



## **AGENDA**

### **MILWAUKIE DESIGN AND LANDMARKS COMMITTEE Monday, March 3, 2014, 6:30 PM**

**CITY HALL CONFERENCE ROOM  
10722 SE MAIN ST**

- 1.0 Call to Order—Procedural Matters**
- 2.0 Meeting Notes**—None.
- 3.0 Information Items**
- 4.0 Audience Participation**—This is an opportunity for the public to comment on any item not on the agenda
- 5.0 Public Meetings**—Public meetings will follow the procedure listed on reverse
- 6.0 Worksession Items**
  - 6.1 Summary: Kellogg Pedestrian Bridge Lighting Plan  
Presenters: Ryan Marquardt, Senior Planner, and Amy Fandrich, TriMet
- 7.0 Other Business/Updates**
  - 7.1 Farewell to DLC Member Becky Ives
- 8.0 Design and Landmark Committee Discussion Items**—This is an opportunity for comment or discussion for items not on the agenda.
- 9.0 Forecast for Future Meetings:**
  - April 7, 2014 1. TBD
  - May 5, 2014 1. TBD

### Milwaukie Design and Landmarks Committee Statement

The Design and Landmarks Committee is established to advise the Planning Commission on historic preservation activities, compliance with applicable design guidelines, and to review and recommend appropriate design guidelines and design review processes and procedures to the Planning Commission and City Council.

1. **PROCEDURAL MATTERS.** If you wish to speak at this meeting, please fill out a yellow card and give to planning staff. Please turn off all personal communication devices during meeting. For background information on agenda items, call the Planning Department at 503-786-7600 or email [planning@ci.milwaukie.or.us](mailto:planning@ci.milwaukie.or.us). Thank You.
2. **DESIGN AND LANDMARK COMMITTEE MEETING MINUTES.** Approved DLC Minutes can be found on the City website at [www.cityofmilwaukie.org](http://www.cityofmilwaukie.org)
3. **CITY COUNCIL MINUTES** City Council Minutes can be found on the City website at [www.cityofmilwaukie.org](http://www.cityofmilwaukie.org)
4. **FORECAST FOR FUTURE MEETING.** These items are tentatively scheduled, but may be rescheduled prior to the meeting date. Please contact staff with any questions you may have.

#### Public Meeting Procedure

Those who wish to testify should come to the front podium, state his or her name and address for the record, and remain at the podium until the Chairperson has asked if there are any questions from the Committee members.

1. **STAFF REPORT.** Each design review meeting starts with a brief review of the staff report by staff. The report lists the criteria for the land use action being considered, as well as a recommendation with reasons for that recommendation.
2. **CORRESPONDENCE.** Staff will report any verbal or written correspondence that has been received since the Committee was presented with its meeting packet.
3. **APPLICANT'S PRESENTATION.**
4. **PUBLIC TESTIMONY IN SUPPORT.** Testimony from those in favor of the application.
5. **NEUTRAL PUBLIC TESTIMONY.** Comments or questions from interested persons who are neither in favor of nor opposed to the application.
6. **PUBLIC TESTIMONY IN OPPOSITION.** Testimony from those in opposition to the application.
7. **QUESTIONS FROM COMMITTEE MEMBERS.** The committee members will have the opportunity to ask for clarification from staff, the applicant, or those who have already testified.
8. **REBUTTAL TESTIMONY FROM APPLICANT.** After all public testimony, the Committee will take rebuttal testimony from the applicant.
9. **CLOSING OF PUBLIC MEETING.** The Chairperson will close the public portion of the meeting. The Committee will then enter into deliberation. From this point in the meeting the Committee will not receive any additional testimony from the audience, but may ask questions of anyone who has testified.
10. **COMMITTEE DISCUSSION AND ACTION.** It is the Committee's intention to make a recommendation this evening on each issue on the agenda. Design and Landmark Committee recommendations are not appealable.
11. **MEETING CONTINUANCE.** Prior to the close of the first public meeting, *any person* may request an opportunity to present additional information at another time. If there is such a request, the Design and Landmarks Committee will either continue the public meeting to a date certain, or leave the record open for at least seven days for additional written evidence, argument, or testimony.

