

April 9, 2019

BEL 216450

Pickering Harbour Company Ltd.
c/o Ms. Melinda Holland
The Biglieri Group
20 Leslie Street, Suite 121
Toronto, ON M4M 3L4

via email: mholland@thebiglierigroup.com

**Re: Bird Strike Mitigation Measures
591 Liverpool Road in the City of Pickering, the Regional Municipality of Durham**

Dear Ms. Holland:

The Toronto Green Standard (2014) and the Bird Friendly Development Guidelines (2007), prepared by the City of Toronto, have been referenced with regards to Bird Strike Mitigation Measures. The guidelines include architectural design measures that specifically address glass and light reflectiveness, some elements will be incorporated into the building design.

Best practices that can be included into the architectural design of the proposed development based on the Toronto Green Standard Guidelines include:

- Limit window surface area to 25-40 percent relative to the entire facade (low window to wall ratio) can reduce fatal bird collisions.
- Elimination of potential fly-through conditions, i.e. no glass bridges and walkways, outdoor railings, free-standing glass architectural elements.
- Inclusion of balconies and awnings can both add visual cues for birds to avoid the building.
- Incorporation of netting, screens, grilles, shutters and exterior shades are commonly used elements that can make glass more visible for birds.
- Inclusion of visual markers on windows spaced at a maximum of 10 cm apart.
- Use of opaque, etched, stained, and frosted glass, as well as glass block are excellent options to reduce or eliminate collisions. Reflective and mirrored glass is not recommended.

These standards are typically assessed at the Site Plan Approval stage once detailed building design has been prepared by the project architect. Beacon Environmental recommends that these Guidelines are reviewed and considered at the Site Plan Approval stage.

Should you have any questions or points for discussion, please do not hesitate to contact me at (905) 201-7622 ext. 226.

Yours truly,
Beacon Environmental



Kristi L. Quinn, B.E.S
Principal, Senior Environmental Planner