

## **Traffic Control – Introductory Comments**

Traffic control projects in the Fiscal Year 2012-2013 and Fiscal Year 2013-2014 Capital Improvement Program Budget provide for the safe and efficient movement of vehicles on the City's street network. Traffic signals, battery back-up system improvements, master traffic signal control system, intersection modifications, emergency vehicle preemption equipment, and traffic calming are included in this program. Additionally, miscellaneous projects such as trail crossings, traffic striping and signing, and pedestrian crossings for streets are also included in this program. Projects in this program primarily consist of modifications to the existing transportation network, rather than being extensions into newly developed areas.

Projects are funded primarily from gas taxes, Measure B Local funding, and the Traffic Impact Fee. Projects are consistent with the City's General Plan and Downtown Specific Plan. Implementation of these projects will provide for a safer street system and will improve mobility within Livermore.

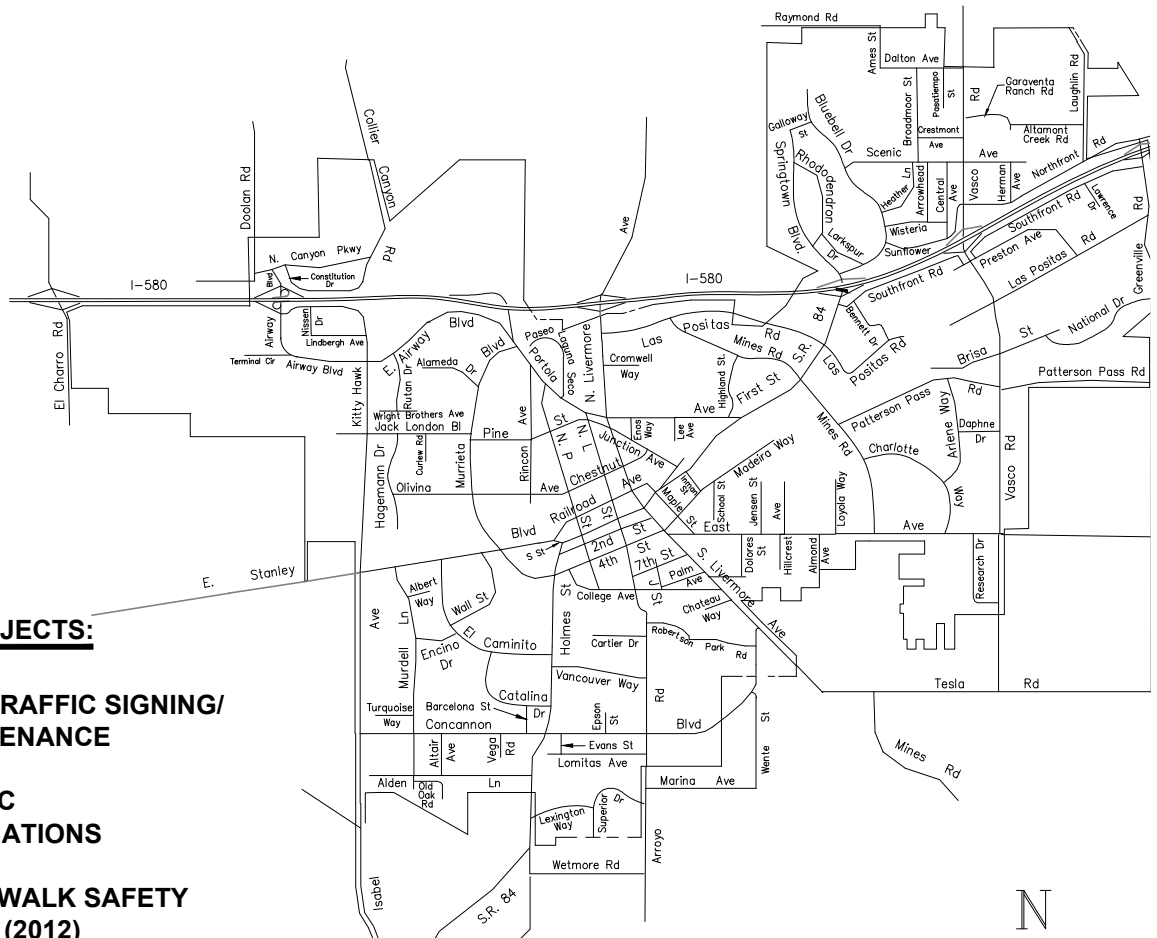
**City of Livermore, CA**  
**Capital Improvement Projects**

