

# Attachment F

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**Before the Planning Commission in and for the  
County of Monterey, State of California**

**County of Monterey (REF130036)**

**RESOLUTION NO. 15-051**

Resolution by the Monterey County Planning Commission to recommend the Board of Supervisors:

1. Consider an addendum together with the FEIR for the General Plan
2. Adopt an ordinance to amend Title 21 (non-coastal zoning ordinance) of the Monterey County Code to:
  - a. Add Chapter 21.63 – Design Guidelines
  - b. Revise the site development standards in all zoning districts to require review and approval of all exterior lighting by the RMA-Director of Planning for consistency with the Design Guidelines for Exterior Lighting; and
3. Adopt a resolution approving the Monterey County Design Guidelines for Exterior Lighting which defines lighting terms and details specific performance criteria to implement Land Use Element Policy 1.13 of the 2010 Monterey County General Plan.

[REF130036, Exterior Lighting Criteria, Inland only]

WHEREAS, pursuant to Article XI, Section 7 of the California Constitution, the County of Monterey (“County”) may adopt and enforce ordinances and regulations not in conflict with general laws to protect and promote the public health, safety, and welfare of its citizens.

WHEREAS, future development allowed by the General Plan in Monterey County will result in new sources of nighttime lighting. These new sources may result in light trespass, light pollution, and glare. Light trespass is unwanted light from a neighboring property or roadway and can be both a nuisance and a health and safety risk. Glare and light pollution could result in sky glow, the haze of light that surrounds highly populated areas. Excessive nighttime lighting could alter the visual appearance of Monterey County landscapes, disrupt flora and fauna life cycles, and reduce the ability to see and enjoy the night sky.

WHEREAS, excessive glare and light pollution can be minimized through proper light fixture design and shielding. The 2010 General Plan Land Use Element Policy LU-1.13 states that all exterior lighting shall be unobtrusive and constructed or located so that only the intended area is illuminated, long range visibility is reduced, and off-site glare is fully controlled. The policy calls for the development of enforceable design guidelines to guide the review and approval of exterior lighting with specific criteria on the direction of light, shielding, and where lighting is allowed.

WHEREAS, on December 11, 2013 the Planning Commission conducted a public workshop to consider types of exterior lighting regulations and related General Plan policies.

Following the Planning Commission workshop, both regulations and design guidelines have been developed to allow both flexibility and enforceability.

WHEREAS, the proposed Design Guidelines for Exterior Lighting define lighting terms and provide specific performance criteria for the location/direction of fixtures, fixture design, and number of fixtures for projects. Additionally, the document addresses exceptions for when the guidelines would not apply, provides information on energy efficiency and best management practices as it relates to exterior lighting, and includes visual aids for various types of acceptable and non acceptable lighting fixtures.

WHEREAS, the draft ordinance will add Chapter 21.63 to Title 21 of Monterey County Code, the inland zoning ordinance, to establish a process by which the Board of Supervisors may adopt design guidelines for site design, exterior lighting, and other potential design-related topics for new development. The ordinance provides for the Board of Supervisors adoption of Design Guidelines for Exterior Lighting, which would define lighting terms and provides specific performance criteria for the location/direction of fixtures, fixture design, and number of fixtures for projects.

WHEREAS, the draft ordinance will also amend the site development standards for all non-coastal zoning districts within Title 21 to require, with some exceptions, that all exterior lighting be reviewed and approved by the RMA-Director of Planning for consistency with the Design Guidelines for Exterior Lighting. The revisions to Title 21 contained in the draft ordinance provide codification of a process for review of exterior guidelines for consistency with the General Plan policy.

WHEREAS, the Final EIR for the 2010 General Plan was certified by the Board of Supervisors on October 26, 2010. This document determined the alteration of the localized visual character and introduction of new sources of light and glare in designated growth areas from implementation of the General Plan would have significant and unavoidable impacts. An addendum to the FEIR of the General Plan has been prepared, finding that the ordinance amending Title 21 and the addition of Design Guidelines do not result in new significant environmental effects or more severe environmental effects than identified in the FEIR; they provide a process to implement the General Plan policies to reduce impacts of light and glare. Therefore, no revisions to the Final EIR are necessary pursuant to Section 15164 of the CEQA Guidelines.

WHEREAS, the draft ordinance and proposed Design Guidelines have been sent to interested parties and stakeholders for review, including the Monterey Institute for Research in Astronomy, Streamline Task Force, and Turn Down the Lights, and staff have considered and taken into account all recommendations.

WHEREAS, on November 18, 2015, the Planning Commission held a duly noticed public hearing to consider 1) the Addendum to the Final EIR together with the FEIR, 2) the draft of the Design Guidelines for Exterior Lighting, and 3) proposed changes to Title 21 contained in the draft ordinance.

## DECISION

**NOW, THEREFORE**, based on the above findings and evidence, the Planning Commission does hereby recommend the Board of Supervisors:

1. Consider an addendum together with the FEIR for the 2010 General Plan;
2. Adopt an ordinance to amend Title 21 (non-coastal zoning ordinance) of the Monterey County Code, in substantially the same form as **Attachment 1**, attached hereto and incorporated by reference, to:
  - a. Add Chapter 21.63 – Design Guidelines with recommendation that the exemption for historic structures specify that it applies only to lighting that contributes to the historic attributes of the structure; and
  - b. Revise the site development standards in all zoning districts to require review and approval of all exterior lighting by the RMA- Director of Planning for consistency with the Design Guidelines for Exterior Lighting, with recommendation to remove proposed paragraph 2 of the Lighting Requirements, thereby eliminating the requirement that adding or replacing exterior light fixtures on existing structures must be consistent with the Design Guidelines; and
3. Adopt a resolution adopting the County of Monterey Design Guidelines for Exterior Lighting with recommendation that the exemption for historic structures specify that it applies only to lighting that contributes to the historic attributes of the structure, in substantially the same form as **Attachment 2**, attached hereto and incorporated by reference.

