# For discussion on 19 April 2023

#### **Legislative Council Panel on Health Services**

#### Three Projects under the First Ten-year Hospital Development Plan

#### **Purpose**

This paper invites Members' comments on the following three projects under the First Ten-year Hospital Development Plan (HDP) –

- (a) main works for the expansion of North District Hospital at an estimated cost of \$32,508.2 million in money-of-the-day (MOD) prices;
- (b) main works for the expansion of Lai King Building in Princess Margaret Hospital at an estimated cost of \$5,539.9 million in MOD prices; and
- (c) main works for the redevelopment of Kwong Wah Hospital, phase 2 at an estimated cost of \$9,883.8 million in MOD prices<sup>1</sup>.

The total commitment sought is \$47,931.9 million. Details of the above three HDP projects are at **Enclosures 1 to 3** respectively.

## **Background**

2. In the 2016 Policy Address, the Government announced that \$200 billion would be set aside for the Hospital Authority to implement the First Ten-year HDP. The First Ten-year HDP covers the redevelopment and expansion of 11 hospitals, the construction of a new acute hospital, three community health centres and one supporting services centre. Upon completion of all the projects under the First Ten-year HDP, it will provide more than 6 000 additional bed spaces,

The estimated total project cost is \$9,979.8 million, of which \$9,883.8 million will be met by government commitment and the remaining \$96.0 million by the Tung Wah Group of Hospitals, the parent organisation of the hospital.

94 additional operating theatres and increased capacity of specialist outpatient clinics and general outpatient clinics.

- 3. To date, the Government has upgraded the following HDP projects (involving 12 hospitals, one community health centre and one supporting services centre) to Category A
  - (a) 11 projects in full
    - (i) the extension of Operating Theatre Block for Tuen Mun Hospital;
    - (ii) the expansion of Haven of Hope Hospital;
    - (iii) the redevelopment of Queen Mary Hospital, phase 1;
    - (iv) the redevelopment of Kwai Chung Hospital;
    - (v) the expansion of United Christian Hospital;
    - (vi) the construction of a community health centre cum social welfare facilities at Pak Wo Road, North District;
    - (vii) the construction of Hospital Authority Supporting Services Centre:
    - (viii) the construction of a new acute hospital at Kai Tak Development Area;
    - (ix) the redevelopment of Prince of Wales Hospital, phase 2 (stage 1);
    - (x) the redevelopment of Our Lady of Maryknoll Hospital;
    - (xi) the redevelopment of Grantham Hospital, phase 1; and
  - (b) three projects in part (involving six items)
    - (i) the redevelopment of Kwong Wah Hospital, phase 1 demolition and substructure works:
    - (ii) the redevelopment of Kwong Wah Hospital, phase 1 superstructure and associated works;
    - (iii) the expansion of North District Hospital preparatory works;
    - (iv) the expansion of North District Hospital site formation and foundation works:
    - (v) the expansion of Lai King Building in Princess Margaret Hospital preparatory works; and
    - (vi) the expansion of Lai King Building in Princess Margaret Hospital site formation and foundation works.

The total commitment approved for the items in paragraph 3(a) is \$125,551.7 million and that for paragraph 3(b) is \$13,838.8 million, totalling \$139,390.5 million or 69.7% of the \$200 billion. If the three proposed HDP projects in this submission are approved by the Finance Committee (FC), the cumulative commitment approved would amount to \$187,322.4 million or 93.7% of the \$200 billion.

# Way Forward

4. We plan to submit the funding proposal to the FC for approval after the consultation with Public Works Subcommittee.

Health Bureau Hospital Authority April 2023

#### **Expansion of North District Hospital**

#### **Proposed Project Scope and Timeline**

We propose to carry out the main works of the expansion project of North District Hospital (NDH), which mainly comprise superstructure and refurbishment works as follows –

- (a) construction of a new acute block;
- (b) construction of link bridges and tunnels connecting the new acute block and the existing building;
- (c) associated external and landscaping works;
- (d) construction of a 132 kilovolt (kV) substation for the NDH;
- (e) refurbishment, alteration and addition (A&A) of the existing building; and
- (f) consultancy services for contract administration and site supervision.
- 2. We plan to seek funding approval from the Finance Committee (FC) to upgrade the proposed project to Category A in the current legislative session. The estimated cost of the proposed project is \$32,508.2 million in money-of-the-day (MOD) prices. The Hospital Authority (HA) invited tenders for the proposed works in January 2023. We plan to award the contract to the successful tenderer and commence the proposed works, upon obtaining funding approval from the FC and completion of the site formation and foundation works, for target completion in about six and a half years. The refurbishment and A&A of the existing building will commence upon completion of the new acute block and decanting to match the commissioning programme.
- 3. A site and location plan showing the location of the proposed main works and an artist's impression for the project are at **Annexes 1 and 2 to Enclosure 1** respectively.