Fiscal Year End 2013 -2014

Category Fund Summary

Traffic Control

Project Number	Project Name	Project Status	Fiscal Year	
			2012 - 2013	2013 - 2014
201206	Annual Crosswalk Safety Improvements 2012	Not Started	\$70,000	\$0
201306	Annual Crosswalk Safety Improvements 2013	Not Started	\$0	\$70,000
200106	Annual Misc. Traffic Signing/Striping Maintenanc	In Progress	\$100,000	\$100,000
200112	Annual Traffic Signal Modifications	In Progress	\$150,000	\$150,000
200243	Battery Back-Up System Improvements	In Progress	\$55,000	\$0
201222	Battery Back-Up System Improvements	Not Started	\$75,000	\$75,000
199144	Master Traffic Signal Control System	In Progress	\$125,000	\$125,000
201225	Safe Routes To School	Not Started	\$500,000	\$0
201021	Traffic Signal Reconstruction	Final Design	\$555,000	\$200,000
201223	Video Detection Upgrade	Not Started	\$150,000	\$0
Total: Traffic Control			\$1,780,000	\$720,000



**CITY - WIDE PROJECTS:**

**ANNUAL MISC. TRAFFIC SIGNING/  
STRIPING MAINTENANCE**

**ANNUAL TRAFFIC  
SIGNAL MODIFICATIONS**

**ANNUAL CROSSWALK SAFETY  
IMPROVEMENTS (2012)**

**ANNUAL CROSSWALK SAFETY IMPROVEMENTS (2013)**

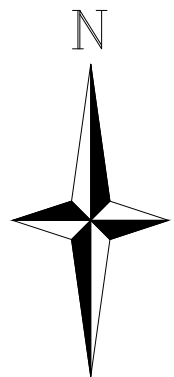
**BATTERY BACK-UP SYSTEM IMPROVEMENTS**

**MASTER SIGNAL CONTROL SYSTEM**

**SAFE ROUTES TO SCHOOL**

**TRAFFIC SIGNAL RECONSTRUCTION**

**VIDEO DETECTION UPGRADE**



**CITY OF LIVERMORE**

**ALAMEDA COUNTY STATE OF CALIFORNIA**

**20 YEAR CIP PROGRAM**

**TRAFFIC CONTROL PROJECTS**

## Capital Project Worksheet

**CIP Project Number** 200716                      **CIP Project Name** Airport & Water Resources Access Improvements  
**Dept/Program** Traffic Control                      **GASB34** Capital Asset  
**Project Mgr/Lead** Community Development  
**Project Status** In Progress

**Project Location** Airport and WRP/Jack London Blvd.

**Project Description** Vehicular access improvements to the Airport and Water Resources Plant along West Jack London Blvd. Install a new traffic signal @ Jack London/Discovery intersection. Modification of existing South Gate No. 2 to improve airport circulation has been completed. Create a new entrance at Voyager St. to serve future southeasterly airport FBO hangars and the Water Reclamation Plant with a connecting road to the existing Plant entrance and install a new traffic signal @ Jack London/Voyager intersection when traffic conditions warrant.

Improvements will be constructed with the El Charro Specific Plan Infrastructure Project (2007-20), along the with the Jack London Blvd Extension improvements of the project, and funded under this project.

