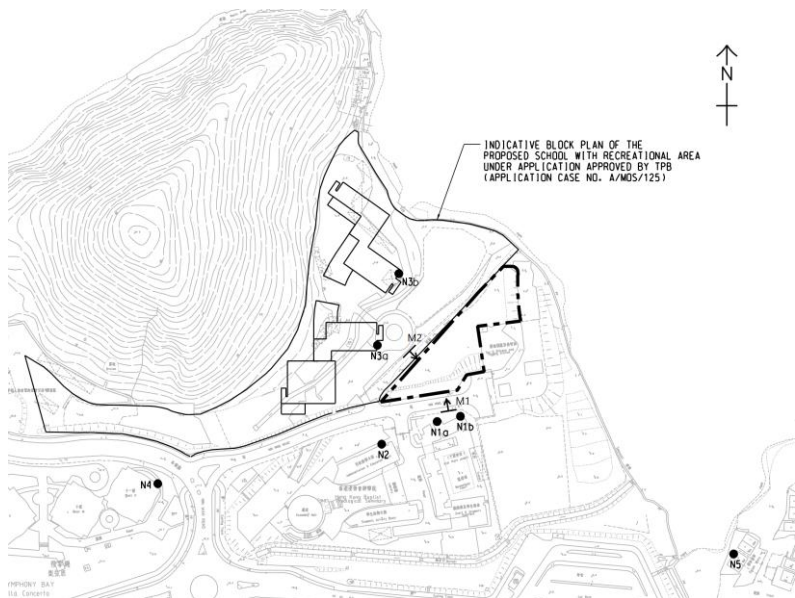


Appendix 4.1 Determination of Fixed Plant Noise Criteria

i. Measurement Results for Prevailing Background Noise Levels

Locations of Prevailing Background Noise Measurement (M1 & M2)



Background Noise Survey Summary

Measurement Locations	Measurement Date	Time Period	Duration	Measurement Method
M1	24 Oct 2020 (Sat), 27 Oct 2020 (Tue)	Normal Working Day	Continuous 24 hours	Free-field
	25 Oct 2020 (Sun), 26 Oct 2020 (Mon)	Sunday / Public Holiday		
M2	24 Oct 2020 (Sat), 27 Oct 2020 (Tue)	Normal Working Day	Continuous 24 hours	Free-field
	25 Oct 2020 (Sun), 26 Oct 2020 (Mon)	Sunday / Public Holiday		

Background Noise Measurement Results

Measurement Location	Description	Time period	Dominant Noise Source	Measured Noise Levels ^{[1][2][3]}	
				L ₉₀ (1 hour), dB(A)	L _{eq} (30 min), dB(A)
M1	Hong Kong Baptist Theological Seminary (HKBTS) Staff & Students Quarters	Daytime (0700 - 1900 hours)	Noise from nearby construction works on normal working day and vehicles along Nin Ming Road.	44 - 63 (44)	53 - 81 (53)
		Evening (1900 - 2300 hours)			
		Night-time (2300 - 0700 hours)			
M2	Proposed School with Recreational Area under the Approved Planning Application No. A/MOS/125	Daytime (0700 - 1900 hours)	The existing noise climate of the Study Area was quiet and no major noise source was identified.	42 - 58 (42)	44 - 73 (44)
		Evening (1900 - 2300 hours)			
		Night-time (2300 - 0700 hours)			

Note:

[1] Figure in bracket is the minimum noise level measured during the respective time period.

[2] L₉₀(1 hour) is used as a measure of the background noise level.

[3] As the measurements were conducted in free-field condition, +2.5 dB(A) have been added to the measured noise levels to represent the measurement at 1m from a building façade.

Appendix 4.1 Determination of Fixed Plant Noise Criteria

ii. Fixed Plant Noise Criteria Adopted

NSR ID	Description	Type of Area Containing the Representative NSR	Area Sensitivity Rating	Time Period ^[1]	Planning Criteria (ANL-5), dB(A)	Fixed Plant Noise Criteria Adopted ^[2] , dB(A)
N1a	Hong Kong Baptist Theological Seminary (HKBTS) Staff & Students Quarters	Area other than urban, rural or low density residential area	B	Daytime & Evening	60	44
N1b				Night-time	50	41
N2 ^[3]	HKBTS Administration and Education Block	Area other than urban, rural or low density residential area	B	Daytime & Evening	60	44
				Night-time	N/A ^[4]	N/A ^[4]
N3a	Proposed School with Recreational Area under the Approved Planning Application No. A/MOS/125	Area other than urban, rural or low density residential area	B	Daytime & Evening	60	42
N3b				Night-time	N/A ^[4]	N/A ^[4]
N4 ^[3]	Symphony Bay, Block 11	Low density residential area consisting of low-rise or isolated high-rise developments	A	Daytime & Evening	55	44
				Night-time	45	41
N5 ^[3]	Zessa Vista	Rural area, including country parks or village type developments	A	Daytime & Evening	55	44
				Night-time	45	41

Notes:

- [1] Daytime refers to 0700 to 1900 hours, while evening refers to 1900 to 2300 hours, and night-time refers to 2300 to 0700 hours.
- [2] The minimum background noise levels (in $L_{90(1\text{ hour})}$ measured in free-field condition) with the addition of +2.5 dB(A) façade correction are adopted as fixed plant noise criteria as they are lower than the ANL-5 dB(A) planning criteria .
- [3] Considering that the environment of N2, N4 and N5 is similar to N1a & N1b, the background noise levels for daytime, evening and night-time measured at N1a & N1b (measurement location M1) are adopted to represent the background noise levels of N2, N4 and N5.
- [4] It is assumed that there would be no night-time activities (2300 to 0700) for education institutes. Only the noise criteria for day-time / evening (0700 to 2300 hrs) are adopted for education institutes.