#### **Background and Justifications**

- 4. Established in 1998, the NDH is an acute hospital in the New Territories East Cluster of the HA. It provides 24-hour accident and emergency (A&E) service and a wide range of secondary care services with emphasis on ambulatory care as well as community outreach services to residents in North District.
- 5. The combined population in the three districts of Sha Tin, Tai Po and North District is projected to increase by about 5% from 1 395 200 in 2022 to 1 470 300 in 2029. In particular, the population in the North District will increase by about 20% from 357 000 in 2022 to 426 900 in 2029. That aside, the elderly population aged 65 or above in the North District is also projected to increase by about 46% from 67 100 in 2022 to 98 200 in 2029<sup>1</sup>.
- 6. Over the years, the existing facilities at the NDH have become inadequate in terms of space, capacity and design to cope with the increasing service demands and modern quality standards and developments in service delivery. Key challenges faced by the NDH include (a) the increasing demand for emergency service which has long outgrown the planned capacity of the A&E Department, with a perennial problem of overcrowding that poses risks to patient privacy, infection control and timeliness of care delivery; (b) the dire need to enhance the capability and capacity of the NDH in the management of infectious and communicable diseases through increased provision of specially designed isolation rooms and infection control facilities; (c) the urgent need for upgrading the diagnostic and treatment facilities and equipment to the prevailing standards; and (d) the requirement of convalescent and rehabilitation services in the NDH to facilitate continuity of care of patients and meet the healthcare needs of the local community.

#### **Proposed Expansion of the NDH**

7. We propose to expand the NDH in order to meet the healthcare needs in the North District in the long term. The proposed expansion project is being implemented in three works stages, namely (a) preparatory works; (b) site formation and foundation works; and (c) main works (as mentioned in paragraph 1 above). The preparatory works of the project were deliberated at the Panel on 18 March 2019 (Paper Ref.: LC Paper No. CB(2)964/18-19(03)) and the relevant

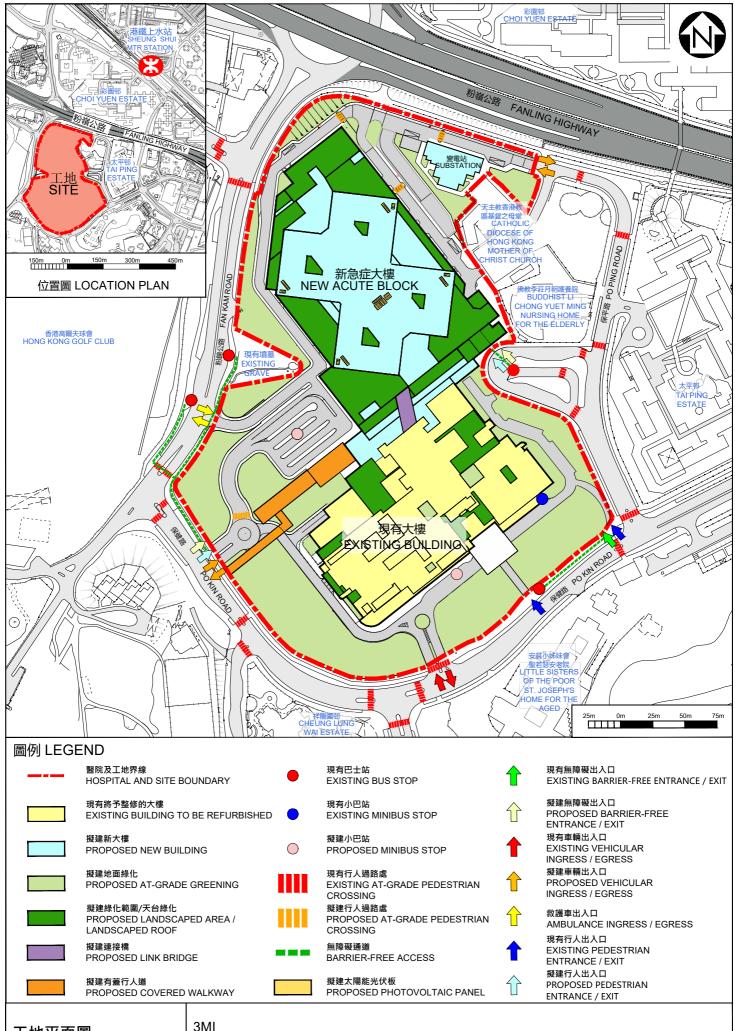
According to the report of "Projections of Population Distribution 2021-2029" compiled by the Planning Department.