**Capital Cost:**

	Fiscal Year End							Total
	Prior Years	2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested	2016 - 2032 Out Years	
Capital Costs	\$33,430	\$746,970	\$0	\$0	\$0	\$0	\$0	\$780,400

**Project Funding:**

	Fiscal Year End							Total
	Prior Years	2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested	2016 - 2032 Out Years	
210	\$0	\$132,000	\$0	\$0	\$0	\$0	\$0	\$132,000
306	\$33,430	\$614,970	\$0	\$0	\$0	\$0	\$0	\$648,400
Total Funding	\$33,430	\$746,970	\$0	\$0	\$0	\$0	\$0	\$780,400
M&O Costs 200716		\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$16,000	\$21,000

**Project Justification:**

Improves existing and future vehicular access to the Airport and Water Reclamation Plant along West Jack London Blvd.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 201206                      **CIP Project Name** Annual Crosswalk Safety Improvements 2012  
**Dept/Program** Traffic Control                      **GASB34** Non-capital Project  
**Project Mgr/Lead** Community Development  
**Project Status** Not Started

**Project Location** Various

**Project Description** This project will design and install crosswalk safety improvements at various locations in the City. These devices may include (but not limited to) in-pavement flashers, pedestrian activated flashing beacon, or signing and striping. Priorities to be determined after studying various crossings.

**Capital Cost:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
Capital Costs	\$0	\$0	\$70,000	\$0	\$0	\$0	\$0	\$70,000

**Project Funding:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
653	\$0	\$0	\$70,000	\$0	\$0	\$0	\$0	\$70,000
Total Funding	\$0	\$0	\$70,000	\$0	\$0	\$0	\$0	\$70,000

**Project Justification:**

This project will improve pedestrian safety by increasing motorists awareness of pedestrians in the crosswalk.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 201306                      **CIP Project Name** Annual Crosswalk Safety Improvements 2013  
**Dept/Program** Traffic Control                      **GASB34** N/A Non City Project  
**Project Mgr/Lead** Community Development  
**Project Status** Not Started

**Project Location** Various

**Project Description** This project will design and install crosswalk safety improvements at various locations in the City. These devices may include (but not limited to) in-pavement flashers, pedestrian activated flashing beacon, or signing and striping. Priorities to be determined after studying various crossings.

**Capital Cost:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
Capital Costs	\$0	\$0	\$0	\$70,000	\$0	\$0	\$0	\$70,000

**Project Funding:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
653	\$0	\$0	\$0	\$70,000	\$0	\$0	\$0	\$70,000
Total Funding	\$0	\$0	\$0	\$70,000	\$0	\$0	\$0	\$70,000

**Project Justification:**

This project will improve pedestrian safety by increasing motorists awareness of pedestrians in the crosswalk.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 201406                      **CIP Project Name** Annual Crosswalk Safety Improvements 2014  
**Dept/Program** Traffic Control                      **GASB34** Non-capital Project  
**Project Mgr/Lead** Community Development  
**Project Status** Not Started

**Project Location** City Wide - Residential

**Project Description** This project will design and install crosswalk safety improvements at various locations in the city. These devices may include (but not limited to) in-pavement flashers, pedestrian activated flashing beacon, or signing and striping. Priorities to be determined after studying various crossings.

**Capital Cost:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
Capital Costs	\$0	\$0	\$0	\$0	\$70,000	\$0	\$0	\$70,000

**Project Funding:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
653	\$0	\$0	\$0	\$0	\$70,000	\$0	\$0	\$70,000
Total Funding	\$0	\$0	\$0	\$0	\$70,000	\$0	\$0	\$70,000
M&O Costs 201406		\$0	\$0	\$0	\$3,000	\$0	\$0	\$3,000

**Project Justification:**

This project will improve pedestrian safety by increasing motorists awareness of pedestrians in the crosswalk.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 201506                      **CIP Project Name** Annual Crosswalk Safety Improvements 2015  
**Dept/Program** Traffic Control                      **GASB34** Non-capital Project  
**Project Mgr/Lead** Community Development  
**Project Status** Not Started

**Project Location** Various

**Project Description** This project will design and install crosswalk safety improvements at various locations in the city. These devices may include (but not limited to) in-pavement flashers, pedestrian activated flashing beacon, or signing and striping. Priorities to be determined after studying various crossings.

