

**CITY MANAGER'S REPORT
JULY 8, 2019, CITY COUNCIL REGULAR MEETING**

ITEM: **LIGHTED CROSSWALK ON SPARTAN WAY AND RELATED BUDGET AMENDMENT**

RECOMMENDATION: **Consider Adopting Resolution Approving the Installation of a Lighted Crosswalk on Spartan Way and Related Budget Amendment Associated with Traffic Calming Measures CIP PS 18-02**

SUMMARY:

On June 10, 2019, City Council requested that staff explore the option of installing in-roadway warning lights ("lighted") crosswalk on Spartan Way near Lathrop High School and the Generations Center (Attachment B). The installation of a lighted crosswalk is a traffic calming measure included in the City's Traffic Calming Program. Staff has conducted the necessary research and requests Council's consideration regarding the following options for lighted crosswalk improvements:

Option 1 – Install lighted crosswalk, signage, and manual pedestrian pushbuttons with a total estimated cost of \$40,000.

Option 2 – Install lighted crosswalk, signage, and automatic pedestrian detection system with a total estimated cost of \$50,000.

Option 3 – Install lighted crosswalk, signage, automatic pedestrian detection system and overhead warning lights with a total estimated cost of \$60,000.

All three options meet the criteria listed in the California Manual on Uniform Traffic Control Devices (MUTCD), Section 4N.02 "In-Roadway Warning Lights at Crosswalks."

Staff recommends that Council approve Option 1, installing the lighted crosswalk, signage, and manual pedestrian pushbuttons. Sufficient funds have not been allocated in the adopted Fiscal Year 2019/20 Budget within Traffic Calming Measures CIP PS 18-02. Staff is requesting that City Council approve a budget amendment allocating \$40,000 from Measure C Fund. At the June 25, 2019, Measure C Oversight Committee Meeting, staff made the Committee aware of this project. Once Council has selected an option, staff will return to the Committee for ratification of the expenditure to be in conformance with the intent of Measure C.

BACKGROUND:

City Council adopted a Traffic Calming Program to address local neighborhood traffic and safety concerns.

The Traffic Calming Program is intended to mitigate the concerns in a systematic and efficient manner. The Traffic Calming Program provides a broad range of possible solutions to neighborhood traffic concerns.

On June 10, 2019, City Council requested that staff explore the option of installing in-roadway warning lights ("lighted") crosswalk on Spartan Way near Lathrop High School and the Generations Center (Attachment B). The installation of a lighted crosswalk is a traffic calming measure included in the City's Traffic Calming Program, see (Attachment C) for an example of an in-roadway lighted crosswalk. Staff has conducted the necessary research and has provided three options for City Council to consider.

Option 1 – Install lighted crosswalk, signage, and manual pedestrian pushbuttons with a total estimated cost of \$40,000.

Option 2 – Install lighted crosswalk, signage, and automatic pedestrian detection system with a total estimated cost of \$50,000.

Option 3 – Install lighted crosswalk, signage, automatic pedestrian detection system and overhead warning lights with a total estimated cost of \$60,000.

According to the California Manual on Uniform Traffic Control Devices (MUTCD), Section 4N.02 "In-Roadway Warning Lights at Crosswalks", the decision to install lighted crosswalks should be based on the following criteria:

- A. They shall be installed along both sides of the crosswalk and shall span its entire length.
- B. They shall initiate operation based on pedestrian actuation and shall cease operation at a predetermined time after the pedestrian actuation or, with passive detection, after the pedestrian clears the crosswalk.
- C. They shall display a flashing yellow light when actuated. The flash rate shall be at least 50, but no more than 60, flash periods per minute. If they are flashed in a manner that includes a continuous flash of varying intensity and time duration that is repeated to provide a flickering effect, the flickers or pulses shall not repeat at a rate that is between 5 and 30 per second to avoid frequencies that might cause seizures.
- D. They shall be installed in the area between the outside edge of the crosswalk line and 10 feet from the outside edge of the crosswalk.
- E. They shall face away from the crosswalk if unidirectional, or shall face away from and across the crosswalk if bidirectional.

