



S. LLEWELLYN & ASSOCIATES LIMITED
CONSULTING ENGINEERS

June 10, 2019
File: 16149

City of Burlington
Development & Stormwater Engineering Capital Works Department
426 Brant Street,
Burlington, ON, L7R 3Z6

Attention: Mr. Joshua Medeiros, C.E.T., Senior Engineering Technologist

RE: 2069-2079 Lakeshore Road & 383-385 Pearl Street
City of Burlington
File #: 520-08/18 & 505-06/18

Further to your comments on the above noted project dated February 13, 2019, we have had the opportunity to review your comments and offer the following response:

Functional Servicing Report

1. The Hydrogeological Investigation mentioned the need to treat the ground water prior to discharge into the storm or sanitary sewers due to total suspended solids. How will this be performed post construction? Provide treatment and connection details. Confirm sump pump location on plan.

During the detailed design stage, an oil grit separator will be sized to provide treatment for the ground water takings before ultimately discharging to the municipal storm sewer along Lakeshore Road.

As this project is currently under the preliminary design stage, a mechanical engineering design has not yet been completed. The sump pump location will be confirmed during the detailed design stage.

2. Will the proposed underground storage tank be constructed with an emergency discharge pipe? If so, please include it in the underground storage tank cross-section detail. The Site Servicing Plan will also need to indicate where the emergency discharge pipe is located and its discharge direction.

The current design shows a manhole at property line which is proposed to contain a catchbasin grate. In the case of an emergency, stormwater will build up to grade and spill out of the manhole structure and sheet drain to Lakeshore Road.

3. CBMH1 is proposed within the sites driving aisle entrance/exit. In the event maintenance is required the entrance will be blocked. Please move CBMH1 outside the driving aisle entrance/exit.

During the detailed design stage, CBMH1 will be shifted west outside of the driving entrance/exit.

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4. The proposed CB Shield proposed within CB1 will not be accepted by Site Engineering staff as an acceptable quality control device. Please replace and confirm the quality criteria provided at the pre-consultation (80% Total Suspended Solid Removal) is achieved.

An oil/grit separator will be proposed during the detailed design stage, which will provide Level 1 quality control for the subject site.

5. Provide a plan which outlines the existing major overland flow route for the subject site. Does the proposed development now re-direct the existing major overland flow routes in new directions? If so, will it impact any of the neighboring properties. Please confirm.

As per the Pre-Development Storm Drainage Area Plan Catchment 101 drains south towards Lakeshore Road and Catchment 102 drains north towards the existing condominium property. Under proposed conditions, the runoff draining to the north (Catchment 203) will be reduced by 60-70%. No neighboring properties will be adversely affected.

Yours truly,

S. LLEWELLYN & ASSOCIATES LIMITED



C. Dougan, Dip. T.



S. Lewellyn, P. Eng