funding application was approved by the FC on 22 November 2019 at an estimated cost of \$481.3 million in MOD prices covering (a) site investigations and minor studies; (b) demolition, re-provision and associated minor alteration works of existing buildings and facilities in the NDH; and (c) consultancy services for outline sketch design, detailed design, tender documentation and assessment for the whole project as well as contract administration, management of resident site staff (RSS) and remuneration of RSS for demolition and reprovisioning works. The preparatory works commenced in December 2019.

8. The site formation and foundation works of the project were deliberated at the Panel on 12 March 2021 (Paper Ref.: LC Paper No. CB(4) 600/20-21(07)) and the relevant funding application was approved by the FC on 11 June 2021 at an estimated cost of \$2,141.0 million in MOD prices. The scope mainly covered (a) site formation works, foundation works, basement excavation and lateral support works, and pile cap and basement slab construction works for the new acute block; (b) associated utilities diversion; (c) related access and road works in the NDH; and (d) consultancy services for contract administration and site supervision. The works commenced in July 2021 and are in progress. Upon the completion of the expansion project, we aim to provide 1 500 additional beds in the NDH. The NDH will remain functional at all times during the works period and any disruption of services, if unavoidable, will be kept to a minimum.

#### **Public Consultation**

9. The HA consulted the North District Council (NDC) on 11 October 2022 in respect of the NDH expansion project. Members of the NDC in general supported the proposed project.



工地平面圖 SITE PLAN

3MI 北區醫院擴建計劃 EXPANSION OF NORTH DISTRICT HOSPITAL

# 附件 1 附錄 2 ANNEX 2 TO ENCLOSURE 1



從西面望向新急症大樓的構思透視圖

#### PERSPECTIVE VIEW OF NEW ACUTE BLOCK FROM WEST DIRECTION

構思圖

**ARTIST'S IMPRESSION** 

3MI

北區醫院擴建計劃

**EXPANSION OF NORTH DISTRICT HOSPITAL** 

#### **Expansion of Lai King Building in Princess Margaret Hospital**

## **Proposed Project Scope and Timeline**

We propose to carry out the main works of the expansion project of Lai King Building (LKB) in Princess Margaret Hospital (PMH), which mainly comprise superstructure and refurbishment works as follows –

- (a) construction of a new extension block;
- (b) construction of a link bridge connecting the new extension block and the existing building;
- (c) associated external and landscaping works;
- (d) refurbishment, alteration and addition (A&A) of the existing building; and
- (e) consultancy services for contract administration and site supervision.
- We plan to seek funding approval from the Finance Committee (FC) to upgrade the proposed project to Category A in the current legislative session. The estimated cost of the proposed project is \$5,539.9 million in money-of-the-day (MOD) prices. The Hospital Authority (HA) invited tenders for the proposed works in January 2023. We plan to award the contract to the successful tenderer and commence the proposed works, upon obtaining funding approval from the FC and completion of the site formation and foundation works, for target completion in about four years. The refurbishment and A&A of the existing building will commence upon completion of the new extension block and decanting to match the commissioning programme.
- 3. A site and location plan showing the location of the proposed main works and an artist's impression for the project are at **Annexes 1 and 2 to Enclosure 2** respectively.