The installation of a lighted crosswalk with flashing warning signs would meet the aforementioned criteria and will improve pedestrian traffic crossing Spartan Way.

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REASON FOR RECOMMENDATION:

Staff recommends that Council approve Option 1, installing the lighted crosswalk, signage, and manual pedestrian pushbuttons as part of Traffic Calming Measures CIP PS 18-02. Option 1 meets the criteria listed in the California Manual on Uniform Traffic Control Devices (MUTCD), Section 4N.02 "In-Roadway Warning Lights at Crosswalks" and will improve pedestrian traffic crossing Spartan Way.

FISCAL IMPACT:

The total estimated cost for Option 1 – installing the lighted crosswalk, signage, and manual pedestrian pushbuttons is \$40,000. Staff requests City Council approve a budget amendment transferring \$40,000 from the following accounts to allocate sufficient funds for the aforementioned project:

Transfer Out (Measure C) 1060-99-00-990-90-10	\$40,000
Transfer In 3310-99-00-393-00-00	\$40,000
Increase Expenditure (PS 18-02) 3310-80-00-420-12-00-00	\$40,000


At the June 25, 2019, Measure C Oversight Committee Meeting, staff made the Committee aware of this project. Once Council has selected an option, staff will return to the Committee for ratification of the expenditure to be in conformance with the intent of Measure C.

ATTACHMENTS:

- A. Resolution Approving the Installation of a Lighted Crosswalk on Spartan Way and Related Budget Amendment Associated with Traffic Calming Measures CIP PS 18-02
- B. Vicinity Map of the crosswalk on Spartan Way near Lathrop High School and the Generations Center
- C. Example of In-roadway Lighted Crosswalk

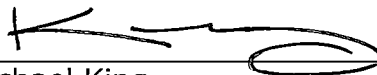
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APPROVALS:



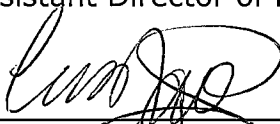
Steven Medina
Assistant Engineer

Date 6/26/19



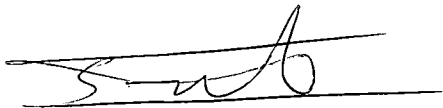
Michael King
Assistant Director of Public Works

Date 6-26-19



Cari James
Finance & Administrative
Services Director

Date 6/27/19



Salvador Navarrete
City Attorney

Date 6-27-19



Stephen J. Salvatore
City Manager

Date 6-30-19

RESOLUTION NO. 19 -

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF LATHROP APPROVING THE INSTALLATION OF A LIGHTED CROSSWALK ON SPARTAN WAY AND RELATED BUDGET AMENDMENT ASSOCIATED WITH TRAFFIC CALMING MEASURES CIP PS 18-02

WHEREAS, on June 10, 2019, City Council requested that staff explore the option of installing in-roadway warning lights ("lighted") crosswalk on Spartan Way near Lathrop High School and the Generations Center; and

WHEREAS, the installation of a lighted crosswalk is a traffic calming measure included in the City's Traffic Calming Program; and

WHEREAS, Staff has conducted the necessary research and has provided three options for City Council to consider:

Option 1 – Install lighted crosswalk, signage, and manual pedestrian pushbuttons. Estimated cost of \$40,000

Option 2 – Install lighted crosswalk, signage, and automatic pedestrian detection system. Estimated cost of \$50,000

Option 3 – Install lighted crosswalk, signage, automatic pedestrian detection system and overhead warning lights. Estimated cost of \$60,000; and

WHEREAS, all three options meet the criteria listed in the California Manual on Uniform Traffic Control Devices (MUTCD), Section 4N.02 "In-Roadway Warning Lights at Crosswalks"; and

WHEREAS, staff recommends that Council approve Option 1, installing the lighted crosswalk, signage, and manual pedestrian pushbuttons; and

WHEREAS, sufficient funds have not been allocated in the adopted Fiscal Year 2019/20 Budget within Traffic Calming Measures CIP PS 18-02; and

WHEREAS, staff is requesting that City Council approve a budget amendment allocating \$40,000 from Measure C Fund; and

WHEREAS, at the June 25, 2019, Measure C Oversight Committee Meeting, staff made the Committee aware of this project. Once Council has selected an option, staff will return to the Committee for ratification of the expenditure to be in conformance with the intent of Measure C.

