

Prop K Allocation Request Forms
February 2020 Board Action
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Total Requested						\$ 5,832,072	

¹ Acronym: SFMTA (San Francisco Municipal Transportation Agency)

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San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Islais Creek Bridge Catenary Reconstruction
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Prop K EP categories:	Guideways - MUNI
Current Prop K Request:	\$1,032,072
Supervisory District(s):	District 10

REQUEST

Brief Project Description

The Third Street Bridge over Islais Creek, a moveable bridge, is undergoing a \$25 million rehabilitation effort led by Public Works. In a separate but related project the SFMTA will construct necessary specialized upgrades to the Overhead Catenary System (OCS) that supplies traction power to the T-Third light rail line. The work will consist of replacing trolley wires and related supports, reconstructing and upgrading other OCS components, and modifying and reconstructing structural support frames. The project will increase reliability and reduce necessary maintenance.

Detailed Scope, Project Benefits and Community Outreach

Main Objectives:

- Replace existing OCS with Overhead Conductor Rail (OCR) supported by a fixed frame system in the bridge approaches.
- Replace existing disconnect switches from their current location in the machine pits to new street-level cabinet enclosures.
- Install control cables for remote operation of the DC disconnect switches and connection to the bridge Programmable Logic Controller (PLC) inside the bridge control tower.
- Replace existing signal system in-kind with new equipment, adapting for the new superstructure but conforming to current SFMTA signal standard.
- Replace existing PLCs and sensors to automate the control of the movable bridge, traction power devices, track circuits and bridge position.
- Combine the traction power, signal, and Uninterruptible Power Supply for the Remote Terminal Unit into one system with a backup traction power inverter and an automatic transfer switch between the two systems.

Implementation phase:

Movable Bridge will be pre-fabricated off-site to minimize traffic impact. A 2- 3 months bridge shut down will be required, prior to which community outreach will be performed. Alternative bus service ("bus bridge") will be provided during the shutdown; a work plan for the bus bridge will be prepared once contractor is on board. SFMTA continues to look for route options for the bus bridge as part of the design phase

Project Benefits: This is a timely state of good repair investment and will reduce the risk of delays on Muni light rail service.

Community Outreach:

Public Works was the lead agency for environmental review under CEQA and NEPA. The environmental review phase included community outreach. Outreach, led by Public Works, will continue during construction. SFMTA will follow a robust community outreach during construction . It will follow public outreach and engagement requirements per SFMTA policy. Website, mailings, focus group and community meetings etc will be utilized to keep the public informed.

Project Location

3rd St between Marin St and Cargo St

E7-2

Project Phase(s)
Construction (CON)

5YPP/STRATEGIC PLAN INFORMATION

Type of Project in the Prop K 5YPP/Prop AA Strategic Plan?	Project Drawn from Placeholder
Is requested amount greater than the amount programmed in the relevant 5YPP or Strategic Plan?	Less than or Equal to Programmed Amount
Prop K 5YPP Amount:	\$1,032,072

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Islais Creek Bridge Catenary Reconstruction
Grant Recipient:	San Francisco Municipal Transportation Agency

ENVIRONMENTAL CLEARANCE

Environmental Type:	Categorically Exempt
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PROJECT DELIVERY MILESTONES

Phase	Start		End	
	Quarter	Calendar Year	Quarter	Calendar Year
Planning/Conceptual Engineering			Jul-Aug-Sep	2016
Environmental Studies (PA&ED)	Oct-Nov-Dec	2016	Oct-Nov-Dec	2017
Right of Way				
Design Engineering (PS&E)	Oct-Nov-Dec	2017	Jan-Feb-Mar	2020
Advertise Construction	Apr-May-Jun	2020		
Start Construction (e.g. Award Contract)	Jul-Aug-Sep	2020		
Operations				
Open for Use			Apr-May-Jun	2023
Project Completion (means last eligible expenditure)			Apr-May-Jun	2024

SCHEDULE DETAILS

This project is coordinated with the Public Works Islais Creek Bridge Rehabilitation Project. Both agencies will continue outreach effort during construction.

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Islais Creek Bridge Catenary Reconstruction
Grant Recipient:	San Francisco Municipal Transportation Agency

FUNDING PLAN - FOR CURRENT REQUEST

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K: Guideways - MUNI	\$0	\$1,032,072	\$0	\$1,032,072
FTA 5337 *	\$0	\$3,969,835	\$0	\$3,969,835
MTC - AB 664 (BRIDGE TOLLS) *	\$0	\$558,093	\$0	\$558,093
Phases in Current Request Total:	\$0	\$5,560,000	\$0	\$5,560,000

FUNDING PLAN - ENTIRE PROJECT (ALL PHASES)

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K	\$0	\$1,032,072	\$0	\$1,032,072
MTC - AB 664 (BRIDGE TOLLS) *	\$0	\$558,093	\$0	\$558,093
MTC AB664	\$0	\$0	\$1,162,000	\$1,162,000
FTA 5337 *	\$0	\$3,969,835	\$288,000	\$4,257,835
FTA 5309	\$0	\$0	\$120,000	\$120,000
Funding Plan for Entire Project Total:	\$0	\$5,560,000	\$1,570,000	\$7,130,000

* MTC has programmed these funds for overhead catenary system rehabilitation work such as the subject project. The funds are included in SFMTA's draft Capital Improvement Program, pending approval by the SFMTA Board in April 2020 and the Board of Supervisors in June 2020.

COST SUMMARY

Phase	Total Cost	Prop K - Current Request	Source of Cost Estimate
Planning/Conceptual Engineering	\$270,000	\$0	Actual cost
Environmental Studies (PA&ED)	\$0	\$0	
Right of Way	\$0	\$0	
Design Engineering (PS&E)	\$1,300,000	\$0	Actual cost + cost to complete
Construction (CON)	\$5,560,000	\$1,032,072	Engineer's estimate based on 60% design
Operations	\$0	\$0	
Total:	\$7,130,000	\$1,032,072	

% Complete of Design:	60.0%
As of Date:	10/25/2019
Expected Useful Life:	40 Years

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

Islais Creek Bridge Catenary Reconstruction

MAJOR LINE ITEM BUDGET - CONSTRUCTION

SUMMARY BY MAJOR LINE ITEM (BY AGENCY LABOR BY TASK)						
Budget Line Item	Totals	% of Funded Phase	SFPW	SFMTA	Contractor	
SFMTA Construction Work	\$ 1,520,000	27%			\$ 1,520,000	
SFMTA Project Management Services	\$ 230,000	4%		\$ 230,000		
SFPW Construction Management	\$ 300,000	5%	\$ 300,000			
SFMTA CP&C Engineering Support	\$ 130,000	2%		\$ 130,000		
Consultant Construction Support	\$ 210,000	4%			\$ 210,000	
SFMTA Operation Services incl service substitution *	\$ 2,000,000	36%		\$ 2,000,000		
Other Cost -- SSD, etc.	\$ 160,000	3%		\$ 160,000		
QA Testing	\$ 80,000	1%		\$ 80,000		
Community Outreach and IT Support	\$ 50,000	1%		\$ 50,000		
Contingency	\$ 880,000	16%		\$ 880,000		
TOTAL CONSTRUCTION PHASE	\$ 5,560,000		\$ 300,000	\$ 3,530,000	\$ 1,730,000	

* Cost estimate based on duration of shutdown and transit service substitution efforts for previous SFMTA construction projects. SFMTA will work with the contractor to develop a detailed work plan for service substitution after contract award.

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Islais Creek Bridge Catenary Reconstruction
Grant Recipient:	San Francisco Municipal Transportation Agency

SFCTA RECOMMENDATION

Resolution Number:		Resolution Date:	
Total Prop K Requested:	\$1,032,072	Total Prop AA Requested:	\$0
Total Prop K Recommended:	\$0	Total Prop AA Recommended:	\$0

SGA Project Number:	122-910ISL	Name:	Islais Creek Bridge Catenary Reconstruction
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	06/30/2024
Phase:	Construction	Fundshare:	

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
	\$0	\$300,000	\$532,072	\$200,000	\$0	\$1,032,072

Deliverables

1. Quarterly progress reports (QPRs) shall include % complete to date, photos of work being performed, upcoming project milestones (e.g. ground-breaking, ribbon-cutting), and project delivery updates including work performed in the prior quarter, work anticipated to be performed in the current quarter, and any issues that may impact delivery, in addition to all other requirements described in the Standard Grant Agreement.

2. Upon completion of 95% design (anticipated by February 2020) SFMTA will provide a task-based budget for the construction contract.

3. Prior to the start of construction (i.e. by September 2020) SFMTA will provide a detailed work plan and budget for alternative bus service during bridge shutdowns due to construction work.

Special Conditions

1. Sponsor may not incur expenses for the construction phase until Transportation Authority staff releases the funds (\$1,032,072) pending receipt of evidence of completion of design (e.g. copy of certifications page).

2. The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

Metric	Prop K	Prop AA
Actual Leveraging - Current Request	81.44%	No Prop AA
Actual Leveraging - This Project	85.52%	No Prop AA

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Islais Creek Bridge Catenary Reconstruction
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Current Prop K Request:	\$1,032,072
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1) The requested sales tax and/or vehicle registration fee revenues will be used to supplement and under no circumstance replace existing local revenues used for transportation purposes.

Initials of sponsor staff member verifying the above statement

JJ

CONTACT INFORMATION

	Project Manager	Grants Manager
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Islais Creek Bridge Overhead Reconstruction Project- Map

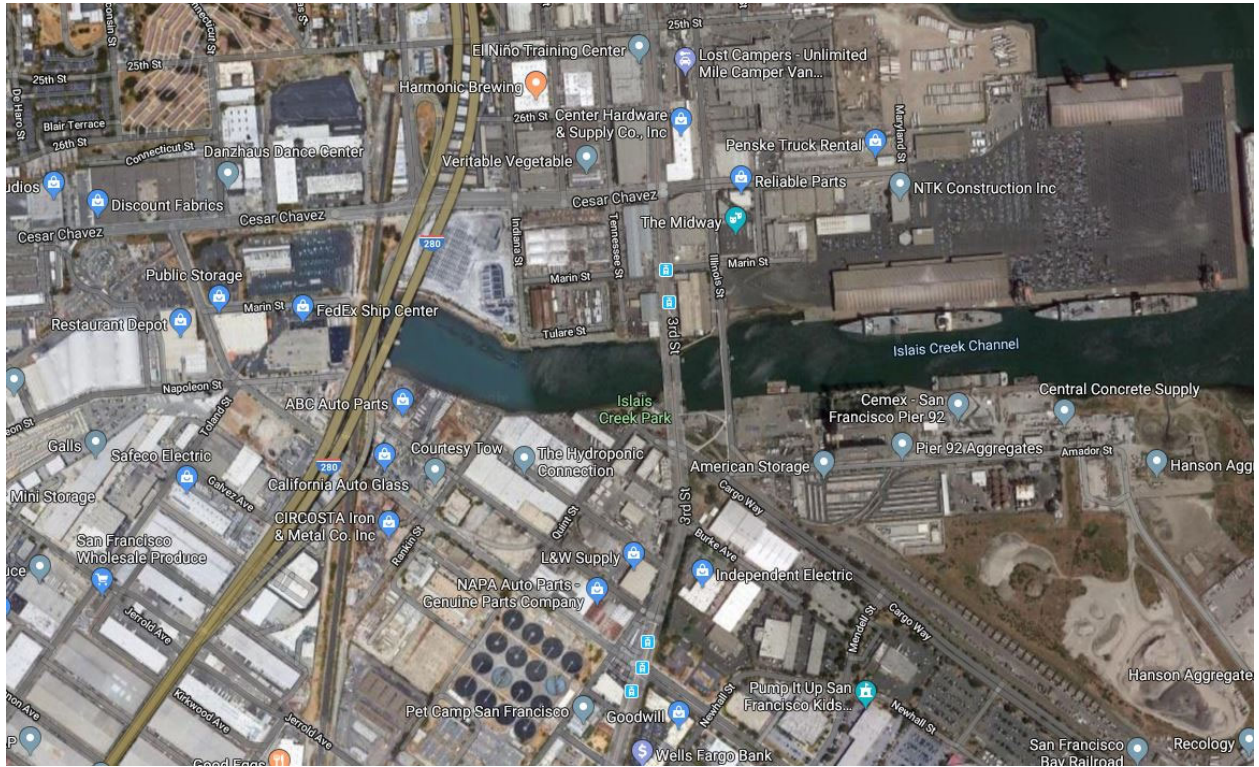


Figure No. 1 – General Overview looking to the South



Figure No. 2 – General Overview looking to the North

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San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Transit Signal Priority
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Prop K EP categories:	Adv. Technology & Info Systems SFgo
Current Prop K Request:	\$2,320,000
Supervisory District(s):	District 01, District 02, District 05, District 06, District 08, District 09

REQUEST

Brief Project Description

Repair and replace the existing Transit Signal Priority (TSP) equipment along Muni routes at locations where it is nearing the end of its useful life, and procure extended warranties where necessary to ensure that existing equipment continues functioning. Install new TSP equipment at certain intersections that were not upgraded when the larger corridor was equipped with TSP.

Detailed Scope, Project Benefits and Community Outreach

SFMTA will use the requested funds to repair or replace existing transit signal priority (TSP) related devices on buses and at signalized intersections, including radios, controller equipment and networking equipment that is nearing the end of its useful life. Requested funds will also be used for new installations at intersections that had been skipped when the larger corridor was equipped with TSP because of conflicts with unrelated construction projects.

TSP installations started citywide in 2012 with a goal of fully equipping every transit vehicle and every signalized intersection on a Muni bus route with TSP, approximately 600 intersections in all. To date SFMTA has equipped about 417 intersections with TSP, including all the Muni Rapid route corridors. In 2018 \$1.2 million in Prop K funds was allocated for TSP installations at intersections along Muni's 5-Fulton, 9-San Bruno, 14-Mission, 28-19th Avenue and 38-Geary.

The subject request will provide service and replace parts of the TSP infrastructure where it is reaching the end of its useful life. In addition, new TSP equipment will be installed along portions of the 7-Haight line and on 16th Street from Church to Mission, where conflicts with other construction prevented installation of TSP equipment at the time the rest of the intersections along those corridors were equipped with TSP.

The primary equipment to be repaired or replaced through the requested allocation will be:

- Intersection-installed radios to communicate with the radios on the buses
- Phase selector cards to be installed inside traffic signal controller cabinets. These are used to translate information from intersection TSP radios to traffic signal controllers.
- Wireless radios to provide remote access to connect to TSP intersections to monitor activity and to pull maintenance logs.
- Cables, Ethernet cords, mounting brackets to install and connect TSP intersections equipment to the network.

Some of the necessary equipment has been purchased with prior funds. The subject request will fund additional equipment purchases, labor costs for signal timing engineering and equipment installation, and extended warranties for certain existing equipment to ensure continued manufacturer support. The locations expected to receive TSP upgrades or new installations funded by the subject request include intersections along the 7-Haight line, 16th Street, 4th Street, Geneva Avenue, Park Presidio, and Lombard Street. New TSP installations will be done on a route basis at intersections that were under construction at the time TSP equipment was first installed for the corridor.

Because of the high variation in cost, SFMTA estimates the requested funds will be sufficient to activate 40 intersections on the low end to 200 intersections on the high end. The exact number of intersections with TSP installations or upgrades

E7-12

will depend on the condition of the existing signal infrastructure (e.g. conduits, signal controllers, networking equipment). Installation costs vary from \$10,000 to \$50,000 per intersection. Factors affecting cost include need for updated controller firmware; controller cabinet must be upgraded to accommodate additional equipment; existing conduits in bad condition; there is already an existing TSP radio at an intersection but no wireless radio for a network connection; need for a fiber optic connection because the bandwidth of the wireless radio is limited by poor line-of-sight or distance.

Benefits: The benefits from the proposed investment will include the following:

- (1) Improved transit performance - TSP is used to extend green lights or to bring up green lights earlier to prioritize transit vehicles that are approaching the intersection. TSP improves the odds that a transit vehicle sees a green light and will endure reduced red light delay thus improving both reliability and travel times.
- (2) Updated traffic signal timing to latest standards – Signal timing will be updated with new installation of TSP equipment to reflect the latest standards for Yellows, All-Reds and pedestrian clearance.
- (3) Remote monitoring – Installed equipment will allow SFMTA to remotely check into an intersection and observe current traffic signal timing and produce maintenance logs to review timestamped information on when TSP calls were made and which bus number made the call.

SFMTA can monitor the impact of TSP on transit performance through two data sources – (1) via intersection controllers and (2) via TSP radios on buses. The first method allows SFMTA to remotely check into each network-connected traffic controller front panel screen to see the current signal timing by phase and whether TSP is enabled. The second method allows SFMTA to pull data logs on each bus to see how many TSP calls have been placed, at which intersections and what times. Through the logs SFMTA can tell if equipment is properly functioning in each intersection and bus. Some TSP features will be available remotely for staff at the Transportation Management Center to monitor. For security reasons access to the first method of viewing traffic signal controller displays will be limited to certain traffic engineers and electricians.

SFMTA is also working with its TSP radio vendor to pull second-by-second GPS location pings. This process is still in the development stage but once implemented SFMTA will be able to determine locations prone to delays and address by modifying traffic signal timing.

Implementation: SFMTA Sustainable Streets will (1) perform the traffic signal timing updates (2) manage the issuance and administration of the purchase orders for TSP related equipment and (3) remotely monitor TSP performance. SFMTA's Signal Shop will perform intersection installs and work with other city agencies such as the Department of Technology to help with upgrades of the existing IT network to ensure compatibility with the TSP equipment.

Project Location

Citywide

Project Phase(s)

Construction (CON)

5YPP/STRATEGIC PLAN INFORMATION

Type of Project in the Prop K 5YPP/Prop AA Strategic Plan?	Named Project
Is requested amount greater than the amount programmed in the relevant 5YPP or Strategic Plan?	Less than or Equal to Programmed Amount
Prop K 5YPP Amount:	\$2,320,000

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Transit Signal Priority
Grant Recipient:	San Francisco Municipal Transportation Agency

ENVIRONMENTAL CLEARANCE

Environmental Type:	Categorically Exempt
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PROJECT DELIVERY MILESTONES

Phase	Start		End	
	Quarter	Calendar Year	Quarter	Calendar Year
Planning/Conceptual Engineering				
Environmental Studies (PA&ED)			Jul-Aug-Sep	2008
Right of Way				
Design Engineering (PS&E)				
Advertise Construction				
Start Construction (e.g. Award Contract)	Jul-Aug-Sep	2020		
Operations				
Open for Use			Jan-Feb-Mar	2023
Project Completion (means last eligible expenditure)			Apr-May-Jun	2023

SCHEDULE DETAILS

August 2008: Obtained CEQA Categorical Exemption Determination from the City and County of San Francisco

Once the funds from Prop K FY 2019-20 are allocated, they will be spent to install TSP-related devices on an intersection by intersection rolling basis. As each intersection is completed it will be open for use. Full completion is expected by end of FY 2022/23.

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Transit Signal Priority
Grant Recipient:	San Francisco Municipal Transportation Agency

FUNDING PLAN - FOR CURRENT REQUEST

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K: Adv. Technology & Info Systems SFgo	\$0	\$2,320,000	\$0	\$2,320,000
Phases in Current Request Total:	\$0	\$2,320,000	\$0	\$2,320,000

FUNDING PLAN - ENTIRE PROJECT (ALL PHASES) *

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K	\$0	\$2,808,680	\$1,189,972	\$3,998,652
TSF	\$0	\$3,990,890	\$3,062,190	\$7,053,080
TBD	\$1,514,000	\$0	\$0	\$1,514,000
RM3	\$5,958,977	\$0	\$0	\$5,958,977
POPULATION BASELINE	\$0	\$0	\$3,864,829	\$3,864,829
OPERATING	\$0	\$0	\$3,000,000	\$3,000,000
IPIC FUNDS	\$0	\$6,859,626	\$300,000	\$7,159,626
GO BOND	\$0	\$0	\$1,357,040	\$1,357,040
DEVELOPER FEE	\$0	\$0	\$1,550,000	\$1,550,000
Funding Plan for Entire Project Total:	\$7,472,977	\$13,659,196	\$14,324,031	\$35,456,204

* Funding for entire TSP program, including equipping all 600 signalized intersections along transit routes with TSP equipment and infrastructure.

