

memorandum

Grading Plan Review

re: Proposed Apartment Building

3080 Navan Road - Ottawa, Ontario

to: Seymour Pacific Developments (Ontario) Ltd. – Rachel Ricard –

rachel.ricard@seymourpacific.ca

date: April 18, 2023

file: PG6527-MEMO.01

Further to your request and authorization, Paterson Group (Paterson) prepared the current memorandum to provide a Grading and Servicing Plan Review for the proposed development to be located at the aforementioned site. The following memorandum should be read in conjunction with the current Geotechnical Report (Paterson Group Report PG6527-1 Revision 1, dated March 22, 2023).

Grading Plan Review

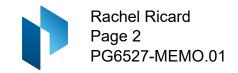
Paterson reviewed the following grading plan prepared by Novatech for the subject site:

☐ Grading Plan – 3080 Navan Road (Rhythm Apartments), City of Ottawa – Project No. 122180 – Drawing No. 122180-GR, dated March 20, 2023.

Geotechnical Review and Recommendations

Based on the grading plans provided, the proposed grading throughout the majority of the subject site is within the permissible grade raise recommendations provided in the aforementioned geotechnical report.

However, in the north corner of the site, grade raise exceedances of up to approximately 0.5 m are currently proposed for the landscaped and hardscaped areas located within 5m of the building footprint. Where these grade raise exceedances are proposed, lightweight fill (LWF) is recommended to mitigate excessive settlement. The attached figure PG6527-Figure 1 – Lightweight Fill Recommendations indicates the approximate LWF locations and thicknesses which are recommended.



The LWF should consist of EPS (expanded polystyrene) geofoam blocks, which allow for raising the grade without adding a significant load to the underlying soils. For this application, EPS Type 15 should be used. It should also be noted that EPS is difficult to use under the groundwater level, as it is buoyant, and it must be protected against potential hydrocarbon spills.

As an alternative to the use of LWF, the areas of the proposed grade raise exceedances could be preloaded to the finished grade, or surcharged, using fill materials. This option, however, would require allowing an extensive period of time for the settlement to occur prior to construction, which may not be compatible with construction timelines. Additional information can be provided if this option is being given consideration.

We trust that this information is satisfactory for your immediate requirements.

Best Regards,

Paterson Group Inc.

Fernanda Carozzi, PhD. Geoph.



David J. Gilbert, P.Eng.