*The City of Milwaukie will make reasonable accommodation for people with disabilities. Please notify us no less than five (5) business days prior to the meeting.*

#### **Milwaukie Design and Landmarks Committee:**

Greg Hemer, Chair  
Sherry Grau, Vice Chair  
Val Ballestrem  
James Fossen  
Becky Ives

#### **Planning Department Staff:**

Denny Egner, Planning Director  
Ryan Marquardt, Senior Planner  
Li Alligood, Associate Planner  
Brett Kelter, Associate Planner  
Vera Kolias, Associate Planner  
Marcia Hamley, Administrative Specialist II  
Alicia Martin, Administrative Specialist II



# MILWAUKIE

*Dogwood City of the West*

**To:** Design and Landmarks Committee

**Through:** Dennis Egner, Planning Director

**From:** Ryan Marquardt, Senior Planner

**Date:** February 25, 2014, for March 3, 2014, Meeting

**Subject:** Kellogg Bridge Pedestrian Lighting

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## **ACTION REQUESTED**

Review and comment on the lighting for the proposed pedestrian bridge under Portland Milwaukie Light Rail Line bridge over Kellogg Lake.

## **BACKGROUND INFORMATION**

In 2012, the City approved a bridge for the Portland Milwaukie Light Rail (PMLR) line over Kellogg Lake. The Design and Landmarks Committee (DLC) reviewed a Downtown Design Review application for this project (DR-11-01) on October 17, 2011.

A condition of approval for the project requires that:

“Prior to approval of development permits for the pedestrian bridge, the applicant or other authorized entity shall propose pedestrian scale lighting for the pedestrian bridge. The Planning Director shall consult with the DLC about the proposed lighting prior to approving any development permits for the pedestrian bridge.

- A. Propose energy-efficient and wildlife-friendly lighting, preferably LED lighting.
- B. Shield lights from shining directly into windows on residential properties.”

TriMet is in the design and permitting phase of the pedestrian bridge and has a lighting plan for review by the City. Pursuant to the condition of approval, the Planning Director is bringing the proposed lighting plan to the DLC for consultation prior to approval of development permits for the pedestrian bridge.

TriMet will explain the proposed lighting and the design alternatives that they have considered at the March 3, 2014 meeting. The attachments to this staff report describe TriMet’s proposal for the lighting. These materials include:

- A narrative explanation of the proposed lighting (Attachment 1).
- Cut sheet and photos of the proposed lighting fixtures (Attachments 2 and 3).
- Study of the levels of illumination for the proposed lighting concept (Attachment 4). The lighting levels on the walkway range from 5.2 to 2.4 foot-candles. The lighting levels on off the west side of the walkway range from 1.1 to 0.1 foot-candles, and off the east side of the walkway range from 1.3 to 0 footcandles. The horizontal lines in the middle of this study represent the edge of the walkway, and areas above and below these lines indicate spillover lighting to the waterway. The east edge of the walkway is on top of the 2 lines, and the western edge is the bottom of the lines.
- Plans for the pedestrian bridge including the pedestrian lighting. The proposed lighting would have 9 lights mounted to the east side of the bridge structure.

#### Questions for Consideration

Based on the condition of approval cited above, the DLC should advise the Planning Director regarding:

- Does the proposed lighting meet the standard for energy-efficient, preferably LED lighting? Staff's assessment is that the applicant has proposed energy efficient LED lighting consistent with this guideline.
- Is the proposed lighting and the amount of illumination that would be cast beyond the surface of the walkway wildlife-friendly lighting? There is some spillover lighting from the proposed pedestrian lighting. Trimet is checking with the Oregon Department of Fish and Wildlife regarding that agency's standards for light trespass, and should have information available at the meeting on March 3<sup>rd</sup>. The Milwaukie Zoning Ordinance does not have specific lighting guidelines for light spillover. The most relevant standards is MMC 19.402.11.A.9: "Where practicable, lights shall be placed so that they do not shine directly into any WQR and/or HCA location. The type, size, and intensity of lighting shall be selected so that impacts to habitat functions are minimized".
- Does the proposed lighting shield lights from shining directly into windows on residential properties? The applicant has indicated in Attachment 1 that there is a shield on the light fixtures that would prevent glare to residences to the east, which is consistent with the lighting levels shown on the illumination study.
- Are the proposed lights substantially consistent with the downtown design guidelines for lighting (see Attachment 5)? The guidelines are not specific, but overall favor lighting that is more decorative and ornamental than utilitarian in appearance.

This discussion with the DLC will be considered by the Planning Director in the decision about approval of the development plans for the Kellogg Pedestrian Bridge. The current schedule for issuing permits for the pedestrian bridge is later in March 2014, with installation of the bridge in Summer 2014.