**PASSED AND ADOPTED** this 18th day of November, 2015 upon motion of Commissioner Vandevere, seconded by Commissioner Getzelman, by the following vote:

AYES: Vandevere, Getzelman, Diehl, Hert, Roberts, Padilla, Mendez  
NOES: None  
ABSENT: Brown, Rochester  
ABSTAIN: None

  
\_\_\_\_\_  
Mike Novo, Secretary

**ATTACHMENT 1**

ORDINANCE NO. \_\_\_\_\_

**AN ORDINANCE OF THE COUNTY OF MONTEREY, STATE OF CALIFORNIA, ADDING CHAPTER 21.63 TO THE MONTEREY COUNTY CODE RELATING TO THE ESTABLISHMENT OF DESIGN GUIDELINES AND AMENDING TITLE 21 OF THE MONTEREY COUNTY CODE RELATING TO EXTERIOR LIGHTING REQUIREMENTS FOR ALL NON-COASTAL ZONING DISTRICTS.**

**County Counsel Summary**

*This ordinance adds Chapter 21.63 to Title 21 (non-coastal zoning ordinance) of the Monterey County Code to establish a process by which the Board of Supervisors may adopt design guidelines for site design, exterior lighting, and other potential design-related topics for new development in the non-coastal unincorporated area of Monterey County. The ordinance specifically provides for adoption by the Board of Supervisors of Design Guidelines for Exterior Lighting for the non-coastal unincorporated area of Monterey County. The purpose of the Guidelines is to define lighting terms and detail specific performance criteria to implement 2010 Monterey County General Plan policy that exterior lighting be unobtrusive, reduce off-site glare, and only light an intended area. This ordinance also amends the site development standards for all non-coastal zoning districts to require, with some exceptions, that all exterior lighting associated with new construction permits and the addition or replacement of exterior lighting fixtures on existing development be consistent with the Design Guidelines. Such exterior lighting would be subject to review and approval by the County Director of Planning.*

The Board of Supervisors of the County of Monterey ordains as follows:

**SECTION 1. FINDINGS AND DECLARATIONS.**

- A. Pursuant to Article XI, section 7 of the California Constitution, the County of Monterey (“County”) may adopt and enforce ordinances and regulations not in conflict with general laws to protect and promote the public health, safety, and welfare of its citizens.
- B. This ordinance proposes to add Chapter 21.63 to Title 21 of Monterey County Code, the inland zoning ordinance, to establish a process by which the Board of Supervisors may adopt design guidelines for site design, exterior lighting, and other potential design-related topics for new development.
- C. Future development in Monterey County will result in new sources of night time lighting. These new sources may result in light trespass, light pollution, and glare. Light trespass is unwanted light from a neighboring property or roadway and can be both a nuisance and a health and safety risk. Glare and light pollution could result in sky glow, the haze of light that surrounds highly populated areas. Excessive glare and light pollution can be minimized through proper placement and light fixture design. The 2010 General Plan Land Use Element Policy LU-1.13 states that all exterior lighting shall be unobtrusive and constructed or located so that only the intended area is illuminated,

long range visibility is reduced, and off-site glare is fully controlled. The policy calls for the development of enforceable design guidelines to guide the review and approval of exterior lighting with specific criteria on the direction of light, shielding, and location of lighting. The ordinance provides for the Board of Supervisors' adoption of Design Guidelines for Exterior Lighting, which would define lighting terms and provides specific performance criteria for the location/direction of fixtures, fixture design, and number of fixtures for projects. The ordinance also amends each zoning district to require most new exterior lighting be reviewed and approved by the Director of Planning for consistency with the Design Guidelines for Exterior Lighting.

D. This ordinance is intended to implement the General Plan policies to reduce impacts of light and glare associated with development. The Final EIR for the 2010 General Plan was certified by the Board of Supervisors on October 26, 2010. This document determined the alteration of the localized visual character and the introduction of new sources of light and glare in designated growth areas from implementation of the General Plan would have significant and unavoidable impacts. An addendum to the FEIR of the General Plan has been prepared pursuant to CEQA Guidelines section 15164 for this ordinance. The ordinance, which provides for adoption of the Design Guidelines, is not a substantial change that would involve new significant environmental effects or a substantial increase in the severity of significant effects previously identified by the EIR, nor are there changes in circumstance or new information that would involve new significant environmental effects or a substantial increase in the severity of significant effects previously identified by the EIR. As found by the EIR, the Design Guidelines for Exterior Lighting and enforcement of these guidelines for all new exterior lighting in inland Monterey County, with few exceptions, would minimize impacts of new light sources and glare resulting from these light sources, but would not reduce significant effects to a level of less than significant.

SECTION 2. Chapter 21.63 is added to the Monterey County Code to read as follows:

**CHAPTER 21.63  
DESIGN GUIDELINES**

**Sections:**

**21.63.010 – Purpose.**

**21.63.020 – Design Guidelines for Exterior Lighting.**

**21.63.010 Purpose.**

The purpose of this Chapter is to establish a process by which the Board of Supervisors may adopt design guidelines for site design, exterior lighting, and other potential design-related topics for new development. The intent of these guidelines is to provide guiding principles and criteria for siting and design of development projects without dictating a particular design feature or architectural style. Utilization of these design guidelines is intended to enhance the preservation of Monterey County's environmental and visual resources such as views of the night sky, sensitive public viewsheds, and natural landscapes.

**21.63.020 Design Guidelines for Exterior Lighting.**

A. The Board of Supervisors shall by resolution adopt, and may from time to time amend, design guidelines for exterior lighting, which shall be known as the County of Monterey Design Guidelines for Exterior Lighting. The purpose of these guidelines is to implement Policy LU-1.13 of the 2010 General Plan that requires exterior lighting to be unobtrusive, reduce off-site glare, and only light an intended area.

B. The Design Guidelines for Exterior Lighting shall establish criteria for the location and direction of fixtures, number of fixtures, and design of fixtures so as to make exterior lighting unobtrusive, reduce off-site glare, and light only the intended area. These guidelines shall be enforceable by the Director of Planning.

C. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting. For any existing development, any added or replacement lighting shall be consistent with the Design Guidelines for Exterior Lighting.

D. The following types of lighting are exempt from subsection C above:

1. Navigational lighting (airports, heliports, communication towers);
2. Seasonal lighting;
3. Solar path lighting;
4. Temporary lighting for activities of a limited duration such as emergency activities, construction, and agricultural harvesting;
5. Lighting for national monuments and national parks; and
6. Lighting for national, state or locally registered historic buildings or structures.

