August 7, 2020

Barrie Lakeshore Developments
3200 Highway 7
Vaughan, Ontario L4K 5Z5

Re: Addendum to Pedestrian Level Wind Study
51, 53, 55 &75 Bradford St. and
20 Checkley St., Barrie
GW File No.: 19-214-WTPLW

Gradient Wind Engineering Inc. previously completed a detailed pedestrian level wind study for the proposed development located at 51, 53, 55 & 75 Bradford Street and 20 Checkley Street in Barrie, Ontario. This letter provides a summary of significant architectural changes to the site design which have been made since the study was performed, as well as the anticipated impact of those changes on the predicted pedestrian wind conditions. For a complete summary of the methodology and results of the original pedestrian wind study, please refer to GW report #19-214-WTPLW, dated December 17, 2019.

Overall, the revised tower and podium configurations retain a similar overall design to the tested configuration. Notable changes include Tower 1 at the east side of the site (previously referred to as Tower 4) increased from 22 storeys to 25 storeys, and the podium increased from four storeys to six storeys with a large canopy and the second floor overhang at the southeast corner. Tower 2 at the northwest corner of the site (previously referred to as Tower 3) has reduced from 42 storeys to 39 storeys, and Tower 3 at the centre of the west side (previously referred to as Tower 2) has increased from 40 storeys and 46 storeys. The podium for Towers 2 and 3 has increased from 5 storeys to 6 storeys, with the north segment now separated from the south, bisected by a future driveway. Tower 4 at the southwest corner of the site (previously referred to as Tower 1) has reduced from 38 storeys to 36 storeys. At the ground level, the building footprints and overall layout remains similar to the tested configuration, with most changes occurring with the interior layouts.

With respect to pedestrian wind comfort, the revised tower and podia heights are expected to result in marginally windier conditions over grade level areas surrounding the site as well as on the various podium

roof terraces. Overall, the mitigation recommendations outlined in our original report remain applicable to the updated site design.

Please advise the undersigned of any questions or concerns.

Sincerely,

Gradient Wind Engineering Inc.

Andrew Sliasas, M.A.Sc., P.Eng.,
Principal