COST SUMMARY

Phase	Total Cost	Prop K - Current Request	Source of Cost Estimate
Planning/Conceptual Engineering	\$0	\$0	
Environmental Studies (PA&ED)	\$0	\$0	
Right of Way	\$0	\$0	
Design Engineering (PS&E)	\$0	\$0	
Construction (CON)	\$35,456,204	\$2,320,000	Engineer's estimate based on labor and vendor estimates and prior TSP installation projects.
Operations	\$0	\$0	
Total:	\$35,456,204	\$2,320,000	

% Complete of Design:	100.0%
As of Date:	07/16/2018
Expected Useful Life:	15 Years

San Francisco County Transportation Authority
 Prop K/Prop AA Allocation Request Form

Project Name: Transit Signal Priority

MAJOR LINE ITEM BUDGET

CONSTRUCTION

SUMMARY BY MAJOR LINE ITEM (BY AGENCY LABOR BY TASK)

Budget Line Item	Totals	% of contract	DT	SFMTA	Contractor
Purchase Order	\$ 1,160,000	50%			\$ 1,160,000
Networking Equipment & Warranty	\$ 200,000	9%			\$ 200,000
Radio Equipment & Warranty	\$ 460,000	20%			\$ 460,000
Miscellaneous Parts	\$ 200,000	9%			\$ 200,000
Data Services	\$ 300,000	13%			\$ 300,000
SSD Signal Shop Support *	\$ 530,000	23%		\$ 530,000	
SSD Engineering	\$ 530,000	23%		\$ 530,000	
Work Authorizations to other City Agencies	\$ 100,000	4%	\$ 100,000		
Department of Technology	\$ 100,000	4%	\$ 100,000		

Phase Grand Total (Purchase Orders+Engineering and Signal Shop Support+Work Authorizations)	\$ 2,320,000
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* SSD = Sustainable Streets Division of SFMTA

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Transit Signal Priority
Grant Recipient:	San Francisco Municipal Transportation Agency

SFCTA RECOMMENDATION

Resolution Number:		Resolution Date:	
Total Prop K Requested:	\$2,320,000	Total Prop AA Requested:	\$0
Total Prop K Recommended:	\$2,320,000	Total Prop AA Recommended:	\$0

SGA Project Number:	132-907TSP	Name:	Transit Signal Priority
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	03/31/2023
Phase:	Construction	Fundshare:	100.0

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
PROP K EP-132	\$0	\$1,160,000	\$696,000	\$464,000	\$0	\$2,320,000

Deliverables

- Quarterly progress reports (QPRs) shall include % complete to date, photos of work being performed, and delivery updates including the number and locations of the intersections upgraded with Transit Signal Priority (TSP) equipment in the preceding quarter, work anticipated to be performed in the upcoming quarter, and any issues that may impact delivery, in addition to all other requirements described in the Standard Grant Agreement.
- With the first QPR (due July 1, 2020), SFMTA shall confirm the list of bus routes and intersections at which TSP improvements will be implemented as part of the subject project.
- Upon completion of project, SFMTA shall provide a before/after study evaluating the effectiveness of the TSP improvements funded by this project.

Special Conditions

- The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

Metric	Prop K	Prop AA
Actual Leveraging - Current Request	0.0%	No Prop AA
Actual Leveraging - This Project	88.72%	No Prop AA

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Transit Signal Priority
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Current Prop K Request:	\$2,320,000
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1) The requested sales tax and/or vehicle registration fee revenues will be used to supplement and under no circumstance replace existing local revenues used for transportation purposes.

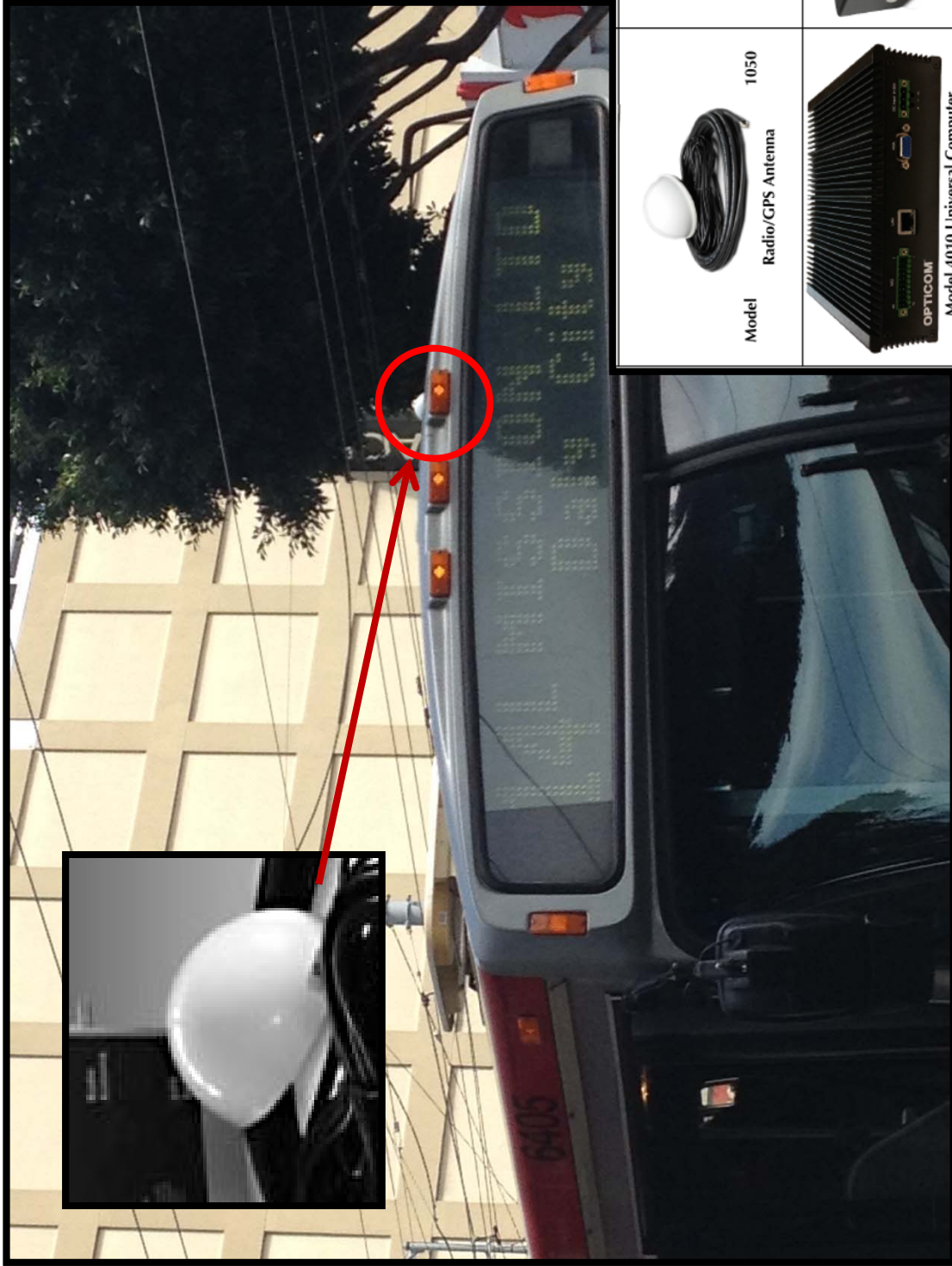
Initials of sponsor staff member verifying the above statement

JJ

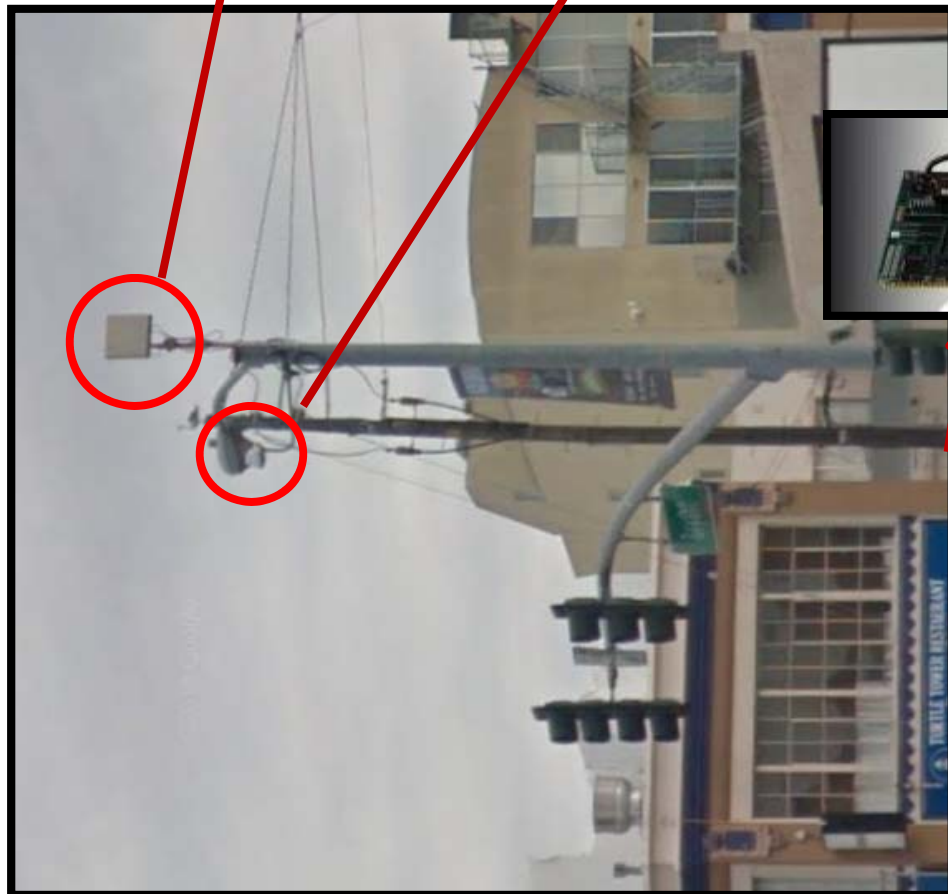
CONTACT INFORMATION

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Title:	Project Manager	Grants Procurement Manager
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TSP Equipment on Bus



TSP Equipment at the Intersection



Wireless Radio



GPS Receiver



Phase selector

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Sign Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Prop K EP categories:	Signals and Signs
Current Prop K Request:	\$220,000
Supervisory District(s):	Citywide

REQUEST

Brief Project Description

The project will replace street name signs, fluorescent yellow-green pedestrian crossing ahead signs, and fluorescent yellow-green school ahead crossing signs citywide that are reaching the end of their useful lives. The upgrade will bring signs up to current retroreflective standards, improving safety and visibility at locations prioritized for urgent replacement of signs.

Detailed Scope, Project Benefits and Community Outreach

SFMTA requests allocation of \$220,000 in Prop K funding to replace street name signs and fluorescent yellow-green warning signs that are reaching the end of their useful life and need to be upgraded to current retroreflective standards. Approximately 757 signs will be upgraded as part of this project, at 521 intersections.

The proposed scope of the Traffic Sign Replacement Phase 1 project is to replace the following three types of signs:

- > advanced street name signs (green on white),
- > fluorescent yellow-green Pedestrian Crossing Ahead signs, and
- > fluorescent yellow-green School Ahead crossing signs.

San Francisco's Vision Zero program is guided by core principles that reflect that traffic fatalities are preventable, and that traffic safety interventions will mitigate the likelihood that a collision results in death. By the replacing signs that are reaching the end of their useful life with signs that meet current retroreflective standards, traffic sign visibility will be improved. Visible signs communicate with drivers and pedestrians in a non-verbal way that keeps all roadway users safe. This project will improve safety and help the City reach its Vision Zero goal of eliminating all traffic fatalities and severe injuries.

All replacement/installation work will be conducted by the SFMTA Sustainable Streets Division - Sign Shop. They will also request purchase orders for sign materials. The SFMTA Sustainable Streets Division – Transportation Engineering will manage the scope of the project and issue work orders to the SFMTA Sign Shop.

Preliminary location assessment was conducted using the SFMTA Sign Shop inventory database to identify older signs that were installed roughly in or before 2005. Final locations will be determined after field reviews and consultation with the SFMTA Sign Shop who will prioritize locations needing the most urgent replacement. Due to the relatively small amount of design funds needed to identify locations and submit work orders, there is only a construction phase. Due to the nature of this project, we do not anticipate developing an outreach plan and no excavation is needed.

As part of future allocation requests, SFMTA staff anticipates requesting funding for replacement of other sign types, including regulatory signs such as stop and no left-turn signs.

See attachment for additional details.

Project Location

E7-22

Candidate locations are provided as attachments

Project Phase(s)

Construction (CON)

5YPP/STRATEGIC PLAN INFORMATION

Type of Project in the Prop K 5YPP/Prop AA Strategic Plan?	Named Project
Is requested amount greater than the amount programmed in the relevant 5YPP or Strategic Plan?	Less than or Equal to Programmed Amount
Prop K 5YPP Amount:	\$220,000

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Sign Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

ENVIRONMENTAL CLEARANCE

Environmental Type:	Categorically Exempt
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PROJECT DELIVERY MILESTONES

Phase	Start		End	
	Quarter	Calendar Year	Quarter	Calendar Year
Planning/Conceptual Engineering				
Environmental Studies (PA&ED)	Jan-Feb-Mar	2020	Jan-Feb-Mar	2020
Right of Way				
Design Engineering (PS&E)				
Advertise Construction				
Start Construction (e.g. Award Contract)	Jan-Feb-Mar	2020		
Operations				
Open for Use			Oct-Nov-Dec	2020
Project Completion (means last eligible expenditure)			Jan-Feb-Mar	2021

SCHEDULE DETAILS

At the time of this allocation request submittal, the SFMTA acknowledges that environmental review has not been done but expects to request review by early 2020. Before installation of signs in the field, SFMTA will request environmental clearance review under the California Environmental Quality Act (CEQA). SFMTA shall not proceed with the replacement/installation of signs as part of the project until there has been complete compliance with CEQA. Prior to billing for any construction funds, if requested by the Transportation Authority, the SFMTA will provide the Transportation Authority with documentation confirming that CEQA review has been completed.

There is no excavation needed as part of this project.

Due to the nature of this project, we do not anticipate that an outreach plan is needed.

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Sign Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

FUNDING PLAN - FOR CURRENT REQUEST

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K: Signals and Signs	\$0	\$220,000	\$0	\$220,000
Phases in Current Request Total:	\$0	\$220,000	\$0	\$220,000

COST SUMMARY

Phase	Total Cost	Prop K - Current Request	Source of Cost Estimate
Planning/Conceptual Engineering	\$0	\$0	
Environmental Studies (PA&ED)	\$0	\$0	
Right of Way	\$0	\$0	
Design Engineering (PS&E)	\$0	\$0	
Construction (CON)	\$220,000	\$220,000	Recent charges by MTA Sign Shop
Operations	\$0	\$0	
Total:	\$220,000	\$220,000	

% Complete of Design:	N/A
As of Date:	N/A
Expected Useful Life:	15 Years

Project Name: Traffic Sign Upgrades FY20

MAJOR LINE ITEM BUDGET

SUMMARY BY MAJOR LINE ITEM (BY AGENCY LABOR BY TASK)	
Budget Line Item	SFMTA
1. Construction - MTA Sign Shop (materials)	\$40,000
2. Construction - MTA Sign Shop (labor)	\$160,000
3. Construction Management/Support - MTA Engineering	\$20,000
TOTAL CONSTRUCTION PHASE	\$220,000

Note: Cost per intersection ranges from \$250 to \$1,000.

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Sign Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

SFCTA RECOMMENDATION

Resolution Number:		Resolution Date:	
Total Prop K Requested:	\$220,000	Total Prop AA Requested:	\$0
Total Prop K Recommended:	\$220,000	Total Prop AA Recommended:	\$0

SGA Project Number:		Name:	Traffic Sign Replacement Phase 1
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	12/31/2021
Phase:	Construction	Fundshare:	100.0

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
PROP K EP-133	\$55,000	\$165,000	\$0	\$0	\$0	\$220,000

Deliverables

1. Quarterly progress reports shall provide the list of locations and type of signs installed the prior quarter and list of what will be installed the next quarter, in addition to all other requirements described in the Standard Grant Agreement (SGA); over the course of the project, quarterly progress reports should include 2-3 photos of work in progress and completed work.

Special Conditions

1. The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

Notes

1. The SFMTA acknowledges that environmental review has not been done. See Section 1.III. PROJECT DEFINITION AND SCOPE of the SGA.

Metric	Prop K	Prop AA
Actual Leveraging - Current Request	0.0%	No Prop AA
Actual Leveraging - This Project	0.0%	No Prop AA

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Sign Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Current Prop K Request:	\$220,000
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1) The requested sales tax and/or vehicle registration fee revenues will be used to supplement and under no circumstance replace existing local revenues used for transportation purposes.

Initials of sponsor staff member verifying the above statement
JJ

CONTACT INFORMATION

	Project Manager	Grants Manager
Name:	Geraldine De Leon	Joel C Goldberg
Title:	Lead Engineer	Grants Procurement Manager
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Traffic Sign Upgrades FY 20 Background and Scope

The San Francisco Municipal Transportation Agency (SFMTA) is seeking \$220,000 in Proposition K Sales Tax funds toward the construction phase of Traffic Sign Upgrades FY 20 project.

This project is requesting allocation of funding from the Traffic Sign Upgrades Programmatic Line EP-33 from the 2019 Proposition K 5-Year Prioritization Program. This programmatic line has a stated goal to replace signs that are nearing the end of their useful life and need to be upgraded to current retroreflective standards. Examples of signs that need replacement are advance street name signs and regulatory signs such as stop and no left-turn signs.

The proposed scope of the Traffic Sign Upgrades FY 20 project is to replace the following three types of signs that are reaching the end of their useful life and need to be upgraded to current retroreflective standards:

- Advanced street name signs (green on white)
- Fluorescent yellow-green pedestrian crossing ahead signs
- Fluorescent yellow-green school ahead crossing signs

As part of future allocation requests, MTA staff anticipates requesting funding for replacement of other sign types.

Proposed Locations:

Candidate locations for sign replacement are provided in the attached three tables. Preliminary assessment prioritizes older signs that were installed roughly on or before 2005. Final locations will be determined at a later time after field reviews and consultation with the MTA Sign Shop.

Implementation

Due to the relatively small amount of design effort needed for this project, we are proposing to only have a construction phase for this project.

The SFMTA Sustainable Streets Division – Sign Shop will perform all the replacement/installation work for this project. They will also request purchase orders for sign materials.

The SFMTA Sustainable Streets Division – Transportation Engineering will manage the scope of the project and issue work orders to the MTA Sign Shop.

There is no excavation needed as part of this project.

<u>Task</u>	<u>Force Account Work Performed By</u>
• Construction	SFMTA Sustainable Streets Division – Sign Shop
• Construction Support	SFMTA Sustainable Streets Division – Transportation Engineering

Location Selection Criteria

San Francisco’s Vision Zero program is guided by core principles that reflect that traffic fatalities are preventable, and that traffic safety interventions will mitigate the likelihood that a collision results in death. By implementing the replacement of street name signs, fluorescent yellow-green pedestrian crossing ahead signs, and fluorescent yellow-green school ahead crossing signs that are reaching the end of their useful life, traffic sign visibility will be improved. Visible signs communicate with drivers and pedestrians in a non-verbal way that keeps all roadway users safe. This project will improve safety and help the City reach its Vision Zero goal of eliminating all traffic fatalities and severe injuries.

Preliminary assessment was conducted using the MTA Sign Shop inventory database to identify older signs that were installed roughly on or before 2005. Final locations will be determined at a later time after field reviews and consultation with the MTA Sign Shop.

Community Outreach

Due to the nature of this project, we do not anticipate that an outreach plan is needed.

The proposed candidate locations will be presented to the Transportation Authority Board meetings.