E. Additionally, the Design Guidelines for Exterior Lighting shall include information on energy efficiency and best management practices for exterior lighting.

SECTION 3. Subsection H of Section 21.10.060 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. For developments of more than two dwelling units on a lot, all exterior lighting shall be unobtrusive, harmonious with the local area and constructed or located so that only the area intended is illuminated and off-site glare is fully controlled. The location, type and wattage of the exterior lighting must be approved by the Director of Planning prior to the issuance of building permits or the establishment of the use.~~

- ~~1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of the permit.~~
- ~~4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - ~~a) Plans indicating the location of each light fixture; and~~
  - ~~b) Manufacturer's catalog specification sheet for each type of fixture.~~
  - ~~c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.~~~~



SECTION 4. Subsection H of Section 21.12.060 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. For developments of more than two dwelling units on a lot, all exterior lighting shall be unobtrusive, harmonious with the local area and constructed or located so that only the area intended is illuminated and off-site glare is fully controlled. The location, type and wattage of the exterior lighting must be approved by the Director of Planning prior to the issuance of building permits or the establishment of the use.~~

- ~~1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.~~
- ~~4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - ~~a) Plans indicating the location of each light fixture; and~~
  - ~~b) Manufacturer's catalog specification sheet for each type of fixture.~~
  - ~~c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.~~~~

SECTION 5. Subsection H of Section 21.14.060 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. None, except as may be required by condition of approval of an Administrative or Use Permit.~~

- ~~1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.~~
- ~~4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - ~~a) Plans indicating the location of each light fixture; and~~
  - ~~b) Manufacturer's catalog specification sheet for each type of fixture.~~
  - ~~c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.~~~~

SECTION 6. Subsection H of Section 21.16.060 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. None, except as may be required by condition of approval of an Administrative or Use Permit.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture; and
  - b) Manufacturer's catalog specification sheet for each type of fixture.
  - c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 7. Subsection E of Section 21.18.070 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. All exterior lighting shall be unobtrusive, harmonious with the local area and constructed or located so that only the area intended is illuminated and off-site glare is fully controlled. The location, type and wattage of the exterior lighting must be approved by the Director of Planning prior to the issuance of building permits or the establishment of the use.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture;
  - b) Photometric study, prepared by a licensed engineer, showing existing and proposed lighting intensity in foot-candles for the subject parcel and surrounding parcels; and
  - c) Manufacturer's catalog specification sheet for each type of fixture.
  - d) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 8. Subsection E of Section 21.20.070 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. All exterior lighting shall be unobtrusive, harmonious with the local area and constructed or located so that only the area intended is illuminated and off-site glare is fully controlled. The location, type and wattage of the exterior lighting must be approved by the Director of Planning prior to the issuance of building permits or the establishment of the use.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture;
  - b) Photometric study, prepared by a licensed engineer, showing existing and proposed lighting intensity in foot-candles for the subject parcel and surrounding parcels; and
  - c) Manufacturer's catalog specification sheet for each type of fixture.
  - d) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 9. Subsection E of Section 21.22.070 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. All exterior lighting shall be unobtrusive, harmonious with the local area and constructed or located so that only the area intended is illuminated and off-site glare is fully controlled. The location, type and wattage of the exterior lighting must be approved by the Director of Planning prior to the issuance of building permits or the establishment of the use.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture;
  - b) Photometric study, prepared by a licensed engineer, showing existing and proposed lighting intensity in foot-candles for the subject parcel and surrounding parcels; and
  - c) Manufacturer's catalog specification sheet for each type of fixture.
  - d) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 10. Subsection F of Section 21.24.070 of the Monterey County Code is amended to read as follows:

Lighting Plan Requirements. ~~All exterior lighting shall be unobtrusive, harmonious with the local area and constructed or located so that only the area intended is illuminated and off-site glare is fully controlled. The location, type and wattage of the exterior lighting must be approved by the Director of Planning prior to the issuance of building permits or the establishment of the use.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture;
  - b) Photometric study, prepared by a licensed engineer, showing existing and proposed lighting intensity in foot-candles for the subject parcel and surrounding parcels; and
  - c) Manufacturer's catalog specification sheet for each type of fixture.
  - d) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 11. Subsection E of Section 21.26.070 of the Monterey County Code is amended to read as follows:

Lighting Plan Requirements. ~~All exterior lighting shall be unobtrusive, harmonious with the local area and constructed or located so that only the area intended is illuminated and off-site glare is fully controlled. The location, type and wattage of the exterior lighting must be approved by the Director of Planning prior to the issuance of building permits or the establishment of the use.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture;
  - b) Photometric study, prepared by a licensed engineer, showing existing and proposed lighting intensity in foot-candles for the subject parcel and surrounding parcels; and
  - c) Manufacturer's catalog specification sheet for each type of fixture;
  - d) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 12. Subsection E of Section 21.28.070 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. All exterior lighting shall be unobtrusive, harmonious with the local area and constructed or located so that only the area intended is illuminated and off-site glare is fully controlled. The location, type and wattage of the exterior lighting must be approved by the Director of Planning prior to the issuance of building permits or the establishment of the use.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture;
  - b) Photometric study, prepared by a licensed engineer, showing existing and proposed lighting intensity in foot-candles for the subject parcel and surrounding parcels; and
  - c) Manufacturer's catalog specification sheet for each type of fixture.
  - d) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 13. Subsection G of Section 21.30.060 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. None, except as required as a condition of approval of an Administrative Permit or Use Permit.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture; and
  - b) Manufacturer's catalog specification sheet for each type of fixture.
  - c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 14. Subsection H of Section 21.32.060 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. None, except as required as a condition of approval of an Administrative Permit or Use Permit.~~

- ~~1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.~~
- ~~4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - ~~a) Plans indicating the location of each light fixture; and~~
  - ~~b) Manufacturer's catalog specification sheet for each type of fixture.~~
  - ~~c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.~~~~

SECTION 15. Subsection G of Section 21.34.060 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. None, except as required as a condition of approval of an Administrative Permit or Use Permit.~~