**Capital Cost:**

	Fiscal Year End							Total
	Prior Years	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	2016 - 2032	
	Requested	Requested	Requested	Requested	Requested	Requested	Out Years	
Capital Costs	\$0	\$0	\$0	\$0	\$0	\$70,000	\$0	\$70,000

**Project Funding:**

	Fiscal Year End							Total
	Prior Years	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	2016 - 2032	
	Requested	Requested	Requested	Requested	Requested	Requested	Out Years	
653	\$0	\$0	\$0	\$0	\$0	\$70,000	\$0	\$70,000
Total Funding	\$0	\$0	\$0	\$0	\$0	\$70,000	\$0	\$70,000
M&O Costs 201506		\$0	\$0	\$0	\$0	\$3,000	\$0	\$3,000

**Project Justification:**

This project will improve pedestrian safety by increasing motorists awareness of pedestrians in the crosswalk.





City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 200112                      **CIP Project Name** Annual Traffic Signal Modifications  
**Dept/Program** Traffic Control                      **GASB34** Repairs / Maintenance  
**Project Mgr/Lead** Community Development  
**Project Status** In Progress

**Project Location** Traffic Signals - City-wide

**Project Description** Annual project to upgrade signal equipment such as indicators, detection devices, controllers, cabinets, poles, communication devices, Accessible Pedestrian Signal equipment, traffic safety lighting at the intersection and etc. to reduce maintenance expenses and bring signals in compliance with current ADA requirements. This project will also replace light emitting diode that has reached the end of its useful life.

**Capital Cost:**

	Fiscal Year End							Total
	Prior Years	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	2016 - 2032	
	Requested	Requested	Requested	Requested	Requested	Requested	Out Years	
Capital Costs	\$792,330	\$125,000	\$150,000	\$150,000	\$150,000	\$150,000	\$2,400,000	\$3,917,330

**Project Funding:**

	Fiscal Year End							Total
	Prior Years	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	2016 - 2032	
	Requested	Requested	Requested	Requested	Requested	Requested	Out Years	
650	\$119,530	\$0	\$0	\$0	\$0	\$0	\$0	\$119,530
652	\$334,150	\$0	\$0	\$0	\$0	\$0	\$2,400,000	\$2,734,150
653	\$338,650	\$0	\$0	\$0	\$0	\$0	\$0	\$338,650
659	\$0	\$125,000	\$150,000	\$150,000	\$150,000	\$150,000	\$0	\$725,000
Total Funding	\$792,330	\$125,000	\$150,000	\$150,000	\$150,000	\$150,000	\$2,400,000	\$3,917,330

**Project Justification:**

This project will allow for maintenance, replacement or repair of traffic signal components including intersection safety lighting to maintain traffic signal safety and efficiency, and upgrade the signals to conform to new ADA standards. Replacing HPS safety lighting with LED lights will also reduce maintenance cost.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 200243                      **CIP Project Name** Battery Back-Up System Improvements  
**Dept/Program** Traffic Control                      **GASB34** Capital Asset  
**Project Mgr/Lead** Community Development  
**Project Status** In Progress

**Project Location** Various

**Project Description** This project will install, upgrade, and maintain Battery Backup System (BBS) at various traffic signals, replace old batteries that have reached the end of their useful life, and replace existing incandescent traffic signals with light emitting diode signals at existing and new BBS locations.

**Capital Cost:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
Capital Costs	\$425,730	\$5,000	\$55,000	\$0	\$0	\$0	\$0	\$485,730

**Project Funding:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
001	\$106,800	\$0	\$0	\$0	\$0	\$0	\$0	\$106,800
306	\$96,740	\$5,000	\$30,000	\$0	\$0	\$0	\$0	\$131,740
652	\$77,340	\$0	\$0	\$0	\$0	\$0	\$0	\$77,340
653	\$61,610	\$0	\$0	\$0	\$0	\$0	\$0	\$61,610
659	\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$0	\$50,000
684	\$58,240	\$0	\$0	\$0	\$0	\$0	\$0	\$58,240
Total Funding	\$425,730	\$5,000	\$55,000	\$0	\$0	\$0	\$0	\$485,730
M&O Costs 200243		\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$160,000	\$210,000

