April 1, 2022

Fotenn Planning and Design
396 Cooper Street, Suite 300
Ottawa, ON K2P 2H7

Attn: Jacob Bolduc
bolduc@fotenn.com

Dear Mr. Bolduc:

Re: Pedestrian Level Wind Study Memorandum
398-406 Roosevelt Avenue, Ottawa
City of Ottawa File No. D07-12-17-0171
Gradient Wind File 17-179

Gradient Wind Engineering Inc. (Gradient Wind) completed a pedestrian level wind (PLW) study for the original six-storey design of the proposed residential development located at 398-406 Roosevelt Avenue in Ottawa, Ontario based on computer simulations using the computational fluid dynamics (CFD) technique[1]. The 2022 proposal[2] also includes a single six-storey building.

Wind conditions for the original architectural design within the surrounding the subject site were predicted to be suitable for sitting during the summer, becoming suitable for a mix of sitting and stranding during the autumn, winter, and spring. These conditions are considered acceptable according to the City of Ottawa wind comfort criteria. Additionally, no dangerous wind speeds are predicted to occur across the subject site. Since the original PLW study is representative of the current site massing, additional simulations to confirm wind conditions for the current architectural design are not recommended.

Sincerely,

Gradient Wind Engineering Inc.

LICENSED PROFESSIONAL ENGINEER
J. D. FERRARO
100158495
Apr 1, 2022
PROVINCE OF ONTARIO

Justin Ferraro, P.Eng., Principal

[1] Gradient Wind Engineering Inc., '*Pedestrian Level Wind Study – 398, 402, 406 Roosevelt Avenue*', [Mar 29, 2018]
[2] RLA Architecture, '398-406 Roosevelt Ave. – *Issued for SPC RND 01 Comments*', [Mar 18, 2022]