**ATTACHMENTS**

Attachments are provided as indicated by the checked boxes. All material is available for viewing upon request.

	DLC Packet	Public Copies	E- Packet
1. Narrative Description of Proposed Lighting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Specification sheet and photos of proposed lighting fixtures	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Illumination study of lighting levels	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4. Plans for installation of lighting on the pedestrian bridge	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5. Downtown Design Guidelines for Lighting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Key:

DLC Packet = paper materials provided to Design and Landmarks Committee 7 days prior to the meeting.

Public Copies = paper copies of the packet available for review at City facilities and at the DLC meeting.

E-Packet = packet materials available online at <http://www.milwaukieoregon.gov/planning/design-and-landmarks-committee-33>.

Kellogg Pedestrian Bridge  
Lighting Proposal – Design Narrative  
2/5/14

**Model:**

For the pole mounted lighting calculation the bridge was modeled as a 15' wide surface that is 234' long which is consistent with the current plans. The bridge is lit with 9 pole mounted LED fixtures mounted to the top cord at every third vertical support along one side with one pole at the each end of the bridge and approximately 30' spacing between poles. These fixtures are mounted at approximately 13' above the walking surface. In addition the model has a simulated water level of 15' below the pedestrian bridge based upon the elevations shown from the bridge to the ordinary high water level on the LRT drawing S15E-600.

**Light Fixture:**

- Lithonia Lighting, D-Series Size 0 LED Area Luminaire
- 277V, 4000K White, 35W
- Dark Sky Compliant full cutoff with all light traveling down from the fixture preventing light trespass to neighboring properties.
- House Side Shield to minimize light off the side of the bridge into the water.
- Quantity: 9
- Total Connected Power Consumption of the bridge: 315W
- Expected Service Life: Over 100,000 hours (20 years)
- Variable height light poles to provide consistent 15' luminaire mounting height above walking surface

**Standards:**

Design standard walkway lighting level per City of Milwaukie:

- 3 Fc average (minimum)
- 3:1 uniformity (maximum)
- 6:1 max/min (maximum)
- 0.5 Fc maximum average spillover

**As Designed:**

- 3.98 Fc Average
- 1.66 Uniformity
- 2.17 Max/Min
- 0.32 Fc Spillover West
- 0.25 Fc Spillover East

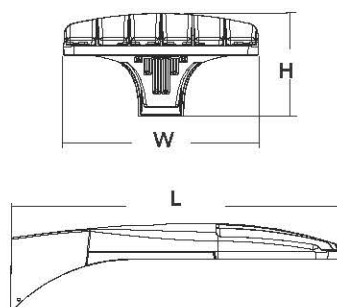
## ATTACHMENT 2

# D-Series Size 0 LED Area Luminaire

d<sup>series</sup>

## Specifications

<b>EPA:</b>	0.8 ft <sup>2</sup> (.07 m <sup>2</sup> )
<b>Length:</b>	26" (66.0 cm)
<b>Width:</b>	13" (33.0 cm)
<b>Height:</b>	7" (17.8 cm)
<b>Weight (max):</b>	16 lbs (7.25 kg)

Catalog  
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

## Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

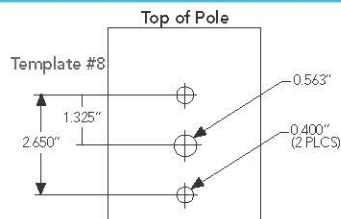
The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 65% and expected service life of over 100,000 hours.

