



re: Geotechnical Tree Planting Recommendations within 4.5 m Setback
Proposed Residential Development
295 & 355 Deschatelets Avenue - Ottawa, Ontario

to: Regional Group – Ms. Taylor Marquis – tmarquis@regionalgroup.com

date: April 29, 2024

file: PG6948-MEMO.01

Further to your request and authorization, Paterson Group (Paterson) prepared this memo to provide geotechnical recommendations for allowing tree plantings within the 4.5 m setback previously established in the Geotechnical Investigation Report (Paterson Group Report PG6948-1 dated February 1, 2024).

Background Information

Originally, the 4.5 m tree planting setback was recommended for trees at the subject site, provided the conditions in the City of Ottawa’s “Tree Planting in Sensitive Marine Clay Soils – 2017 Guidelines” was met.

However, it is understood that heritage trees and new trees may be located within 4.5 m of the residential buildings which are proposed as part of the development at this site.

Geotechnical Recommendations for Trees within the 4.5 m setback

To accommodate trees within the 4.5 m setback, Paterson recommends one of the following be done:

- Support footings within a horizontal distance of 4.5 m of the trees on lean concrete extending down to a depth of 3.5 m below finished grades. This will essentially lower the underside of footing (USF) elevation to below the depth of influence of the tree roots.

OR

- Install a tree root barrier between the trees and proposed building footings, to a depth of 3.5 m below finished grades, such that the tree roots cannot impact the bearing soils supporting the proposed building footings.

Provided one of these options is employed, trees planted within the 4.5 m setbacks will not cause settlement of the adjacent structures.





We trust that this information satisfies your immediate requirements.

Best Regards,

Paterson Group Inc.

Scott S. Dennis, P.Eng.

