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LIGHTING



CITY VISION

Provide adequate lighting for safety and illumination, promote energy conservation, and protect people and nature from spillover light and glare

LIGHTING



GOALS, POLICY CHANGES, & DESIRED OUTCOMES

1. **Goal:** Modernize code and incorporate best practices.

Make lighting regulations more uniform across the City. Update references to current lighting technology and remove what's out of date.

2. **Goal:** Enhance wetlands and riparian corridors and improve fish and wildlife habitat.

Update shoreline and dock lighting requirements to improve visibility for dock users while protecting fish habitat from spillover light.

BEST PRACTICES



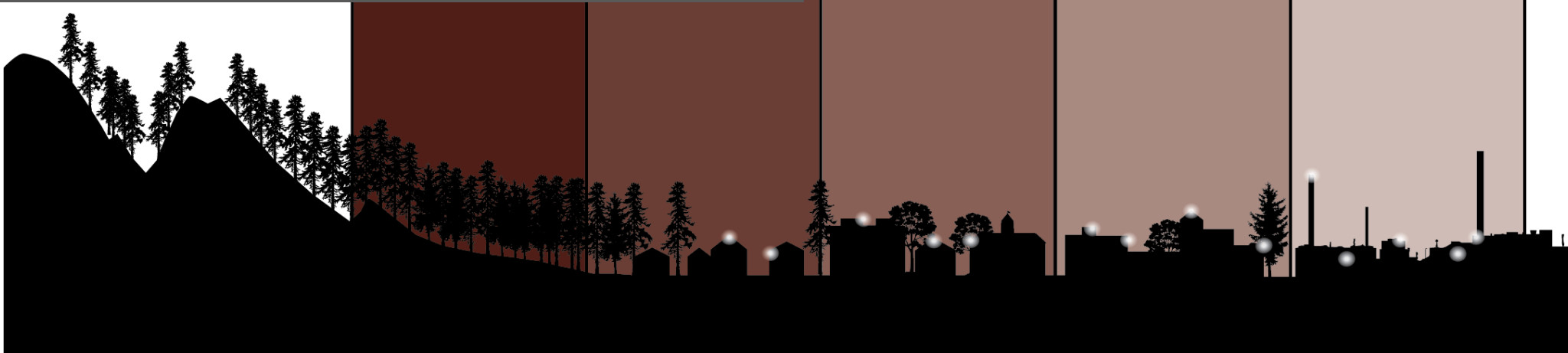
Meet industry best practices, such as lighting zones, color temperature, and technology references.

Shoreline Master Program

Major Changes

- Elimination of common line setback exception
- Elimination of setback reduction incentive for bulkhead removal
- Added bulkhead removal with new or redevelopment
- Added dock lighting standards and triggers for review

LIGHTING KEY CONCEPTS



Based on the 2011 Model Lighting Ordinance developed in a partnership of the International Dark Sky Association and Illuminating Engineering Society of North America (IESNA), tailored for the City.

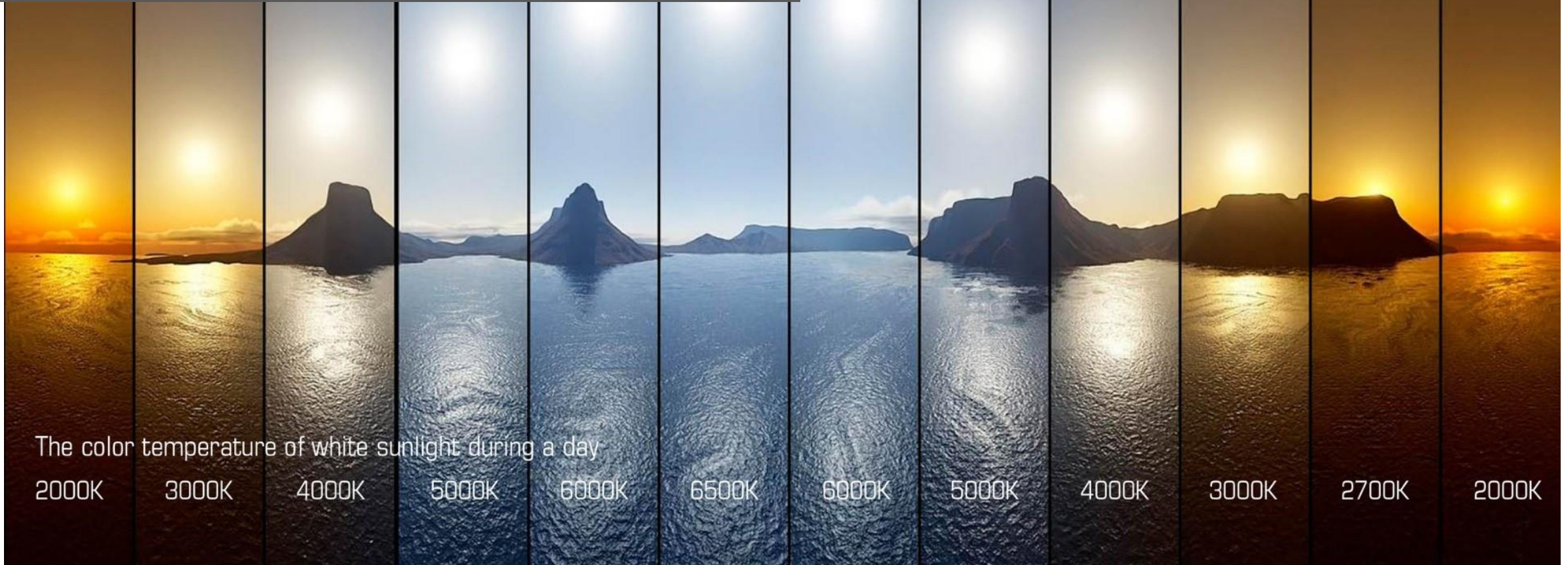
<p>Open space, wilderness, and places where darkness is essential. Special review required for permanent lighting in this zone.</p>	<p>Recommended default zone for rural and low density residential. Typically single to low density multifamily, low level commercial or industrial uses with limited night activity.</p>	<p>Recommended default zone for light commercial business and high density mixed use and residential areas. Includes areas with some nighttime activities.</p>	<p>Recommended default zone for larger cities' business district. Includes commercial mixed use, and commercial corridors, and other spots with high nighttime activity.</p>	<p>Not a default zone. Includes high intensity business or industrially zoned districts.</p>
LZ-0	LZ-1	LZ-2	LZ-3	LZ-4
APPLICABLE TO ISSAQUAH				

