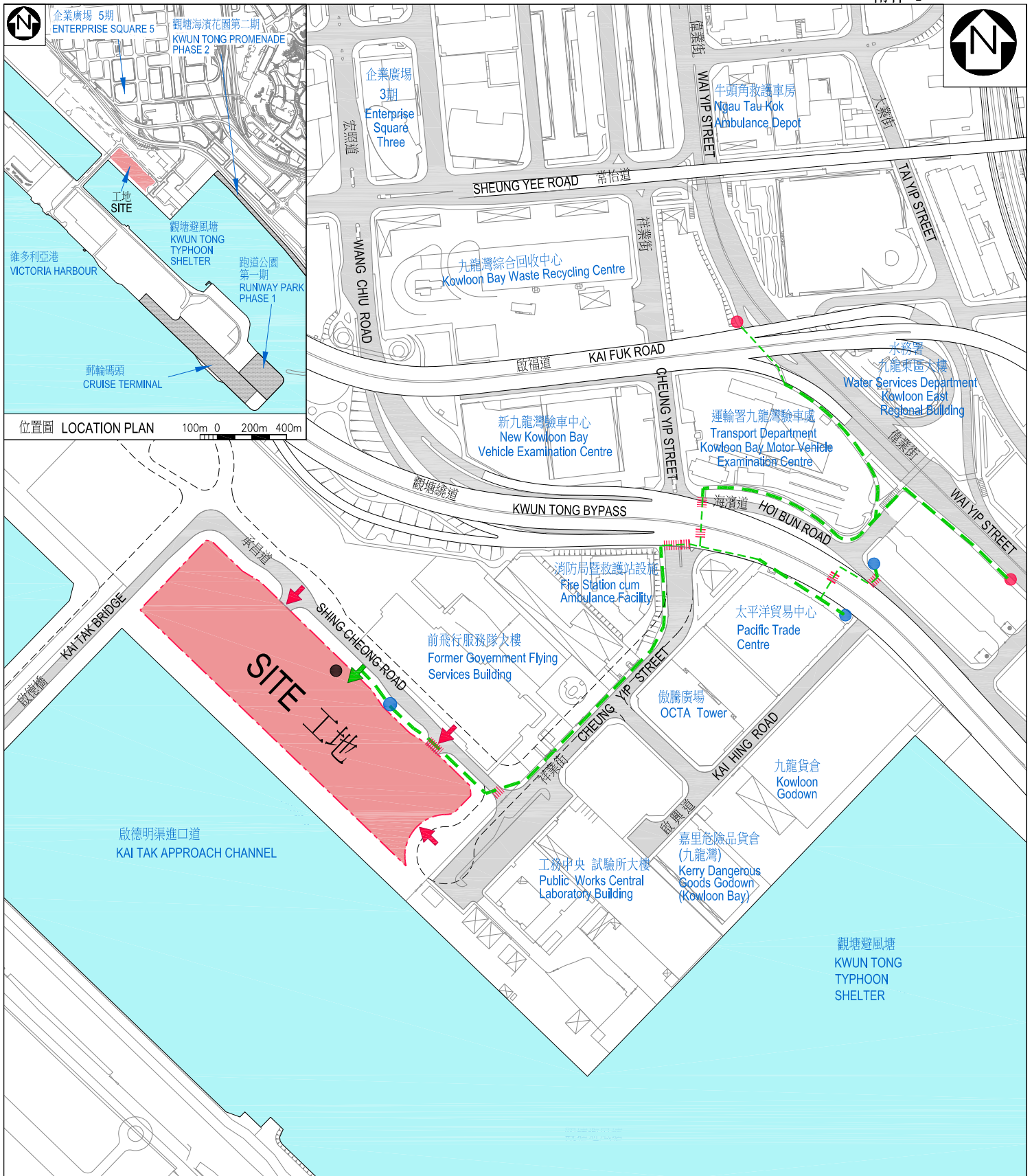
## **WAY FORWARD**

17. Subject to the views of Members, the detailed design of HKCH will be finalized. The construction works is under full swing to enable commissioning of the hospital in 2018.

## **ADVICE SOUGHT**

18. Members are invited to note and comment on the latest design of HKCH at Kai Tak as set out in this paper.

**Food and Health Bureau  
Hospital Authority  
Architectural Services Department  
May 2016**



位置圖 LOCATION PLAN 100m 0 200m 400m

<b>圖例 LEGEND</b>	無障礙通道 BARRIER-FREE ACCESS	● 現有巴士站 EXISTING BUS STOP	↑ 車輛出入口 VEHICULAR INGRESS & EGRESS
--- 工地範圍 SITE BOUNDARY	無障礙通道 (高架道路下) BARRIER-FREE ACCESS (UNDER ELEVATED ROAD)	● 現有小巴士站 EXISTING MINI-BUS STOP	↑ 無障礙出入口 BARRIER-FREE ENTRANCE & EXIT
--- 擬建道路 PROPOSED ROAD	路面行人過路處 AT-GRADE PEDESTRIAN CROSSING	● 擬建的士站及小巴士站 PROPOSED TAXI STAND AND MINI-BUS STOP	

