PATERSON GROUP

memorandum

re: **Existing Storm Sewer Review**
Proposed Residential Development – Mer Bleue Expansion Area
Mer Bleue Road – Ottawa, Ontario

to: Claridge – **Victoria St.Pierre** – victoria.st.pierre@claridgehomes.com
date: September 28, 2026
file: PG2236-MEMO.15

Further to your request, Paterson Group (Paterson) has prepared the current memorandum to provide a review of the existing 900 mm storm sewer behind proposed buildings G & F from a geotechnical perspective. This memo should be read in conjunction with Paterson Group report PG2236-3 Revision 7 dated September 28, 2026.

Background

Paterson reviewed the following drawings prepared by Arcadis as part of the current memorandum:

- ❑ Servicing Plan – CRT Block 324 – Project No. 30259740 – Sheet No. C-001 – Revision 2 dated September 23, 2026
- ❑ Grading Plan – CRT Block 324 – Project No. 30259740 – Sheet No. C-200 – Revision 2 dated September 23, 2026

Based on review, it is understood than an existing 900 mm diameter storm sewer is located at the rear of Building 'G' and 'F', proposed as part of the residential development. Paterson reviewed the proximity of the storm sewer and maintenance ability thereof with respect to the construction of the subject buildings from a geotechnical perspective.

Geotechnical Review

Based on the underside of footing elevation for Buildings 'G' and 'F', and the bedrock elevation below the buildings, the lateral support zone (1.5H:1V down and out from the exterior foundation edge) for both building foundations will encounter the bedrock surface between 3.44 and 6.21 m from the edge of the foundation.

Given the distance to the inner edge of the existing sanitary pipe (i.e. closest edge to the proposed buildings) and depth of bedrock, the existing sanitary service pipe will be outside of the lateral support zone for the entire rear length of both Building 'G' and 'F'.

Furthermore, the minimum distance to the inner edge of the pipe beyond the lateral support zone of the buildings is 1.10 m. Therefore, sufficient room for open excavation for pipe maintenance is provided.

Therefore, the existing service pipe can be safely excavated for maintenance without disturbance of the lateral support zone of Building 'G' and Building 'F'.

Service Excavation Recommendations

If pipe maintenance is required, the excavation should not extend beyond 0.6 m inside the service pipe (i.e. between the pipe and the building) at pipe invert level, allowing a minimum 0.5 m buffer to the lateral support zone. The excavation sidewall should not be excavated shallower than 1.5H:1V to avoid disturbing the lateral support zone of the proposed buildings.

We trust that this information meets your immediate requirements.

Best Regards,

Paterson Group Inc.



Owen R. Canton, B.Eng.





David J. Gilbert, P.Eng.