

re: Grading Plan Review
Proposed Commercial Development
480 & 486 Citigate Drive – Ottawa, Ontario

to: RF Ottawa Limited Partnership– **Mr. Julian Nini** – juliann@rosefellow.com

date: October 10, 2023

file: PG6514-MEMO.03

Further to your request and authorization, Paterson Group (Paterson) prepared the current memorandum to provide a review from a geotechnical perspective for the grading and site servicing plans for the proposed residential building at the aforementioned site. This memorandum should be read in conjunction with Paterson Geotechnical Report PG6514 -1 Revision 2 dated October 10, 2023.

Grading Plan Review

Paterson reviewed the following grading plans prepared by Novatech, regarding the aforementioned industrial buildings:

- ❑ Grading Plan – Project No. 119123 – Drawing No. 119123-GR1 – Revision 2 dated October 6, 2023.
- ❑ Grading Plan – Project No. 119123 – Drawing No. 119123-GR2 – Revision 2 dated October 6, 2023

Based on our review of the above noted grading plans, the proposed grade raises within the aforementioned site are within the recommended permissible grade raise of 2.0 m. No exceedances were noted for any area within the subject site. Therefore, the proposed grade raises are generally acceptable from a geotechnical perspective and will not require the use of lightweight fill at this time.

Perimeter footings of heated structures are required to be insulated against the deleterious effects of frost action. A minimum 1.5 m thick soil cover (or insulation equivalent) should be provided in this regard.

Other exterior unheated footings, such as those for isolated exterior piers, footings located below loading docks, and loading dock ramp wing-wall are more prone to deleterious movement associated with frost action than the exterior walls of the proper structure. These footings should be provided with a minimum 2.1 m thick soil cover (or insulation equivalent).



Where footings are founded directly on clean, surface-sounded bedrock with no near-surface cracks or fissures and are approved by Paterson personnel at the time of the excavation, the minimum soil cover, listed above, is not required.

It is recommended that Paterson review the proposed footing and/or insulation details once the final detail design drawings are available for the above noted items prior to construction to ensure the effects of frost action are mitigated appropriately.

We trust that the current submission meets your immediate requirements.

Best Regards,

Paterson Group Inc.

Yashar Ziaeimehr, M.A.Sc.



Maha K. Saleh, P.Eng.

