

Bartlett Design

LIGHTING & ELECTRICAL ENGINEERING

942 WASHINGTON STREET BATH, MAINE 04530

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February 6, 2009

Nicholas Iselin
Director of Development & Construction
Intercontinental Real Estate Corporation
1270 Soldiers Field Road
Boston, MA 02135

RE: *Ocean Gateway Garage*
Portland, Maine

Dear Mr. Iselin:

I had been asked in June to measure illuminance levels at the sidewalk along Fore Street immediately in front of the new Ocean Gateway Garage. The survey was conducted on June 28 at 9:15PM. At that time the final street lighting had not yet been installed by the Central Maine Power Company. The temporary lighting has now been removed and the permanent street lighting luminaires have been installed. I conducted another survey on February 5 at 6:15PM. The illuminance levels for both surveys are shown on the attached plan (previous levels are shown in parenthesis).

The Illuminating Engineering Society of North America (IESNA) publishes suggested standards for various lighting applications. Their recommendations for sidewalk lighting are listed in DG-5-94. The recommended average illuminance level is 1.0 footcandles at grade, and the recommended average-to-minimum uniformity level is 4.4:1. The lighting installation at the garage sidewalk along Fore Street has an illuminance level of about 4.9 and average-to-minimum uniformity ratio of 12.31:1. The lighting levels as they now exist do not meet those recommended by the IESNA due to relatively high levels located at the building entrances. We recommend removing the lamps from two canopy lighting fixtures and leaving them unlighted: the middle recessed luminaire located on the India Street side canopy, and the recessed luminaire located closest to the building on the Hancock Street side. We are confident that when this occurs, the lighting levels for uniformity will be consistent the standard practice recommended by the IESNA.

Sincerely,



Lawrence E. Bartlett, PE
LEB/vmb

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OCEAN GATEWAY GARAGE
 FEB 7, 2009

MEASURED ILLUMINANCE AT GRADE
 (ILLUMINANCE LEVELS MEASURED ON
 6/28/09 ARE LISTED IN PARENTHESES)