Table 1: Candidate Locations for Street Name Sign Replacements

#	Street 1	Street 2	SIGN LOCATION	District	Install Date
1	POTRERO AVE	16TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/18/1982
2	MISSION ST	STEUART ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 6	04/17/1990
3	JUDSON AVE	PHELAN AVE	CENTER ISLAND, E LINE, WESTBOUND	DISTRICT 7	10/15/1991
4	THE EMBARCADERO	BRANNAN ST	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 6	04/01/1996
5	4TH ST	BRANNAN ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	03/01/2000
6	THE EMBARCADERO	BRYANT ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 6	03/03/2000
7	MISSION ROCK ST	FERRY A FRANCOIS BLVD	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 6	03/04/2000
8	MISSION ROCK ST	FERRY A FRANCOIS BLVD	SOUTH SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	03/07/2000
9	3RD ST	FERRY A FRANCOIS BLVD	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	03/10/2000
10	11TH ST	FOLSOM ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 6	03/10/2000
11	17TH ST	POTRERO AVE	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	03/11/2000
12	POTRERO AVE	17TH ST	SOUTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	03/11/2000
13	POTRERO AVE	17TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/11/2000
14	POTRERO AVE	18TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/11/2000
15	TOWNSEND ST	7TH ST	NORTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	03/11/2000
16	POTRERO AVE	17TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/11/2000
17	16TH ST	POTRERO AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	03/16/2000
18	KING ST	3RD ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 6	03/16/2000
19	4TH ST	BERRY ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 6	03/21/2000
20	4TH ST	BERRY ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	03/21/2000
21	PORTOLA DR	EVELYN WAY	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	04/06/2000
22	PORTOLA DR	EVELYN WAY	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	04/07/2000
23	PORTOLA DR	GLENVIEW DR	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 8	04/07/2000
24	PORTOLA DR	GLENVIEW DR	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 8	04/07/2000
25	PORTOLA DR	LAGUNA HONDA BLVD	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 7	04/11/2000
26	PORTOLA DR	MIRALOMA DR	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 7	04/11/2000
27	5TH ST	MISSION ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 6	05/08/2000
28	21ST ST	VALENCIA ST	NORTH WEST CORNER	DISTRICT 8	10/30/2000
29	3RD ST	BERRY ST	WEST SIDE	DISTRICT 6	11/16/2000
30	3RD ST	BERRY ST	EAST SIDE	DISTRICT 6	11/16/2000
31	VALENCIA ST	17TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 9	11/21/2000
32	VALENCIA ST	17TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 9	11/21/2000
33	CORTLAND AVE	MISSION ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 9	02/12/2001
34	CROSS OVER DR (GGP)	TIN LUTHER KING JR DR	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	03/10/2001
35	CLAY ST	DAVIS ST	NORTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 3	04/25/2001
36	JUDAH ST	7TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 5	07/18/2001
37	CLAY ST	DAVIS ST	SOUTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 3	07/25/2001
38	16TH ST	DE HARO ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	01/16/2002
39	16TH ST	DE HARO ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	01/16/2002
40	GREAT HWY	LINCOLN WAY	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 4	01/30/2002
41	POTRERO AVE	ALAMEDA ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	10/15/2002
42	POTRERO AVE	ALAMEDA ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	10/15/2002
43	POTRERO AVE	20TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 9	01/02/2003
44	POTRERO AVE	20TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 9	01/02/2003
45	CLAYTON ST	TWIN PEAKS BLVD	EAST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 8	01/08/2003
46	OCEAN AVE	PHELAN AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 7	06/04/2003
47	JUNIPERO SERRA BLVD	OCEAN AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 7	06/04/2003
48	JUNIPERO SERRA BLVD	OCEAN AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 7	06/04/2003
49	MASONIC AVE	GROVE ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	11/04/2003
50	MASONIC AVE	GROVE ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	11/04/2003
51	CALIFORNIA ST	PARK PRESIDIO BLVD	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 1	04/13/2004
52	CALIFORNIA ST	PARK PRESIDIO BLVD	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	04/13/2004
53	LAGUNA HONDA BLVD	DEWEY BLVD	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	05/20/2004
54	BAYSHORE BLVD	VISITACION AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	06/22/2004
55	BAYSHORE BLVD	SUNNYDALE AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	06/22/2004
56	BAYSHORE BLVD	SUNNYDALE AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	06/22/2004
57	BAYSHORE BLVD	VISITACION AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	06/23/2004
58	BAYSHORE BLVD	LELAND AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	06/23/2004
59	BAYSHORE BLVD	LELAND AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	06/28/2004
60	SAN JOSE AVE	ROUSSEAU ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 8	09/08/2004
61	POST ST	LAGUNA ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	10/26/2004
62	POTRERO AVE	24TH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 9	11/02/2004

Table 1: Candidate Locations for Street Name Sign Replacements

#	Street 1	Street 2	SIGN LOCATION	District	Install Date
63	POTRERO AVE	24TH ST	NORTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 9	11/02/2004
64	MISSION ST	5TH ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 6	01/18/2005
65	3RD ST	PAUL AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/01/2005
66	3RD ST	INGERSON AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/02/2005
67	3RD ST	EGBERT AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/03/2005
68	3RD ST	FITZGERALD AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/03/2005
69	3RD ST	KEY AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/24/2005
70	3RD ST	JAMESTOWN AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/24/2005
71	3RD ST	EGBERT AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/01/2005
72	3RD ST	HOLLISTER AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/01/2005
73	3RD ST	FITZGERALD AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/01/2005
74	3RD ST	HOLLISTER AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/02/2005
75	3RD ST	INGERSON AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/02/2005
76	3RD ST	JAMESTOWN AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/02/2005
77	3RD ST	KEY AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/03/2005
78	LAGUNA ST	OAK ST	NORTH WEST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	03/18/2005
79	FELL ST	CENTRAL AVE	NORTH WEST CORNER	DISTRICT 5	03/30/2005
80	OAK ST	MASONIC AVE	NORTH SIDE, EASTBOUND TRAFFIC	DISTRICT 5	04/04/2005
81	GOLDEN GATE AVE	GOUGH ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	05/12/2005
82	3RD ST	THOMAS AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	05/14/2005
83	3RD ST	THORNTON AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	05/14/2005
84	POTRERO AVE	22ND ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 9	06/27/2005
85	POTRERO AVE	22ND ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 9	06/27/2005
86	POTRERO AVE	22ND ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 9	06/27/2005
87	OCTAVIA ST	HAIGHT ST	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 5	10/03/2005
88	OCTAVIA ST	PAGE ST	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 5	10/03/2005
89	OCTAVIA ST	HAIGHT ST	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 5	10/03/2005
90	OCTAVIA ST	HAIGHT ST	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 5	10/04/2005
91	OCTAVIA ST	HAIGHT ST	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 5	10/04/2005
92	OCTAVIA ST	OAK ST	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 5	10/04/2005
93	OCTAVIA ST	OAK ST	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 5	10/04/2005
94	OCTAVIA ST	PAGE ST	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 5	10/04/2005
95	OCTAVIA ST	PAGE ST	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 5	10/05/2005
96	OCTAVIA ST	OAK ST	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 5	10/05/2005
97	OCTAVIA ST	PAGE ST	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 5	10/05/2005
98	3RD ST	22ND ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/23/2006
99	3RD ST	22ND ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/23/2006
100	3RD ST	23RD ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/24/2006
101	3RD ST	23RD ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/24/2006
102	3RD ST	26TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/24/2006
103	3RD ST	25TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/24/2006
104	3RD ST	26TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/24/2006
105	3RD ST	24TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/27/2006
106	3RD ST	25TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/27/2006
107	3RD ST	24TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/27/2006
108	3RD ST	HUDSON AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/28/2006
109	3RD ST	HUDSON AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/28/2006
110	3RD ST	GALVEZ AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/01/2006
111	3RD ST	GALVEZ AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/01/2006
112	3RD ST	CESAR CHAVEZ ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/04/2006
113	3RD ST	CESAR CHAVEZ ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/04/2006
114	3RD ST	CESAR CHAVEZ ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/04/2006
115	3RD ST	CESAR CHAVEZ ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/04/2006
116	3RD ST	INNES AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/04/2006
117	3RD ST	INNES AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/04/2006
118	3RD ST	BURKE AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/04/2006
119	3RD ST	BURKE AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/04/2006
120	3RD ST	19TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/10/2006
121	3RD ST	19TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/10/2006
122	3RD ST	18TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/13/2006
123	3RD ST	FAIRFAX AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/13/2006
124	3RD ST	DAVIDSON AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/13/2006

Table 1: Candidate Locations for Street Name Sign Replacements

#	Street 1	Street 2	SIGN LOCATION	District	Install Date
125	3RD ST	FAIRFAX AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/13/2006
126	3RD ST	DAVIDSON AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/13/2006
127	3RD ST	18TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/13/2006
128	3RD ST	MARIN ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/14/2006
129	3RD ST	MARIPOSA ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/14/2006
130	3RD ST	20TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/14/2006
131	3RD ST	20TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/14/2006
132	3RD ST	MARIPOSA ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/14/2006
133	16TH ST	3RD ST	NORTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	03/17/2006
134	16TH ST	3RD ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	03/17/2006
135	3RD ST	CESAR CHAVEZ ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/21/2006
136	3RD ST	16TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 6	03/21/2006
137	3RD ST	MARIN ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/21/2006
138	3RD ST	REVERE AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/22/2006
139	3RD ST	BANCROFT AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	03/22/2006
140	3RD ST	BANCROFT AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/22/2006
141	MARIPOSA ST	3RD ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 6	03/23/2006
142	DIVISION ST	POTRERO AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	03/28/2006
143	DIVISION ST	POTRERO AVE	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	03/28/2006
144	DIVISION ST	POTRERO AVE	SOUTH SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	03/29/2006
145	BRANNAN ST	DORE ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 6	03/29/2006
146	SANSOME ST	WASHINGTON ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 3	04/19/2006
147	HAIGHT ST	LYON ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 8	05/09/2006
148	HAIGHT ST	LYON ST	SOUTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 8	05/09/2006
149	CLAYTON ST	FREDERICK ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 5	05/09/2006
150	CLAYTON ST	FREDERICK ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 5	05/09/2006
151	HAIGHT ST	LYON ST	SOUTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 8	05/09/2006
152	HAIGHT ST	BRODERICK ST	SOUTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 5	05/10/2006
153	HAIGHT ST	BRODERICK ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	05/10/2006
154	HAIGHT ST	BRODERICK ST	NORTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	05/10/2006
155	FILLMORE ST	HAIGHT ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	05/11/2006
156	3RD ST	EVANS AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	05/11/2006
157	3RD ST	EVANS AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	05/11/2006
158	BELVEDERE ST	HAIGHT ST	SOUTH WEST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	05/12/2006
159	4TH ST	KING ST	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 6	08/16/2006
160	4TH ST	KING ST	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 6	08/16/2006
161	CESAR CHAVEZ ST	3RD ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	08/21/2006
162	KING ST	4TH ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	08/21/2006
163	6TH ST	MISSION ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	10/17/2006
164	SAN BRUNO AVE	FELTON ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 9	10/20/2006
165	SAN BRUNO AVE	FELTON ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 9	10/20/2006
166	3RD ST	NEWCOMB AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	01/12/2007
167	OCEAN AVE	MIRAMAR AVE	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	01/24/2007
168	OCEAN AVE	VICTORIA ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	01/24/2007
169	OCEAN AVE	APTOS AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	01/25/2007
170	OCEAN AVE	BRIGHTON AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	01/25/2007
171	OCEAN AVE	APTOS AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	01/25/2007
172	OCEAN AVE	LEE AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	01/26/2007
173	OCEAN AVE	LEE AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 7	01/26/2007
174	OCEAN AVE	BRIGHTON AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	01/26/2007
175	OCEAN AVE	HOWTH ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	01/30/2007
176	OCEAN AVE	HOWTH ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 7	01/31/2007
177	OCEAN AVE	JULES AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	01/31/2007
178	OCEAN AVE	JULES AVE	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	01/31/2007
179	OCEAN AVE	SAN FERNANDO WAY	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	02/01/2007
180	OCEAN AVE	SAN FERNANDO WAY	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	02/01/2007
181	COLUMBUS AVE	MASON ST	SOUTH SIDE	DISTRICT 3	02/06/2007
182	MARKET ST	VALENCIA ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	02/13/2007
183	SAN BRUNO AVE	PAUL AVE	SOUTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 9	03/29/2007
184	SAN BRUNO AVE	DWIGHT ST	NORTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 9	03/29/2007
185	FRANKLIN ST	LOMBARD ST	SOUTH WEST CORNER, NORTHBOUND TRAFFIC	DISTRICT 2	04/04/2007
186	LOMBARD ST	WEBSTER ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 2	04/10/2007

Table 1: Candidate Locations for Street Name Sign Replacements

#	Street 1	Street 2	SIGN LOCATION	District	Install Date
187	LOMBARD ST	BUCHANAN ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 2	04/10/2007
188	LOMBARD ST	WEBSTER ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	04/10/2007
189	LOMBARD ST	BUCHANAN ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	04/10/2007
190	LOMBARD ST	GOUGH ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 2	04/11/2007
191	FRANKLIN ST	LOMBARD ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 2	04/11/2007
192	LOMBARD ST	GOUGH ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	04/11/2007
193	LOMBARD ST	LAGUNA ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	04/12/2007
194	LOMBARD ST	OCTAVIA ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 2	04/12/2007
195	LOMBARD ST	LAGUNA ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 2	04/12/2007
196	LOMBARD ST	OCTAVIA ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	04/12/2007
197	LOMBARD ST	FRANKLIN ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	04/24/2007
198	LOMBARD ST	FRANKLIN ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 2	04/25/2007
199	LAKE MERCED BLVD	HIGUERA AVE	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 7	07/05/2007
200	LAKE MERCED BLVD	HIGUERA AVE	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 7	07/05/2007
201	TURK ST	LEAVENWORTH ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 6	09/28/2007
202	CALIFORNIA ST	OCTAVIA ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	11/28/2007
203	CALIFORNIA ST	OCTAVIA ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 5	11/28/2007
204	POTRERO AVE	19TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	11/30/2007
205	POTRERO AVE	19TH ST	NORTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	11/30/2007
206	POTRERO AVE	19TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	11/30/2007
207	OCTAVIA ST	HAIGHT ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	01/18/2008
208	OFARRELL ST	CYRIL MAGNIN ST	NORTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 3	01/23/2008
209	INDIANA ST	23RD ST	SOUTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	02/06/2008
210	VERMONT ST	16TH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	03/11/2008
211	SAN BRUNO AVE	DWIGHT ST	EAST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 9	04/03/2008
212	PHELAN AVE	JUDSON AVE	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	07/07/2008
213	7TH ST	BERRY ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	09/19/2008
214	ALEMANY BLVD	SAN JOSE AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 11	10/07/2008
215	16TH ST	VERMONT ST	SOUTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	10/20/2008
216	PORTOLA DR	VICENTE ST	CENTER ISLAND, S LINE, EASTBOUND	DISTRICT 7	10/30/2008
217	MASONIC AVE	FULTON ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	11/06/2008
218	3RD ST	CHANNEL ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 6	01/12/2009
219	3RD ST	CHANNEL ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	01/12/2009
220	SACRAMENTO ST	SANSOME ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 3	01/16/2009
221	SACRAMENTO ST	MONTGOMERY ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 3	01/16/2009
222	FRANKLIN ST	FULTON ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	03/09/2009
223	KEARNY ST	GEARY ST	SOUTH WEST CORNER, NORTHBOUND TRAFFIC	DISTRICT 3	06/17/2009
224	JUNIPERO SERRA BLVD	WINSTON DR	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 7	10/01/2009
225	SUNSET BLVD	OCEAN AVE	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 7	10/22/2009
226	CALIFORNIA ST	LYON ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	02/10/2010
227	CALIFORNIA ST	LYON ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 2	02/10/2010
228	MISSION ST	AVALON AVE	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 11	02/10/2010
229	MISSION ST	AVALON AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 11	02/10/2010
230	MARKET ST	DOUGLASS ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 8	02/11/2010
231	CALIFORNIA ST	STOCKTON ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 3	02/18/2010
232	CALIFORNIA ST	STOCKTON ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 3	02/18/2010
233	MASONIC AVE	GOLDEN GATE AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 1	08/10/2010
234	MASONIC AVE	GOLDEN GATE AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 1	08/10/2010
235	19TH AVE	JUNIPERO SERRA BLVD	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 11	09/03/2010
236	JONES ST	ELLIS ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	10/27/2010
237	CLARENDON AVE	PANORAMA DR	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 7	12/09/2010
238	CLARENDON AVE	PANORAMA DR	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 7	12/09/2010
239	19TH AVE	IRVING ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 4	02/08/2011
240	19TH AVE	IRVING ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	02/08/2011
241	WINSTON DR	19TH AVE	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	02/10/2011
242	PARK PRESIDIO BLVD	ANZA ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 1	02/10/2011
243	OCEAN AVE	19TH AVE	SOUTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	02/11/2011
244	TERRY A FRANCOIS BLVD	MISSION BAY BLVD	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	02/22/2011
245	TERRY A FRANCOIS BLVD	CHINA BASIN ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	02/22/2011
246	TERRY A FRANCOIS BLVD	SOUTH ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	02/22/2011
247	3RD ST	STEVENSON ST	SOUTH WEST CORNER, NORTHBOUND TRAFFIC	DISTRICT 6	05/18/2011
248	SUNSET BLVD	MORAGA ST	CENTER ISLAND, S LINE, EASTBOUND	DISTRICT 4	08/10/2011

Table 1: Candidate Locations for Street Name Sign Replacements

#	Street 1	Street 2	SIGN LOCATION	District	Install Date
249	SUNSET BLVD	MORAGA ST	CENTER ISLAND, N LINE, WESTBOUND	DISTRICT 4	08/10/2011
250	11TH ST	DIVISION ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 9	08/31/2011
251	HYDE ST	TURK ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	09/09/2011
252	HAYES ST	VAN NESS AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 5	11/01/2011
253	LAGUNA ST	BAY ST	SOUTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 2	01/27/2012
254	GENEVA AVE	MISSION ST	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 11	03/08/2012
255	CHANNEL WAY	3RD ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	04/05/2012
256	CHANNEL WAY	4TH ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	04/05/2012
257	MISSION ROCK ST	3RD ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	04/05/2012
258	CHINA BASIN ST	3RD ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	04/05/2012
259	3RD ST	MISSION ROCK ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	04/05/2012
260	CHANNEL WAY	3RD ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 6	04/06/2012
261	3RD ST	CHANNEL ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	04/06/2012
262	3RD ST	CHINA BASIN ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	04/10/2012
263	PARK PRESIDIO BLVD	CALIFORNIA ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 1	05/16/2012
264	PARK PRESIDIO BLVD	CALIFORNIA ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 1	05/16/2012
265	CHURCH ST	17TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 8	10/17/2012
266	18TH ST	DOLORES ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 8	01/09/2013
267	ALEMANY BLVD	SAN JOSE AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 11	01/09/2013