# **Background and Justifications**

4. Established in 1975, the PMH is an acute hospital in the Kowloon

West Cluster (KWC) of the HA. It provides a comprehensive range of acute, specialist and ambulatory services, including 24-hour accident and emergency service. Apart from being a tertiary referral centre for infectious diseases, nephrology and urology, the PMH is also a cluster referral centre for oncology, trauma, renal transplant and dialysis, lithotripsy, pulmonary medicine and tuberculosis, high risk obstetrics care as well as paediatric and neonatal intensive care. The LKB, established in 2001, is an off-site facility of PMH providing convalescent, rehabilitation and infirmary in-patient services.

- 5. Over the years, the population in the KWC has been growing considerably. The combined population in Sham Shui Po, Kwai Tsing, Tsuen Wan and Lantau Island areas or districts is projected to increase by about 6% from 1 437 800 in 2022 to 1 525 800 in 2029, whereas the elderly population aged 65 or above will surge from 282 500 in 2022 to 383 700 in 2029, representing a significant increase of about 36% <sup>1</sup>. The ageing population contributed to the increasing demand for comprehensive medical care, especially convalescent and infirmary support.
- 6. The design of the PMH, which has a history of over 40 years, has become outdated and lagged behind the service requirements and workflow logistics of a modern tertiary acute hospital. The floor plates in clinical blocks are very small by current standards, rendering the advancement in medical technology difficult; while the physical conditions and structural capacity of the buildings are exacerbated by heavy utilisation for decades, hindering the upgrading of building services systems to meet increasing operational needs. As a result of piecemeal development in the past, there are more than ten building blocks packed in PMH compound and clinical blocks are scattered over the hospital site which impede the provision of co-ordinated services and efficient workflow logistics conducive to optimal clinical outcomes. The unsatisfactory geographical location and connectivity among the buildings have also undermined the development of the PMH.
- 7. Underpinned by the master development plan for the redevelopment of PMH, the hospital will be renewed to modernise its facilities to cope with the growing clinical service demand. To make available the redevelopment site, additional space and floor areas are required for decanting the existing services and supporting accommodation. In addition to facilitating the decanting of existing services in the PMH, the proposed expansion of the LKB aims to enhance its ambulatory care services to reduce unnecessary hospitalisation and to ensure

According to the report of "Projections of Population Distribution 2021-2029" compiled by the Planning Department.

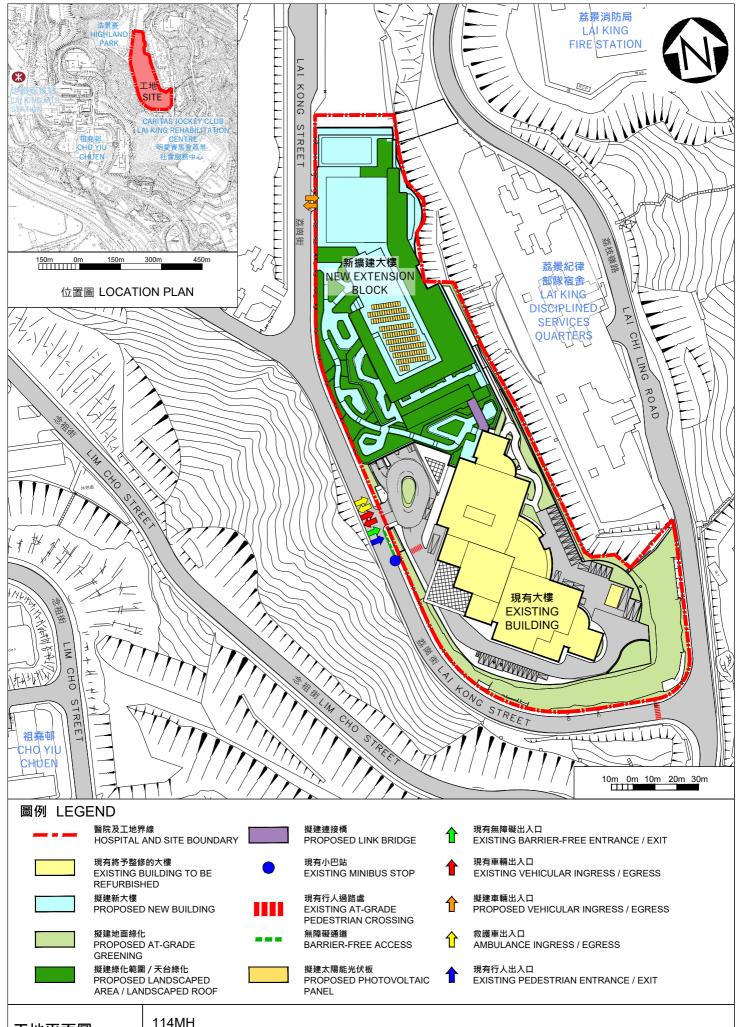
that its facilities comply with the infection control and service standards in modern healthcare settings.