## Ordering Information

EXAMPLE: DSX0 LED 40C 1000 40K T3M MVOLT SPA DDBXD

DSX0 LED	20C	530	40K	T1S	MVOL			HS	
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting	Control options	Other options	Finish (required)
DSX0 LED	<b>Forward optics</b>	530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000K (80 CRI min.) 40K 4000K (70 CRI min.) 50K 5000K (67 CRI)	T1S Type I short T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward throw medium TSVS Type V very short TSS Type V short TSM Type V medium TSW Type V wide	MVOLT <sup>2</sup> 120 <sup>2</sup> 208 <sup>2</sup> 240 <sup>2</sup> 277 <sup>2</sup> 347 <sup>3</sup> 480 <sup>3</sup>	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting WBA Wall bracket SPUMBA Square pole universal mounting adaptor <sup>4</sup> RPUMBA Round pole universal mounting adaptor <sup>4</sup>	<b>Shipped installed</b> PER NEMA twist-lock receptacle only (no controls) <sup>5</sup> DMG 0-10V dimming driver (no controls) <sup>6</sup> DCR Dimmable and controllable via ROAM <sup>®</sup> (no controls) <sup>7</sup> PIR Motion sensor, 8-15' mounting height <sup>8</sup> PIRH Motion sensor, 15-30' mounting height <sup>8</sup> BL30 Bi-level switched dimming, 30% <sup>9,10</sup> BL50 Bi-level switched dimming, 50% <sup>9,10</sup>	<b>Shipped installed</b> HS House-side shield <sup>11</sup> SF Single fuse (120, 277, 347V) <sup>12</sup> DF Double fuse (208, 240, 480V) <sup>12</sup> L90 Left rotated optics <sup>13</sup> R90 Right rotated optics <sup>13</sup> <b>Shipped separately</b> DDL Diffused drop lens <sup>11</sup>	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

## Drilling



DSX0 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	DM29AS	2 at 90° *
DM28AS	2 at 180°	DM39AS	3 at 90° *
DM49AS	4 at 90° *	DM32AS	3 at 120° **

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's [POLES CENTRAL](#) to see our wide selection of poles, accessories and educational tools.

\*Round pole top must be 3.25" O.D. minimum.

\*\*For round pole mounting (RPA) only.

## Tenon Mounting Slipfitter \*\*

tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	N/A	N/A	N/A	N/A
2-7/8"	AST25-190	AST25-280	N/A	AST25-320	N/A	N/A
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

## NOTES

- Only available with rotated optics (L90 or R90 option).
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options).
- Not available with single-board, 530 mA product (20C 530 or 30C 530). Not available with 1000mA. Not available with DMG, DCR, BL30, or BL50.
- Available as a separate combination accessory: PUMBA (finish) U.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories.
- Not available with 347 or 480V.
- Specifies a ROAM<sup>®</sup> enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347 or 480V. Additional hardware and services required for ROAM<sup>®</sup> deployment; must be purchased separately. Call 1-800-442-6745 or email: [sales@roamservices.net](mailto:sales@roamservices.net). N/A BL30, BL50, PIR, or PIRH.
- PIR specifies the SensorSwitch SBR-10-ODP control; PIRH specifies the SensorSwitch SBR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard. Not available with DCR.
- Requires an additional switched circuit.
- Dimming driver standard. MVOLT only. Not available with DCR.
- Also available as a separate accessory; see Accessories information.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Available with 30 LEDs (30C option) only.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.

For more control options, visit [DTL](#) and [ROAM](#) online.