**Project Justification:**

Battery Backup Systems (BBS) currently operate at 57 locations. This project plans to install additional BBS at locations where continuous traffic signal operations are critical. In addition, BBS operate effectively at locations with Light Emitting Diode (LED) exclusive traffic signals. A portion of the existing BBS locations currently employ a mix of LED and incandescent lights. The power consumption for a typical LED traffic signal is 15 watts, compared to 150 watts for its incandescent counterpart. Therefore, the use of incandescent signals can dramatically reduce the effectiveness of a BBS. This project will replace existing incandescent signals with LED's at existing and all new BBS locations where continuous signal operations are critical.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 201222                      **CIP Project Name** Battery Back-Up System Improvements  
**Dept/Program** Traffic Control                      **GASB34** Capital Asset  
**Project Mgr/Lead** Community Development  
**Project Status** Not Started

**Project Location** Various

**Project Description** This project will install, upgrade, and maintain Battery Backup System (BBS) at various traffic signals, replace old batteries that have reached the end of their useful life, and replace existing incandescent traffic signals with light emitting diode signals at existing and new BBS locations.

**Capital Cost:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
Capital Costs	\$0	\$0	\$75,000	\$75,000	\$0	\$0	\$0	\$150,000

**Project Funding:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
659	\$0	\$0	\$75,000	\$75,000	\$0	\$0	\$0	\$150,000
Total Funding	\$0	\$0	\$75,000	\$75,000	\$0	\$0	\$0	\$150,000
M&O Costs 201222		\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$16,000	\$20,000

**Project Justification:**

Batter Backup Systems (BBS) will operate at 62 locations. This project plans to install additional BBS at locations where continuous traffic signal operations are critical to maintain safety. As occasional power outages occur, the BBS should keep signalized intersection fully operational for 2 to 3 hours before the traffic signal goes to red-flash operation, which could be for another 2 to 3 hours. With the BBS in place, a typical PG&E planned power interruption should not cause major impacts at the signalized intersection, and the need to install temporary STOP signs when power is out would be minimal.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 199144      **CIP Project Name** Master Traffic Signal Control System  
**Dept/Program** Traffic Control      **GASB34** Capital Asset  
**Project Mgr/Lead** Community Development  
**Project Status** In Progress

**Project Location** Citywide

**Project Description** This project will continue to evaluate the integrity of the traffic signal communication infrastructure, maintain and expand City-wide Master Traffic Signal Control System, replace obsolete communication devices, improve and expand fiber optics and communication infrastructure, install additional devices including CCTV, upgrade and integrate video management systems, and upgrade TOC hardware and software. An Intelligent Transportation Systems (ITS) Master Plan was prepared in 2005 that outlines future ITS projects and expenditures.

**Capital Cost:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
Capital Costs	\$1,531,650	\$125,000	\$125,000	\$125,000	\$0	\$0	\$0	\$1,906,650

**Project Funding:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
306	\$1,531,650	\$125,000	\$125,000	\$125,000	\$0	\$0	\$0	\$1,906,650
Total Funding	\$1,531,650	\$125,000	\$125,000	\$125,000	\$0	\$0	\$0	\$1,906,650
M&O Costs 199144		\$6,000	\$10,000	\$10,000	\$10,000	\$10,000	\$160,000	\$206,000

**Project Justification:**

This project will allow staff to improve and maintain communication with various field devices, view images and data for incident management, respond quickly and effectively to traffic signal malfunctions and emergencies, coordinate important corridors to ensure efficient movement of traffic, and share video and data information with various municipalities including the Regional 511 system.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 201225                      **CIP Project Name** Safe Routes To School  
**Dept/Program** Traffic Control                      **GASB34** Capital Asset  
**Project Mgr/Lead** Community Development  
**Project Status** Not Started

**Project Location** Junction & Marilyn School Area

**Project Description** The project will enhance walking or bicycling safety of school children by installing roadway improvements along safe routes to schools in the vicinity of Marilyn School and in the vicinity of Junction School. These improvements may include signing and pavement markings, curb, gutter, sidewalk, median islands, bulb-outs, pedestrian ramps, and electronic speed display signs. Some improvements like bulb-outs would also require drainage improvements. Fund 656 refers to anticipated Safe Routes to School Grant

**Capital Cost:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
Capital Costs	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$500,000