Table 2: Candidate Locations for Pedestrian Crossing Ahead Sign Replacements

#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
1	HERMANN ST	WEBSTER ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 8	12/13/2000
2	HERMANN ST	BUCHANAN ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 8	12/13/2000
3	22ND ST	POTRERO AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 9	02/03/2001
4	ARGUELLO BLVD	GOLDEN GATE AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 1	03/13/2001
5	ARGUELLO BLVD	GOLDEN GATE AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 1	03/13/2001
6	SCOTT ST	WASHINGTON ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 2	04/25/2001
7	POST ST	GOUGH ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 5	05/10/2001
8	GOLDEN GATE AVE	ROSELYN TER	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 1	05/10/2001
9	GOLDEN GATE AVE	ROSELYN TER	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 1	07/06/2001
10	DOLORES ST	18TH ST	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 8	07/17/2001
11	PARNASSUS AVE	WILLARD ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	07/18/2001
12	SAN JOSE AVE	SANTA YNEZ AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 11	08/21/2001
13	SANTA ANA AVE	DARIEN WAY	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	09/05/2001
14	ARGUELLO BLVD	MCALLISTER ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 1	09/06/2001
15	BRANNAN ST	DELANCEY ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 6	11/06/2001
16	BRANNAN ST	DELANCEY ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	11/06/2001
17	SAN JOSE AVE	SAN JUAN AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 11	12/21/2001
18	SAN JOSE AVE	HAVELOCK ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	12/21/2001
19	TERRY A FRANCOIS BLVD	3RD ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 6	01/03/2002
20	SAN JOSE AVE	BADEN ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 11	01/23/2002
21	SAN JOSE AVE	BADEN ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 11	01/23/2002
22	TERESITA BLVD	STILLINGS AVE	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 7	01/24/2002
23	TERESITA BLVD	STILLINGS AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	01/24/2002
24	BATTERY ST	UNION ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 3	02/08/2002
25	BATTERY ST	GREEN ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 3	02/08/2002
26	BATTERY ST	GREENWICH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 3	02/08/2002
27	GUERRERO ST	21ST ST	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 8	03/09/2002
28	FREMONT ST	HOWARD ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 6	03/18/2002
29	GENEVA AVE	BROOKDALE AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 11	04/05/2002
30	GENEVA AVE	LINDA VISTA STPS	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 11	04/05/2002
31	DIVISADERO ST	HAYES ST	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 5	05/09/2002
32	DIVISADERO ST	HAYES ST	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 5	05/09/2002
33	BUCHANAN ST	NORTH POINT ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 2	05/14/2002
34	BUCHANAN ST	NORTH POINT ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 2	05/14/2002
35	GENEVA AVE	LONDON ST	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 11	05/30/2002
36	DIAMOND HEIGHTS BLVD	DUNCAN ST	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 8	05/30/2002
37	DIAMOND HEIGHTS BLVD	DUNCAN ST	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 8	05/30/2002
38	DIAMOND HEIGHTS BLVD	DUNCAN ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 8	05/30/2002
39	GENEVA AVE	LONDON ST	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 11	05/30/2002
40	COLUMBUS AVE	LOMBARD ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 3	05/31/2002
41	SCOTT ST	GROVE ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	06/11/2002
42	SCOTT ST	GROVE ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	06/11/2002
43	MISSION ST	SENECA AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 11	06/26/2002
44	TRANSVERSE DR (GGP)	JOHN F KENNEDY DR (GGP)	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 1	07/01/2002
45	TRANSVERSE DR (GGP)	JOHN F KENNEDY DR (GGP)	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 1	07/01/2002
46	TRANSVERSE DR (GGP)	JOHN F KENNEDY DR (GGP)	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 1	07/01/2002
47	TRANSVERSE DR (GGP)	JOHN F KENNEDY DR (GGP)	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 1	07/01/2002
48	BATTERY ST	GREENWICH ST	NORTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 3	07/10/2002
49	SCOTT ST	LLOYD ST	NORTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 8	07/10/2002
50	15TH AVE	LAKE ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 1	07/12/2002
51	15TH AVE	LAKE ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 1	07/12/2002
52	BATTERY ST	UNION ST	NORTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 3	07/18/2002
53	BATTERY ST	GREEN ST	NORTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 3	07/23/2002
54	HERMANN ST	BUCHANAN ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 8	10/25/2002
55	BOSWORTH ST	HAMERTON AVE	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 8	11/07/2002
56	BOSWORTH ST	HAMERTON AVE	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 8	11/18/2002
57	GENEVA AVE	LINDA VISTA STPS	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 11	11/22/2002
58	PHELAN AVE	OCEAN AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	11/27/2002
59	PHELAN AVE	OCEAN AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	11/29/2002
60	TERRY A FRANCOIS BLVD	3RD ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 6	01/03/2003
61	SLOAT BLVD	47TH AVE	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 7	01/13/2003
62	SLOAT BLVD	47TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	01/13/2003
63	CALIFORNIA ST	STOCKTON ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 3	01/14/2003
64	CALIFORNIA ST	STOCKTON ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 3	01/14/2003
65	CALIFORNIA ST	STOCKTON ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 3	01/14/2003
66	CALIFORNIA ST	GRANT AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 3	01/14/2003
67	MISSION ST	SENECA AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	01/22/2003

Table 2: Candidate Locations for Pedestrian Crossing Ahead Sign Replacements



#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
68	MISSION ST	FARRAGUT AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 11	02/01/2003
69	MISSION ST	ITALY AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 11	02/01/2003
70	MISSION ST	LAWRENCE AVE	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 11	02/05/2003
71	MISSION ST	LAURA ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 11	02/06/2003
72	CAMBRIDGE ST	STONEFORD AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 9	02/10/2003
73	MISSION ST	LAWRENCE AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	02/10/2003
74	CAMBRIDGE ST	GLADSTONE DR	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 9	02/10/2003
75	DOLORES ST	25TH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 8	02/14/2003
76	DOLORES ST	CLIPPER ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 8	02/14/2003
77	MISSION ST	LAWRENCE AVE	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 11	02/18/2003
78	24TH ST	UTAH ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	02/19/2003
79	24TH ST	POTRERO AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 9	02/19/2003
80	6TH ST	MINNA ST	WEST SIDE	DISTRICT 6	05/20/2003
81	6TH ST	MINNA ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 6	05/20/2003
82	6TH ST	MISSION ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	05/21/2003
83	CLAYTON ST	PAGE ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	08/06/2003
84	PAGE ST	CLAYTON ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	08/06/2003
85	CLAYTON ST	PAGE ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	08/06/2003
86	ASHBURY ST	PAGE ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	08/06/2003
87	PAGE ST	ASHBURY ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	08/06/2003
88	ASHBURY ST	PAGE ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	08/06/2003
89	PAGE ST	SCOTT ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 5	08/07/2003
90	WALLER ST	STEINER ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 5	08/07/2003
91	SCOTT ST	PAGE ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	08/07/2003
92	STEINER ST	WALLER ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	08/07/2003
93	SCOTT ST	PAGE ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	08/07/2003
94	STEINER ST	WALLER ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	08/07/2003
95	PAGE ST	SCOTT ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	08/07/2003
96	WALLER ST	STEINER ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	08/07/2003
97	FREDERICK ST	STANYAN ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 5	08/27/2003
98	HARNEY WAY	JAMESTOWN AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	09/18/2003
99	STANYAN ST	RIVOLI ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 5	09/23/2003
100	MISSION ST	FLORENTINE AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 11	09/24/2003
101	MISSION ST	OTTAWA AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 11	09/24/2003
102	MISSION ST	FLORENTINE AVE	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 11	09/25/2003
103	HERMANN ST	WEBSTER ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 8	10/14/2003
104	SANSOME ST	UNION ST	WEST SIDE, NORTHBOUND TRAFFIC	DISTRICT 3	11/13/2003
105	SANSOME ST	UNION ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 3	11/13/2003
106	GOUGH ST	CLAY ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 2	11/18/2003
107	HUNTERS POINT BLVD	INNES AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	11/18/2003
108	MARKET ST	STEUART ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 6	01/15/2004
109	MONTEREY BLVD	PLYMOUTH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 7	01/22/2004
110	GOUGH ST	CLAY ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 2	01/23/2004
111	TERESITA BLVD	STILLINGS AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	01/30/2004
112	LAWTON ST	8TH AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	02/05/2004
113	TERESITA BLVD	BELLA VISTA WAY	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	02/05/2004
114	LAWTON ST	8TH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	02/05/2004
115	DIAMOND HEIGHTS BLVD	ARBOR ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 8	02/10/2004
116	TERESITA BLVD	BELLA VISTA WAY	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	02/11/2004
117	HOLLOWAY AVE	VARELA AVE	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 7	02/12/2004
118	HOLLOWAY AVE	VARELA AVE	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 7	02/12/2004
119	ELK ST	CHENERY ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 8	02/13/2004
120	TERESITA BLVD	LOS PALMOS DR	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	03/02/2004
121	TERESITA BLVD	MARIETTA DR	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	03/03/2004
122	TERESITA BLVD	BELLA VISTA WAY	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 7	03/09/2004
123	DIVISION ST	VERMONT ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	03/19/2004
124	DIVISION ST	9TH ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	03/22/2004
125	DIVISION ST	9TH ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	03/23/2004
126	SACRAMENTO ST	OCTAVIA ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	03/25/2004
127	THE EMBARCADERO	GRANT AVE	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 3	04/05/2004
128	TAYLOR ST	PINE ST	WEST SIDE, NORTHBOUND TRAFFIC	DISTRICT 3	04/13/2004
129	6TH ST	STEVENSON ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	04/14/2004
130	ALEMANY BLVD	SAN JUAN AVE	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 11	04/15/2004
131	ALEMANY BLVD	SAN JUAN AVE	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 11	04/15/2004
132	6TH ST	STEVENSON ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	04/19/2004
133	15TH ST	JULIAN AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 9	04/29/2004
134	TAYLOR ST	PINE ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 3	04/30/2004

Table 2: Candidate Locations for Pedestrian Crossing Ahead Sign Replacements

#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
135	STANYAN ST	BEULAH ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	05/10/2004
136	STANYAN ST	BEULAH ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	05/11/2004
137	HYDE ST	LOMBARD ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 2	06/22/2004
138	BERNAL HEIGHTS BLVD	CARVER ST	EAST SIDE, WESTBOUND TRAFFIC	DISTRICT 9	07/08/2004
139	BERNAL HEIGHTS BLVD	CARVER ST	WEST SIDE, EASTBOUND TRAFFIC	DISTRICT 9	07/08/2004
140	BERNAL HEIGHTS BLVD	CARVER ST	EAST SIDE, WESTBOUND TRAFFIC	DISTRICT 9	07/08/2004
141	FOLSOM ST	RIPLEY ST	WEST SIDE, EASTBOUND TRAFFIC	DISTRICT 9	07/08/2004
142	BEACH ST	POLK ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	09/13/2004
143	19TH AVE	LINCOLN WAY	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	10/08/2004
144	19TH AVE	JUDAH ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 4	10/08/2004
145	WISCONSIN ST	25TH ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	10/20/2004
146	WISCONSIN ST	25TH ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	10/26/2004
147	JOHN F KENNEDY DR (GGP)	8TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	11/09/2004
148	JOHN F KENNEDY DR (GGP)	8TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	11/09/2004
149	16TH ST	OWENS ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 6	11/30/2004
150	16TH ST	OWENS ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	12/02/2004
151	JUDAH ST	FUNSTON AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 5	01/06/2005
152	WEST PORTAL AVE	VICENTE ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	01/07/2005
153	WEST PORTAL AVE	ULLOA ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	01/07/2005
154	SANTOS ST	BROOKDALE AVE	SOUTH WEST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	01/12/2005
155	SANTOS ST	BROOKDALE AVE	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	01/12/2005
156	MONTEREY BLVD	HAZELWOOD AVE	CENTER ISLAND, W LINE, EASTBOUND	DISTRICT 7	01/13/2005
157	MONTEREY BLVD	HAZELWOOD AVE	NORTH SIDE	DISTRICT 7	01/13/2005
158	MONTEREY BLVD	JOOST AVE	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 7	01/13/2005
159	WEST PORTAL AVE	VICENTE ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	01/13/2005
160	CHENERY ST	CASTRO ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 8	01/24/2005
161	PARNASSUS AVE	3RD AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	01/25/2005
162	JOHN F KENNEDY DR (GGP)	8TH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 1	02/03/2005
163	JOHN F KENNEDY DR (GGP)	10TH AVE	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 1	02/03/2005
164	JOHN F KENNEDY DR (GGP)	10TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	02/07/2005
165	BRUSSELS ST	FELTON ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 9	02/07/2005
166	JOHN F KENNEDY DR (GGP)	10TH AVE	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 1	02/07/2005
167	HYDE ST	VALLEJO ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 3	02/14/2005
168	HYDE ST	VALLEJO ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 3	02/14/2005
169	OCEAN AVE	PERSIA AVE	SOUTH WEST CORNER	DISTRICT 11	02/22/2005
170	OCEAN AVE	PERSIA AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 11	02/22/2005
171	OCEAN AVE	PERSIA AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 11	02/22/2005
172	OCEAN AVE	MISSION ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 11	02/23/2005
173	FULTON ST	LOYOLA TER	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 5	03/02/2005
174	FULTON ST	COLE ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	03/02/2005
175	WHITNEY YOUNG CIR	PROGRESS ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	03/03/2005
176	WHITNEY YOUNG CIR	PROGRESS ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	03/03/2005
177	BALBOA ST	22ND AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 1	03/04/2005
178	BALBOA ST	22ND AVE	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 1	03/04/2005
179	STEVENSON ST	ECKER ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 6	03/23/2005
180	GILMAN AVE	HUNTERS POINT EXPY	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	04/04/2005
181	GILMAN AVE	HUNTERS POINT EXPY	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	04/04/2005
182	GILMAN AVE	HUNTERS POINT EXPY	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	04/04/2005
183	GILMAN AVE	HUNTERS POINT EXPY	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	04/12/2005
184	FULTON ST	OCTAVIA ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 5	04/26/2005
185	SALINAS AVE	GOULD ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	04/26/2005
186	LAGUNA ST	SACRAMENTO ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 2	05/12/2005
187	LAGUNA ST	CLAY ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 2	05/12/2005
188	SALINAS AVE	EXETER ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	05/16/2005
189	LAGUNA ST	CLAY ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 2	06/07/2005
190	CALIFORNIA ST	COMMONWEALTH AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 2	06/10/2005
191	CALIFORNIA ST	COMMONWEALTH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	06/10/2005
192	STANYAN ST	PAGE ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	06/17/2005
193	STANYAN ST	PAGE ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	06/17/2005
194	16TH ST	SHOTWELL ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 9	08/31/2005
195	16TH ST	SHOTWELL ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 9	08/31/2005
196	FULTON ST	STANYAN ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 1	09/01/2005
197	FULTON ST	STANYAN ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	09/01/2005
198	TARAVAL ST	16TH AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	09/01/2005
199	JAMESTOWN AVE	HARNEY WAY	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 10	10/31/2005
200	WILLIAMS AVE	MENDELL ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	10/31/2005
201	WILLIAMS AVE	MENDELL ST	SOUTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	10/31/2005

Table 2: Candidate Locations for Pedestrian Crossing Ahead Sign Replacements



#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
202	JAMESTOWN AVE	HARNEY WAY	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	11/02/2005
203	JAMESTOWN AVE	HARNEY WAY	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 10	11/02/2005
204	JAMESTOWN AVE	HARNEY WAY	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 10	11/05/2005
205	2ND ST	STILLMAN ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 6	12/03/2005
206	STEVENSON ST	ECKER ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	12/03/2005
207	2ND ST	BRYANT ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	12/03/2005
208	2ND ST	BRYANT ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	12/03/2005
209	STEVENSON ST	ECKER ST	NORTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 6	12/03/2005
210	2ND ST	BRYANT ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 6	12/03/2005
211	2ND ST	BRYANT ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 6	12/03/2005
212	2ND ST	STILLMAN ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 6	12/03/2005
213	MCALLISTER ST	LAGUNA ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 5	12/27/2005
214	HARRISON ST	14TH ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 9	12/27/2005
215	LAGUNA ST	FRANCISCO ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 2	12/27/2005
216	LAGUNA ST	FRANCISCO ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 2	12/27/2005
217	MONTEREY BLVD	DETROIT ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	12/28/2005
218	MONTEREY BLVD	ACADIA ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	12/28/2005
219	MONTEREY BLVD	DETROIT ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	12/28/2005
220	MONTEREY BLVD	DETROIT ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 7	12/28/2005
221	STATES ST	CASTRO ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 8	12/28/2005
222	CLARENDON AVE	OLYMPIA WAY	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 7	12/29/2005
223	FULTON ST	2ND AVE	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 1	12/29/2005
224	FULTON ST	2ND AVE	CENTER ISLAND, EASTBOUND TRAFFIC	DISTRICT 1	12/29/2005
225	HARRISON ST	14TH ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 9	12/29/2005
226	CLARENDON AVE	OLYMPIA WAY	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 7	12/29/2005
227	CLARENDON AVE	OLYMPIA WAY	CENTER ISLAND, WESTBOUND TRAFFIC	DISTRICT 7	12/29/2005
228	FULTON ST	12TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	12/30/2005

Traffic Sign Upgrades FY 20

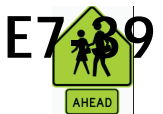


Table 3: Candidate Locations for Replacing School Ahead Crossing Signs

#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
1	MADRID ST	EXCELSIOR AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	01/04/2000
2	ONEIDA AVE	DELANO AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 11	01/05/2000
3	PARIS ST	AVALON AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 11	01/05/2000
4	ITALY AVE	ATHENS ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 11	01/13/2000
5	PERSIA AVE	DUBLIN ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 11	01/13/2000
6	NAPLES ST	FRANCE AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 11	01/13/2000
7	VIENNA ST	AMAZON AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	01/13/2000
8	CORDOVA ST	MUNICH ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 11	01/14/2000
9	NAPLES ST	AMAZON AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	01/18/2000
10	VALLEY ST	DOLORES ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 8	03/10/2000
11	MADRID ST	AVALON AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 11	03/28/2000
12	TEDDY AVE	DELTA ST	NORTH SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	09/13/2000
13	PHELAN AVE	JUDSON AVE	CENTER ISLAND, SOUTHBOUND TRAFFIC	DISTRICT 7	09/26/2000
14	PHELAN AVE	OCEAN AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	09/26/2000
15	JUNIPERO SERRA BLVD	WOODACRE DR	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 7	10/19/2000
16	OCEAN AVE	WANDA ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 11	11/09/2000
17	OCEAN AVE	OTSEGO AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 11	11/09/2000
18	OCEAN AVE	OTSEGO AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 11	11/09/2000
19	OCEAN AVE	OTSEGO AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 11	11/09/2000
20	POWELL ST	FILBERT ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 3	12/01/2000
21	FOLSOM ST	TOMPKINS AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 9	01/05/2001
22	NORTH POINT ST	LARKIN ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 2	01/14/2001
23	POLK ST	NORTH POINT ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 2	01/14/2001
24	VISITACION AVE	DELTA ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	01/23/2001
25	VISITACION AVE	PEABODY ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	01/23/2001
26	VISITACION AVE	DELTA ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	01/23/2001
27	VISITACION AVE	REY ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	01/23/2001
28	DELTA ST	ANKENY ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	02/07/2001
29	DELTA ST	WILDE AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 10	02/09/2001
30	PHELAN AVE	OCEAN AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	03/31/2001
31	BALBOA ST	9TH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 1	03/31/2001
32	PHELAN AVE	OCEAN AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	03/31/2001
33	BALBOA ST	9TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	03/31/2001
34	REVERE AVE	SELBY ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	04/19/2001
35	GUERRERO ST	26TH ST	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 8	06/09/2001
36	6TH AVE	JUDAH ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 5	07/10/2001
37	IRVING ST	5TH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 5	07/10/2001
38	7TH AVE	HUGO ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 5	07/10/2001
39	BALBOA ST	23RD AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 1	07/12/2001
40	25TH AVE	BALBOA ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 1	07/12/2001
41	BALBOA ST	25TH AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 1	07/12/2001
42	24TH AVE	BALBOA ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 1	07/12/2001
43	BALBOA ST	24TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 1	07/16/2001
44	JUDAH ST	7TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 5	07/18/2001
45	IRVING ST	7TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 5	07/18/2001
46	SYLVAN DR	OCEAN AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	07/25/2001
47	43RD AVE	IRVING ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 4	08/03/2001
48	VALENCIA ST	MCCOPPIN ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 6	08/07/2001
49	DUBOCE AVE	VALENCIA ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 8	08/07/2001
50	ARKANSAS ST	MARIPOSA ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 10	08/09/2001
51	MARIPOSA ST	CAROLINA ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	08/09/2001
52	MARIPOSA ST	CONNECTICUT ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	08/09/2001
53	KIRKHAM ST	43RD AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	08/13/2001
54	42ND AVE	IRVING ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	08/13/2001
55	CAROLINA ST	17TH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	08/14/2001
56	PLYMOUTH AVE	FARALLONES ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 11	08/21/2001
57	42ND AVE	JUDAH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	08/21/2001
58	FARALLONES ST	PLYMOUTH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 11	08/21/2001



