
Attachment 6 –

Revised Geotechnical Statement

**Geotechnical Statement to support the Section 16 Planning Application for
Minor Relaxation of Plot Ratio at No. 4-4C Tai Hang Road, Hong Kong**

The owner intends to increase the plot ratio from 5 to 5.687. The foundation system is proposed to be raft footing.

The effect of increase in plot ratio is negligible to the features and existing ground anchors as the excavation area remains unchanged. (The Appendix shows the geotechnical considerations for the features and existing ground anchor.)

Therefore the proposed change is considered acceptable from geotechnical engineering point of view.

Existing Ground Conditions:

The site is underlain by medium grained granite as indicated in Geological Map Sheet 11. Ground investigation records suggested the soil present is mostly in-situ, ranging from about 4m to over 20m thick completely decomposed granite. No special geological features that require engineering treatment were identified.

Excavation and lateral support works:

The proposed excavation involves the installation of soldier piles, pipe piles, temporary struts and pre-stressed ground anchor to facilitate the construction of the proposed raft footing works within the site.

The existing ground level varies from +46 mPD near the green hatched black area to +22 mPD near Tai Hang Road throughout the site. The proposed final excavation level is at +19.0 mPD. Thus, the maximum retained height is about 27 m.

The proposed excavation works will have negligible impact to the adjacent building, Jolly Villa which is supported by caisson piles on rock. Stringent settlement control was included to ensure the utility settlement falls within acceptable range.

The latest ELS plan was approved on 4 June 2026.

Foundation Works:

According to the revised layout plan, 2.5m thick. Raft Footing Foundation is proposed, found on Category 3 Intermediate Soil or better, with SPT N-Value ≥ 200 .

The proposed foundation works will lead to a slight increase in loading at the caisson piles for Jolly Villa, which have been duly considered in the design. The as-built record of caisson piles was checked and the capacity of the piles is sufficient to cater for such increase.

The latest foundation plan was approved on 16 July 2026.

Site Formation Works:

The proposed site formation works within site comprises:

- a. Soil nails installation at Green Hatched Black Area and adjoining natural terrain.
- b. Mass concrete filling with dowel bars at existing ground anchor extent
- c. Installation of catchpit, stepped channel, down pipe and pipeline

The proposed site formation will incorporate slope improvement works with slope nails and mass concrete, which will be beneficial to the overall safety of Tai Hang Road and nearby buildings

The latest site formation plan was approved on 17 June 2026.

The latest site formation (Natural Terrain Zone) plan was approved on 17 June 2026.

Impact to geotechnical features:

11SE-A/CR109 & 11SE-A/C463 subdivision 1

The upgrading slope works are proposed with installation of soil nails and provision of surface channel. The slopes will be upgraded to meet the current safety standard.

Existing Ground Anchor

Existing ground anchor would be strictly monitored during construction works to ensure slope safety. The slope will be upgraded with mass concrete and dowel bars in permanent stage.

11SE-A/CR106, 11SE-A/C463 , 11SE-A/R201

These features are outside the site boundary and will be separated from the excavation works with pipe pile walls during excavation. The impacts to the overall stability due to the proposed development are negligible.

Natural Terrain

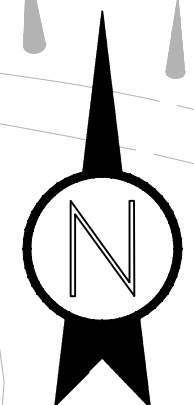
The Natural Terrain concerned is located at the southwest of the site and between Trafalgar Court and Feature No. 11SE-A/CR109. The area ranges from +55mPD to +75mPD near Tai Hang Road. The natural terrain hazard assessment was conducted and existing conditions cannot meet the current slope safety standard. Installation of soil nails and provision of surface channel will be conducted as the natural terrain hazard mitigation measure to meet the current slope safety standard.

Unregistered Retaining Wall A (Within the lot Site Boundary)

The unregistered RC retaining wall is located at the east side of the site and within the site boundary. It is right next to Jolly Villa and there is no soil to be retained after the construction of the proposed building. It is proposed to demolish this retaining wall.

Unregistered Retaining Wall B (Within the lot Site Boundary)

The unregistered masonry retaining wall is located at the west side of the site and within the site boundary. It is proposed to remove this retaining wall and the level difference would be supported by the proposed building.



Unregistered retaining wall
B

Existing Ground Anchor

Natural
Terrain

11SE-A/CR109

R(B) Zone

Unregistered retaining wall
A

11SE-A/FR106

11SE-A/R217

11SE-A/R201

11SE-A/C463

11SE-A/CR858

11SE-A/CR107

11SE-A/DT12

11SE-A/CR106

11SE-A/CR854

11SE-A/F107

11SE-A/CR409

Trafalgar Court

TAI HANG ROAD

Jolly Villa

Podium

Podium

ESS