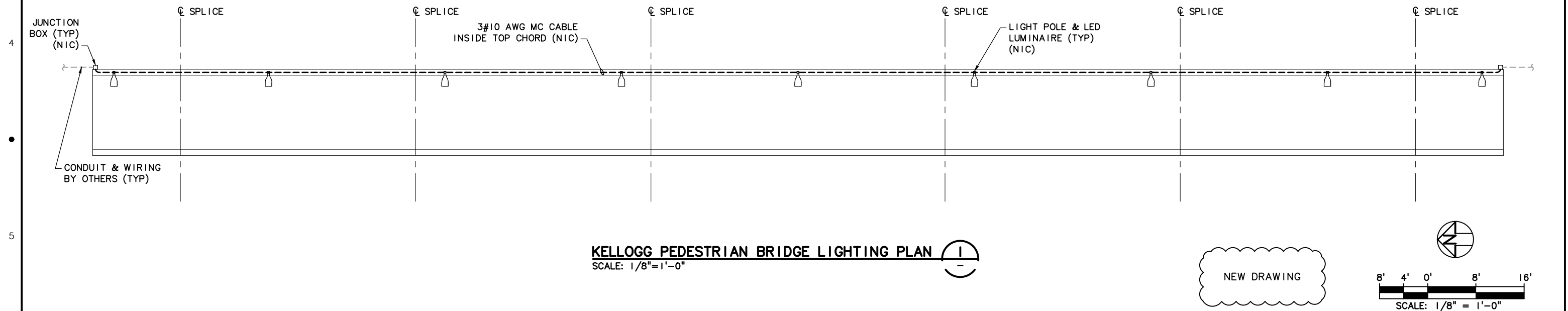
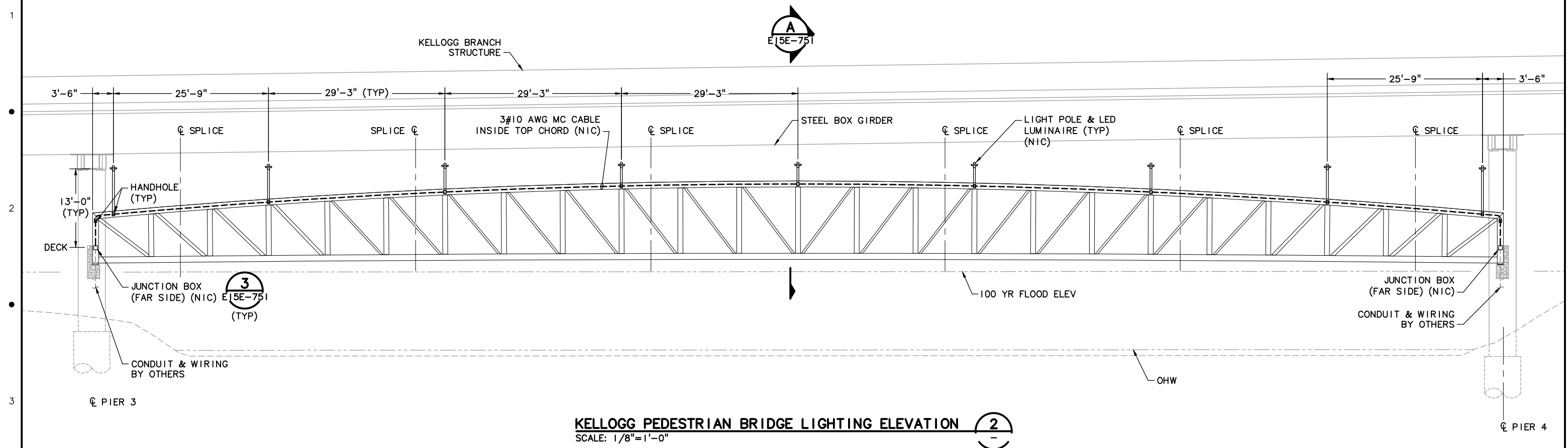






