

FINANCE AND CIVIC DEVELOPMENT COMMITTEE

*HIS WORSHIP, THE MAYOR
AND COUNCILLORS*

**SUBJECT: GRIFFITHS PEDESTRIAN OVERPASS SPECIAL LIGHTING
IMPROVEMENT**

RECOMMENDATION:

1. THAT Council approve the special bridge lighting project and budget \$350,000 from Gaming Fund for the project, as outlined in this report.

REPORT

The Finance and Civic Development Committee, at its meeting held on 2010 November 25, received and adopted the *attached* report seeking Council's approval to proceed with the Griffiths pedestrian overpass special lighting project.

The Griffiths pedestrian overpass is one of the three award winning bridges constructed by the City in the past 5 years. The proposed improvements provide an exciting opportunity to enhance the aesthetics of the structure and would highlight the bridge as a special landmark welcoming visitors to the City.

Respectfully submitted,

Councillor D. Johnston
Chair

Councillor N. Volkow
Vice Chair

Councillor C. Jordan
Member

Copied to:	City Manager Director Engineering Director Planning & Building Director Finance
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TO: CHAIR AND MEMBERS
FINANCE AND CIVIC DEVELOPMENT
COMMITTEE

DATE: 2010 November 16

FROM: DIRECTOR ENGINEERING

FILE: 37500 02
*Reference: Griffiths Pedestrian
Overpass*

**SUBJECT: GRIFFITHS PEDESTRIAN OVERPASS SPECIAL LIGHTING
IMPROVEMENT**

PURPOSE: To seek the approval of the Committee and Council to proceed with the Griffiths pedestrian overpass special lighting project.

RECOMMENDATION:

1. **THAT** The Committee recommend Council to approve the special bridge lighting project and to budget \$350,000 from Gaming Fund for the project as outlined in this report.

REPORT**1. INTRODUCTION**

Griffiths Dr is one of the City's main arterials connecting Kingsway to Marine Way and New Westminster. In 2008, a pedestrian overpass was constructed at 14th Avenue to provide a safe passage for pedestrian and cyclists crossing Griffiths Dr and connects the trail network in the Southpoint/Taylor Park neighbourhood to the walkways leading to Byrne Creek Secondary School. The overpass has a modern and striking design and received a "Project of the Year" award from the BC Public Works Association.

To make Griffiths Dr more attractive, a streetscape beautification program was implemented in 2009 in the section between Edmonds St and 10th Ave. The beautification project is now complete and has significantly softened the streetscape in this area providing a visually more pleasing environment for those who work and live in the area.

2. PROPOSED LIGHTING IMPROVEMENT

Building on the award winning Griffiths bridge design and highlighting this distinctive bridge as a special landmark in the City, it is proposed that the existing bridge lighting be

To: Finance and Civic Development Committee
From: Director Engineering
Re: GRIFFITHS PEDESTRIAN OVERPASS SPECIAL
LIGHTING IMPROVEMENT

2010 November 16..... Page 2

improved to enhance the aesthetics effects. The existing bridge lighting comprises of white spotlights at the base and was designed primarily for safety purposes.

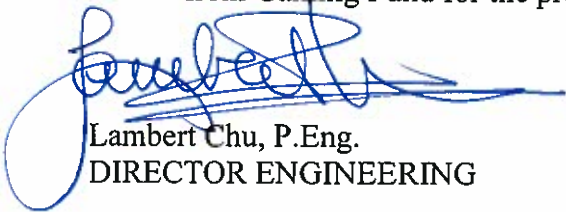
To examine the costs and feasibility of enhancing the existing bridge lighting, a preliminary engineering concept design was prepared. The design includes additional metal halide lights, up to 24 of them, to be installed to highlight the bridge arch and the main span of the structure. The concept also includes lighting the underside of the span with blue LED light fixtures to provide a contrast to the white light above. The contrast would create the visual effect of a white iconic arch floating on a blue base. The combined use of metal halide and LED lights offer higher energy efficiency and longer service life than conventional light fixtures. The existing bridge lighting and the conceptual lighting enhancement are shown in *Figure 1*.

The estimated cost of the lighting improvements is approximately \$350,000 including equipment, installation, contingency and taxes. The project is included in the 2010 Annual Capital Plan.

3. CONCLUSION

The Griffiths pedestrian overpass is one of the three award winning bridges (Griffiths, Kingsway and Winston) constructed by the City in the past 5 years. The Griffiths overpass is selected for lighting improvement consideration in view of its location (high traffic) and existing lighting design (utilitarian with a limited number of spotlights). Opportunities will be presented to Council in the future for special lighting improvements to other City bridges after the Griffiths bridge lighting project is implemented and a post installation evaluation is completed.