LIGHTING ZONES

Lighting zones can be used to establish desired ambient light levels. Zones range from 0 for open space and wilderness to 4 for the highest intensity industrial areas. Most of Issaquah would be in zones 2 or 3.

LIGHTING

LIGHTING KEY CONCEPTS



Color Temperature, expressed in kelvin (K)

COLOR TEMPERATURE

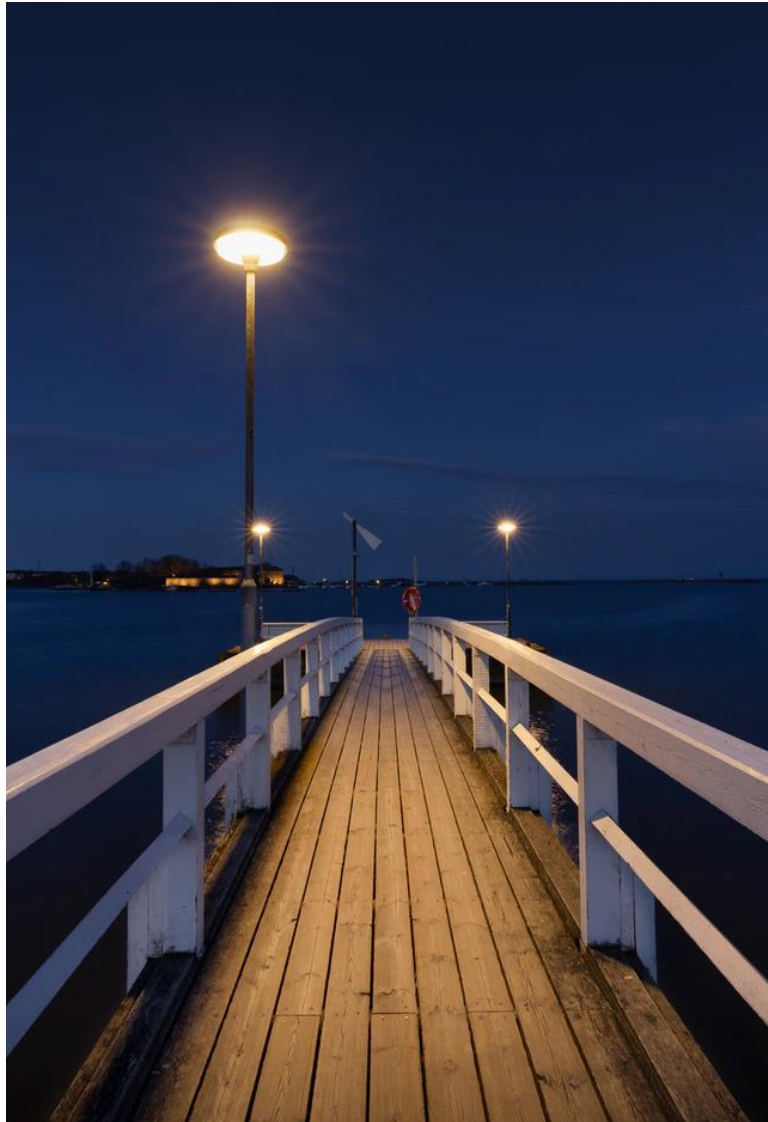
Another way to regulate outdoor lighting. Industry best practices establish a range of acceptable temperatures for outdoor use. Issaquah requires streetlights to be at a color temperature of 4000K.

LIGHTING

DOCK LIGHTING

Should shoreline dock lighting requirements only apply to new construction, or is there a threshold where existing docks and other structures must come into compliance?

Most of the City's docks are existing. For greatest benefit, consider addressing all docks (new and existing) with a graduated timeline or incentives for bringing existing docks into compliance.



DOCK LIGHTING

Construction of a new dock/replacement/major repair is required to meet the following standards:

- Maximum Height- 30 inches above dock or finished grade
- Use light shielding to direct light only onto dock surfaces, remove unnecessary lights and not aim over water surface. This requires at least one: 1) bollard that allows light only forward onto the dock 2) a physical barrier such as a mouting post at least as wide as the fixture 3) water side shield to limit backlight spill onto the water. If using a fixture with BUG rating to comply, the BUG rating may be B (backlighting) or zero. BUG rating is a luminaire classification system that classifies backlight (B), uplight (U), and glare (G).
- Motion sensor and auto shut off after five minutes. Solar powered dusk to dawn lights are not acceptable
- Warm color temperature bulbs 2700K or less. No blue spectrum light which penetrates deeper into the lake.





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LIGHTING