



Stantec Consulting Services, Inc.  
806 SW Broadway, Suite 200, Portland, OR 97205

May 31, 2018

**Attention: City of Stayton**

Dear Dan Fleishman,

**Reference: Santiam Hospital New Parking Lot**

This letter is being provided to explain the challenges that have arisen with meeting the City of Stayton's Development Standards for illumination for the proposed parking lot expansion at Santiam Memorial Hospital

According to Table 17.02.170.4.c.3, the uniformity ratio is to be 4:1. At present, our designed uniformity ratio is 21:1, which includes some areas not directly within the parking area. In order to reduce this ratio, we have two options: (1) raise the height of the poles so that the distribution of the light output is more uniform, or (2) add poles to eliminate the lower points of illumination in the lot. However, the poles are currently designed to be 20 feet in height, which is the maximum height allowed per Table 17.02.170.4.c.3 which means that raising the pole height to improve distribution is not an option without a formal appeal. Similarly, if we were to increase the number of poles, it would also mean increasing the average illumination and surpassing the allowed threshold in the standards.

The Standards limit the average illumination to 1.6 fc (footcandles). Our designed value currently exceeds this (1.74 fc). Efforts to reduce this value (such as decreasing the number of poles or the lumen output of the designed fixtures) would then prevent us from meeting the minimum footcandle value outlined in the Standards (0.3 fc).

During the design process, we have strived to meet the intent of the requirements set by the Standards while also effectively and safely illuminating the parking lot. We have reviewed the current design against IESNA (Illuminating Engineering Society of North America) Standard ## and found the current design to be consistent with these standards. Given the configuration of the lot, it is our belief that the current design presents the best solution for both objectives and meets the intent of the Standard for providing a safe parking lot while minimizing light trespass to residential areas. We request the current design be approved as submitted.

Regards,

**Stantec**

A handwritten signature in blue ink that reads "Mark Peckover".

**Mark Peckover** PE, LEED(R) AP  
Principal  
Phone: (503) 273-0094  
Mark.Peckover@stantec.com