

Gabriel Mackinnon

PROJECT OVERVIEW PROPOSED LIGHTING SCOPE

The Cambridge Mill is a historic mill property located on the Grand River in the town of Galt Ontario. The complex has new life as a riverside restaurant and event venue.

Cambridge Mill, the property owner and part of Pearle Hospitality, are proud to be part of the Cambridge community and intend to illuminate some areas of the falls, bridge and riverwalk.

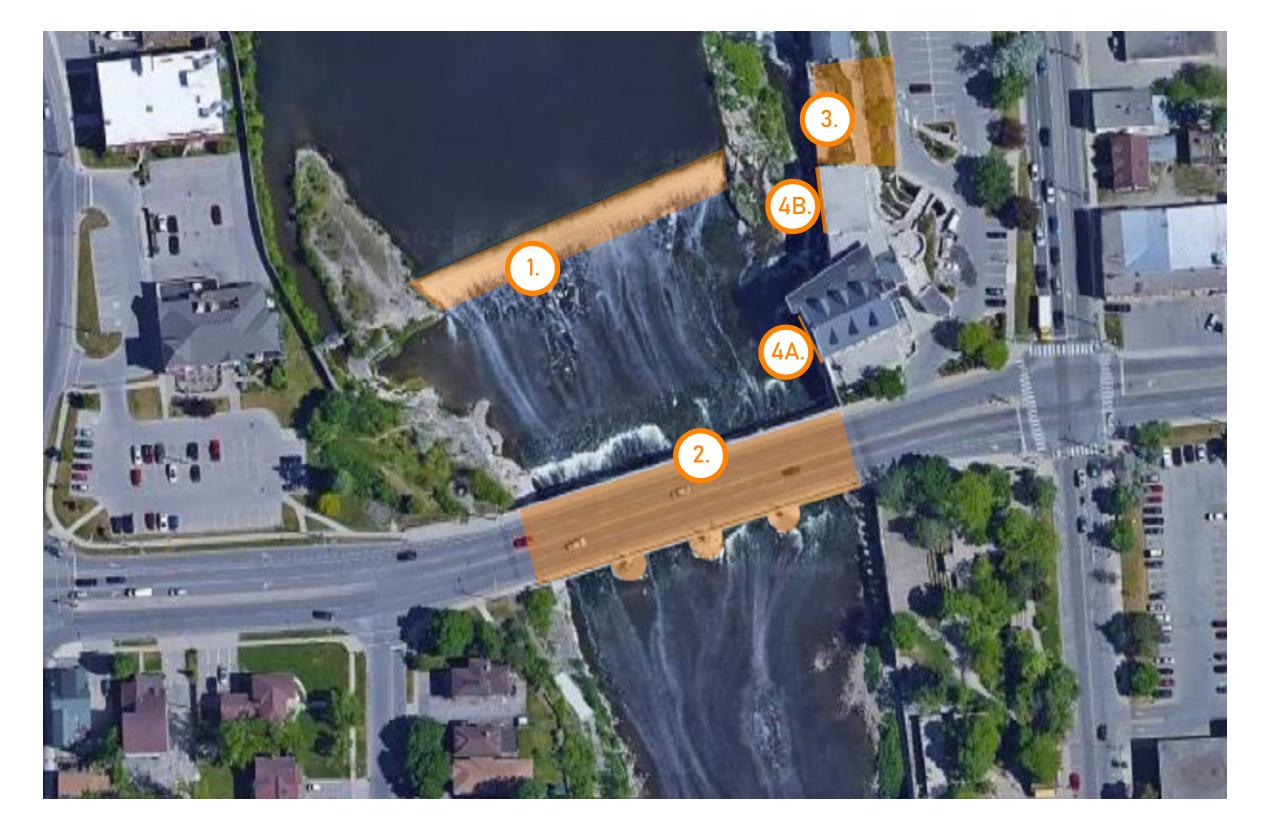
A lighting concept encompassing the falls (1), bridge (2), immediate landscape (3) and mill facades (4) is presented to support a grant application process.

LIGHTING DESIGN PRINCIPLES

The lighting design concept represents an efficient and minimal application of light to reveal highlights of the view while allowing naturalized areas to remain dark. Durable specification grade fixtures are proposed, mounted in areas where they will be out of reach of high water.

Lighting would be white most of the time with colours programmed for holidays and at special request.

Simple lighting controls will turn lights on at sunset and switch fixtures off overnight for ecological reasons.