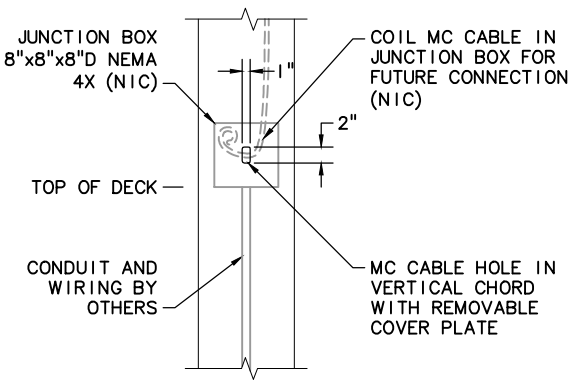
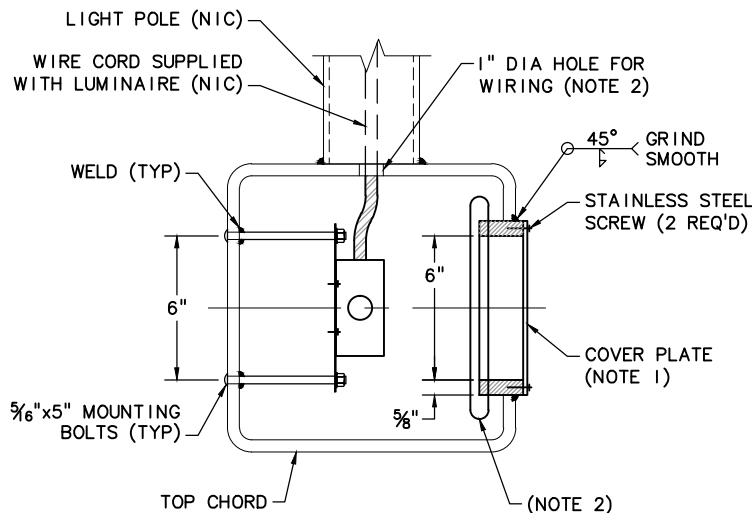
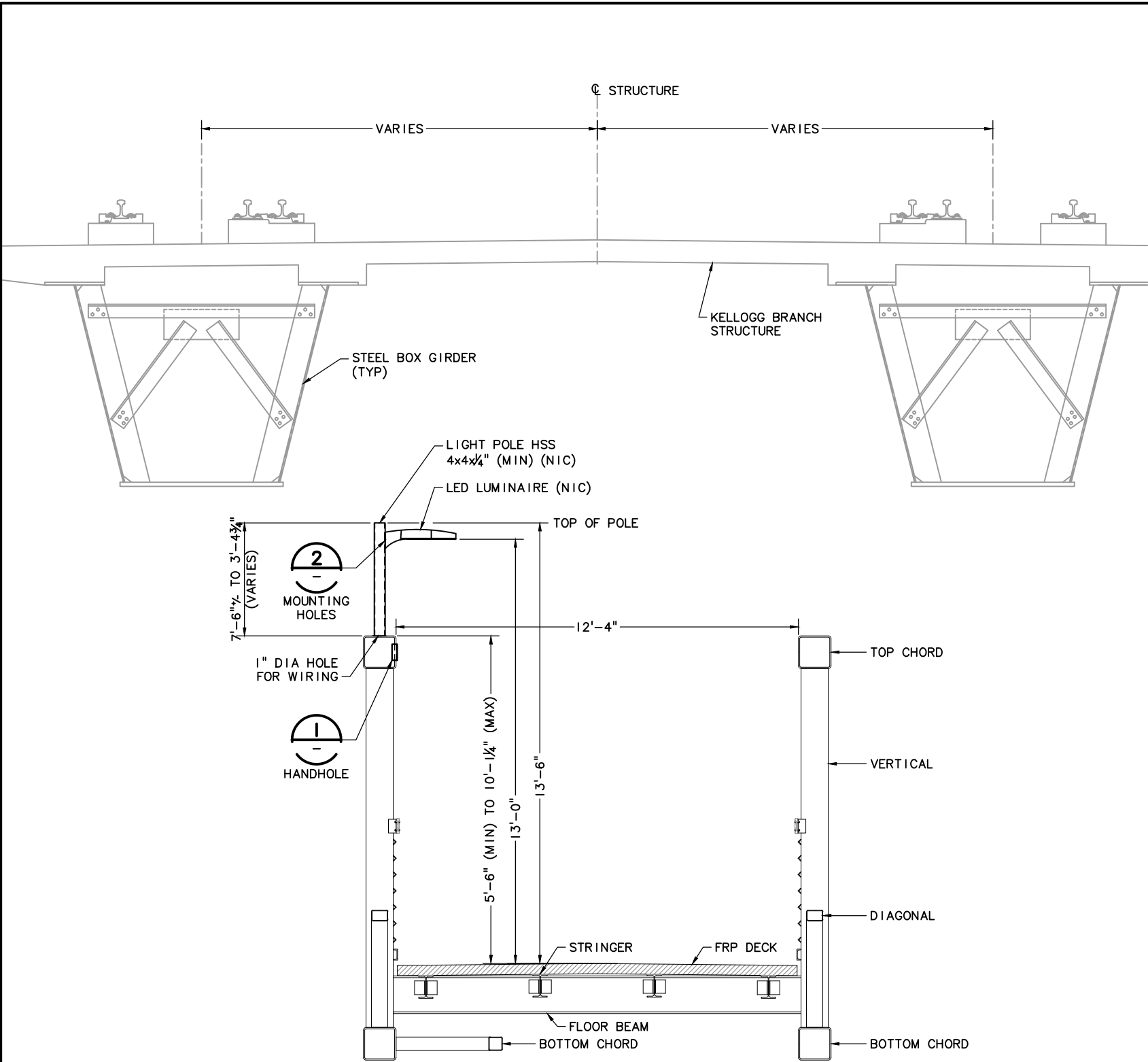
SCALE 1"=10'

Only partial section of the bridge shown, calculation repeats along the length of the bridge. Calculations performed on the entire length of the bridge.