- ~~1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~
- ~~3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.~~
- ~~4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - ~~a) Plans indicating the location of each light fixture; and~~
  - ~~b) Manufacturer's catalog specification sheet for each type of fixture.~~
  - ~~c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.~~~~

SECTION 16. Subsection H of Section 21.36.060 of the Monterey County Code is amended to read as follows:

~~Lighting Plan Requirements. None, except as required as a condition of approval of an Administrative Permit or Use Permit.~~

- ~~1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.~~

2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture; and
  - b) Manufacturer's catalog specification sheet for each type of fixture.
  - c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 17. Subsection H of Section 21.38.060 of the Monterey County Code is amended to read as follows:

Lighting Plan Requirements. ~~None, except as required as a condition of approval of an Administrative Permit or Use Permit.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.
4. Applications for construction permits which are subject to these lighting regulations must include the following information:
  - a) Plans indicating the location of each light fixture; and
  - b) Manufacturer's catalog specification sheet for each type of fixture.
  - c) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 18. Subsection H of Section 21.40.060 of the Monterey County Code is amended to read as follows:

Lighting Plan Requirements. ~~None, except as required as a condition of approval of an Administrative Permit or Use Permit.~~

1. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
2. When exterior light fixtures on existing development are added or replaced, the added or replacement fixtures shall be consistent with the Design Guidelines for Exterior Lighting adopted by the Board of Supervisors pursuant to Section 21.63.020.
3. The Director of Planning shall review and approve all exterior lighting associated with any construction permit prior to issuance of permit.

4. Applications for construction permits which are subject to these lighting regulations must include the following information:
- a) Plans indicating the location of each light fixture;
  - b) Photometric study, prepared by a licensed engineer, showing existing and proposed lighting intensity in foot-candles for the subject parcel and surrounding parcels; and
  - c) Manufacturer's catalog specification sheet for each type of fixture.
  - d) The Director of Planning may waive these submittal requirements or request additional information, as deemed necessary on a project by project basis.

SECTION 19. SEVERABILITY. If any section, subsection, sentence, clause or phrase of this ordinance is for any reason held to be invalid, such decision shall not affect the validity of the remaining portions of this ordinance. The Board of Supervisors hereby declares that it would have passed this ordinance and each section, subsection, sentence, clause and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses, or phrases be declared invalid.

SECTION 20. EFFECTIVE DATE. This ordinance shall become effective on the 31st day following its adoption.

PASSED AND ADOPTED on this \_\_\_\_ day of \_\_\_\_\_, 2015, by the following vote:

AYES:  
 NOES:  
 ABSENT:  
 ABSTAIN:

\_\_\_\_\_  
 Simon Salinas, Chair  
 Monterey County Board of Supervisors

A T T E S T:

GAIL T. BORKOWSKI  
 Clerk of the Board

By: \_\_\_\_\_  
 Deputy

APPROVED AS TO FORM BY:

\_\_\_\_\_  
 Wendy S. Strimling  
 Senior Deputy County Counsel





# Monterey County RMA- Planning DRAFT Design Guidelines for Exterior Lighting

## 1. Purpose

The purpose of the Design Guidelines for Exterior Lighting is to implement Policy LU 1.13 of the General Plan that requires exterior lighting to be unobtrusive, reduce off-site glare, and only light an intended area. The design guidelines establish criteria for the location and direction of fixtures, number of fixtures, and design of fixtures. This document provides information on energy efficiency and best management practices for exterior lighting and visual aids for various types of acceptable light fixtures.

## 2. Applicability

These guidelines will be applicable to the inland areas of Monterey County and enforceable by the Director of Planning pursuant to Chapter 21.63 of Monterey County Code. For any new development that includes exterior lighting, all exterior lighting shall be consistent with the design guidelines. For any existing development, any added or replaced lighting shall be consistent with the design guidelines. The following exceptions apply:

1. Navigational lighting (airports, heliports, communication towers);
2. Seasonal lighting;
3. Solar path lighting;
4. Temporary lighting for activities of a limited duration such as emergency activities, construction, and agricultural harvesting;
5. Lighting for national monuments and national parks; and
6. Lighting for national, state or locally registered historic buildings or structures.

## 3. Definitions

*Direct Illumination* – the direct view of a light source

*Fully shielded* - shielding that does not allow the light source to protrude outside the shield

*Glare* – Direct Illumination of intensity great enough to reduce a viewer’s ability to see

*Light fixture* – a complete lighting unit consisting of a lamp or lamps together with the parts designed to distribute the light, position and protect the lamps, and connect to power supply

*Light source* – source of artificial light in the form of a bulb or lamp

*Light trespass* – direct illumination that can be seen from adjacent property

*Light pollution* – artificial light which causes a detrimental effect on the environment, astronomical research or enjoyment of the night sky or causes undesirable glare or unnecessary illumination of adjacent property

*Shielding* – a barrier around a fixture that helps to conceal the light source and direct light to an intended area

*Temporary lighting* – lighting used for activities of a limited duration, e.g., emergency activities, construction, agriculture, etc.

*Translucent* – allowing the passage of diffused light

*Transparent* – allowing the direct passage of light

# Monterey County RMA- Planning

## DRAFT Design Guidelines for Exterior Lighting

### 4. Energy Efficiency

The Board of Supervisors adopted California Code Title 24, Part 6 as the Energy Code for Monterey County in Section 18.08.010 of Monterey County Code (MCC) in December of 2010. This code implements two things: 1) default lighting zones for the entire state, and 2) mandatory lighting standards for non residential projects. These standards include wattage allowance for projects according to the lighting zones (state parks, rural, urban areas). The purpose of the zones is to appropriately limit wattage for projects within the area to the surrounding environment. Additionally, these standards include mandatory requirements for exterior lighting, such as time-switch lighting controls, daylighting controls, and motion sensing controls. RMA-Building Services ensures consistency of these regulations through review of construction permits.

Utilization of energy efficient light bulbs provides long term financial benefits and lessens impact on the environment. Typical energy efficient light bulbs include halogen incandescent, compact fluorescent lamps (CFL), and light emitting diode (LED). These light bulbs will provide the same illumination while using significantly less energy and have a longer life expectancy than an average light bulb. Other elements of energy efficient lighting are proper fixture design, placement, and best management practices. If a light is properly shielded and directed, the energy is being used more efficiently to light the intended area.