NOW THEREFORE, BE IT RESOLVED, the City Council of the City of Lathrop does hereby approve Option 1, installing the lighted crosswalk, signage, and manual pedestrian pushbuttons at Spartan Way; and

BE IT FURTHER RESOLVED, the City Council of the City of Lathrop does hereby approve the following budget amendment:

Transfer Out (Measure C)	
1060-99-00-990-90-10	\$40,000
Transfer In	
3310-99-00-393-00-00	\$40,000
Increase Expenditure (PS 18-02)	
3310-80-00-420-12-00-00	\$40,000

The foregoing resolution was passed and adopted this 8th day of July 2019, by the following vote of the City Council, to wit:

AYES:

NOES:

ABSENT:

ABSTAIN:

Sonny Dhaliwal, Mayor

ATTEST:

Teresa Vargas, City Clerk

APPROVED AS TO FORM:



Salvador Navarrete, City Attorney

Vicinity Map



Example of In-roadway Lighted Crosswalk

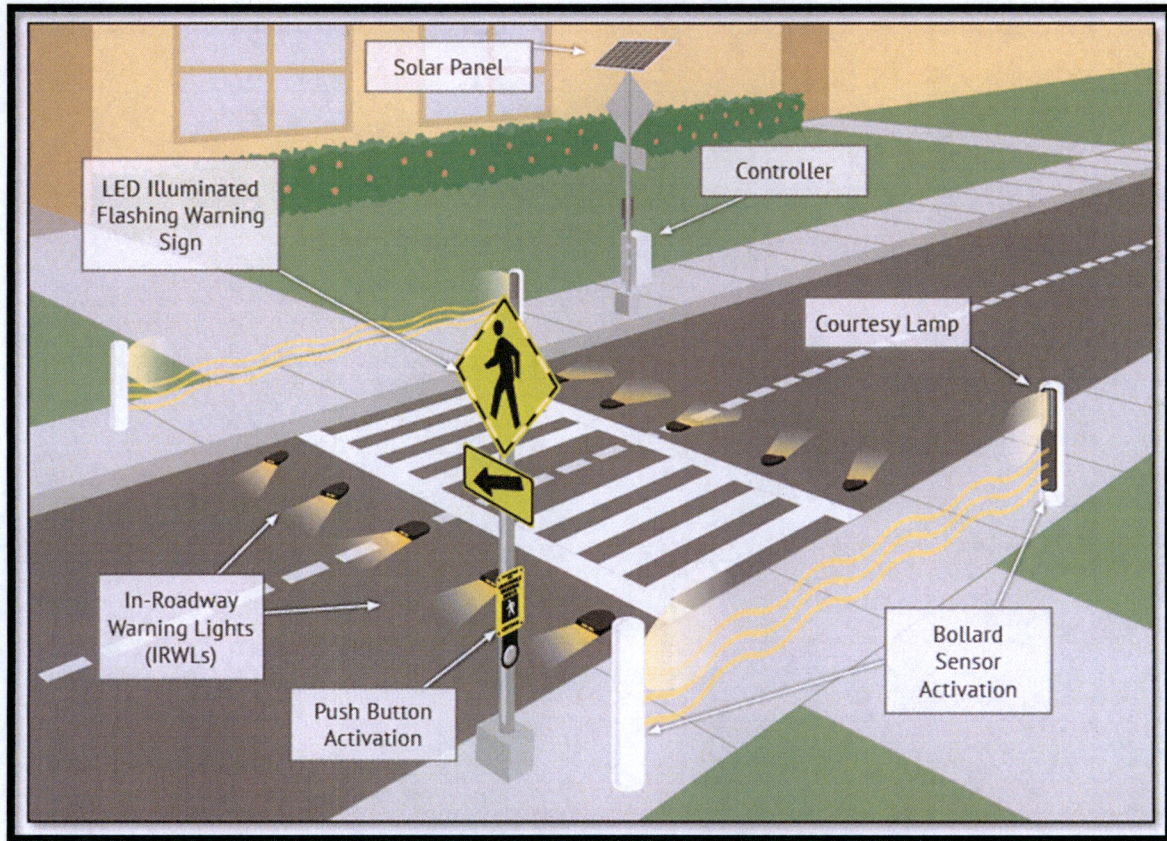
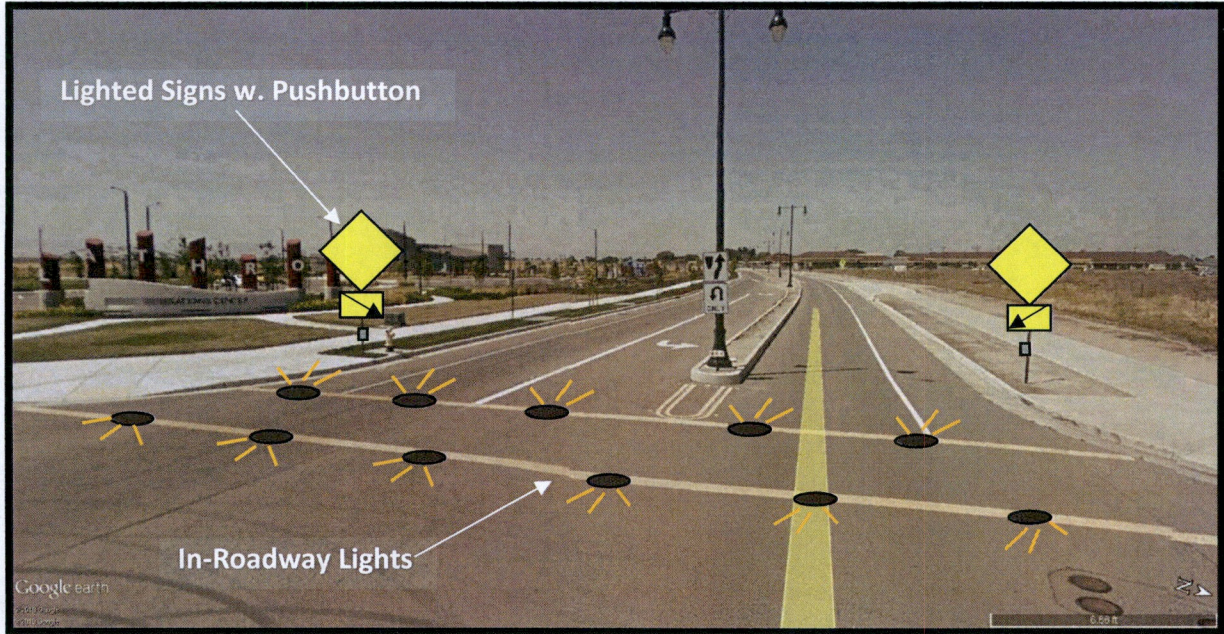