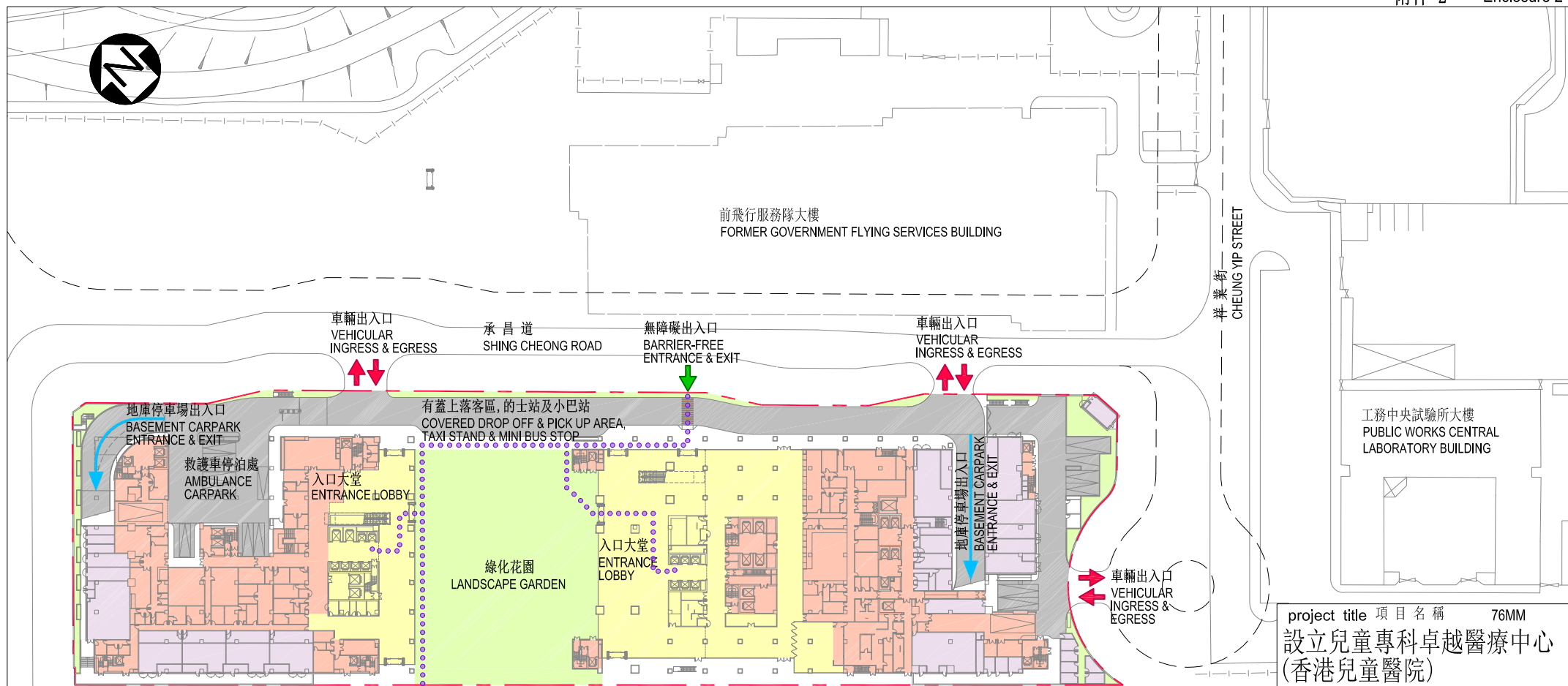
50m 0 50m 100m 150m

project title 項目名稱 76MM  
 設立兒童專科卓越醫療中心(香港兒童醫院)  
 ESTABLISHMENT OF THE CENTRE OF EXCELLENCE IN PAEDIATRICS (HONG KONG CHILDREN'S HOSPITAL)

drawing title 圖則名稱  
**SITE PLAN 工地平面圖**

**ARCHITECTURAL SERVICES DEPARTMENT 建築署**





A座大樓  
TOWER A

B座大樓  
TOWER B

啟德明渠進口道  
KAI TAK APPROACH CHANNEL

圖例 LEGEND :

公眾區域 PUBLIC AREA	員工及醫療區域 STAFF AND CLINICAL AREA	車輛區域 VEHICULAR AREA	機電房 PLANT ROOM	綠化花園 LANDSCAPE GARDEN
有蓋無障礙通道 COVERED BARRIER-FREE ACCESS	地盤界線 SITE BOUNDARY	擬建道路 PROPOSED ROAD	15m 0 30m 60m 75m	

project title 項目名稱 76MM  
設立兒童專科卓越醫療中心  
(香港兒童醫院)  
ESTABLISHMENT OF  
CENTRE OF EXCELLENCE  
IN PAEDIATRICS (HONG KONG  
CHILDREN'S HOSPITAL)

drawing title 圖則名稱  
地下平面圖  
GROUND FLOOR PLAN







project title 項目名稱 76MM  
設立兒童專科卓越醫療中心  
(香港兒童醫院)  
ESTABLISHMENT OF  
CENTRE OF EXCELLENCE  
IN PAEDIATRICS (HONG KONG  
CHILDREN'S HOSPITAL)

drawing title 圖則名稱  
從東南面望向醫院的  
構思透視圖  
PERSPECTIVE VIEW FROM  
SOUTHEAST DIRECTION  
(ARTIST'S IMPRESSION)





project title 項目名稱 76MM  
設立兒童專科卓越醫療中心  
(香港兒童醫院)  
ESTABLISHMENT OF  
CENTRE OF EXCELLENCE  
IN PAEDIATRICS (HONG KONG  
CHILDREN'S HOSPITAL)

drawing title 圖則名稱  
與海濱公園的連繫  
CONNECTION TO  
THE PROMENADE