



STORMWATER

DESIGN AND CONSTRUCTION MANUAL

Vertical Municipal Infrastructure Standards



REVISION TRACKING

EXISTING VERSION	VERSION NUMBER
March 2019	N: V1 - Original Final Submission
December 2020	V2
May 2022	V3
January 2023	V4
March 2024	V5

2024 REVISION SUMMARY

SECTION	MODIFICATION & COMMENTARY
1.2 Description of the Stormwater Pumping System	The City of Brantford currently owns and operates one dedicated stormwater pumping station (Icomm Parking garage Stormwater Pumping Station).

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1.0 INTRODUCTION

1.1 Scope

This section of the design manual is intended to address requirements related to the design of stormwater pumping stations. This document should be read in conjunction with the **General Preface** and **Common Elements** sections of the Vertical Municipal Infrastructure Standards.

This guideline document does not cover stormwater management practices or the design of stormwater collection systems. Refer to the City's **Linear Municipal Infrastructure Standards** for details.

2.0 STORMWATER PUMPING STATIONS

2.1 General Design Requirements

Stormwater pumping stations shall be designed to convey peak stormwater flows without flooding of the roadway or nearby properties. Stormwater pumping stations shall comply with the Wastewater Vertical Municipal Infrastructure Standards, Section 2, Wastewater Pumping Stations, except as otherwise stated herein.

2.2 Specific Design Requirements

Unlike wastewater pumping stations, stormwater pumping stations operate in direct response to wet weather events and can therefore remain non-operational for extended periods of time. The design of stormwater pumping stations shall consider the long periods of non-operation that are common to these facilities.

Stormwater pumping stations shall also be equipped with means of capturing and/or treating fuel and oil spills and debris from stormwater prior to reaching wet wells.

Stormwater pumping stations shall be equipped with Lower Explosive Limit (LEL) sensors linked to the City's SCADA system to alert the City for the purposes of spills response.