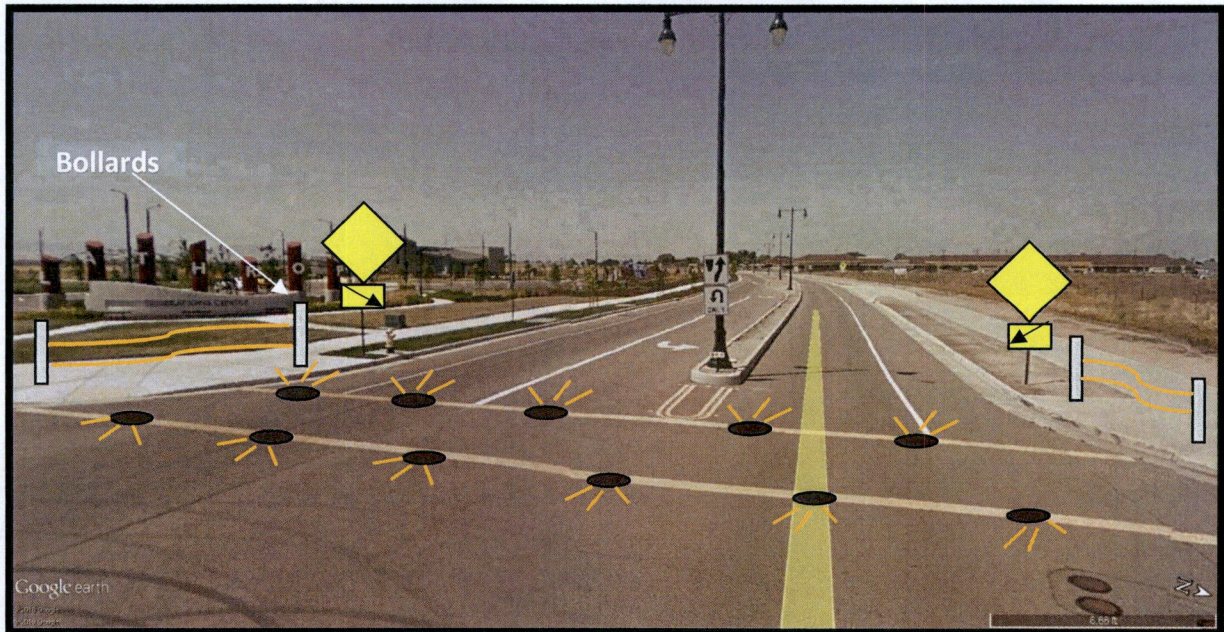
Illustration taken from <https://www.lightquardsystems.com/smart-crosswalk-in-roadway-warning-light-irwl-system/> on June 25, 2019.