#### **Proposed Expansion of LKB in PMH**

- 8. The proposed expansion project is being implemented in three works stages, namely (a) preparatory works; (b) site formation and foundation works; and (c) main works (as mentioned in paragraph 1 above). The preparatory works of the project were deliberated at the Panel on 18 March 2019 (Paper Ref.: LC Paper No. CB(2)964/18-19(03)) and the relevant funding application was approved by the FC on 22 November 2019 at an estimated cost of \$104.0 million in MOD prices covering site investigations, minor studies and associated service diversion and minor alteration works in the LKB, and consultancy services for outline sketch design, detailed design as well as tender documentation and assessment for the whole project. The preparatory works commenced in December 2019.
- 9. The site formation and foundation works of the project were deliberated at the Panel on 12 March 2021 (Paper Ref.: LC Paper No. CB(4)600/20-21(07)) and the relevant funding application was approved by the FC on 11 June 2021 at an estimated cost of \$408.4 million in MOD prices. The scope mainly covered site formation works; foundation works for the new extension block; enabling works for basement; diversion of underground utilities, installation of new sewer pipe along Lai Kong Street, provision of temporary transformer and generator set, and reprovision of the vacuum insulated evaporator tank; and consultancy services for contract administration and site supervision. The works commenced in August 2021 and are in progress. Upon the completion of the expansion project, we aim to provide 572 additional beds in the LKB. The LKB will remain functional at all times during the works period and any disruption of services, if unavoidable, will be kept to a minimum.

#### **Public Consultation**

10. The HA consulted the Kwai Tsing District Council (K&TDC) on 8 November 2022 in respect of the LKB expansion project. Members of the K&TDC in general supported the proposed project.



工地平面圖 SITE PLAN

瑪嘉烈醫院荔景大樓擴建計劃

EXPANSION OF LAI KING BUILDING IN PRINCESS MARGARET HOSPITAL

# 附件 2 附錄 2 ANNEX 2 TO ENCLOSURE 2



從西南面荔崗街望向新擴建大樓的構思透視圖

#### PERSPECTIVE VIEW OF NEW EXTENSION BLOCK FROM SOUTHWEST DIRECTION AT LAI KONG STREET

構思圖

ARTIST'S IMPRESSION

114MH

瑪嘉烈醫院荔景大樓擴建計劃

EXPANSION OF LAI KING BUILDING IN PRINCESS MARGARET HOSPITAL

#### Redevelopment of Kwong Wah Hospital, phase 2

#### **Proposed Project Scope and Timeline**

We propose to carry out the main works of the redevelopment project of Kwong Wah Hospital (KWH), phase 2, which mainly comprise demolition, foundation, superstructure and associated works as follows –

- (a) demolition of all the existing hospital buildings except Tung Wah Group of Hospitals (TWGHs) Tsui Tsin Tong Outpatient Building (TTT OPB) and Tung Wah Museum (TWM);
- (b) construction of phase 2 of the new hospital complex;
- (c) protection works for TWM;
- (d) landscaping and road works;
- (e) alteration and addition (A&A) of TTT OPB and phase 1 of the new hospital complex<sup>1</sup>; and
- (f) consultancy services for contract administration and site supervision.
- 2. We plan to seek funding approval from the Finance Committee (FC) to upgrade the proposed project to Category A in the current legislative session. The estimated cost of the proposed project is \$9,979.8 million in money-of-the-day (MOD) prices, of which \$9,883.8 million will be met by government commitment and the remaining \$96.0 million by the TWGHs, the parent organisation of the KWH. The Hospital Authority (HA) invited tenders for the proposed works in January 2023. We plan to award the contract to the successful tenderer and commence the proposed works, upon obtaining funding approval from the FC and completion of the move-in to phase 1 of the new hospital complex, for target completion in about six and a half years. The A&A works of TTT OPB and phase 1 of the new hospital complex will commence upon

To ensure uninterrupted hospital services during the construction of phase 2 of the new hospital complex, part of the essential services will be maintained in operation in phase 1 of the new hospital complex via interim provision. A&A works to the affected areas of phase 1 of the new hospital complex will therefore be required after completion of phase 2 of the new hospital complex.

completion of the new building and decanting to match the commissioning programme.