Gabriel Mackinnon

LIGHTING CONCEPT WARM WHITE LIGHT



Three elements of lighting design are demonstrated:

- Falls illumination
- Highlights on the mill and restaurant facades
- Riverside landscape and path illumination

LUMINAIRE SELECTION

RENDER DEMONSTRATING CANADA DAY COLOURS

Lighting for the falls is provided by three elliptical beam linear floodlights, mounted below underside of bridge. This allows colour mixing for holidays and events.

The mill facade is illuminated with 4 linear facade grazers, mounted to mortar joints to preserve heritage stonework.

River facing restaurant columns receive compact floodlights, connecting the nocturnal landscape of the mill to the riverside landscape and falls.



COMPACT LINEAR UPLIGHTS AT COLUMNS Colour matched to facade



FACADE MOUNTED GRAZE LIGHTING Colour matched to facade



CAMBRIDGE MILL LIGHTING DESIGN CONCEPT



ELLIPTICAL BEAM FLOODLIGHTS Mounted under edge of bridge to illuminate falls

LIGHTING CONCEPT

BRIDGE AND RIVERWALK LANDSCAPE



LUMINAIRE SELECTION

RENDER DEMONSTRATING CANADA DAY COLOURS

Lighting for the falls is provided by three elliptical beam linear floodlights, mounted below underside of bridge. This allows colour mixing for holidays and events.

The underside of the bridge receives a glow from 6 fixtures, illuminating each side of the pier with an elliptical beam.

The riverside landscape receives a simple pattern of glow from step lights recessed into the wood guardrail posts, and soft light in the landscape and on sculptural elements helps provide vertical brightness and a sense of safety.



RECESSED STEP LIGHTS IN POSTS

Soft Glow for paths



COMPACT GROUND MOUNT FLOODLIGHTS For art & landscape



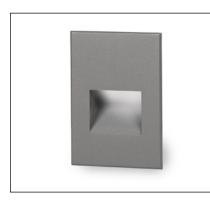
CAMBRIDGE MILL LIGHTING DESIGN CONCEPT



ELLIPTICAL BEAM FLOODLIGHTS Illuminate bridge piers



ELLIPTICAL BEAM FLOODLIGHTS Mounted under edge of bridge to illuminate falls



TYPE A RECESSED STEP LIGHTS IN POSTS

Soft Glow for paths



TYPE C ELLIPTICAL BEAM FLOODLIGHTS - LINEAR Mounted under edge of bridge to illuminate falls



TYPE B COMPACT GROUND MOUNT FLOODLIGHTS For art & landscape



TYPE D ELLIPTICAL BEAM FLOODLIGHTS Illuminate bridge piers





TYPE E FACADE MOUNTED GRAZE LIGHTING Colour matched to facade



TYPE F COMPACT LINEAR UPLIGHTS AT COLUMNS Colour matched to facade

PROJECT BUDGET

PRELIMINARY FIGURES FOR PLANNING

PROJECT BUDGET

Budgets represent Class D level estimates for planning purposes only. Costs do not include any travel expenses or applicable HST. Installation costs to be confirmed by local trades.

EQUIPMENT COSTS						
TYPE	LOCATION	EXAMPLE FIXTURE	QTY	BUDGET	TOTAL	
А	Optional Step lights in posts	WAC LEDme	12	\$300	\$3,600	
В	Optional Landscape Floodlight	sWAC 5011	8	\$350	\$2,800	
С	Linear floodlights for falls - Colour	Lumenpulse Lumenfacade	3	\$3500	\$10,500	
D		Lumenpulse Lumenbeam 4'	6	\$1200	\$7,200	
E	Optional Grazers for Mill - White	Lumenpulse Lumenfacade 4'	4	\$3,500	\$14,000	
F	Column Luminaires - White	Lumenpulse Lumenfacade 1'	4	\$900	\$3,600	
	Lighting Control System and enclosure	Pharos LPC+TPC	1	\$10,000	\$10,000	
				SUBTOTAL	\$51,700	



51,700 Includes optional \$20,400 for Mill Face and Trail Lighting

SOFT COSTS & LABOUR		
LINE ITEM	SCOPE	BUDGET
Lighting Designer Consulting Fees	Provision of specifications, lighting layouts, installation details, Participation in construction admin	\$6,750
Electrical installation	Provision of power supply to fixture locations, procurement and installation of fixtures, commissioning of dynamic coloured lighting systems. (Based on electrical fixture cost X 1.5 as rough order of magnitude estimate only)	\$50,000- \$77,550
	SUBTOTAL	\$56,750-\$84,300

TOTAL PROJECT BUDGET

Estimated equipment, soft costs and labour total \$88,050 plus additional \$47,950 for optional Mill face and trail lighting add ons (as reflected in renderings)