Attachement C: Example of In-roadway Lighted Crosswalk

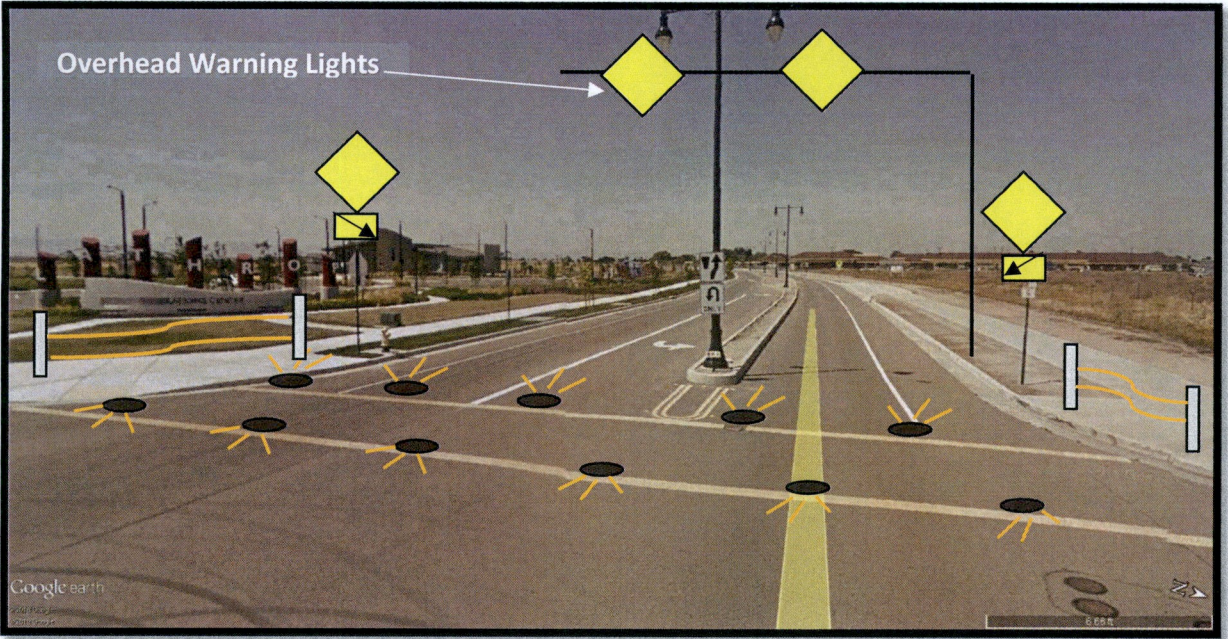
Option 1: In-roadway lights, signage and manual pedestrian pushbuttons



Option 2: In-roadway lights, signage and automatic pedestrian detection



Option 3: In-roadway lights, signage, automatic pedestrian detection and overhead warning lights



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