Integral dx
ENGINEERING LTD.

23 January 2012

Richcraft Group of Companies
2280 St. Laurent Boulevard
Ottawa, Ontario
K1G 4K1

Attention: Mr. Phil Castro, MCIP, RPP

Dear Sir,
Vibration Impact Study: 250 Parkdale and Scott Mixed-Use Tower

This letter is intended to address the requirement for a Vibration Impact Study for the proposed mixed-use tower, located at 250 Parkdale Avenue and Scott Street. The tower will include several residences, and, because of the development's proximity to the proposed Light Rail Transit (LRT) line, a Vibration Impact Study is required per the City of Ottawa's Environmental Noise Control Guidelines.

On a practical level, there are several existing buildings near the site that would also be affected by increased vibration levels from the LRT line, and so the new line will be required to not exceed levels of vibration criteria for these existing residences.

In a study prepared by Gradient Microclimate Engineering Inc. (GME) for the City, an analysis of vibration produced by the proposed LRT line concluded that it would be necessary for the LRT design to incorporate considerations to minimize vibration levels at existing buildings. 250 Parkdale was included as an assessment location, and the study predicted vibration levels of 61 dBV (ref. 1 micro-inch/second) with implementation of design features to minimize vibration. For residential developments, vibration of up to 70 dBV are generally considered acceptable. The predicted level of 61 dBV is far below the threshold of human perception, as well as levels where vibrations can be expected to cause damage to buildings.

This illustrates that vibration levels from the LRT line will not adversely affect the building or occupants at 250 Parkdale Avenue. We believe that no further analysis is required.

The GME report referenced above, titled "Air Quality, Noise, and Vibration Impact Study – City of Ottawa: Environmental Assessment Downtown Ottawa Transit Tunnel", and dated 28 May, 2011, can be found at the following internet address:
http://www.ottawalightrail.ca/media/pdf/Appendix%20E_8MB.pdf

Yours truly,

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