

## ***Annex C***

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### **Replacement Pages of Preliminary Geotechnical Appraisal and Foundation Proposal**

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# FOUNDATION PROPOSAL

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**PROPOSED REDEVELOPMENT OF POK OI HOSPITAL YEUNG  
CHUN PUI CARE AND ATTENTION HOME**

**AT**

**YUEN LONG, HONG KONG**

Revision: -

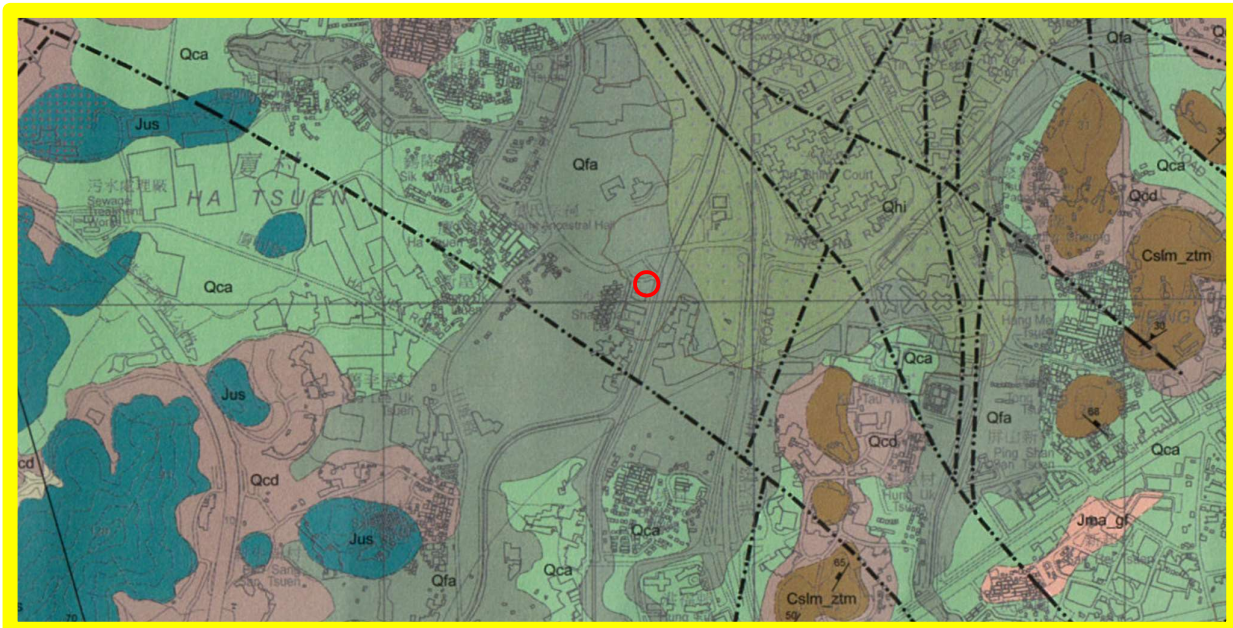
## 2.2 Geological Map

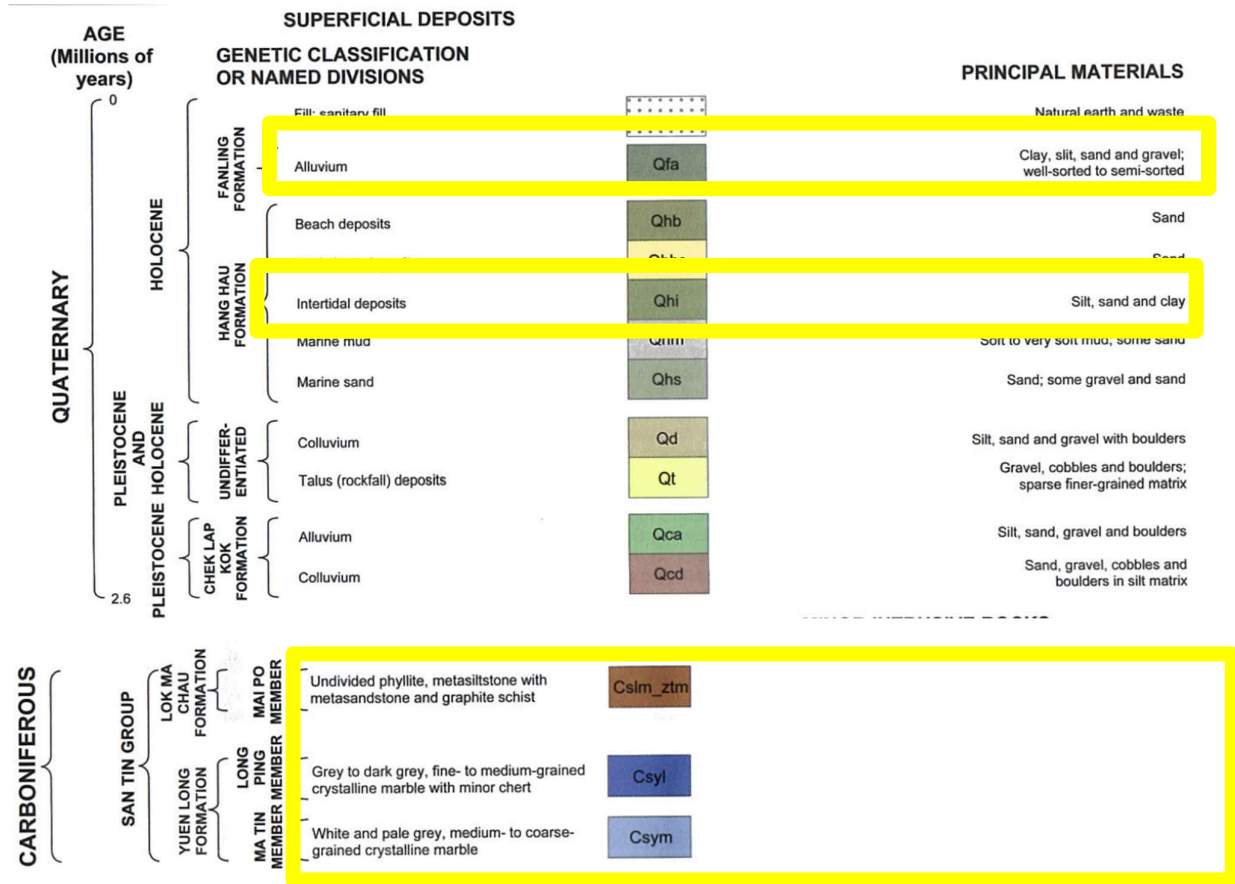
According to the 1:20,000 scale HGM20 Series Solid and Superficial Geology Map Sheet 06 published by the Geotechnical Engineering Office (Edition II – 2019), the site is underlain by Alluvium comprising well-sorted to semi-sorted clay/silt, sand and gravel during the