3. A site and location plan showing the location of the proposed main works and an artist's impression for the project are at **Annexes 1 and 2 to Enclosure 3** respectively.

#### **Background and Justifications**

- 4. Established in 1911 by the TWGHs, the KWH is an acute hospital offering a comprehensive range of acute care services in the Kowloon Central Cluster (KCC) of the HA.
- 5. The majority of the KWH buildings were built over 50 years ago, with outdated building services installations, deteriorating structural conditions and inadequate space provision for meeting present-day service demand. In 2021-22, there were around 81 800 in-patient and day in-patient discharges and deaths, and around 331 960 specialist outpatient (clinical) attendances at the KWH, accounting for 4.7% and 4.2% respectively of that for all HA hospitals. The extremely heavy utilisation has accelerated deterioration of its facilities. The combined population of Kowloon City, Yau Tsim Mong (YTM) and Wong Tai Sin districts is projected to increase from 1 174 900 in 2022 to 1 185 200 in 2029, among which elderly of 65 years old or above will rise from 244 200 in 2022 to 331 700 in 2029, representing an increase of 36%<sup>2</sup>.
- 6. To ensure the development of an appropriately balanced healthcare system, HA proposes to redevelop the KWH for meeting modern modes of healthcare service delivery, improving space standards and layout of the hospital and upgrading building facilities. Such improvements will enhance the operational efficiency of the hospital and provide a comfortable, patient-oriented environment with adequate capacity and capability to deliver holistic and seamless services to the general public.
- 7. According to the Clinical Services Plan for the KCC formulated in 2016, the KWH will provide acute medical services and specialist care for the community, especially for residents in YTM District. Hospitals and institutions in the KCC will adopt a collaborative approach to ensure comprehensive care and

According to the report of "Projections of Population Distribution 2021-2029" compiled by the Planning Department.

enhance service linkage for patients from various districts in the Cluster. Under the service network arrangement, acute services for the KCC will be provided by the New Acute Hospital (NAH) at Kai Tak Development Area and by the KWH. The acute hospitals in the KCC will be supported by the extended care hospitals nearby to enhance the continuity of care for patients within the respective catchment districts. In particular, Our Lady of Maryknoll Hospital, TWGHs Wong Tai Sin Hospital and Hong Kong Buddhist Hospital will form a service network with the NAH while Kowloon Hospital will provide convalescent and rehabilitation services for patients transferred from the KWH.

8. A comprehensive redevelopment of the KWH can augment the role of the KWH as an acute hospital providing a full range of in-patient and ambulatory care services. The redevelopment project is planned to embrace the philosophy of ambulatory care as a new model of service delivery. Ambulatory care services will be delivered among different clinical specialties in a patient oriented setting with a view to reducing the need for hospitalisation. New medical oncology services including front-line management, consultation services and chemotherapy programmes will be provided in the ambulatory care centre. Other services including clinical pathology, allied health, business support and staff facilities will also be enhanced and expanded. The redeveloped KWH will also accommodate the reprovisioned facilities of Chinese Medicine services and preventive care services currently run by the TWGHs, including its integrated Chinese and western medicine in-patient accommodation with over 50 self-financed beds.