Table 3: Candidate Locations for Replacing School Ahead Crossing Signs

#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
59	FARALLONES ST	PLYMOUTH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 11	08/21/2001
60	PLYMOUTH AVE	SADOWA ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	08/21/2001
61	BROAD ST	PLYMOUTH AVE	SOUTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 11	08/22/2001
62	BROAD ST	SAN JOSE AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 11	08/22/2001
63	43RD AVE	IRVING ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	08/24/2001
64	43RD AVE	JUDAH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	08/24/2001
65	42ND AVE	KIRKHAM ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 4	08/24/2001
66	KIRKHAM ST	41ST AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 4	08/24/2001
67	42ND AVE	IRVING ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 4	08/27/2001
68	25TH AVE	BALBOA ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 1	08/27/2001
69	TAYLOR ST	GREENWICH ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 3	08/30/2001
70	TAYLOR ST	FILBERT ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 3	08/30/2001
71	TAYLOR ST	GREENWICH ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 3	08/30/2001
72	TAYLOR ST	GREENWICH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 3	08/30/2001
73	BALBOA ST	23RD AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 1	09/05/2001
74	NORIEGA ST	38TH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 4	09/05/2001
75	NORIEGA ST	37TH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 4	09/05/2001
76	NORIEGA ST	40TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	09/05/2001
77	NORIEGA ST	38TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	09/06/2001
78	MIDDLEFIELD DR	GELLERT DR	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	09/18/2001
79	EUCALYPTUS DR	MIDDLEFIELD DR	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	09/18/2001
80	LAKE ST	2ND AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 2	10/04/2001
81	ARGUELLO BLVD	WASHINGTON ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 2	10/04/2001
82	MORSE ST	LOWELL ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 11	10/10/2001
83	LOWELL ST	MORSE ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 11	10/10/2001
84	WHIPPLE AVE	MISSION ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 11	10/10/2001
85	LOWELL ST	MORSE ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 11	10/10/2001
86	MISSION ST	WHIPPLE AVE	CENTER ISLAND, NORTHBOUND TRAFFIC	DISTRICT 11	10/10/2001
87	LOWELL ST	MISSION ST	SOUTH SIDE	DISTRICT 11	10/10/2001
88	JUNIPERO SERRA BLVD	ROSSMOOR DR	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	10/15/2001
89	JUNIPERO SERRA BLVD	ROSSMOOR DR	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	10/16/2001
90	LAWTON ST	31ST AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	10/25/2001
91	30TH AVE	LAWTON ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 4	10/25/2001
92	LAWTON ST	29TH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 4	10/25/2001
93	FLORIDA ST	18TH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 9	10/26/2001
94	SCOTT ST	JACKSON ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 2	12/20/2001
95	BACON ST	BRUSSELS ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 9	02/05/2002
96	GOUGH ST	FELL ST	NORTH EAST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	02/20/2002
97	GOUGH ST	FELL ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	02/20/2002
98	LA SALLE AVE	OSCEOLA LN	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	02/21/2002
99	LA SALLE AVE	OSCEOLA LN	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/21/2002
100	FRANKLIN ST	OAK ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	02/25/2002
101	24TH ST	UTAH ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	02/27/2002
102	24TH ST	SAN BRUNO AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	02/27/2002
103	24TH ST	UTAH ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	02/27/2002
104	CAROLINA ST	CORAL RD	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	06/05/2002
105	CAROLINA ST	CORAL RD	EAST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	06/05/2002
106	CAROLINA ST	CORAL RD	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	06/05/2002
107	CAROLINA ST	CORAL RD	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	06/05/2002
108	ORTEGA ST	39TH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	06/26/2002
109	ORTEGA ST	39TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	08/06/2002
110	WARREN DR	OAK PARK DR	SOUTH SIDE, WESTBOUND TRAFFIC	DISTRICT 7	08/14/2002
111	WARREN DR	OAK PARK DR	NORTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	08/14/2002
112	PHELAN AVE	OCEAN AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	11/27/2002
113	PHELAN AVE	OCEAN AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	11/27/2002
114	PHELAN AVE	OCEAN AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	11/27/2002
115	PHELAN AVE	OCEAN AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	11/27/2002
116	38TH AVE	RIVERA ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 4	02/11/2003

Traffic Sign Upgrades FY 20

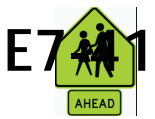


Table 3: Candidate Locations for Replacing School Ahead Crossing Signs

#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
117	RIVERA ST	38TH AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 4	02/11/2003
118	RIVERA ST	38TH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	02/11/2003
119	POTRERO AVE	25TH ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	02/26/2003
120	POTRERO AVE	25TH ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	02/26/2003
121	RIVERA ST	37TH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	05/06/2003
122	37TH AVE	RIVERA ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 4	05/06/2003
123	STANYAN ST	GRATTAN ST	SOUTH WEST CORNER	DISTRICT 5	09/12/2003
124	STANYAN ST	RIVOLI ST	NORTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	09/19/2003
125	COLE ST	ALMA ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	09/22/2003
126	STANYAN ST	RIVOLI ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 5	09/23/2003
127	CLEMENT ST	15TH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 1	01/05/2004
128	CLEMENT ST	15TH AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 1	01/05/2004
129	VICENTE ST	41ST AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	01/24/2004
130	SEQUOIA WAY	TERESITA BLVD	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	01/24/2004
131	24TH ST	FLORIDA ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 9	01/28/2004
132	15TH ST	CAPP ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 9	01/28/2004
133	TERESITA BLVD	SEQUOIA WAY	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	01/30/2004
134	TERESITA BLVD	SEQUOIA WAY	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	01/30/2004
135	18TH ST	CAROLINA ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	01/30/2004
136	18TH ST	CAROLINA ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	02/02/2004
137	TERESITA BLVD	REPOSA WAY	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	03/02/2004
138	TERESITA BLVD	REPOSA WAY	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	03/02/2004
139	TERESITA BLVD	SEQUOIA WAY	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	03/03/2004
140	TERESITA BLVD	REPOSA WAY	WEST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	03/03/2004
141	MIDDLE POINT RD	WEST POINT RD	WEST SIDE, NORTHBOUND TRAFFIC	DISTRICT 10	03/25/2004
142	MIDDLE POINT RD	WEST POINT RD	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	03/25/2004
143	HARBOR RD	INGALLS ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	03/26/2004
144	INGALLS ST	HARBOR RD	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 10	03/26/2004
145	INNES AVE	HAWES ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	03/26/2004
146	CHERRY ST	SACRAMENTO ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 2	04/08/2004
147	SACRAMENTO ST	MAPLE ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 2	04/08/2004
148	CHERRY ST	WASHINGTON ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 2	04/08/2004
149	CLAY ST	MAPLE ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 2	04/08/2004
150	CHENERY ST	LIPPARD AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 8	04/19/2004
151	CHENERY ST	LIPPARD AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 8	04/19/2004
152	PARADISE AVE	BURNSIDE AVE	SOUTH WEST CORNER, NORTHBOUND TRAFFIC	DISTRICT 8	04/20/2004
153	CHENERY ST	BURNSIDE AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 8	04/23/2004
154	CHENERY ST	LIPPARD AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 8	04/24/2004
155	OCEAN AVE	21ST AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	04/28/2004
156	OCEAN AVE	21ST AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	04/28/2004
157	MELBA AVE	OCEAN AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	04/30/2004
158	BUCHANAN ST	VALLEJO ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 2	04/30/2004
159	FILLMORE ST	BROADWAY	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 2	04/30/2004
160	BUCHANAN ST	PACIFIC AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 2	04/30/2004
161	FILLMORE ST	PACIFIC AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 2	04/30/2004
162	CHENERY ST	BURNSIDE AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 8	05/03/2004
163	SUNNYDALE AVE	SANTOS ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	05/13/2004
164	SUNNYDALE AVE	TOMASO CT	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	05/13/2004
165	39TH AVE	KIRKHAM ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	05/17/2004
166	CAYUGA AVE	ONEIDA AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 11	05/24/2004
167	ALLSTON WAY	ULLOA ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	05/27/2004
168	LENOX WAY	TARAVAL ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	05/27/2004
169	GRANVILLE WAY	ULLOA ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	05/27/2004
170	TARAVAL ST	WAWONA ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 7	05/27/2004
171	KIRKHAM ST	38TH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 4	08/16/2004
172	KIRKHAM ST	40TH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	08/16/2004
173	39TH AVE	KIRKHAM ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 4	08/17/2004
174	39TH AVE	KIRKHAM ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 4	08/17/2004

Table 3: Candidate Locations for Replacing School Ahead Crossing Signs



#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
175	19TH ST	DIAMOND ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 8	08/19/2004
176	19TH ST	CASTRO ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 8	08/19/2004
177	LAWTON ST	40TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	08/19/2004
178	40TH AVE	LAWTON ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 4	08/19/2004
179	DIAMOND ST	18TH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 8	08/19/2004
180	DIAMOND ST	18TH ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 8	08/19/2004
181	40TH AVE	KIRKHAM ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	08/19/2004
182	40TH AVE	JUDAH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	08/19/2004
183	COLLINGWOOD ST	19TH ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 8	08/19/2004
184	COLLINGWOOD ST	18TH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 8	08/19/2004
185	6TH AVE	CALIFORNIA ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 1	08/24/2004
186	ARKANSAS ST	17TH ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	10/04/2004
187	DE HARO ST	MARIPOSA ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	10/04/2004
188	18TH ST	DE HARO ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	10/04/2004
189	MARIPOSA ST	CAROLINA ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 10	10/04/2004
190	OCEAN AVE	DELANO AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 11	10/10/2004
191	OCEAN AVE	DELANO AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 11	10/12/2004
192	OCEAN AVE	OTSEGO AVE	NORTH EAST CORNER, EASTBOUND TRAFFIC	DISTRICT 11	10/12/2004
193	15TH AVE	CLEMENT ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 1	10/13/2004
194	25TH ST	WISCONSIN ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	10/26/2004
195	HAMILTON ST	MANSELL ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	10/29/2004
196	CASTRO ST	JERSEY ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 8	10/29/2004
197	WISCONSIN ST	CONNECTICUT ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 10	11/01/2004
198	DELTA ST	WILDE AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	11/01/2004
199	DELTA ST	WILDE AVE	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 10	11/01/2004
200	HAMILTON ST	MANSELL ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 10	11/01/2004
201	DELTA ST	HARKNESS AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 10	11/01/2004
202	WISCONSIN ST	23RD ST	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 10	11/01/2004
203	HARKNESS AVE	MILL ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	11/02/2004
204	DELTA ST	ANKENY ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 10	11/02/2004
205	DOLORES ST	DAY ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 8	11/02/2004
206	DOLORES ST	30TH ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 8	11/02/2004
207	WILDE AVE	RUTLAND ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	11/02/2004
208	19TH ST	WISCONSIN ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	11/03/2004
209	18TH ST	CONNECTICUT ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	11/03/2004
210	15TH AVE	CALIFORNIA ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 1	11/03/2004
211	HAIGHT ST	MASONIC AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 5	11/04/2004
212	HAIGHT ST	CENTRAL AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 5	11/04/2004
213	CONNECTICUT ST	WISCONSIN ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	11/05/2004
214	JULES AVE	GRAFTON AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	11/05/2004
215	ASHTON AVE	GRAFTON AVE	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 11	11/05/2004
216	PICO AVE	ASHTON AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 7	11/09/2004
217	LOWELL ST	BRUNSWICK ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 11	11/12/2004
218	DE MONTFORT AVE	FAXON AVE	NORTH SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	11/12/2004
219	ASHTON AVE	DE MONTFORT AVE	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	11/12/2004
220	19TH ST	CAROLINA ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	11/16/2004
221	CAROLINA ST	19TH ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 10	11/16/2004
222	19TH ST	WISCONSIN ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	11/16/2004
223	19TH ST	WISCONSIN ST	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 10	11/16/2004
224	MARIPOSA ST	CONNECTICUT ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 10	11/16/2004
225	19TH ST	CAROLINA ST	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 10	11/16/2004
226	GREEN ST	PIERCE ST	SOUTH SIDE, WESTBOUND TRAFFIC	DISTRICT 2	11/17/2004
227	MISSION ST	NAGLEE AVE	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 11	11/18/2004
228	GREEN ST	STEINER ST	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 2	11/18/2004
229	UPLAND DR	WESTGATE DR	NORTH WEST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	11/22/2004
230	SAN ALESO AVE	DARIEN WAY	SOUTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 7	11/22/2004
231	UPLAND DR	APTOS AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	11/23/2004
232	41ST AVE	NORIEGA ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	11/24/2004

Traffic Sign Upgrades FY 20



Table 3: Candidate Locations for Replacing School Ahead Crossing Signs

#	STREET 1	STREET 2	SIGN LOCATION	District	Install Date
233	ORTEGA ST	41ST AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	11/24/2004
234	SAN BENITO WAY	UPLAND DR	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	11/24/2004
235	41ST AVE	PACHECO ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 4	11/29/2004
236	NORIEGA ST	41ST AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	11/29/2004
237	NORIEGA ST	41ST AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 4	11/29/2004
238	NORIEGA ST	41ST AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	11/29/2004
239	NORIEGA ST	41ST AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 4	11/29/2004
240	ORTEGA ST	38TH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	11/30/2004
241	41ST AVE	PACHECO ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 4	12/01/2004
242	ORTEGA ST	37TH AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 4	12/01/2004
243	QUINTARA ST	41ST AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 4	12/02/2004
244	38TH AVE	NORIEGA ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 4	12/02/2004
245	NORIEGA ST	38TH AVE	SOUTH WEST CORNER, EASTBOUND TRAFFIC	DISTRICT 4	12/02/2004
246	NORIEGA ST	38TH AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 4	12/02/2004
247	UPLAND DR	SAN ALESO AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	12/06/2004
248	UPLAND DR	SAN ALESO AVE	NORTH EAST CORNER, WESTBOUND TRAFFIC	DISTRICT 7	12/06/2004
249	FELL ST	FILLMORE ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 5	12/07/2004
250	SHRADER ST	ALMA ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	12/09/2004
251	SHRADER ST	ALMA ST	SOUTH EAST CORNER, NORTHBOUND TRAFFIC	DISTRICT 5	12/09/2004
252	COLE ST	ALMA ST	NORTH WEST CORNER, SOUTHBOUND TRAFFIC	DISTRICT 5	12/10/2004
253	STANYAN ST	GRATTAN ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 5	12/10/2004
254	12TH AVE	KIRKHAM ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	12/13/2004
255	FUNSTON AVE	KIRKHAM ST	WEST SIDE, SOUTHBOUND TRAFFIC	DISTRICT 7	12/13/2004
256	LURLINE ST	FUNSTON AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	12/13/2004
257	LAWTON ST	12TH AVE	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 7	12/15/2004
258	LAWTON ST	11TH AVE	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 7	12/15/2004
259	12TH AVE	LAWTON ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 7	12/15/2004
260	8TH AVE	CLEMENT ST	EAST SIDE, NORTHBOUND TRAFFIC	DISTRICT 1	12/16/2004
261	WASHINGTON ST	BAKER ST	NORTH SIDE, WESTBOUND TRAFFIC	DISTRICT 2	12/22/2004
262	WASHINGTON ST	BAKER ST	SOUTH SIDE, EASTBOUND TRAFFIC	DISTRICT 2	12/22/2004

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San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Hardware FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Prop K EP categories:	Signals and Signs
Current Prop K Request:	\$330,000
Supervisory District(s):	District 03, District 05, District 06, District 07, District 11

REQUEST

Brief Project Description

This project will replace Accessible Pedestrian Signals (APS) and Controller Cabinets that are nearing the end of their useful lives in several districts throughout San Francisco. Replacing traffic signal hardware will help to maintain SFMTA's assets in a state of good repair which is critical to ensuring a safe and reliable transportation system.

Detailed Scope, Project Benefits and Community Outreach

See attachments for detailed scope.

Project Location

Candidate Locations are provided as attachments.

Project Phase(s)

Construction (CON)

5YPP/STRATEGIC PLAN INFORMATION

Type of Project in the Prop K 5YPP/Prop AA Strategic Plan?	Named Project
Is requested amount greater than the amount programmed in the relevant 5YPP or Strategic Plan?	Less than or Equal to Programmed Amount
Prop K 5YPP Amount:	\$330,000

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Hardware FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

ENVIRONMENTAL CLEARANCE

Environmental Type:	Categorically Exempt
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PROJECT DELIVERY MILESTONES

Phase	Start		End	
	Quarter	Calendar Year	Quarter	Calendar Year
Planning/Conceptual Engineering				
Environmental Studies (PA&ED)	Jan-Feb-Mar	2020	Jan-Feb-Mar	2020
Right of Way				
Design Engineering (PS&E)				
Advertise Construction				
Start Construction (e.g. Award Contract)	Jan-Feb-Mar	2020		
Operations				
Open for Use			Oct-Nov-Dec	2020
Project Completion (means last eligible expenditure)			Jan-Feb-Mar	2021

SCHEDULE DETAILS

At the time of this allocation request submittal, the SFMTA acknowledges that environmental review has not been done but expects to request review in early 2020. Before installation of signal hardware in the field, SFMTA will request environmental clearance review under the California Environmental Quality Act (CEQA). SFMTA shall not proceed with the replacement/installation of signal hardware as part of this project until there has been complete compliance with CEQA. Prior to billing for any construction funds, if requested by the Transportation Authority, the SFMTA will provide documentation confirming that CEQA review has been completed.

There is no excavation needed as part of this project.

Due to the nature of this project, we do not anticipate that an outreach plan is needed.

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Hardware FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

FUNDING PLAN - FOR CURRENT REQUEST

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K: Signals and Signs	\$0	\$330,000	\$0	\$330,000
Phases in Current Request Total:	\$0	\$330,000	\$0	\$330,000

COST SUMMARY

Phase	Total Cost	Prop K - Current Request	Source of Cost Estimate
Planning/Conceptual Engineering	\$0	\$0	
Environmental Studies (PA&ED)	\$0	\$0	
Right of Way	\$0	\$0	
Design Engineering (PS&E)	\$0	\$0	
Construction (CON)	\$330,000	\$330,000	Recent charges by MTA Signal Shop
Operations	\$0	\$0	
Total:	\$330,000	\$330,000	

% Complete of Design:	0.0%
As of Date:	N/A
Expected Useful Life:	15 Years

TRAFFIC SIGNAL HARDWARE FY20

MAJOR LINE ITEM BUDGET

SUMMARY BY MAJOR LINE ITEM (BY AGENCY LABOR BY TASK)	
Budget Line Item	SFMTA
1. Construction - MTA Signal Shop (labor)	\$90,000
2. Construction - MTA Signal Shop (materials)	\$230,000
3. Construction Management/Support - MTA Engineering	\$10,000
TOTAL CONSTRUCTION PHASE	\$330,000

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Hardware FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

SFCTA RECOMMENDATION

Resolution Number:		Resolution Date:	
Total Prop K Requested:	\$330,000	Total Prop AA Requested:	\$0
Total Prop K Recommended:	\$330,000	Total Prop AA Recommended:	\$0

SGA Project Number:		Name:	Traffic Signal Hardware
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	12/31/2022
Phase:	Construction	Fundshare:	100.0

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
PROP K EP-133	\$82,500	\$247,500	\$0	\$0	\$0	\$330,000

Deliverables

- Quarterly progress reports shall provide the percent complete for each location and the percent complete for the overall project, in addition to all other requirements described in the Standard Grant Agreement (SGA); over the course of the project, quarterly progress reports should include 2-3 photos of work in progress and completed work.
- At the end of the first quarter of construction, provide the final list of locations for replacing accessible pedestrian signals and traffic signal hardware replacement.

Special Conditions

- The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

Notes

- The SFMTA acknowledges that environmental review has not been done. See Section 1.III. PROJECT DEFINITION AND SCOPE of the SGA.

Metric	Prop K	Prop AA
Actual Leveraging - Current Request	0.0%	No Prop AA
Actual Leveraging - This Project	0.0%	No Prop AA

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Hardware FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Current Prop K Request:	\$330,000
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1) The requested sales tax and/or vehicle registration fee revenues will be used to supplement and under no circumstance replace existing local revenues used for transportation purposes.

Initials of sponsor staff member verifying the above statement

JJ

CONTACT INFORMATION

	Project Manager	Grants Manager
Name:	Geraldine De Leon	Joel C Goldberg
Title:	Lead Engineer	Grants Procurement Manager
Phone:	(415) 701-4675	(415) 646-2520
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Traffic Signal Hardware FY 20 Background and Scope

The San Francisco Municipal Transportation Agency (SFMTA) is seeking \$330,000 in Proposition K Sales Tax funds toward the construction phase of the Traffic Signal Hardware FY 20 project.

This project is requesting allocation of funding from the Traffic Signal Hardware Programmatic Line EP-33 from the 2019 Proposition K 5-Year Prioritization Program. This programmatic line has a stated goal to replace signal hardware such as signal controllers, signal controller cabinets, and Accessible Pedestrian Signals (APS) that are nearing the end of their useful life or install new pedestrian countdown signals and APS where it is determined that the existing conduits and poles are in satisfactory condition to support the new signals.

The proposed scope of Traffic Signal Hardware FY 20 project is to replace the following signal equipment that are reaching the end of their useful life:

- Accessible Pedestrian Signals (APS)
- Traffic Signal Controller Cabinets

Proposed Locations:

Based on assessment by the MTA Signal Shop, candidate locations for replacing accessible pedestrian signals and traffic signal hardware replacement are provided as attachments in two tables.

Implementation

Due to the relatively small amount of design effort needed for this project, we are proposing to only have a construction phase for this project.

We are proposing allocation of funds from FY 20.

The SFMTA Sustainable Streets Division – Signal Shop will perform all the replacement/installation work for this project.

The SFMTA Sustainable Streets Division – Transportation Engineering will manage the scope of the project and issue work orders to the MTA Signal Shop.

There is no excavation needed as part of this project.