Best management practices include:

- Retrofitting less energy efficient bulbs (incandescent)
- Turning off lights when not in use
- Utilizing motion sensors on all exterior lights
- Utilizing warm light bulbs (typically 2700-3000 Kelvin)

### 5. Performance criteria

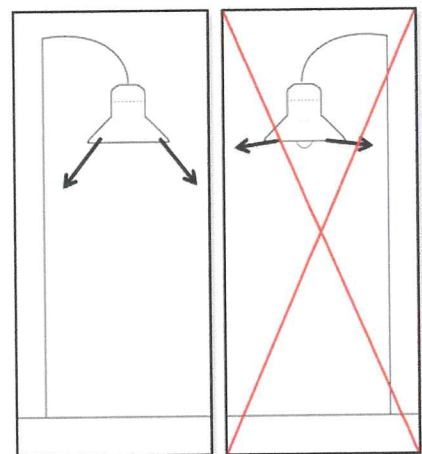
Implementation of the following performance criteria will result in exterior lighting that limits offsite glare, reduces energy consumption, and lessens impacts to light pollution and flora and fauna:

#### a. Location & Direction of fixtures

- angled vertically downward
- directed at an intended area
- located/mounted on existing structures, poles, or ground
- fixture placement will not result in direct illumination of adjacent properties

#### b. Fixture Design

- Fully shielded
- Opaque shielding material is optimal
- Shielding material may be translucent for residential fixtures of low intensity
- Fixture should not utilize sag lens or refracted light components



# Monterey County RMA- Planning

## DRAFT Design Guidelines for Exterior Lighting

### c. Number of fixtures

- minimum fixtures necessary (for safety and as required by MCC Building Code) to achieve lighting of intended area(s)

### 6. Examples of acceptable light fixtures

The following images represent fixtures that utilize the performance criteria in Section 5, in comparison to fixtures that do not. Acceptable fixtures are not limited to those contained in this Section; the online resources below can guide applicants to fixtures that are nighttime friendly. The general theme is that the acceptable fixtures *fully shield* the light source to ensure the light cascades downward. This is accomplished by placing the light bulb inside a fixture shield that light cannot pass through. If the design of a fixture does not provide adequate shielding, the light may direct upwards into the sky as opposed to the intended area. These unacceptable fixtures contain features like sag lens and refractors that extend the light source outside of the fixture shield, resulting in light that projects outward, upward, and downward. Unacceptable fixtures produce glare, are less energy efficient, and contribute to light pollution.



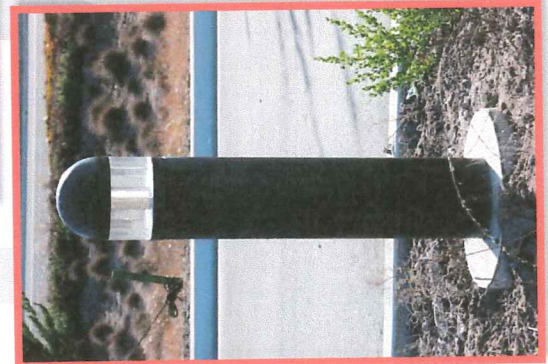
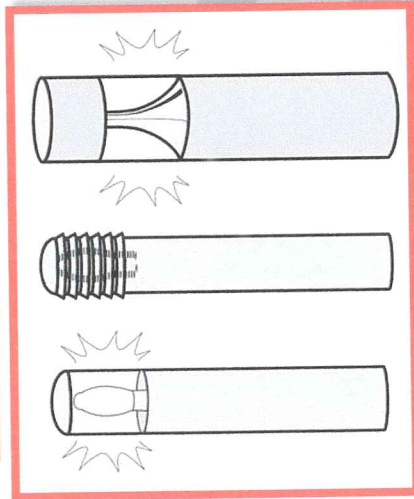
***RULE OF THUMB: if you can see the light bulb extending below the fixture from outside the area intended to be illuminated, the shielding is inadequate. Search acceptable fixtures [here](#).***



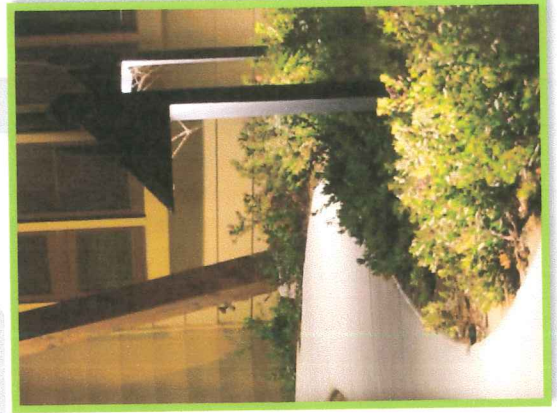
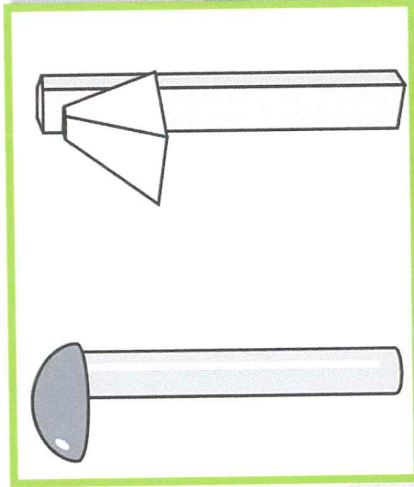
# 6.a. PATH/BOLLARD LIGHTING

Acceptable bollards utilize shielded hoods and are directed downwards towards the path. Many unacceptable bollards build the lighting into the bollard without shielding or utilize refracting material, which directs the light outward instead of onto the path.