Pleistocene and Holocene epoch of the Quaternary era from Fanling Formation. There is also intertidal deposits of silt, sand and clay from Hang Hau formation in Holocene Era can also be found at the superficial deposits.

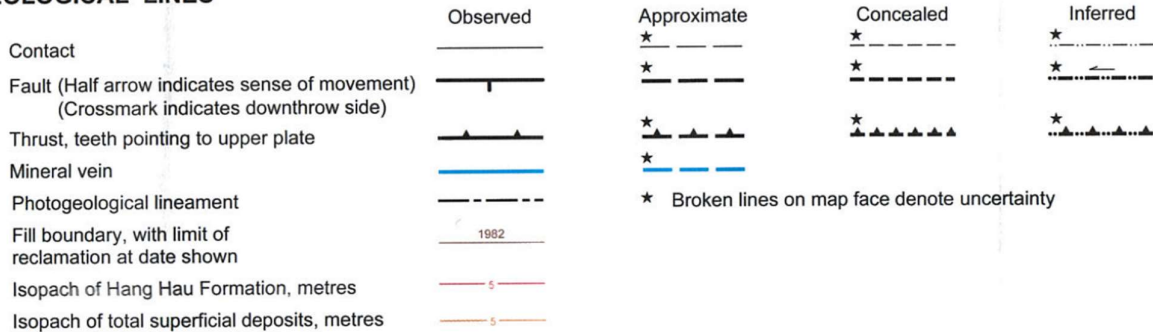
From the solid geology, it is observed that the site is underlain by undivided phyllite, metasiltstone with metasandstone and graphite schist under Mai Po Member of the Lok Ma Chau Formation in San Tin Group. The same is also underlain by grey to dark grey, fine- to medium-grained crystalline marble with minor chert and white and pale grey, medium to coarse-grained crystalline marble. They are originated from the Long Ping Member and Ma Tin Member from Yuen Long Formation of San Tin Group in Carboniferous Era. The site is also surrounded by fault in both NE and NW direction with dip angle of around 40-50 degree.

Detail of the geological map refers to **Appendix A**.

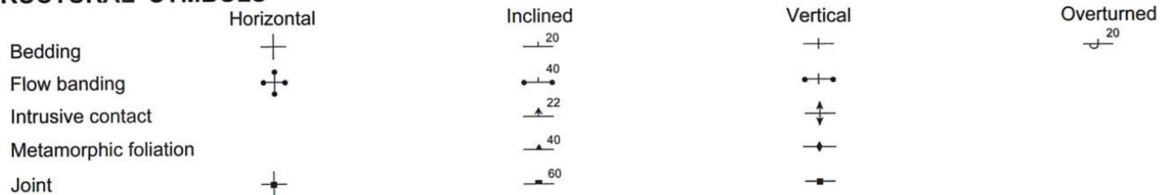




**GEOLOGICAL LINES**



**STRUCTURAL SYMBOLS**



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## 2.2 Schedule Area 2

According to PNAP APP-30, certain Mid-levels area has been designated as Area Number 1 of the Scheduled Areas (Scheduled Area No. 1) in Schedule 5 to the Buildings Ordinance (BO). The site is at mid-levels area and thus falls within Scheduled Area No. 1 as shown in figure below. The plan is attached in **Appendix B**.

According to the GEO publication HGM20 Sheet 6 Edition II - 2019, the site is underlain by marble clast-bearing rocks (grey to dark grey, fine- to medium grained crystalline marble with minor chert and white and pale grey, medium- to coarse-grained crystalline marble) of the Tuen Mun Formation.

According to PANP APP-61, attention should be given to logging the location and size of the cavities, the nature of the cavity wall and the infill, together with rock discontinuities. Fracture indices including total core recovery, solid core recovery, rock quality designation and fracture index should be shown on the drill logs.

The depths of drillholes should be determined by considering the depth of marble bedrock and the magnitude of the load to be applied by the structure. If marble is encountered, a minimum penetration of 20 m into sound marble rock is recommended in order to reduce the risk of existing cavities not being identified.