<u>Task</u>	<u>Force Account Work Performed By</u>
• Construction	SFMTA Sustainable Streets Division – Signal Shop
• Construction Support	SFMTA Sustainable Streets Division – Transportation Engineering

Location Selection Criteria

By approving the replacements of Accessible Pedestrian Signals (APS) and Controller Cabinets that are nearing the end of their useful life, we will help to maintain SFMTA’s assets in a state of good repair which is critical to ensuring a safe and reliable transportation system. If the APS and Controller Cabinets are not replaced in a timely manner, they may fail unexpectedly and create a safety hazard for visually impaired pedestrians who rely on functioning APS units to cross signalized intersections or roadway users including pedestrians who rely on functioning traffic signals to provide clear right of way assignment. It would also result in the SFMTA Signal Shop dealing with an emergency repair situation which takes away their time from their already full plate of maintenance duties and their work on high priority Vision Zero signal projects.

Preliminary assessment was conducted using the SFMTA Signal Shop inventory database to identify older signal hardware that were reaching the end of their useful life.

The proposed locations for APS replacement are attached.

For the controller cabinets, we anticipate being able to furnish and install cabinets at eight locations from the attached list of candidate locations from Fell and Oak Streets. Final locations will be determined at a later time after field reviews and consultation with the SFMTA Signal Shop.

Community Outreach

Due to the nature of this project, we do not anticipate that an outreach plan is needed.

The proposed candidate locations will be presented to the Transportation Authority Board meetings.

Traffic Signal Hardware FY 20

Table 1: Candidate Locations for Accessible Pedestrian Countdown Signals Replacements

	Street 1	Street 2	Street 3	Street 4	Supervisor District	Year Installed
1	2nd Street	King Street			6	2004
2	Embarcadero	Ferry Building			3	2007
3	Fremont Street	Mission Street			6	2007
4	Fulton Street	Larkin Street			6	2007
5	Grove Street	Polk Street			6	2005
6	Ocean Avenue	San Jose Avenue			11	2007
7	Portola Drive	Santa Clara Avenue	Vicente Street		7	2010
8	Pacific Avenue	Stockton Street			3	2007

Table 2: Candidate Locations for Controller Cabinet Replacements

	Street 1	Street	Supervisor District	Year Installed
1	Shrader Street	Oak Street	5	2002
2	Cole Street	Oak Street	5	2002
3	Clayton Street	Oak Street	5	2002
4	Ashbury Street	Oak Street	5	2002
5	Masonic Street	Oak Street	5	2002
6	Central Street	Oak Street	5	2002
7	Lyon Streets	Oak Street	5	2002
8	Baker Streets	Oak Street	5	2002
9	Broderick Street	Oak Street	5	2002
10	Divisadero Street	Oak Street	5	2002
11	Scott Street	Oak Street	5	2002
12	Pierce Street	Oak Street	5	2002
13	Steiner Street	Oak Street	5	2002
14	Fillmore Street	Oak Street	5	2002
15	Webster Street	Oak Street	5	2002
16	Buchanan Street	Oak Street	5	2002
17	Laguna Street	Oak Street	5	2004
18	Octavia Streets	Oak Street	5	2001
19	Gough Streets	Oak Street	5	2001
20	Franklin Street	Oak Street	5	2001
21	JFK Drive	Stanyan	5	2002
22	Shrader Street	Fell Street	5	2002
23	Cole Streets	Fell Street	5	2002
24	Clayton Street	Fell Street	5	2002
25	Ashbury Street	Fell Street	5	2002
26	Masonic Street	Fell Street	5	2002
27	Central Street	Fell Street	5	2002
28	Lyon Street	Fell Street	5	2002
29	Baker Street	Fell Street	5	2002
30	Broderick Street	Fell Street	5	2002
31	Divisadero Street	Fell Street	5	2002
32	Scott Street	Fell Street	5	2002
33	Pierce Street	Fell Street	5	2002
34	Steiner Street	Fell Street	5	2002
35	Fillmore Street	Fell Street	5	2002
36	Webster Street	Fell Street	5	2002
37	Buchanan Street	Fell Street	5	2002
38	Laguna Street	Fell Street	5	2002
39	Octavia Street	Fell Street	5	2002
40	Gough Street	Fell Street	5	2001
41	Franklin Street	Fell Street	5	2004

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Visibility Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Prop K EP categories:	Signals and Signs
Current Prop K Request:	\$330,000
Supervisory District(s):	District 01, District 02, District 03, District 04, District 06, District 07, District 09, District 10

REQUEST

Brief Project Description

This project will prioritize upgrading 8-inch signal heads to 12-inch signal heads for locations that are multi-lane, 30 MPH or higher arterials where signal visibility could be improved using existing signal poles and/or have a history of right angle collisions correctable by signal visibility improvements. The signal upgrades will improve safety at signalized intersections throughout the city.

Detailed Scope, Project Benefits and Community Outreach

SFMTA requests an allocation of \$330,000 to upgrade signalized intersections from 8-inch signal heads to 12-inch signal heads. 12-inch signal heads are now the industry standard according to the Manual on Uniform Traffic Control Devices (MUTCD). This project will prioritize 8-inch to 12-inch signal upgrades for locations that are multi-lane, 30 MPH or higher arterials where signal visibility could be improved using existing signal poles and/or a history of right angle collisions correctable by signal visibility improvements.

San Francisco's Vision Zero program is guided by core principles that reflect that traffic fatalities are preventable and that traffic safety interventions will mitigate the likelihood that a collision results in death. By approving the upgrade of traffic signal lights from 8-inch to 12-inch signal heads at multi-lane, 30 MPH or higher corridors and/or locations with a recurring history of right angle collisions, certain types of collisions may be reduced due to improved visibility of traffic signals. The traffic signal heads would be more visually prominent at a greater distance to motorists and may lead to a reduction of red-light runners. This project will improve safety and help the City reach its Vision Zero goal of eliminating all traffic fatalities and severe injuries. It will also maintain SFMTA's assets in a state of good repair which is critical to ensuring a safe and reliable transportation system.

Preliminary assessment for project locations was conducted by identifying locations with existing 8-inch traffic signals with speed limits of 30 MPH or more and using the SFMTA collision database to identify locations with a recent history of right angle collisions correctable by signal visibility improvements. This project will upgrade signals at approximately 14 or 15 intersections. The list of candidate locations for traffic signal visibility upgrades is included as an attachment.

The SFMTA Sustainable Streets Division – Signal Shop will perform all the replacement/installation work for this project. The SFMTA Sustainable Streets Division – Transportation Engineering will manage the scope of the project and issue work orders to the MTA Signal Shop.

Due to the nature of this project, we do not anticipate developing an outreach plan and no excavation is needed.

See attached for additional details.

Project Location

Candidate locations are provided as an attachment.

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Project Phase(s)
Construction (CON)

5YPP/STRATEGIC PLAN INFORMATION

Type of Project in the Prop K 5YPP/Prop AA Strategic Plan?	Named Project
Is requested amount greater than the amount programmed in the relevant 5YPP or Strategic Plan?	Less than or Equal to Programmed Amount
Prop K 5YPP Amount:	\$330,000

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Visibility Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

ENVIRONMENTAL CLEARANCE

Environmental Type:	Categorically Exempt
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PROJECT DELIVERY MILESTONES

Phase	Start		End	
	Quarter	Calendar Year	Quarter	Calendar Year
Planning/Conceptual Engineering				
Environmental Studies (PA&ED)	Jan-Feb-Mar	2020	Jan-Feb-Mar	2020
Right of Way				
Design Engineering (PS&E)				
Advertise Construction				
Start Construction (e.g. Award Contract)	Jan-Feb-Mar	2020		
Operations				
Open for Use			Oct-Nov-Dec	2020
Project Completion (means last eligible expenditure)			Jan-Feb-Mar	2021

SCHEDULE DETAILS

At the time of this allocation request submittal, the SFMTA acknowledges that environmental review has not been done but expects to request review in early 2020. Before installation of signal hardware in the field, SFMTA will request environmental clearance review under the California Environmental Quality Act (CEQA). SFMTA shall not proceed with the replacement/installation of signal hardware as part of this project until there has been complete compliance with CEQA. Prior to billing for any construction funds, if requested by the Transportation Authority, the SFMTA will provide documentation confirming that CEQA review has been completed.

There is no excavation needed as part of this project.

Due to the nature of this project, we do not anticipate that an outreach plan is needed.

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Visibility Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

FUNDING PLAN - FOR CURRENT REQUEST

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K: Signals and Signs	\$0	\$330,000	\$0	\$330,000
Phases in Current Request Total:	\$0	\$330,000	\$0	\$330,000

COST SUMMARY

Phase	Total Cost	Prop K - Current Request	Source of Cost Estimate
Planning/Conceptual Engineering	\$0	\$0	
Environmental Studies (PA&ED)	\$0	\$0	
Right of Way	\$0	\$0	
Design Engineering (PS&E)	\$0	\$0	
Construction (CON)	\$330,000	\$330,000	Based on recent SFMTA Signal Shop Cost Estimates
Operations	\$0	\$0	
Total:	\$330,000	\$330,000	

% Complete of Design:	0.0%
As of Date:	01/07/2020
Expected Useful Life:	15 Years

TRAFFIC SIGNAL VISIBILITY UPGRADES FY20

MAJOR LINE ITEM BUDGET

SUMMARY BY MAJOR LINE ITEM (BY AGENCY LABOR BY TASK)	
Budget Line Item	SFMTA
1. Construction - MTA Signal Shop (labor)	\$240,000
2. Construction - MTA Signal Shop (materials)	\$80,000
3. Construction Management/Support - MTA Engineering	\$10,000
TOTAL CONSTRUCTION PHASE	\$330,000

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Visibility Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

SFCTA RECOMMENDATION

Resolution Number:		Resolution Date:	
Total Prop K Requested:	\$330,000	Total Prop AA Requested:	\$0
Total Prop K Recommended:	\$330,000	Total Prop AA Recommended:	\$0

SGA Project Number:		Name:	Traffic Signal Visibility Upgrades - Phase 1
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	12/31/2021
Phase:	Construction	Fundshare:	100.0

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
PROP K EP-133	\$82,500	\$247,500	\$0	\$0	\$0	\$330,000

Deliverables

- Quarterly progress reports shall provide the percent complete for each location and the percent complete for the overall project, in addition to all other requirements described in the Standard Grant Agreement (SGA); over the course of the project, quarterly progress reports should include 2-3 photos of work in progress and completed work.
- With the first quarterly progress report (July 2020), provide the final list of locations to receive traffic signal visibility upgrades.

Special Conditions

- The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

Notes

- The SFMTA acknowledges that environmental review has not been done. See Section 1.III. PROJECT DEFINITION AND SCOPE of the SGA.

Metric	Prop K	Prop AA
Actual Leveraging - Current Request	0.0%	No Prop AA
Actual Leveraging - This Project	0.0%	No Prop AA

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Visibility Upgrades FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Current Prop K Request:	\$330,000
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1) The requested sales tax and/or vehicle registration fee revenues will be used to supplement and under no circumstance replace existing local revenues used for transportation purposes.

Initials of sponsor staff member verifying the above statement
JJ

CONTACT INFORMATION

	Project Manager	Grants Manager
Name:	Geraldine De Leon	Joel C Goldberg
Title:	Lead Engineer	Grants Procurement Manager
Phone:	(415) 701-4675	(415) 646-2520
Email:	geraldine.deleon@sfmta.com	joel.goldberg@sfmta.com

Traffic Signal Visibility Upgrades FY 20 Background and Scope

The San Francisco Municipal Transportation Agency (SFMTA) is seeking \$330,000 in Proposition K Sales Tax funds toward the construction phase of Traffic Signal Visibility Upgrades FY 20 project.

This project is requesting allocation of funding from the Traffic Signal Visibility Upgrades Programmatic Line EP-33 from the 2019 Proposition K 5-Year Prioritization Program. The Traffic Signal Visibility Upgrades Programmatic Line is a program to upgrade signalized intersections from 8-inch signal heads to 12-inch heads. 12-inch signal heads are now the industry standard according to the Manual on Uniform Traffic Control Devices (MUTCD).

This project will prioritize signalized locations that are multi-lane, 30 MPH or higher arterials where signal visibility could be improved using existing signal poles and/or have a history of right angle collisions correctable by signal visibility improvements. Candidate intersections are attached.

All installation work is to be done by the SFMTA Signal Shop.

Proposed Locations:

SFMTA staff conducted an assessment of recent collision history at signalized intersections in San Francisco and developed the attached list of candidate locations for traffic signal visibility upgrades.

Implementation

Due to the relatively small amount of design effort needed for this project, we are proposing to only have a construction phase for this project.

We are proposing allocation of funds from FY 20 at this time.

The SFMTA Sustainable Streets Division – Signal Shop will perform all the replacement/installation work for this project.

The SFMTA Sustainable Streets Division – Transportation Engineering will manage the scope of the project and issue work orders to the MTA Signal Shop.

There is no excavation needed as part of this project.

<u>Task</u>	<u>Force Account Work Performed By</u>
• Construction	SFMTA Sustainable Streets Division – Signal Shop
• Construction Support	SFMTA Sustainable Streets Division – Transportation Engineering

Location Selection Criteria

San Francisco’s Vision Zero program is guided by core principles that reflect that traffic fatalities are preventable and that traffic safety interventions will mitigate the likelihood that a collision results in death. By approving the upgrade of traffic signal lights from 8-inch to 12-inch signal heads at multi-lane, 30 MPH or higher corridors and/or locations with a recurring history of right angle collisions, certain types of collisions may be reduced due to improved visibility of traffic signals. The traffic signal heads would be more visually prominent at a greater distance to motorists and may lead to a reduction of red-light runners. This project will improve safety and help the City reach its Vision Zero goal of eliminating all traffic fatalities and severe injuries. It will also maintain SFMTA’s assets in a state of good repair which is critical to ensuring a safe and reliable transportation system.

Preliminary assessment for project locations was conducted by identifying locations with existing 8-inch traffic signals with speed limits of 30 MPH or more and using the SFMTA collision database to identify locations with a recent history of right angle collisions correctible by signal visibility improvements.

Community Outreach

Due to the nature of this project, we do not anticipate that an outreach plan is needed.

The proposed candidate locations will be presented to the Transportation Authority Board meetings.

Traffic Signal Visibility Upgrades FY20
 Table 1: Candidate Locations for Traffic Signal Visibility
 Upgrades (in priority order)

	Intersection	Vision Zero High Injury Network	Supervisor District
1	Bush/Divisadero	Y	2
2	25th Ave/Geary	Y	1
3	19th Ave/Sloat	Y	4,7
4	Mission/New Montgomery	Y	6
5	3rd/Evans + Evans/Phelps	Y	10
6	Polk/Hayes	Y	6
7	Kearny/Post	Y	3
8	Kearny/Pine	Y	3
9	Geary/29th	Y	1
10	3rd St/Fairfax	Y	10
11	Beach/Powell	Y	3
12	Post/Taylor	Y	3
13	3rd St/Mission Bay North/South	-	6
14	23rd St/Mission	Y	9
15	Ellis/Leavenworth	Y	6
16	Cesar Chavez/Guerrero	Y	8,9
17	Geary/Hyde	Y	6
18	Post/Hyde	Y	3,6
19	Jones/O'Farrell	Y	6
20	Pine/Octavia	Y	2, 5
21	Ellis/Hyde	Y	6
22	Evans/Mendell	Y	10
23	Post/Scott	Y	5
24	10th St/Division/Potrero/Brannan	Y	6, 10
25	Eddy/Larkin	Y	6
26	California/Divisadero	Y	2
27	California/Kearny	Y	3
28	13th St/Folsom	Y	6,9
29	25th Ave/Cabrillo	-	1
30	3rd St/King	Y	6
31	Webster/Hayes	Y	5
32	Bryant/Embarcadero	Y	6
33	25th Ave/Lincoln	-	1,4
34	Alemany/Santa Rosa	Y	11
35	Market/Portola/Corbett	-	8
36	Alemany/Ottawa/Huron	Y	11
37	Geneva/Madrid	-	11
38	37th Ave/Lincoln	-	1,4
39	Portola/Burnett	-	8
40	Portola/Vicente	-	7
41	Alemany/Lyell	Y	11
42	Portola/Glenview	-	8
43	Kezar/MLK	-	5
44	Lincoln/5th Ave	Y	5
45	Divisadero/Eddy	Y	5
46	45th Ave /Sloat	Y	4,7
47	36th Ave/Lincoln	-	1,4
48	20th Ave/Lincoln	Y	1,4

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Upgrade Contract 36
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Prop K EP categories:	Signals and Signs
Current Prop K Request:	\$600,000
Supervisory District(s):	District 01, District 02, District 03, District 05, District 06, District 07, District 08, District 09, District 10

REQUEST

Brief Project Description

This request will fund the design phase of traffic-signal related upgrades at 19 locations across the City. Upgrades will include new pedestrian signals, accessible pedestrian signals, higher-visibility traffic signals, new curb ramps where currently missing, and replacement of old signal infrastructure. Fifteen of the intersections are located on the Vision Zero High Injury Network, which encompasses the pedestrian, bicycle, and vehicle high injury corridors. These signal upgrades will improve accessibility and safety for all.

Detailed Scope, Project Benefits and Community Outreach

See attached.

Project Location

19 intersections spread throughout the City of San Francisco (see attached list and map)

Project Phase(s)

Design Engineering (PS&E)

5YPP/STRATEGIC PLAN INFORMATION

Type of Project in the Prop K 5YPP/Prop AA Strategic Plan?	Named Project
Is requested amount greater than the amount programmed in the relevant 5YPP or Strategic Plan?	Less than or Equal to Programmed Amount
Prop K 5YPP Amount:	\$600,000

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Upgrade Contract 36
Grant Recipient:	San Francisco Municipal Transportation Agency

ENVIRONMENTAL CLEARANCE

Environmental Type:	Categorically Exempt
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PROJECT DELIVERY MILESTONES

Phase	Start		End	
	Quarter	Calendar Year	Quarter	Calendar Year
Planning/Conceptual Engineering				
Environmental Studies (PA&ED)	Jul-Aug-Sep	2020	Oct-Nov-Dec	2020
Right of Way				
Design Engineering (PS&E)	Apr-May-Jun	2020	Apr-May-Jun	2021
Advertise Construction	Jul-Aug-Sep	2021		
Start Construction (e.g. Award Contract)	Jan-Feb-Mar	2022		
Operations				
Open for Use			Apr-May-Jun	2023
Project Completion (means last eligible expenditure)			Apr-May-Jun	2024

SCHEDULE DETAILS

At the time of this allocation request submittal, the SFMTA acknowledges that environmental review has not been done. Prior to approval of the project, SFMTA will conduct review under the California Environmental Protection Act (CEQA). SFMTA shall not proceed with the approval of the project until there has been complete compliance with CEQA. Prior to billing for any construction funds, if requested by the Transportation Authority, the SFMTA will provide the Authority with documentation confirming that CEQA review has been completed.

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Upgrade Contract 36
Grant Recipient:	San Francisco Municipal Transportation Agency

FUNDING PLAN - FOR CURRENT REQUEST

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K: Signals and Signs	\$0	\$600,000	\$0	\$600,000
Phases in Current Request Total:	\$0	\$600,000	\$0	\$600,000

FUNDING PLAN - ENTIRE PROJECT (ALL PHASES)

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K	\$0	\$5,846,000	\$0	\$5,846,000
GENERAL FUND POPULATION BASED STREETS	\$0	\$2,554,000	\$0	\$2,554,000
Funding Plan for Entire Project Total:	\$0	\$8,400,000	\$0	\$8,400,000

COST SUMMARY

Phase	Total Cost	Prop K - Current Request	Source of Cost Estimate
Planning/Conceptual Engineering	\$0	\$0	
Environmental Studies (PA&ED)	\$0	\$0	
Right of Way	\$0	\$0	
Design Engineering (PS&E)	\$600,000	\$600,000	Engineers' Estimate based on recent signal projects
Construction (CON)	\$7,800,000	\$0	Engineers' Estimate based on recent signal projects
Operations	\$0	\$0	
Total:	\$8,400,000	\$600,000	

% Complete of Design:	0.0%
As of Date:	12/31/2019
Expected Useful Life:	15 Years

TRAFFIC SIGNAL UPGRADE CONTRACT 36

MAJOR LINE ITEM BUDGET

SUMMARY BY MAJOR LINE ITEM - DESIGN		
Budget Line Item	Totals	% of phase
1. Total Labor	\$ 493,000	82%
2. Other Direct Costs *	\$ 52,000	9%
3. Contingency	\$ 55,000	9%
TOTAL PHASE	\$ 600,000	

* City Attorney (\$500) and PG&E Electrical Service Point Costs

TOTAL LABOR COST BY AGENCY	
SFMTA	\$ 247,000
SFPW	\$ 246,000
TOTAL	\$ 493,000

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Upgrade Contract 36
Grant Recipient:	San Francisco Municipal Transportation Agency

SFCTA RECOMMENDATION

Resolution Number:		Resolution Date:	
Total Prop K Requested:	\$600,000	Total Prop AA Requested:	\$0
Total Prop K Recommended:	\$600,000	Total Prop AA Recommended:	\$0

SGA Project Number:		Name:	Traffic Signal Upgrade Contract 36
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	12/31/2021
Phase:	Design Engineering	Fundshare:	100.0

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
PROP K EP-133	\$60,000	\$540,000	\$0	\$0	\$0	\$600,000

Deliverables

1. Quarterly progress reports shall provide the percent complete for each location and the percent complete for the overall project, in addition to all other requirements described in the Standard Grant Agreement (SGA).

