

memorandum

re: Geotechnical Review of Grading Plans

Proposed Commercial Development 1015 & 1045 Dairy Drive – Ottawa, Ontario

to: TSL-DAIRY Inc. - Mr. Alexander Shafran - ashafran@efforttrust.ca

date: July 2, 2025

file: PG6498-MEMO.03

Further to your request and authorization, Paterson Group (Paterson) prepared the current memorandum to provide a review of the grading plans, from a geotechnical perspective. The current memorandum should be read in conjunction with the updated Geotechnical Investigation Report (Paterson Group Report PG6498-1 Revision 6 dated July 2, 2025).

Grading Plan Review

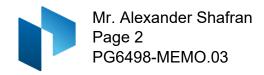
Paterson reviewed the following CAD grading plans prepared by Arcadis for the aforementioned development:

☐ Project No. 142817 – Grading Plan – Dairy Dr Grading, dated June 19, 2025.

Due to the presence of a silty clay deposit at this site, the proposed development will be subjected to grade raise restrictions based on the shear strength and consistency of the underlying silty clay deposit.

In reviewing the Grading Plans, the proposed grading for the subject site is generally within the permissible grade raise recommendations provided in the Geotechnical Investigation Report, referenced above. However, where localized grade raise exceedances have occurred, lightweight fill, such as expanded polystyrene (EPS) geofoam blocks, is recommended for specific areas adjacent to the subject commercial buildings.

The attached Drawing PG6498-7 depicts the locations and the thickness of the lightweight fill (LWF) required based on our grading plan review, and the attached Figure 1 provides a general detail for LWF placement. The EPS blocks should be placed on a level, well-prepared subgrade, with a geotextile separation layer to prevent soil intrusion and to promote drainage. The EPS blocks should be installed in a staggered, interlocking pattern and should be protected with a granular cover layer. The LWF placement should be conducted under the supervision of a geotechnical engineer.



We trust that the current submission meets your immediate requirements.

Best Regards,

Paterson Group Inc.