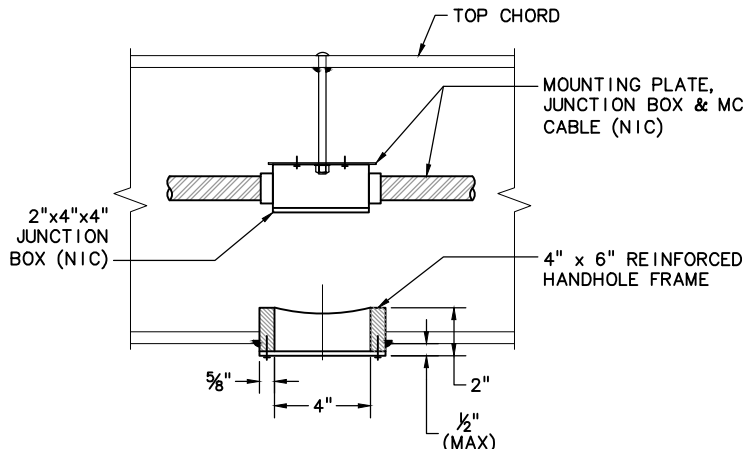
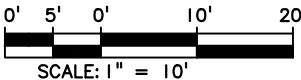
[illegible]

NOTES:

- 1. HANDHOLE SHALL BE COVERED WITH A MINIMUM OF 7 GA. PLATE BY FASTENING WITH 2-3/16" DIA. STAINLESS STEEL SET SCREWS.
- 2. ROUND OFF INSIDE EDGES AND REMOVE ALL BURRS TO PREVENT DAMAGE TO CABLES DURING INSTALLATION INSIDE POLE.

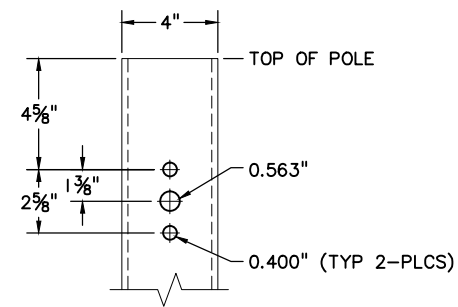


**JUNCTION BOX 3**  
SCALE: 1"=1'-0" E15E-750

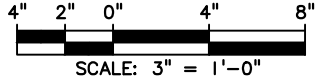


**TOP VIEW**

**HANDHOLE DETAIL 1**  
SCALE: 3\"/>

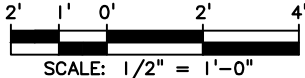


**MOUNTING HOLES 2**  
SCALE: 3\"/>



NEW DRAWING

**KELLOGG PEDESTRIAN BRIDGE LIGHTING SECTION A**  
SCALE: 1/2\"/>



				DESIGNED _____ DATE _____		TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON		PORTLAND TO MILWAUKIE LRT	
				JMM DRAWN 2-3-14 DATE		ELCON ASSOCIATES, INC.		EAST SEGMENT	
				CHECKED _____ DATE		LTK Engineering Services		KELLOGG PEDESTRIAN BRIDGE	
				APPROVED _____ DATE		TRI MET		LIGHTING SECTION AND DETAILS	
ISSUED FOR CONSTRUCTION -- PC-028A						CAPITAL PROJECTS AND FACILITIES DIVISION			
NO.	DATE	BY	APPD.	REVISIONS		SUBMITTED:	DATE:	APPROVED:	DATE:
		CHK.							
						710 N.E. HOLLADAY STREET		AS SHOWN	
						PORTLAND, OREGON 97232		DRAWING NO.: E15E-751	
								CONTRACT NO.: RH110162JB	
								SHEET NO.:	



## Lighting Guidelines

Lighting guidelines include specific descriptive requirements for recommended and not recommended lighting. The guidelines are organized by lighting types. Lighting types include:

- Exterior Building Lighting
- Parking Lot Lighting
- Landscape Lighting
- Sign Lighting

Visual examples are included as models for design and review purposes. They are intended to provide designers and the DLC a means with which to recognize recommended and not recommended lighting types.

## Lighting Guidelines

Milwaukie Downtown Design Guidelines

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### Intent

The lighting of buildings and open spaces should not only provide security at night but also contribute to the overall sense that downtown is an active and vital place, both day and night.

Lighting should be designed to be not simply utilitarian but also to encourage nighttime patronage of downtown businesses and restaurants. Effective and appropriate lighting should create a pleasant, festive atmosphere. Use of glaring, offensively colored lights should be discouraged.



Recommended: A variety of lighting treatments contribute to an atmosphere of festivity and activity (*SW Yamhill and 5th, Portland*)



# Lighting Guidelines

Milwaukie Downtown Design Guidelines

## Exterior Building Lighting

### Guideline

*Architectural lighting should be an integral component of the facade composition.*

### Description

Architectural lighting may be used to articulate the particular building design. Lighting of cornices, uplighting, and other effects may be used.