# Proposed Redevelopment of the KWH

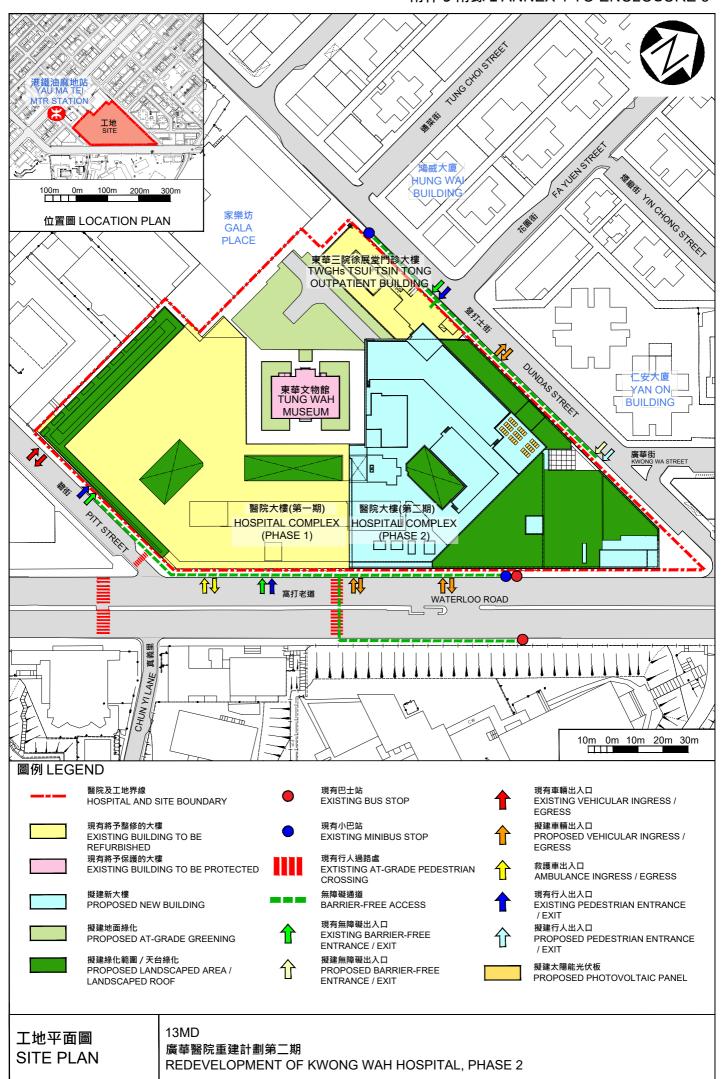
9. The proposed redevelopment project is being implemented in four works stages, namely (a) preparatory works; (b) demolition and substructure works for phase 1; (c) superstructure and associated works for phase 1; and (d) main works for phase 2 (as mentioned in paragraph 1 above). The preparatory works of the project were deliberated at the Panel on 11 June 2012 (Paper Ref.: LC Paper No. CB(2)2279/11-12(03)) and the relevant funding application was approved by the FC on 8 February 2013 at an estimated cost of \$552.7 million in MOD prices covering site investigation, building survey, decanting works as well as consultancy services for outline sketch design, detailed design, tender documentation and tender assessment for the main works. The preparatory works commenced in March 2013. The demolition and substructure works for phase 1 of the project were deliberated at the Panel on 15 February 2016 (Paper Ref.: LC Paper No. CB(2)836/15-16(05)) and the relevant funding application was approved by the FC on 29 April 2016 at an estimated cost of \$654.8 million in

MOD prices covering demolition, foundation works, and excavation and lateral support works for phase 1. The works commenced in June 2016 and was completed in May 2019.

- 10. The superstructure and associated works for phase 1 of the project were deliberated at the Panel on 19 March 2018 (Paper Ref.: LC Paper No. CB(2)1022/17-18(05)) and the relevant funding application was approved by the FC on 18 May 2018 at an estimated cost of \$10,049.3 million in MOD prices. The scope mainly covered construction of the first phase of a new hospital complex, provision of associated external and landscaping works, and consultancy services for contract administration and site supervision. The works commenced in May 2019 and was completed in December 2022. Upon the completion of the redevelopment project, we aim to provide 520 additional beds (including six haemodialysis day beds) and ten additional operating theatres. The annual capacity for specialist outpatient clinic attendances will also be increased by 255 600. The KWH will remain functional at all times during the works period and any disruption of services, if unavoidable, will be kept to a minimum.
- 11. With a view to improving pedestrian connectivity to public hospitals, the Government will continue to take forward the proposed pedestrian connectivity project from the Yau Ma Tei MTR station to the KWH.

#### **Public Consultation**

12. The HA consulted the Yau Tsim Mong District Council (YTMDC) on 31 January 2023 in respect of the project. Members of the YTMDC in general supported the proposed project.





從窩打老道望向廣華醫院的構思透視圖

PERSPECTIVE VIEW OF KWONG WAH HOSPITAL FROM WATERLOO ROAD

構思圖

ARTIST'S IMPRESSION

13MD

廣華醫院重建計劃第二期

REDEVELOPMENT OF KWONG WAH HOSPITAL, PHASE 2