



CONCEPTUAL STORMWATER MANAGEMENT

THE PURPOSE OF THIS CONCEPTUAL STORM WATER MANAGEMENT PLAN IS TO ADDRESS THE POTENTIAL EFFECTS UPON WATER QUALITY AND QUANTITY FROM THE PROPOSED DEVELOPMENT.

THE GOAL OF THIS SWMP FOR STORMWATER QUANTITY CONTROL IS TO MATCH CLOSELY THE PRE-DEVELOPMENT HYDROLOGIC CONDITIONS TO THE POST-DEVELOPMENT CONDITIONS (NO NET INCREASE IN PEAK FLOW RESULTING FROM THE PROPOSED DEVELOPMENT).

STORMWATER QUANTITY AND QUALITY CONTROLS FOR THIS DEVELOPMENT MAY INCLUDE:

- CONTROL POST-DEVELOPMENT PEAK FLOWS FROM THE 5 AND 100 YEAR 24 HOUR STORM EVENTS.
- MULTI-UNIT RESIDENTIAL BUILDING ROOFS AND PODIUMS SO THAT STORM WATER IS DETAINED AND DRAINED AT A CONTROLLED RATE.
- DIRECT RUNOFF FROM DRIVEWAYS AND PARKING AREAS TO THE BIORETENTION AREA (RAIN GARDEN) SO THAT STORM WATER IS RETAINED, ATTENUATED AND DRAINED AT A CONTROLLED RATE.
- SURFACE DETENTION COMBINED WITH UNDERGROUND STORAGE MAY BE REQUIRED TO CONTROL THE POST DEVELOPMENT STORM WATER FLOWS TO PRE-DEVELOPMENT CONDITIONS.
- BIORETENTION AREA VEGETATION AND SOIL MEDIUM SHALL BE SELECTED TO ENSURE STORM WATER QUALITY ENHANCEMENT.
- RETAIN ON-SITE STORM WATER RUNOFF GENERATED FROM THE FIRST 10mm DEPTH OF A RAINFALL EVENT. (VOLUME OF INTERNAL WATER STORAGE WITHIN THE BIORETENTION SYSTEMS)
- REFER TO SHEET 3 FOR CONCEPTUAL STORMWATER MANAGEMENT SYSTEM DETAILS.

LEGEND:

EXISTING		PROPOSED
	SANITARY SEWER	
	STORM SEWER	
	WATER LATERAL	
	SANITARY MANHOLE	
	STORM MANHOLE	
	PRECAST CATCH BASIN	
	OFF STREET CATCH BASIN	
	WATER VALVE	
	HYDRANT	
	UTILITY POLE	
	SURFACE FLOW DIRECTION	
	STORM OVERFLOW DIRECTION	
	FRENCH DRAIN / BIOSWALE	
	FLOWOVER LEVEL SPREADER	
	BIORETENTION / BIOSWALE	
	CONTOUR (1m INTERVAL)	

1	25 AUG. 21	ISSUED FOR APPROVAL	
NO.	DATE	REVISION	DESCRIPTION
			APPR'D

LANDS OF
QUEST CAPITAL INC.

PID 00619627 PID 41332503

ckm engineering inc.

CONCEPTUAL STORMWATER MANAGEMENT			
LAKE LOON DEVELOPMENT			
HIGHWAY No. 7		WESTPHAL, N.S.	
DRAWN	DATE	PLAN NO.	
	AUGUST 25, 2021	21-171-02	
ENGINEER	SCALE	SHEET	
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