Special Conditions

1. The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

Notes

1. The SFMTA acknowledges that environmental review has not been done. See Section 1.III. PROJECT DEFINITION AND SCOPE of the SGA.

Metric	Prop K	Prop AA
Actual Leveraging - Current Request	0.0%	No Prop AA
Actual Leveraging - This Project	30.4%	No Prop AA

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Traffic Signal Upgrade Contract 36
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Current Prop K Request:	\$600,000
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1) The requested sales tax and/or vehicle registration fee revenues will be used to supplement and under no circumstance replace existing local revenues used for transportation purposes.

Initials of sponsor staff member verifying the above statement

JJ

CONTACT INFORMATION

	Project Manager	Grants Manager
Name:	Geraldine De Leon	Joel C Goldberg
Title:	Lead Engineer	Grants Procurement Manager
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Traffic Signal Upgrade Contract 36 Background and Scope

The San Francisco Municipal Transportation Agency (SFMTA) is seeking \$600,000 in Prop K Sales Tax funds toward the design phase of traffic signal upgrades at 19 locations under Traffic Signal Upgrade Contract 36. Signal visibility improvements will include new poles with larger signal heads. Pedestrian safety improvements include pedestrian countdown signals (PCS), accessible pedestrian signals (APS) and curb ramps where missing. Some improvements include replacement of damaged signal infrastructure such as poles and pole foundations that have been damaged by traffic collisions.

Other improvements at signal upgrade locations will include new controllers, conduit and wiring where they are needed to implement the signal modifications. 15 of the 19 locations are located on the Vision Zero High Injury Network, and the planned signal improvements are intended to reduce injuries for pedestrians, cyclists, and motorists.

The specific scope for each location under this project is described in Table 1. The table describes the intended project scope, supervisorial district and whether the intersection is located on a Vision Zero High-Injury Network.

Location Selection Criteria

The intersections in this scope were selected after careful review by SFMTA staff of traffic operations and collision patterns on a regular basis. Factors used to prioritize locations for inclusion in this project include collision history, traffic volumes, benefits to roadway users including pedestrians, bicyclists, transit and motorists, proximity to schools or senior centers and any joint departmental opportunities (e.g. scheduled paving projects, corridor improvements). Locations with a history of signal maintenance issues were also considered.

All supervisorial districts are represented in the Contract 36 scope except Districts 4 and 11. District 4 has only 4% of the City's traffic signals, many of which are relatively new and thus are not in need of upgrades. The Great Highway Signal Upgrade is a project in District 4 that is about to start design. There are signal improvements under design in Districts 8, 10, and 11 as part of Signal Modification Contract 35.

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Implementation:

SFMTA Sustainable Streets Division will manage the scope of the detailed design. San Francisco Public Works (SFPW) Infrastructure Design and Construction (IDC) division will manage the issuance and administration of the contract for construction by competitively bid contract.

Task

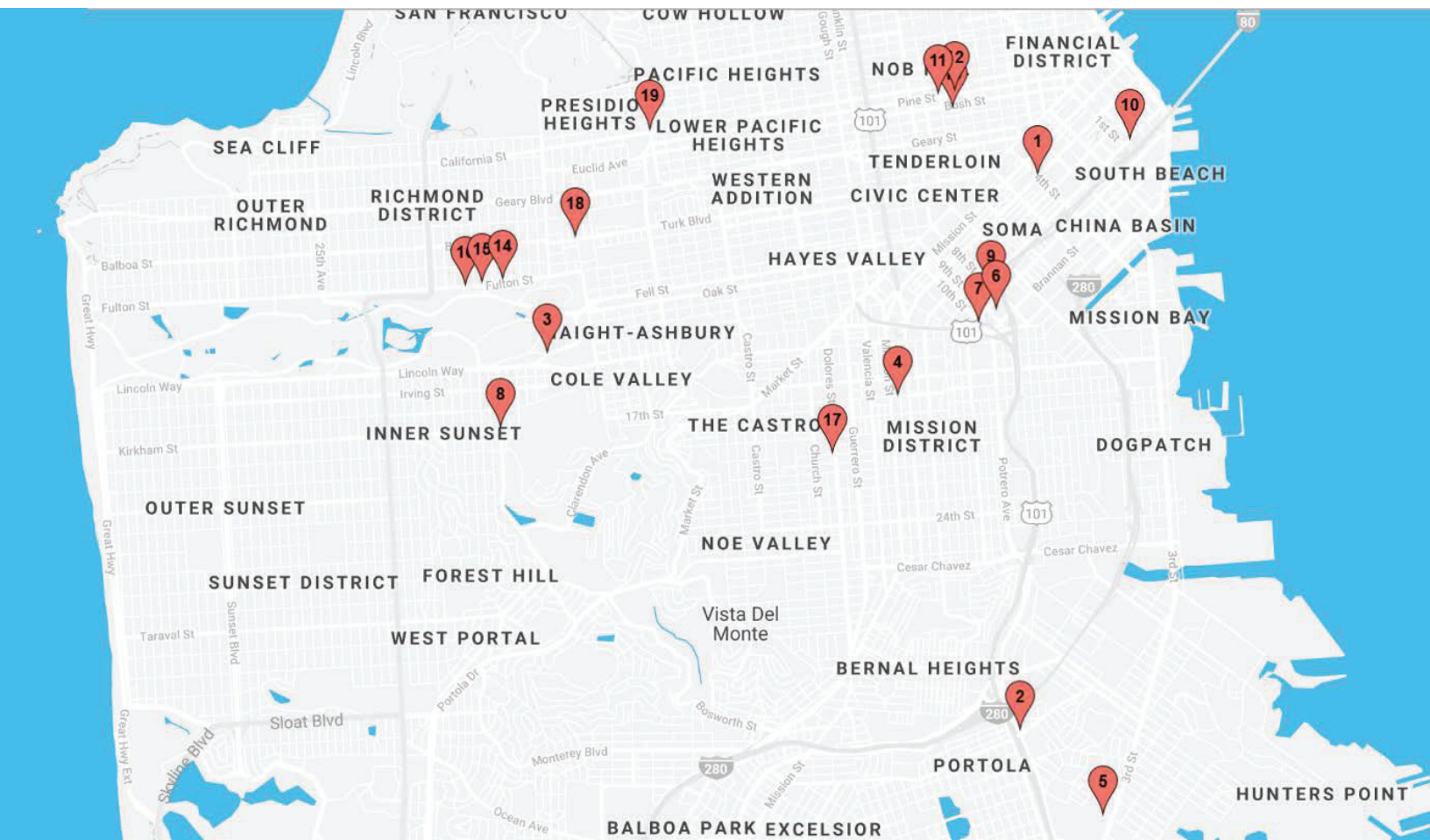
- Design
- Electrical Design
- Contract Support

Force Account Work Performed By

SFMTA Sustainable Streets Division
SFPW Infrastructure Design and Construction
SFPW Infrastructure Design and Construction

Table 1: Traffic Signal Upgrade Contract 36 Locations

#	Street 1	Street 2	Vision Zero High Injury Network	Pedestrian Countdown Signal Upgrades Planned	Accessible Pedestrian Signal Upgrades Planned	Signal Visibility Upgrades	Other improvement	Muni Lines	Supervisor District
1	4th Street	Howard St	YES	-	-	-	Upgrade damaged signal infrastructure.	8,30,45	6
2	Bayshore	Silver	YES	-	YES	-	Upgrade pole & foundation damaged by collision	9,44	10
3	Kezar	Martin Luther King	-	-	YES	YES	Replace pole foundation and sidewalk damaged by collision	-	5
4	17th Street	Folsom Street	YES	YES	YES	YES	-	12	9
5	3rd Street	Carroll Street	YES	-	-	-	Replace and relocate pole damaged by collision	T	10
6	9th Street	Bryant Street	YES	-	YES	YES	Corner sidewalk extensions for pedestrian safety	27,47	6
7	10th Street	Bryant Street	YES	-	YES	YES	Corner sidewalk extensions for pedestrian safety, open closed crosswalk	27,47	6
8	7th Avenue	Kirkham	YES	YES	YES	YES	-	-	5,7
9	8th Street midblock between	Bryant & Harrison	-	-	-	-	New flashing pedestrian beacon & sidewalk extensions	19	6
10	Essex	Harrison	YES	-	-	YES	-	12	6
11	Jones	Pine	YES	-	YES	YES	New left turn signals to improve pedestrian safety	-	3
12	Pine	Taylor	YES	-	YES	YES	New left turn signals to improve pedestrian safety	-	3
13	Bush	Taylor	YES	-	YES	YES	-	-	3
14	6th Avenue	Fulton	YES	-	YES	YES	-	5	1
15	8th Avenue	Fulton	YES	-	YES	YES	-	5,44	1
16	10th Avenue	Fulton	YES	-	YES	YES	-	5	1
17	20th Street	Dolores	-	YES	YES	YES	-	-	8
18	Stanyan	Turk	YES	YES	YES	YES	-	31	1
19	California	Presidio	-	YES	YES	YES	-	1,2,3,43	2



Traffic Signal Upgrade Contract 36 - Locations

- | | |
|---|--------------------------|
| 1 - 4th St/Howard St | 11 - Jones/Pine |
| 2 - Bayshore/Silver | 12 - Pine/Taylor |
| 3 - Kezar/Martin Luther King | 13 - Bush/Taylor |
| 4 - 17th St/Folsom St | 14 - 6th Ave/Fulton |
| 5 - 3rd St/Carroll | 15 - 8th Ave/Fulton |
| 6 - 9th St/Bryant St | 16 - 10th Ave/Fulton |
| 7 - 10th St/Bryant | 17 - 20th St/Dolores |
| 8 - 7th Ave/Kirkham | 18 - Stanyan/Turk |
| 9 - 8th St midblock between Bryant & Harrison | 19 - California/Presidio |
| 10 - Essex/Harrison | |

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Schools Engineering Program FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Prop K EP categories:	Traffic Calming
Current Prop K Request:	\$1,000,000
Supervisory District(s):	Citywide

REQUEST

Brief Project Description

Schools engineering is an annual program within San Francisco's Safe Routes to School program. Scope of work includes the planning, design and construction of: (1) Traffic Operations Program for new and upgraded signage and pavement/curb markings at up to 35 school sites citywide; (2) School Loading Zone Traffic Calming Program for traffic calming measures on up to 15 residential streets where school loading zones exist; and, (3) School Walk Audit Program to identify safety improvements at up to 5 schools through a collaborative planning process, and implement the lower-cost recommendations.

Detailed Scope, Project Benefits and Community Outreach

See attached scope description, including the locations identified for the FY19 program.

Project Location

K-12 schools citywide

Project Phase(s)

Planning/Conceptual Engineering, Design Engineering (PS&E), Construction (CON)

Justification for Multi-phase Request

Multi-phase allocation is recommended given the overlapping schedule of the planning, design and construction phases at different school locations.

5YPP/STRATEGIC PLAN INFORMATION

Type of Project in the Prop K 5YPP/Prop AA Strategic Plan?	Project Drawn from Placeholder
Is requested amount greater than the amount programmed in the relevant 5YPP or Strategic Plan?	Less than or Equal to Programmed Amount
Prop K 5YPP Amount:	\$1,000,000
Prop AA Strategic Plan Amount:	\$0

The San Francisco Municipal Transportation Agency (SFMTA) requests an allocation of \$1,000,000 in Prop K funds for the Fiscal Year 2019/20 Schools Engineering Program. This allocation will fund planning, design and construction of:

- **Traffic Operations Program – New and Upgraded Signage and Markings:** New and upgraded signage and pavement/curb markings at school sites citywide.
- **School Loading Zone Traffic Calming Program:** Traffic calming measures on loading zone streets at up to fifteen K-12 schools in San Francisco; and
- **School Walk Audit Program:** Safety improvements identified through a collaborative planning process for up to five K-12 schools in San Francisco;

A list of school sites and proposed measures to be implemented are developed as part of the program, detailed below.

BACKGROUND

San Francisco’s Safe Routes to Schools Program (SF-SRTS)

Starting in July 2019, the SFMTA transitioned to be the program lead for the SF-SRTS Non-Infrastructure Program, which will help to strengthen the connections between the city’s various engineering and non-infrastructure efforts. The new SF-SRTS Non-Infrastructure Program is a larger, more comprehensive program and serves the 103 non charter K-12 public schools that are in San Francisco Unified School District (SFUSD). The overall City SF-SRTS Program is delivered through a partnership composed of four City Agencies (SF Environment, SFMTA, San Francisco Department of Public Health, and SFUSD) and four local non-profit partners (San Francisco Bicycle Coalition, Walk San Francisco, Tenderloin Safe Passage, and the YMCA’s Y-bike program). The reorganization allows for an increased focus on coordination and transparency, in addition to fulfilling the core goals of the program: safety and mode shift. The program has a strong equity component, utilizing data to identify where additional resources are needed and ensuring strong language and cultural competency requirements to reach all families and support their transportation needs.

The Safe Routes to School program has set a goal for increased safety. Vision Zero is the City’s road safety policy to eliminate all traffic deaths in San Francisco. While school-related traffic deaths are very rare, students still experience safety challenges travelling to, from and around schools. Thus, the program will set a target of reducing collisions and injuries around schools. Collectively, the various subprograms of the Schools Engineering Program described below will contribute towards these safety goals around city schools as part of SF-SRTS.

Schools Engineering Program

For the purposes of SF-SRTS, “Engineering” is used to describe planning work and physical engineering. The scope of this fund request is focused on three distinct areas of work, focused on creating a safer on-street environment. Work in this program is both proactive and responsive. Proactive work will identify potential problem areas to address while engaging communities for added input and review, including students and families. The responsive work will follow a more traditional approach of responding to community concerns as they are raised.

Under the management of the SFMTA’s Livable Streets subdivision, this program has reintroduced school-area walk audits, where school communities can walk the neighborhood around a school with SFMTA staff, in order to collaboratively identify safety and traffic operations issues. Once issues are identified, a rapid response plan will be put into place for solutions that can be quickly implemented to address these concerns.

The three focus areas that make up the Schools Engineering Program will be coordinated and cohesive in approach to meet the diverse needs of San Francisco's neighborhoods and private, parochial and charter schools. Combined with the refreshed communications protocols as part of the SF-SRTS program, families at SF's schools will have extensive access to request safety assistance, provide input on planned transportation safety projects and actively participate in school site transportation planning. Each area leverages strengths to solve unique site issues and will be included in discussions about school safety issues that arise before work is assigned. This will increase the chances that school sites will receive recommendations of best-practice solutions.

ENGINEERING FOCUS AREAS

Traffic Operations Program – New and Upgraded Signage and Markings

The SFMTA receives requests for field inspections and improvements through a number of means including, but not limited to, 311, referrals from the SFUSD liaison, and observations from SFMTA crossing guards. This information is collected by the SFMTA's school safety engineer. Based on this information, the SFMTA assesses traffic conditions schools through:

- Site visits to assess the pickup and drop-off activity at the school site;
- Review of and documentation of traffic calming devices at school site (e.g., signs, pavement/curb markings, crosswalks, and curb painting); and
- Review of collision data.

Based on the above analysis, the SFMTA will design upgraded or new existing pavement/curb markings and signage. In fiscal year 2019, the first year of the Schools Engineering Program, the SFMTA evaluated 33 school sites and issued approximately 43 work orders for improvements. The SFMTA estimates that up to 35 school sites will be improved through signage and/or markings in Fiscal Year 2020. The SFMTA will also review and implement new/upgraded signage and markings at the school sites along with traffic calming measures, implemented as part of the School Loading Zone Traffic Calming Program, which is detailed below.

Outreach: SFMTA's school safety engineer will work directly with school officials to address safety concerns related to loading activities adjacent to schools.

Design: SFMTA's school safety engineer will develop recommendations for safety improvements based on site visits to each school in question. Measures are limited to new or upgraded signs, striping and curb markings.

Construction: SFMTA shops will implement recommended measures based on direction from the SFMTA school safety engineer.

School Loading Zone Traffic Calming Program

In fiscal year 2019, the SFMTA evaluated 20 school sites, with at least one school in each supervisorial district, and prepared 31 traffic calming measures for eventual construction in early calendar year 2020. In fiscal year 2020 the scope of work for the School Loading Zone Traffic Calming Program is to evaluate up to 15 school sites and construct up to 30 traffic calming measures on local, residential streets where school loading zones are present. The SFMTA will establish a citywide list of school sites in priority order for traffic calming measure improvements (see paragraph below for evaluation factors). The School Loading Zone Traffic Calming program will allow the SFMTA to refine and verify this list annually, coordinate efforts with the School Walk Audit program, develop a subset of school site priorities with appropriate traffic calming measures, and ultimately deliver those measures.

Prioritized school sites on the citywide list will be identified based on collision and enrollment data as well as observed traffic speed. Collision data is from TransBASE, a collision database developed by the Department of Public Health in collaboration with SFMTA, the San Francisco Police Department, and the Office of the Controller. Enrollment data is gathered from SFUSD for public schools, and from either schools directly or the California Department of Education for private schools. The SFMTA will ensure geographic equity in fiscal year 2020 by installing measures at the highest-ranking school site in each of the 11 supervisorial districts, and then installing measures at the next top four highest-ranked sites citywide.

Outreach: During the planning phase, SFMTA will outreach to residents near the school site (residents of traffic calming measure subject blocks) to inform them of the proposed project, as well as school staff and SFUSD more generally. The SFMTA will also perform outreach to other stakeholders, including the San Francisco Fire Department, Muni, and SFMTA Accessible Services as a part of the routine TASC process.

Design: Once the project list is established as part of the planning phase, SFMTA staff will complete 100 percent design for each of the proposed traffic calming measures and carry each measure through the SFMTA public hearing/legislation process for approval and environmental clearance. Outreach during the design phase consists of public notice of the legislation process and the public hearing.

Construction: For sites ranked and prioritized for traffic calming measures, the SFMTA anticipates constructing approximately two traffic calming devices per school site, depending on the length of the loading zone block. In addition to supporting signage and pavement markings, traffic calming devices likely to be recommended as part of this program include speed humps/cushions, speed radar signs, raised crosswalks, and related striping/signage.

School Walk Audit Program

In fiscal year 2019, the SFMTA identified five schools for walk audits, all of which are anticipated to be conducted by January 2020. Working in collaboration with the SF-SRTS program, the SFMTA will conduct up to five school walk audits in fiscal year 2020. Walk audits are collaborative assessments that involve the gathering of information about infrastructure issues, motorist behavior and pedestrian/bicycling behavior around schools. SFMTA staff will determine school sites for walk audits primarily based on collision data around schools, focusing on schools that have not had significant infrastructure improvements and schools that have capacity to participate in a walk through, including support from staff, parents, and the principal.

To prepare for a walk audit, SFMTA staff will collect relevant data, including operational and infrastructure conditions around the school (i.e., sidewalk and street widths, bicycle infrastructure, Muni stops, presence of stop/signal control, lane configurations, etc.), collision history and prepare a map for all users that summarizes the route. Walk audits will generally be limited to a 2-3 block radius from the school. Participants may include SFMTA staff, school administration staff, students and families, crossing guards and/or Department of Public Health staff.

Based on the actual or perceived safety and comfort issues identified as part of the walk audit, SFMTA staff will develop a series of recommendations to address the issues. Recommendations will largely be lower-cost and quick to implement, and may include:

- Engineering Treatments
 - Signal modifications (funded through other sources)
 - Traffic calming
 - Daylighting
 - Turn restrictions

- Paint and sign upgrades

Longer-term, higher-cost engineering treatments recommended as part of the Walk Audit Program may be installed as part of larger capital projects or separate programmatic improvement initiatives. The audits may also result in loading and/or operational improvements to be implemented by individual schools.

