

**FUNCTIONAL SERVICING BRIEF
FOR
MIDTOWN BOWLING
NIAGARA LIMITED
5687 FERRY STREET,
5560 SPRING STREET
NIAGARA FALLS**

Prepared By: DeFilippis Design

Date: May 2022

BACKGROUND

Development consists of one building, 8 stories high. Main floor consists of commercial retail units, apartment administration and lobby and covered parking level. Second storey consists of 6 apartment units and covered parking. Third and fourth storey have 14 apartment units per floor. Fifth to seventh storeys consists of 13 apartment units and 8th floor consists of 4 apartment units.

STORMWATER SERVICING AND MANAGEMENT

Attached find stormwater report by "Lamarre Consulting dated May, 2022.

Stormwater quantity and quality has been controlled in conformance with municipal design parameters as detailed by engineering department.

Stormwater catchment areas have been appointed to existing storm lateral into Ferry Street and Spring Street which after quality control drains to outlet. Detention area and balance of area to a new storm lateral into Ferry Street and Spring Street from controlled on-site storm water detention structure (tank) is into a below grade and through an onsite quality interceptor prior to discharge into the existing storm main.

SANITARY SERVICING

There are sanitary mains available on Ferry Steet and Spring Street. All sanitary will be designed and directed to discharge into existing sanitary main. Detailed Sanitary Sewer Discharge design to follow at site plan approval stage.

WATER

Building will require fire sprinklers, hydrants for fire fighting and domestic. Both the domestic and fireline servicing will be fed from the existing main on Ferry and/or Spring Street.

Detailed calculation per Hydraulic Fixture Load during site plan approval stage.

Detailed calculation per Daily Design Flow during site plan approval stage.

UNDERWRITERS PUBLIC WATERMAIN FLOW

Calculation will be conducted as required to meet UL fireflow requirements.

CONCLUSION

Based on foregoing, existing services available should be satisfactory to receive additional flows from the total development. All existing infrastructure will be evaluated and upgraded, if required, to accept all new incoming flows.



Nick DeFilippis, P. Eng.