**Project Funding:**

	Prior Years	Fiscal Year End					Out Years	Total
		2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		
653	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
656	\$0	\$0	\$450,000	\$0	\$0	\$0	\$0	\$450,000
Total Funding	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0	\$500,000
M&O Costs 201225		\$0	\$1,000	\$1,000	\$1,000	\$1,000	\$16,000	\$20,000

**Project Justification:**

The City is applying for a \$500,000 Safe Route to School Grant. The grant requires a 10% matching funds. As shown on the project funding, 90% of the project cost will be through the grant (F656). The project will enhance safety for school age children who walk or bicycle to school. As an added benefit when the improvements are in place, hopefully more children would be encouraged to walk or bicycle to school promoting a healthier life style.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 201021                      **CIP Project Name** Traffic Signal Reconstruction  
**Dept/Program** Traffic Control                      **GASB34** Repairs / Maintenance  
**Project Mgr/Lead** Community Development  
**Project Status** Final Design

**Project Location** Various

**Project Description** This project will modify intersections that currently require frequent maintenance and are nearing the end of their useful life. This project will modify the intersections of Railroad Avenue/P Street, Vasco Road/Patterson Pass Road and Vasco Road/Brisa Street to improve overall safety operation and progression of traffic along major corridors. Improvements include new conduit runs, cabinet replacement, pole replacement and accessible pedestrian signals.

**Capital Cost:**

	Fiscal Year End						Total	
	Prior Years	2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		2016 - 2032 Out Years
Capital Costs	\$25,000	\$15,000	\$555,000	\$200,000	\$400,000	\$400,000	\$0	\$1,595,000

**Project Funding:**

	Fiscal Year End						Total	
	Prior Years	2011 - 2012 Requested	2012 - 2013 Requested	2013 - 2014 Requested	2014 - 2015 Requested	2015 - 2016 Requested		2016 - 2032 Out Years
659	\$25,000	\$12,000	\$355,000	\$0	\$120,000	\$120,000	\$0	\$632,000
678	\$0	\$3,000	\$200,000	\$200,000	\$280,000	\$280,000	\$0	\$963,000
Total Funding	\$25,000	\$15,000	\$555,000	\$200,000	\$400,000	\$400,000	\$0	\$1,595,000

**Project Justification:**

Some of these signals have median poles that get hit requiring frequent maintenance. The project will improve safety. Some signals identified will improve traffic progression and reduce congestion along major corridors.

City of Livermore, CA

## Capital Project Worksheet

**CIP Project Number** 201223                      **CIP Project Name** Video Detection Upgrade  
**Dept/Program** Traffic Control                      **GASB34** Capital Asset  
**Project Mgr/Lead** Community Development  
**Project Status** Not Started

**Project Location** Various

**Project Description** The project will replace early generation video detection systems that are now obsolete and will no longer be supported by the manufacturer. Some of these cameras are starting to fail, requiring immediate replacement for the traffic signal to work efficiently. Approximately 5 more intersections need video detection replacement.

**Capital Cost:**

	Fiscal Year End							Total
	Prior Years	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	2016 - 2032	
	Requested	Requested	Requested	Requested	Requested	Requested	Out Years	
Capital Costs	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000

**Project Funding:**

	Fiscal Year End							Total
	Prior Years	2011 - 2012	2012 - 2013	2013 - 2014	2014 - 2015	2015 - 2016	2016 - 2032	
	Requested	Requested	Requested	Requested	Requested	Requested	Out Years	
659	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000
Total Funding	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$150,000
M&O Costs 201223	\$0	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$90,000	\$110,000

**Project Justification:**

The City started using video detection technology over 10 years ago reducing maintenance issues associated with damaged logs because of trenching or road rehab programs. As technology continues to evolve, like any electronic technology, new more powerful systems develop while replacement parts for older systems are no longer made. The replacement system, in addition to more accurate vehicle detection, will also allow live video viewing from the TOC compatible with the City's new Ethernet Technology. CCTV's will not be as necessary in areas where the new video detection system will be installed. If the remaining legacy video detection systems are not upgraded, and those systems fail, there will be no parts available to repair them.