Outreach: During the planning phase, SFMTA will work with school staff and SFUSD more generally to inform them of the walk audit process. The SFMTA will also perform outreach to other stakeholders, including the San Francisco Fire Department, Muni, and SFMTA Accessible Services as a part of the routine TASC process.

Design: Once the project list is established as part of the planning phase, SFMTA staff will complete 100 percent design for each of the proposed measures and carry each measure through the SFMTA public hearing/ legislation process for approval and environmental clearance. Outreach during the design phase consists of public notice of the legislation process and the public hearing.

Construction: SFMTA will have responsibility for funding and implementing measures that have been recommended and designed as part of the walk audit process.

Schools Engineering Program Summary

The following table summarizes the approximate number of sites to be evaluated and the approximate number of engineering measures to be constructed annually as part of this program:

	# School Sites Evaluated (approximately)	# Measures Constructed (approximately)
Traffic Operations	35	100
School Loading Zone Traffic Calming	15	30
School Walk Audit	5	30

Of the total amount:

- **Planning:** \$186,880 will fund planning efforts, including:
 - Site visits for operations review
 - Outreach and ongoing communication and correspondence with residents who live on streets with proposed traffic calming measures
 - Ongoing communication with SF-SRTS program coordinators and participants
 - Engineering review of streets in preparation for school walk audits
 - Staff hours to attend walk audits
 - Data collection efforts, including up to 60 speed surveys at 30 locations
- **Design:** \$100,121 will fund design efforts, including:
 - Identify preferred location and design for all traffic calming devices and signage/marketing upgrades
 - Project development for up to 55 locations, including recommendation of appropriate device(s) for each selected location
 - Community outreach to finalize device selection,
 - Conceptual design engineering of up to 160 traffic calming devices and other related safety improvements

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- Prepare and update striping drawings.
- Detailed design, typically conducted by San Francisco Public Works, is required for some of the measures such as traffic circles.
- Mark location of devices in field.
- Legislation and Environmental review efforts for all applicable projects
- **Construction:** \$713,000 will fund construction efforts, including:
 - SFPW will construct devices to SFMTA specifications, with contractors available to supplement SFPW's capacity.
 - Staff will perform quality control.

San Francisco County Transportation Authority

Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Schools Engineering Program FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

ENVIRONMENTAL CLEARANCE

Environmental Type:	Categorically Exempt
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PROJECT DELIVERY MILESTONES

Phase	Start		End	
	Quarter	Calendar Year	Quarter	Calendar Year
Planning/Conceptual Engineering	Jan-Feb-Mar	2020	Jul-Aug-Sep	2020
Environmental Studies (PA&ED)				
Right of Way				
Design Engineering (PS&E)	Apr-May-Jun	2020	Oct-Nov-Dec	2020
Advertise Construction				
Start Construction (e.g. Award Contract)	Jan-Feb-Mar	2021		
Operations				
Open for Use			Jul-Aug-Sep	2021
Project Completion (means last eligible expenditure)			Jan-Feb-Mar	2022

SCHEDULE DETAILS

Phases within Schools Engineering Program subprograms are concurrent throughout project.

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Schools Engineering Program FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

FUNDING PLAN - FOR CURRENT REQUEST

Fund Source	Planned	Programmed	Allocated	Project Total
PROP K: Traffic Calming	\$0	\$1,000,000	\$0	\$1,000,000
Phases in Current Request Total:	\$0	\$1,000,000	\$0	\$1,000,000

COST SUMMARY

Phase	Total Cost	Prop K - Current Request	Source of Cost Estimate
Planning/Conceptual Engineering	\$186,879	\$186,879	Based on prior similar work
Environmental Studies (PA&ED)	\$0	\$0	
Right of Way	\$0	\$0	
Design Engineering (PS&E)	\$100,121	\$100,121	Based on prior similar work
Construction (CON)	\$713,000	\$713,000	Based on prior similar work
Operations	\$0	\$0	
Total:	\$1,000,000	\$1,000,000	

% Complete of Design:	0.0%
As of Date:	12/13/2019
Expected Useful Life:	10 Years

San Francisco County Transportation Authority
Prop K/Prop AA Allocation Request Form

Project Name: FY2019/20 Schools Engineering Program

MAJOR LINE ITEM BUDGET					
BUDGET SUMMARY BY PHASE					
Phase	Labor	Materials	Total	Prop K Request	
Planning	\$ 182,880	\$ 4,000	\$ 186,880	\$ 186,880	
Design	\$ 100,121	-	\$ 100,121	\$ 100,121	
Construction	\$ 142,600	\$ 570,400	\$ 713,000	\$ 713,000	
Total			\$ 1,000,000	\$ 1,000,000	

PLANNING				
SUMMARY BY TASK				
Agency	Scope TC at Load Zones	Scope School Operations Needs	Outreach (for all scope tasks)	Total
SFMTA Labor	\$ 45,720	\$ 45,720	\$ 91,440	\$ 182,880
Percent of Total Phase Effort	25%	25%	50%	

SUMMARY BY MAJOR LINE ITEM - PLANNING		
Budget Line Item	Totals	% of phase
Surveys	\$ 4,000	2%
SFMTA Labor	\$ 182,880	98%
TOTAL PHASE	\$ 186,880	

LABOR DETAIL							
SFMTA	Salary per FTE	MFB for FTE	Salary + MFB	Overhead = (Salary+MFB) x Approved Rate	Hours	FTE	Total
Transit Planner III [5289]	\$ 124,409	\$ 71,447	\$ 195,856	\$ 144,737	16	0.01	\$ 2,620
Senior Engineer [5211]	\$ 183,779	\$ 98,318	\$ 282,097	\$ 208,469	10	0.00	\$ 2,358
Associate Engineer [5207]	\$ 137,129	\$ 77,205	\$ 214,334	\$ 158,392	900	0.43	\$ 161,276
Contingency (10%)							\$ 16,625
Total							\$ 182,880

DESIGN							
LABOR DETAIL							
SFMTA	Salary per FTE	MFB for FTE	Salary + MFB	Overhead = (Salary+MFB) x Approved Rate	Hours	FTE	Total
Transit Planner III [5289]	\$ 124,409	\$ 71,447	\$ 195,856	\$ 144,737	32	0.02	\$ 5,240
Senior Engineer [5211]	\$ 183,779	\$ 98,318	\$ 282,097	\$ 208,469	12	0.01	\$ 2,830
Associate Engineer [5207]	\$ 137,129	\$ 77,205	\$ 214,334	\$ 158,392	450	0.22	\$ 80,638
Contingency (10%)							\$ 8,871
Total							\$ 97,579

MFB = Mandatory Fringe Benefits, FTE = Full Time Equivalent

San Francisco County Transportation Authority
 Prop K/Prop AA Allocation Request Form

SUMMARY BY MAJOR LINE ITEM - DESIGN		
Budget Line Item	Totals	% of phase
Environmental Services	\$ 2,542	3%
SFMTA Labor	\$ 97,579	97%
TOTAL PHASE	\$ 100,121	

TOTAL LABOR COST BY AGENCY	
SFMTA	\$ 100,121
SFPW*	
TOTAL	\$ 100,121

*SFPW Budget for design is contingent on device type included in final improvements list.

CONSTRUCTION

SUMMARY BY MAJOR LINE ITEM *				
Budget Line Item	Unit Cost	Units	Total Cost	SFPW Cost
Speed Humps	\$ 13,000	30	\$ 390,000	\$ 390,000
Raised Crosswalks & Tables	\$ 15,000	10	\$ 150,000	\$ 150,000
Paint & Signs			\$ 95,000	\$ 95,000
Signal Modifications			\$ 5,000	\$ 5,000
Programmatic Recommendations**			\$ 6,000	\$ 6,000
Construction Management			\$ 13,000	\$ 13,000
Contingency (10% excluding paint, signs, signals and CM)			\$ 54,000	
TOTAL CONSTRUCTION PHASE			\$ 713,000	\$ 119,000
				\$ 540,000

*NOTE: This represents a sample mix of scoped improvements that would utilize the full project funding. The actual mix of improvements will be determined in collaboration with the community and may be less than the total funded amount. Unused funds will be returned at the end of the project. Improvements will not exceed the funded amount. Unit costs are estimates of typical recent installations and may vary due to physical conditions and economies of scale. Unit costs are inclusive of labor and materials at an 80/20 split.

**Programmatic Recommendations: SFMTA staff recommendations related to loading that can contribute towards improved safety that individual schools may implement.

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Schools Engineering Program FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

SFCTA RECOMMENDATION

Resolution Number:		Resolution Date:	
Total Prop K Requested:	\$1,000,000	Total Prop AA Requested:	\$0
Total Prop K Recommended:	\$1,000,000	Total Prop AA Recommended:	\$0

SGA Project Number:		Name:	Schools Engineering Program FY20
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	03/31/2021
Phase:	Planning/Conceptual Engineering	Fundshare:	100.0

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
PROP K EP-138	\$93,439	\$93,440	\$0	\$0	\$0	\$186,879

Deliverables

1. Quarterly progress reports (QPRs) shall: provide the percent complete for planning; provide updated draft lists of ranked locations and recommended improvements for each of the three engineering focus areas: Signage and Markings, Loading Zones, and Walk Audits; describe outreach performed the prior quarter and planned for the upcoming quarter (e.g. list of schools contacted, community meetings conducted or upcoming); describe the results of site evaluations (e.g. site visits, walking audits); and describe the project development activities (e.g. balloting) performed in the prior quarter in addition to the standard requirements for QPRs (see Standard Grant Agreement for details).

2. On completion of the planning phase (anticipated September 30, 2020), SFMTA will provide the citywide prioritized list of schools with recommended treatments (e.g. list of improvements by school) for each of the three engineering focus areas: Signage and Markings, Loading Zones, and Walk Audits.

Special Conditions

1. The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

SGA Project Number:		Name:	Schools Engineering Program FY20
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	06/30/2021
Phase:	Design Engineering	Fundshare:	100.0

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
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PROP K EP-138	\$30,036	\$70,085	\$0	\$0	\$0	\$100,121
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Deliverables

1. Quarterly progress reports will include the percent complete of design for each school area, in addition to the standard requirements for QPRs (see Standard Grant Agreement for details).

2. Upon completion of design (anticipated December 2020), provide evidence of 100% design (e.g. signed work orders) for all locations.

Special Conditions

1. The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

SGA Project Number:		Name:	Schools Engineering Program FY20
Sponsor:	San Francisco Municipal Transportation Agency	Expiration Date:	09/30/2022
Phase:	Construction	Fundshare:	100.0

Cash Flow Distribution Schedule by Fiscal Year

Fund Source	FY 2019/20	FY 2020/21	FY 2021/22	FY 2022/23	FY 2023/24	Total
PROP K EP-138	\$0	\$263,000	\$450,000	\$0	\$0	\$713,000

Deliverables

1. Quarterly progress reports will provide the percent complete for construction, include a list of locations with improvements completed in the previous quarter, including the types of improvements at each location and 2 - 3 digital photos of work in progress or completed work, and a list of locations and improvements anticipated to be constructed in the upcoming quarter, in addition to the standard requirements for QPRs (see Standard Grant Agreement for details).

Special Conditions

1. The Transportation Authority will only reimburse SFMTA up to the approved overhead multiplier rate for the fiscal year that SFMTA incurs charges.

Metric	Prop K	Prop AA
Actual Leveraging - Current Request	0.0%	No Prop AA
Actual Leveraging - This Project	0.0%	No Prop AA

San Francisco County Transportation Authority Prop K/Prop AA Allocation Request Form

FY of Allocation Action:	FY2019/20
Project Name:	Schools Engineering Program FY20
Grant Recipient:	San Francisco Municipal Transportation Agency

EXPENDITURE PLAN INFORMATION

Current Prop K Request:	\$1,000,000
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1) The requested sales tax and/or vehicle registration fee revenues will be used to supplement and under no circumstance replace existing local revenues used for transportation purposes.

Initials of sponsor staff member verifying the above statement
DC

CONTACT INFORMATION

	Project Manager	Grants Manager
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Title:	Project Manager	Grants Procurement Manager
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FY19 SCHOOLS ENGINEERING PROGRAM - SCHOOL SITES EVALUATED BY SUB-PROGRAM

Traffic Operations

No	School	Supv Dist
1	Alta Vista School	9
2	Archbishop Riordan HS	7
3	Balboa HS	11
4	Brandeis Hillel School	7
5	Clarendon ES	7
6	Commodore Sloat ES	7
7	De Marillac Academy	6
8	Dolores Huerta ES	8
9	E.R. Taylor ES	9
10	Edwin and Anita Lee Newcomer	3
11	Epiphany ES	11
12	Garfield ES	3
13	George Peabody ES	1
14	Grattan ES	5
15	Hamlin School	2
16	Harvey Milk Civil Rights Academic ES	6
17	Hillcrest ES	9
18	James Denman MS	11
19	Jean Parker ES	3
20	Jefferson CDC	4
21	Jefferson ES	4
22	John O'Connell HS	9
22	Kittredge School	1
23	Leadership HS	11
24	Longfellow ES	11
25	Mission HS	8
26	Monroe ES	11
27	Paul Revere School	9
28	Rooftop Burnett Campus	8
29	Sherman ES	2
30	Spring Valley ES	3
31	Starr King ES	10
32	Town School for Boys	2
33	Visitacion Valley MS	10

School Loading Zone Traffic Calming

No	School	Supv Dist
1	George Washington HS	1
2	Marina MS	2
3	Galileo High	2
4	Spring Valley ES	3
5	Francisco MS	3
6	Abraham Lincoln HS	4
7	A.P. Giannini MS	4
8	Sacred Heart Cathedral Prep	5
9	French American Int'l School	5
10	Tenderloin Community	6
11	Lakeshore Alternative ES	7
12	Lowell HS	7
13	Mission HS	8
14	James Lick MS	8
15	Buena Vista Horace Mann	9
16	Hillcrest ES	9
17	Visitacion Valley ES	10
18	Daniel Webster ES	10
19	Balboa HS	11

School Walk Audits

No	School	Supv Dist
1	Galileo HS	2
2	Rosa Parks	5
3	Tenderloin ES	6
4	Mission HS	8
5	Martin Luther King, Jr MS	9

FY19 SCHOOLS ENGINEERING PROGRAM - TRAFFIC OPERATIONS

No	Date	School Location	Work Order Number	Supv. Dist.	Sign shop	Curb Paint	Paint Shop
1	02/01/2019	Longfellow ES	19-7188	11	1		
2	02/08/2019	Epiphany ES	19-7216	11	1		
3	02/22/2019	Edwin and Anita Lee Newcomer	19-7279	3	1		
4	02/25/2019	Spring Valley Science ES	19-7296	3	1	1	1
5	02/27/2019	Garfield ES	19-7298	3	1	1	
6	03/04/2019	Jefferson ES	19-7315	4	1		
7	03/08/2019	Hillcrest ES	19-7350	9		1	
8	03/12/2019	Jean Parker ES	19-7362	3	1	1	
9	03/14/2019	Alta Vista School	19-7382	9	1		
10	03/18/2019	Grattan ES	19-7420	5	1	1	1
11	04/10/2019	Leadership HS	19-7539	11	1	1	
12	04/12/2019	Rooftop Burnett Campus	19-7540	8	1	1	
13	04/19/2019	Jefferson CDC	19-7584	4	1	1	
14	04/23/2019	Dolores Huerta ES	19-7596	8	1	1	1
15	04/23/2019	Sherman ES	19-7590	2	1		
16	04/24/2019	Archbishop Riordan HS	19-7601	7	1		1
17	04/25/2019	Starr King ES	19-7609	10	1		
18	05/01/2019	Longfellow ES	19-7636	11	1		
19	05/01/2019	Longfellow ES	19-7637	11	1		
20	05/02/2019	Longfellow ES	19-7647	11	1		
21	05/16/2019	Spring Valley ES	19-7706	3			1
22	05/16/2019	Visitacion Valley MS	19-7707	10			1
23	06/13/2019	Epiphany ES	19-7918	11	1		1
24	06/14/2019	Town School for Boys	19-7924	2		1	
25	07/16/2019	Hamlin School	19-8094	2		1	
26	07/16/2019	Hamlin School	19-8097	2	1	1	
27	07/17/2019	Monroe ES	19-8103	11	1		
28	07/30/2019	Mission HS	19-7964	8	1		1
29	08/13/2019	Commodore Sloat ES	19-8262	7			1
30	08/14/2019	Clarendon ES	19-8263	7	1		
31	08/15/2019	Balboa HS	19-7970	11	1		1
32	08/15/2019	James Denman MS	19-7970	11	1		1
33	08/15/2019	Leadership HS	19-7970	11	1		1
34	08/20/2019	Paul Revere School	19-7756	9	1	1	
35	08/21/2019	Jefferson ES	19-7911	4	1		
36	08/21/2019	Jefferson ES	19-8270	4	1		
37	09/09/2019	N/A - 44th Ave/Lawton St	19-8368	n/a		1	
38	09/12/2019	Harvey Milk Civil Rights Academic ES	19-8388	6	1	1	
39	09/13/2019	Kittredge School	19-8140	1		1	
40	10/01/2019	E.R. Taylor ES	19-8491	9	1	1	
41	10/01/2019	George Peabody ES	19-8494	1	1		
42	10/05/2019	De Marillac Academy	19-8519	6	1		1
43	10/05/2019	Spring Valley ES	19-8518	3	1		
44	10/21/2019	John O'Connell HS	19-8591	9	1		1
45	11/04/2019	Brandeis Hillel School	19-8650	7	1		1

NOTES:

1. Each work order was submitted on the date listed and work is typically completed within 2-3 months
2. Work Order status will be updated in the quarterly reports for SFMTA-070 (138-907119-21)

FY19 SCHOOLS ENGINEERING PROGRAM - SCHOOL LOADING ZONE TRAFFIC CALMING

No	School Name	Supv. Dist.	Zone ¹	Primary Street	Cross Street 1	Cross Street 2	Street Width	Traffic Calming Device Type	Number of Devices ²
1	George Washington HS	1	--	32nd Ave	Balboa St	Anza St	40'	Speed Cushion	2
2	Marina MS	2	ADA	Fillmore St	Chestnut St	Bay St	28'	Speed Cushion	2
3	Galileo High	2	SBLZ	Francisco St	Polk St	Van Ness Ave	39'	Speed Hump	2
4	Spring Valley ES	3	--	Washington St	Hyde St	Larkin St	29'	Speed Cushion	1
5	Francisco MS	3	SBLZ	Francisco St	Powell St	Stockton St	38'	Raised Crosswalk	1
6	Abraham Lincoln HS	4	--	24th Ave	Quintara St	Rivera St	40'	Speed Hump	2
7	A.P. Giannini MS	4	SBLZ/PLZ	Ortega St	38th Ave	39th Ave	50'	Speed Hump	1
8	Sacred Heart Cathedral Prep	4	SBLZ/PLZ	Ortega St	37th Ave	38th Ave	50'	Speed Hump	1
9	French American Int'l School	5	--	Ellis St	Franklin St	Gough St	44'	Speed Hump	2
10	Tenderloin Community	5	--	Hickory St	Gough St	Franklin St	21'	Raised Crosswalk	1
11	Lakeshore Alternative ES	6	SBLZ	Elm St	Van Ness Ave	Polk St	21'	Speed Hump	2
12	Lowell HS	7	--	Middlefield Dr	Eucalyptus Dr	Lake Merced Bl	35'	Speed Hump	1
13	Mission HS	7	--	Eucalyptus Dr	Forest View Dr	Inverness Dr	40'	Raised Crosswalk	1
14	James Lick MS	8	--	18th St	Church St	Dolores St	40'	Speed Cushion	2
15	Buena Vista Horace Mann	8	SBLZ	Noe St	25th St	Clipper St	45'	Speed Hump	1
16	Hillcrest ES	9	--	Bartlett St	23rd St	24th St	30'	Speed Hump	2
17	Visitacion Valley ES	9	--	Yale St	Silver Ave	Silliman St	40'	Speed Hump	1
18	Daniel Webster ES	10	SBLZ	Visitacion Ave	Schwerin St	Delta St	36'	Speed Cushion	2
19	Balboa HS	10	--	Missouri St	19th St	20th St	50'	Speed Hump	2
20	Balboa HS	11	SBLZ	Otsego Ave	Oneida Ave	Onondaga Ave	40'	Speed Hump	2
Total									31

NOTES:

1. Zone refers to type of loading zone: ADA is an accessible zone; SBLZ is a school bus loading zone; PLZ is a passenger loading zone