Retrofitting of Noise Barriers on Long Tin Road and Ma Wang Road – Investigation, Design and Construction

ANEWR
Environmental & I.T. Consultants

CLIENT: MANNINGS (ASIA) CONSULTANTS LIMITED

LOCATION: HONG KONG

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TAGS: RETROFITTING NOISE BARRIERS, HONG KONG PLANNING STANDARDS & GUIDELINES, DIRECT NOISE MITIGATION MEASURES, LONG TIN ROAD, MA WANG ROAD, BENEFITED UNITS, PROTECTED UNITS

USE OF TECHNOLOGY: CALCULATION OF ROAD TRAFFIC NOISE

Background

To address the noise impact of existing roads on residents, on 14 November 2000 the Executive Council endorsed a policy to adopt direct noise mitigation measures at roads where noise level exceeds the standard of 70dB(A) L10(1 hour) as stipulated in the Hong Kong Planning Standards and Guidelines (HKPSG). Since the introduction of the policy, the Environmental Protection Department (EPD) has been regularly reviewing the need for and feasibility of retrofitting noise barriers on suitable existing road sections. Long Tin Road and Ma Wang Road are two of the existing road sections in need of direct noise mitigation measures to protect residents of Park Royale, Parkside Villa, Scenic Garden and Shui Pin Wai Estate.

Our Roles

ANewR is engaged to carry out the preliminary environmental review (PER) and provide inputs for option assessment. In particular, operational noise impact was assessed with the methodology of "Calculation of Road Traffic Noise" to facilitate the optimisation of layouts of the noise barriers and to maximize the number of the benefited units and protected units nearby the concerned road sections. The environmental acceptability of the proposed project is also determined with reference to the relevant ordinances and guidelines.

Key Values to Client

ANewR provides viable options of direct noise mitigation measures for the project proponent to address the operational noise impact of existing roads on residents. We closely liaise with the government authorities in seeking consensus on the assessment approach and methodology. Besides, all potential construction and operational impacts for noise, air quality, water quality, waste management, ecology and landscape and visual aspects are fully identified and assessed. Practicable mitigation measures and monitoring mechanism are recommended. Our proficient experience helps the client to complete their task effectively.