Lighting should not cast glare onto adjacent lots or streets in any way that decreases the safety of pedestrians and vehicles. Lights may, however, be used to create effects of shadow, relief and outline that add visual interest and highlight aspects of the building.

### Recommended

- Metal halide lights.
- Wall-washing lighting fixtures.
- Decorative wall sconce and similar architectural lighting fixtures.
- Screened uplight fixtures on buildings or integrated with landscape.

### Not Recommended

- Neon silhouette accent lighting.
- Bulb or flashing lighting.
- Fluorescent tube lighting.
- Security spotlight.



Recommended: Decorative wall sconce designed as part of overall building facade composition (SW Yamhill and 5th, Portland)



Recommended: Wall-washing light fixtures can add drama to buildings at night (SW 10th and Yamhill, Portland)

## Lighting Guidelines

Milwaukie Downtown Design Guidelines

### Parking Lot Lighting

#### Guideline

*Ornamental street lights should be used to be compatible with downtown streetlight standards identified in the Public Area Requirements.*

#### Description

Parking lot lighting should be provided for retail and office uses. Driveways, parking bays and parking lot pedestrian circulation routes should be lighted.

#### Recommended

- Historic street lights in a parking lot setting.
- Pole standards should be black or a very dark green in color.
- Standards may accommodate banners and hanging flower pots. Automatic drip irrigation for the pots should be considered.
- Light standards should be located in landscaped areas wherever possible to protect fixtures from automobile damage.

#### Not Recommended

- Concrete light fixture bases should be no taller than 8 feet.
- Parking lot lighting should be designed to avoid unnecessary illumination of residential areas.
- Ornamental or contemporary light fixtures which are incompatible with downtown street light fixtures.
- Parking lot fixtures taller than 15'.

#### **Code Required Public Area Requirements:**

##### *3.4 Street Lights*



Recommended: Historic-style standards (Salem Capitol Mall)



Not Recommended: Overscaled, utilitarian lights in parking lots (SW 2nd and Alder, Portland)



Not Recommended: Contemporary-style standards (NW 23rd and Flanders, Portland)

# Lighting Guidelines

Milwaukie Downtown Design Guidelines

## Landscape Lighting

### Guideline

*Lighting should be used to highlight sidewalks, street trees and other landscape features. Landscape lighting is especially appropriate as a way to provide pedestrian safety during holiday periods.*

### Description

Lights may be used to highlight trees and similar features within public and private plazas, courtyards, walkways and other similar outdoor areas at night to create excitement and a festive ambiance.

### Recommended

- Seasonal string lights on buildings and trees.
- Footlighting that illuminates walkways and stairs. Fixtures concealed and integrated into the design of buildings or landscape walls and stairways.
- Bollard lighting that is directed downward toward surfaces people walk on.

### Not Recommended

- Flashing or colored lights.
- Exposed cords, outlets or other electrical devices that may provide safety hazards and are unsightly.
- Lights such as “icicle” style lights that affect the appearance of facades or landscaping during the daytime.
- Contemporary fixtures, or overscaled, utilitarian fixtures such as “cobra-head” lights.



Recommended: String lights create excitement and festive ambiance.  
(NW Hoyt and 23rd, Portland)



Recommended: Foot lighting  
(Portland Art Museum)



Recommended:  
Ornamental light fixture  
(Eastbank Esplanade,  
Portland)



Not Recommended:  
Contemporary-style  
standards (Eastbank  
Esplanade, Portland)

## Lighting Guidelines

Milwaukie Downtown Design Guidelines

### Sign Lighting

#### Guideline

*Sign lighting should be designed as an integral component of the building and sign composition.*

#### Description

Sign lighting may provide interest not only during nighttime but also daytime. Sign lighting should be oriented toward pedestrians along adjacent streets and open spaces.

#### Recommended

- “Gooseneck” lighting that illuminates wall-applied signs.
- Sign silhouette backlighting.
- Incandescent or fluorescent bulb or low-voltage lighting.

#### Not Recommended

- Backlight vinyl awning sign lighting.
- Interior plastic sign lighting.
- Metal halide, neon or fluorescent tube sign lighting.
- Signs lit by lights containing exposed electrical conduit, junction boxes or other electrical infrastructure.



Recommended: Gooseneck lighting that illuminates a wall sign (SW 5th and Alder, Portland)



Not Recommended: Exposed utilitarian lighting (SW Salmon and 9th, Portland)