## UNACCEPTABLE



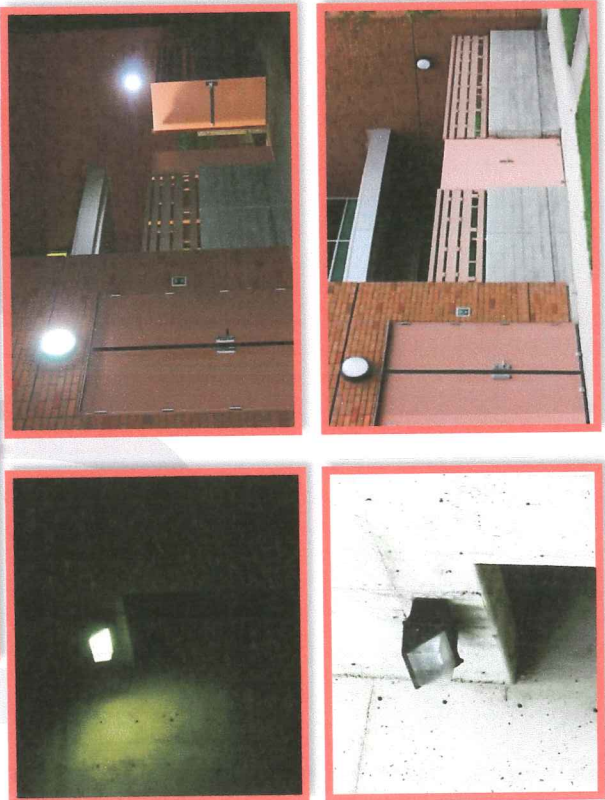
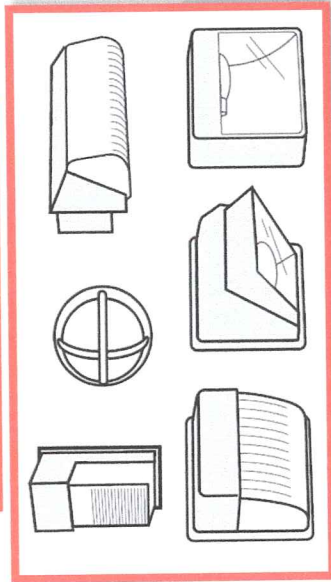
## ACCEPTABLE



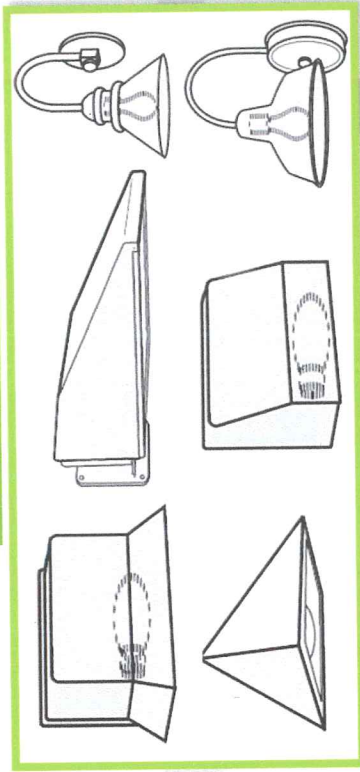
# 6.b. BUILDING MOUNTED LIGHTING

Building mounted lighting is used in industrial and commercial settings, and typically doubles as safety lighting which requires a higher intensity bulb. Fully shielded lights are of utmost importance here, as utilizing translucent fixtures will not sufficiently minimize glare from a high intensity bulb. Light fixtures that utilize drop-lens or sag-lens are not acceptable, as the light source is then exposed and results in glare.

## UNACCEPTABLE



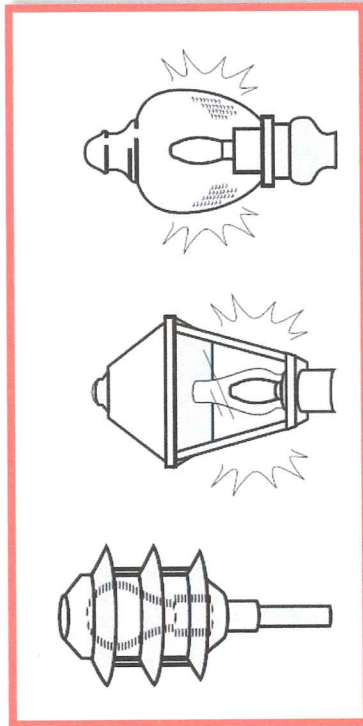
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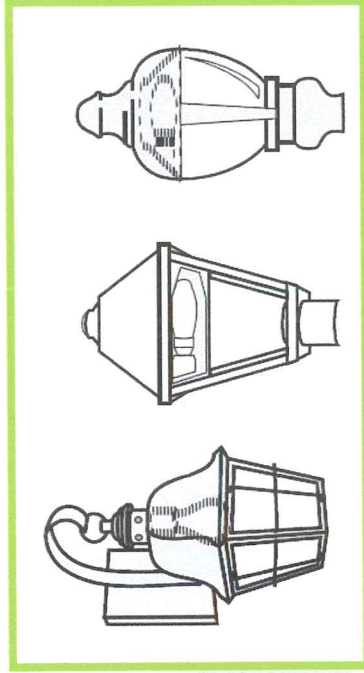
# 6.C. RESIDENTIAL LIGHTING

There are many forms of decorative fixtures for residential lighting, both pole and building mounted. Key components would be to utilize recessed lighting elements. Residential lighting that use translucent material to cover the light source may be acceptable if the bulbs are of sufficiently low intensity.