The proposed Griffiths bridge lighting improvements provide an exciting opportunity to enhance the aesthetics of the structure and would highlight the bridge as a special landmark welcoming visitors to the City. It is recommended that the Committee request Council to approve the lighting project as outlined in this report and to budget \$350,000 from Gaming Fund for the proposed improvements.



Lambert Chu, P.Eng.
DIRECTOR ENGINEERING

LSC:br

Attachment

Copied to: City Manager
Director Planning & Building
Director Finance

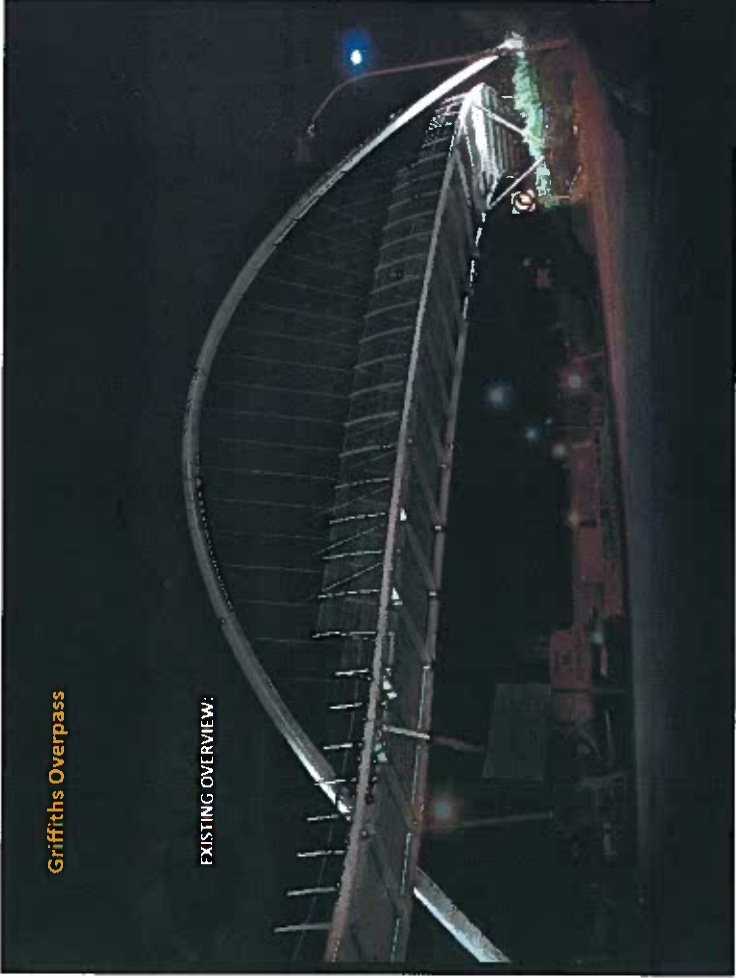
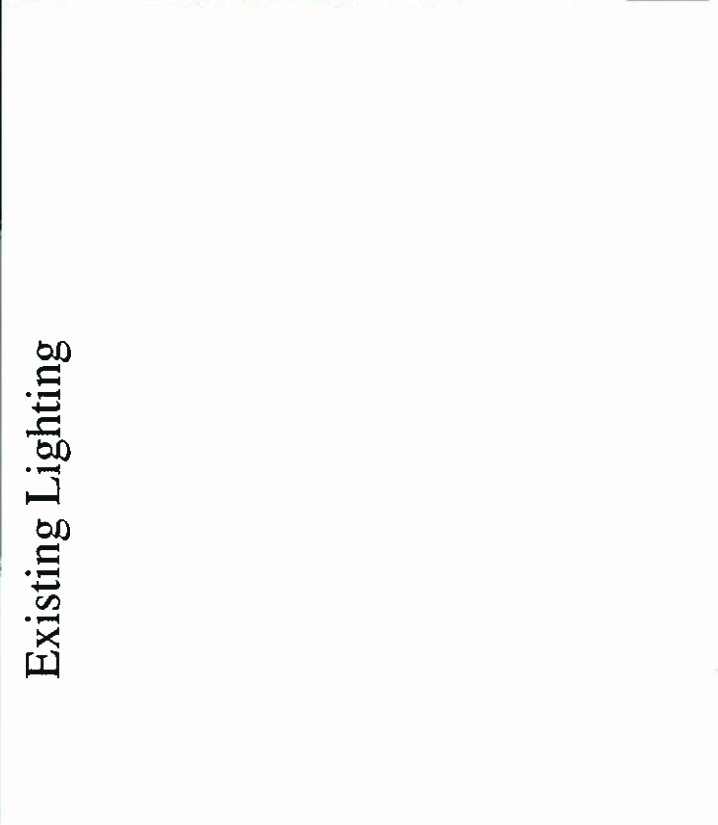


FIGURE 1 – GRIFFITHS OVERPASS

Proposed Lighting



Existing Lighting

Elegant, iconic white, floating blue