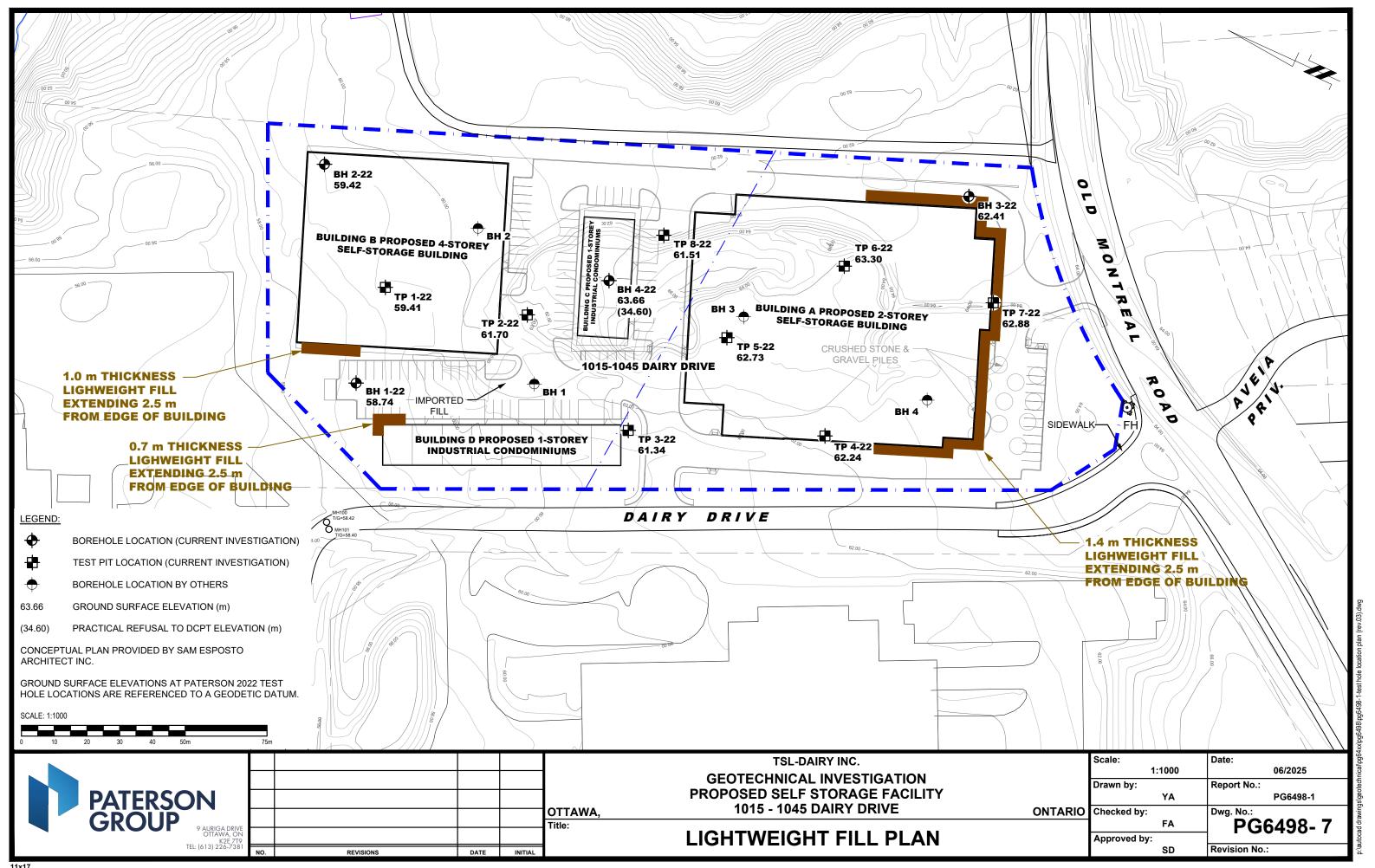
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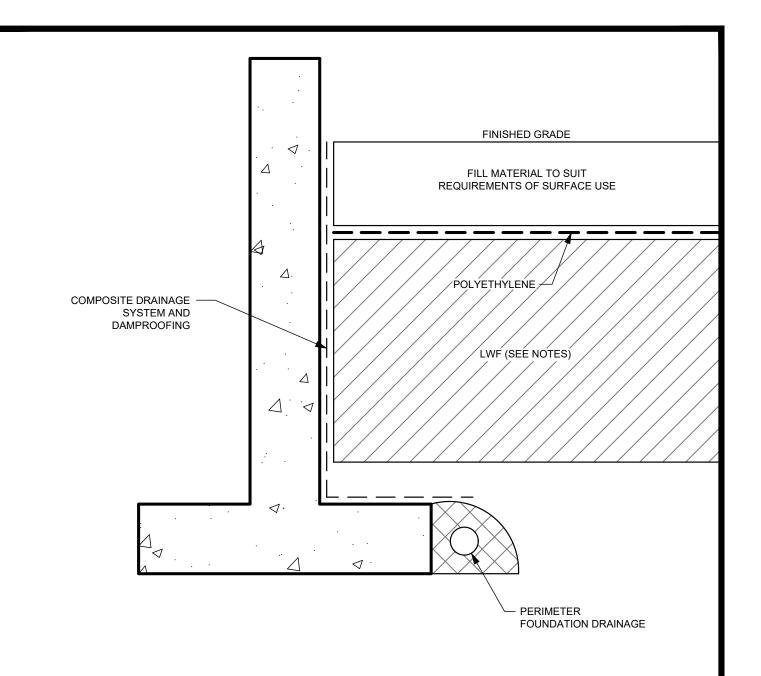


Scott S. Dennis, P.Eng.

Attachments

- ☐ Drawing PG6498-7 Lightweight Fill Plan
- ☐ Figure 1 EPS Block Installation Around Buildings





NOTES:

- 1. USE EPS12 BELOW FRONT PORCH AND LANDSCAPED AREAS
- 2. USE EPS19 BELOW PAVED AREAS
- MINIMUM GRANULAR THICKNESS OVER LWF SHOULD BE AS FOLLOWS:

PAVED AREAS 450mm OF OPSS GRANULAR A LANDSCAPED 500mm OF APPROVED BACKFILL SOIL

 PLACEMENT OF LWF SHOULD BE ON A LEVELED SURFACE (SAND CAN BE USED TO PROVIDE AN ADEQUATE LEVELLING SURFACE).



EPS BLOCK INSTALLATION AROUND BUILDINGS

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