## UNACCEPTABLE



## ACCEPTABLE

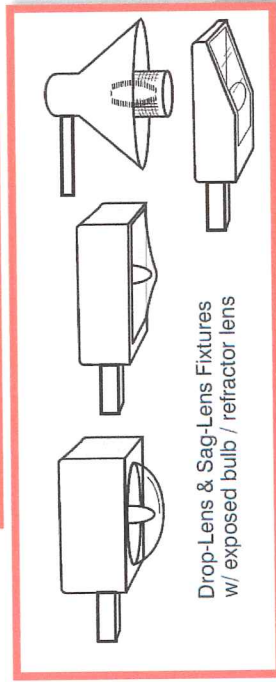




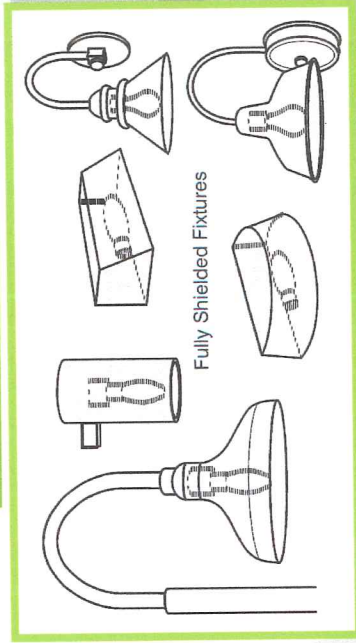
# 6.d. STREET LIGHTING (ped/bike)

Pedestrian and Vehicle street lighting differ in that vehicle lighting poles tend to be taller and spaced farther apart. Pedestrian lighting can be fixed on shorter poles and placed closer together to create a pedestrian scale setting. In both cases, bulbs are typically of a high wattage and require fully shielded fixtures. The light source should only be seen if walking under the pole.

## UNACCEPTABLE



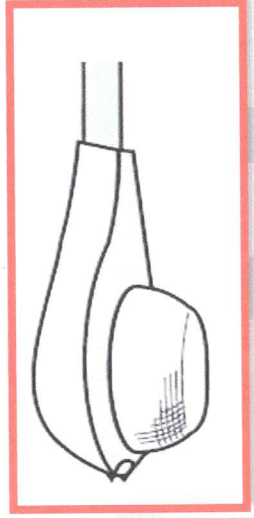
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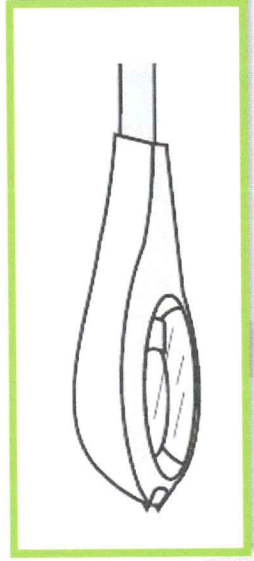
# 6.d. STREET LIGHTING (vehicle)

Both street and pedestrian lighting is typically permitted through larger developments such as subdivisions or in community services areas. These discretionary processes will allow for public participation of a particular style of fixture design; however the fixtures will need to comply with Section 5 of this document.

## UNACCEPTABLE



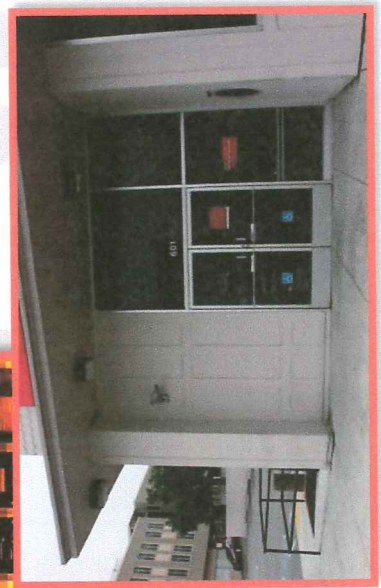
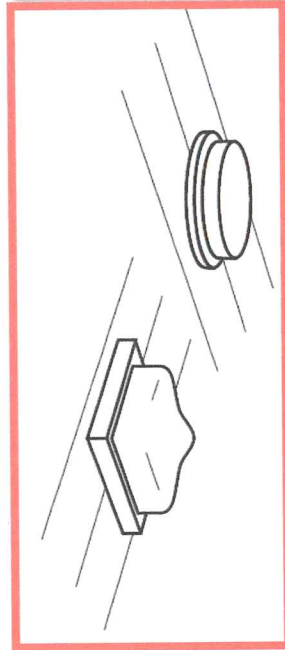
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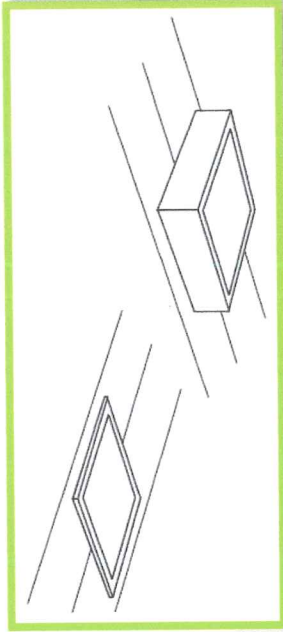
# 6.e. CANOPY LIGHTING

Canopy lighting is utilized under awnings and canopies in both residential and commercial areas. Commercial examples are for bank ATM's and covered walkways, and residential canopies are used on decks and outdoor patios. In either case, the light fixture should be recessed into the ceiling or have shielded sides if mounted onto the ceiling.

## UNACCEPTABLE



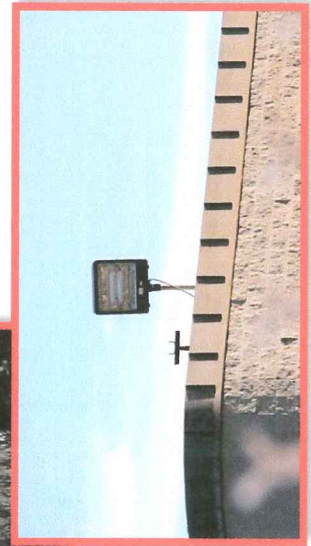
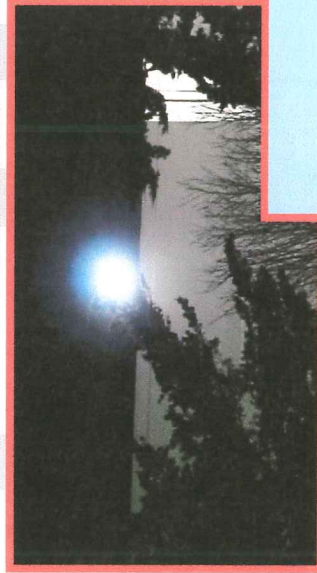
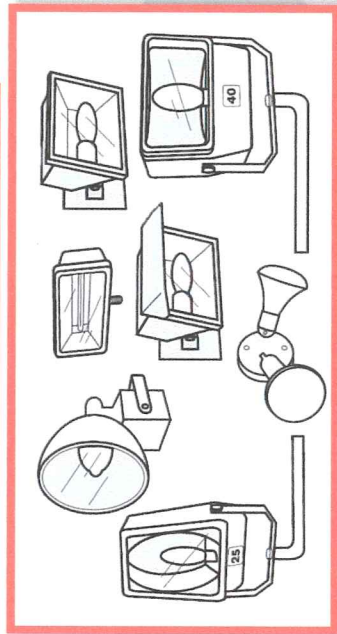
## ACCEPTABLE



