



Arts & Innovation

City-wide Street Light LED Conversion Program

Cultural Heritage Board

Item #3

March 15, 2017

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Presentation Outline

- Scope of Project
- Relationship with Historic Preservation and Cultural Resources
- Historic Preservation Specific Scope of Work and Goals
- Survey Work to Date and Planned
- Outreach Efforts to Date and Planned
- Certificate of Appropriateness Process

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City-wide Street Light LED Conversion Program

- RPU designs, constructs, operates and maintains the street lighting system for the City of Riverside.
- The system includes over 31,000 street light standards with less than 10,000 in Historic Districts
- Consultant to develop a comprehensive program for conversion of existing street light system to energy efficient Light Emitting Diode (LED) technology.
- Consultant to develop a Dark Sky Ordinance for the City
- Consultant to develop street light design guidelines
- Convert existing street lights to LED using City and contract forces within a two year period.

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Project Schedule

Calendar Year	2016				2017				2018				2019										
Month	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
Phase 1 - Design																							
Phase 2 Conversion - Arterial Streets																							
Phase 3 Conversion - Neighborhoods																							
Phase 4 Conversion - Historical Districts 1																							
Phase 5 Conversion - Historical Districts 2																							

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What Other Cities Are Doing

- Western Riverside Council of Governments (WRCOG) is working with Riverside County to adopt a new Dark Sky Ordinance and working with sixteen member Cities to adopt local Dark Sky Ordinances
- WRCOG Cities will acquire 61,000 SCE streetlights and convert them to LED to improve energy efficiency, reduce operating costs and light pollution
- Extensive LED demonstration areas set up in Hemet, CA
- No significant numbers of historic districts in member Cities



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Relationship to Historic Preservation

- Riverside Public Utilities operates a variety of street lights in Historic Districts and Neighborhood Conservation Areas.



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Street Light LED Conversion in Historic Districts

- Survey street light standards and fixtures
- Determine LED Conversion Method
 - Internal conversion within existing fixture is preferred
 - Replacement with a converted historical luminaire if needed and approved
 - Replacement with a replica of a historic luminaire as a last resort

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Street Light LED Conversion in Historic Districts

- Work with CHB staff to develop proposed street light LED conversion for each style of street light fixture
- Deploy example street light LED conversions for public evaluation and input
- Modify as needed to address public comments

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Street Light LED Conversion in Historic Districts

- Participate in Cultural Heritage Board workshops, public meetings and other events as necessary to obtain the Certificate of Appropriateness (COA) for the proposed LED street light conversion
- Revise the Design Manual LED section and Standards to incorporate the approved LED street light conversion for each district

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Survey Work to Date

- Preliminary survey performed January 20-21, 2017
- Up to 30 percent of street light standards and luminaires are in poor condition and may not be suitable for conversion
- A more detailed survey is needed to identify all street light types and condition

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Outreach Efforts to Date

- Project web page at <https://www.riversideca.gov/utilities/about-rpu/led.asp>
- Door hangers and other direct notification media in development with Public Utilities Marketing
- RPU staff and consultant developing project communications plan

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Certificate of Appropriateness Process

Future Public Hearings and Approvals:

- Apply for COA for each street light type in each Historic District and Neighborhood Conservation Area
- Incorporate LED street light conversions with COA into bid documents for two Historic District Conversion Projects
 - First group projected for bid award in January 2018
 - Second group to bid once all COAs are complete
- Target project completion by October 2018

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Questions

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