

# GRADIENTWIND

ENGINEERS & SCIENTISTS

June 11, 2024

ML Westboro Inc.  
651 Churchill Avenue North  
Ottawa, ON K1Z 5G2

Attn: Peter Smale, Principal  
[psmale@mldevco.ca](mailto:psmale@mldevco.ca)

Dear Mr. Smale:

Re: Pedestrian Level Wind Study Addendum  
398-406 Roosevelt Avenue, Ottawa  
Gradient Wind File 17-179

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Gradient Wind Engineering Inc. (Gradient Wind) completed a pedestrian level wind (PLW) study in March 2018<sup>1</sup> for the proposed development located at 398-406 Roosevelt Avenue in Ottawa, Ontario based on computer simulations using the computational fluid dynamics (CFD) technique, followed by a memorandum to the 2018 study that was provided in April 2022<sup>2</sup>. The current architectural drawings, which were distributed to the consultant team in February 2024<sup>3</sup> comprise a similar six-storey residential building. Notably, the covered driveway to the rear of the building has been removed, and an exterior amenity has been added at the southwest corner of the proposed development.

The March 2018 study concluded that all pedestrian-sensitive grade-level areas within and surrounding the proposed development were predicted to experience conditions considered acceptable for the intended pedestrian uses throughout the year, inclusive of the surrounding sidewalks, walkways, building access points, and parking areas. Specifically, conditions within and surrounding the subject site were predicted to be suitable for sitting during the summer, and suitable for a mix of sitting and standing throughout the autumn, winter, and spring.

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<sup>1</sup> Gradient Wind Engineering Inc., 'Pedestrian Level Wind Study – 398, 402, 406 Roosevelt Avenue', [Mar 29, 2018]

<sup>2</sup> Gradient Wind Engineering Inc., 'Pedestrian Level Wind Study Memorandum, 398-406 Roosevelt Avenue, Ottawa', [Apr 1, 2022]

<sup>3</sup> RLA Architecture, 'The Westmount, 398-406 Roosevelt Avenue, Issued for Revised Design', [Feb 22, 2024]

The 2018 architectural design and the current site massing are considered to be mostly similar, and as such, the results and recommendations of the original PLW study are considered to be representative of the current site massing. Additional testing to confirm the wind conditions for the current architectural design are not recommended.

Regarding the outdoor amenity patio at the southwest corner, wind conditions during the summer season and the shoulder months are expected to be suitable for sitting, which is considered acceptable.

Sincerely,

***Gradient Wind Engineering Inc.***



Justin Ferraro, P.Eng.  
Principal