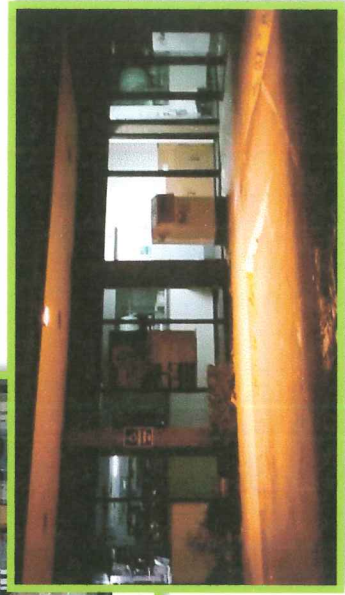
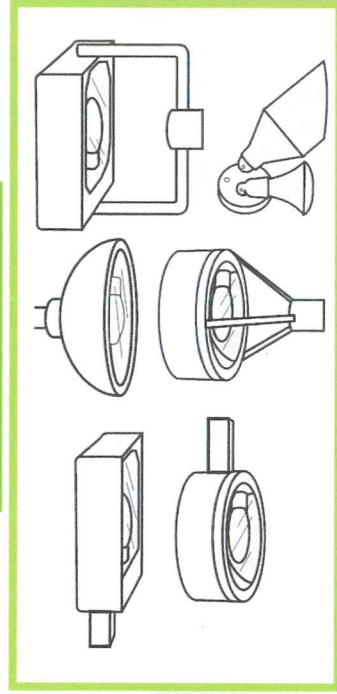
# 6.f. SAFETY LIGHTING

Typical lights used for safety are floodlights and barn lights. A common mistake with safety lighting is an attempt to use only one or two high intensity lights to provide sufficient illumination for an entire property. These lights are installed and angled outward and/or upward to light into the distance; however this only produces a significant amount of glare that can be viewed directly offsite and from a distance. Floodlights require shield hoods and should be directed downward. If necessary, appropriately shielded lights should be installed at intervals to cover the property's safety needs.

## UNACCEPTABLE



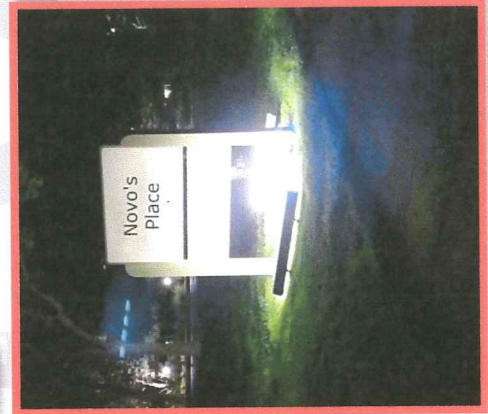
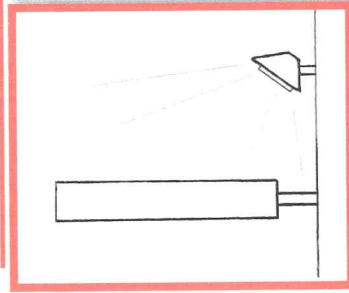
## ACCEPTABLE



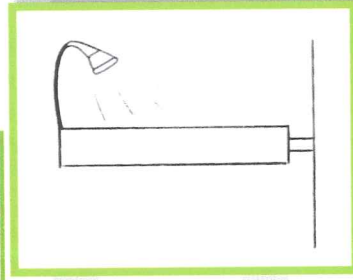
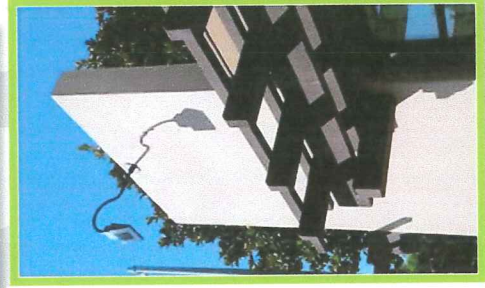
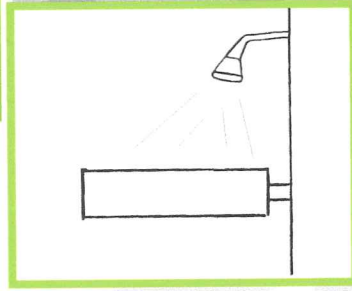
# 6.g. SIGN LIGHTING

Appropriate sign lighting depends heavily on the surrounding environment. Fixtures attached to the top of the sign are preferable, if angled downward. Fixtures attached to the ground, bottom, or side of the sign may be appropriate if angled directly parallel to the sign, located at a limited distance from the sign to avoid glare from the street, and of a proportionately smaller size than the sign itself. These lights may be appropriate if the surrounding environment (other buildings, landscape screening) will block all glare from being seen from the street or neighboring property. If lighting is located in an urban and/or commercial environment, signs may utilize backlighting, as these areas tend to be more illuminated at night.

## UNACCEPTABLE



## ACCEPTABLE



# 6.h. LANDSCAPE LIGHTING

Lighting is often used to accentuate landscape features such as art fixtures, statues, and gardens in both residential and commercial areas. Landscape lighting may be allowed when there is an intended area to be lit and the fixture achieves the Performance Criteria in Section 5. These fixtures come in many forms, including solar pavers and pillar lighting. The key to providing appropriate landscape lighting is to utilize shielding, low intensity bulbs (below 50 lumens), and minimize usage. The County of Monterey does not encourage the use of fixtures that result in upward lighting, however if proposed in a manner that achieves the Performance Criteria in Section 5, it may be allowed in limited circumstances. Landscape lighting may utilize screening by other landscape features, such as shrubbery and fencing.

