

File No. 110655

Committee Item No. 3  
Board Item No. \_\_\_\_\_

## COMMITTEE/BOARD OF SUPERVISORS AGENDA PACKET CONTENTS LIST

Committee: Budget and Finance FULL-Committee      Date: May 26, 2011

Board of Supervisors Meeting      Date \_\_\_\_\_

### Cmte Board

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| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Resolution                                   |
| <input type="checkbox"/>            | <input type="checkbox"/> | Ordinance                                    |
| <input type="checkbox"/>            | <input type="checkbox"/> | Legislative Digest                           |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Budget and Legislative Analyst Report        |
| <input type="checkbox"/>            | <input type="checkbox"/> | Ethics Form 126                              |
| <input type="checkbox"/>            | <input type="checkbox"/> | Introduction Form (for hearings)             |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Department/Agency Cover Letter and/or Report |
| <input type="checkbox"/>            | <input type="checkbox"/> | MOU  |
| <input type="checkbox"/>            | <input type="checkbox"/> | Grant Information Form                       |
| <input type="checkbox"/>            | <input type="checkbox"/> | Grant Budget                                 |
| <input type="checkbox"/>            | <input type="checkbox"/> | Subcontract Budget                           |
| <input type="checkbox"/>            | <input type="checkbox"/> | Contract/Agreement                           |
| <input type="checkbox"/>            | <input type="checkbox"/> | Award Letter                                 |
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### OTHER

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Completed by: Victor Young  
Completed by: Victor Young

Date: May 20, 2011  
Date: \_\_\_\_\_

An asterisked item represents the cover sheet to a document that exceeds 25 pages. The complete document is in the file.

1 [General Obligation Bonds - Road Repaving and Street Safety - \$248,000,000]

2  
3 **Resolution determining and declaring that the public interest and necessity demand**  
4 **the repaving and reconstruction of roads, the rehabilitation and seismic improvement**  
5 **of street structures, the replacement of sidewalks, the installation and renovation of**  
6 **curb ramps, the redesign of streetscapes to include pedestrian and bicycle safety**  
7 **improvements, and the construction, rehabilitation, and renovation of traffic**  
8 **infrastructure and the payment of related costs necessary or convenient for the**  
9 **foregoing purposes; finding that the estimated cost of \$248,000,000 for such**  
10 **improvements is and will be too great to be paid out of the ordinary annual income and**  
11 **revenue of the City and County of San Francisco and will require incurring bonded**  
12 **indebtedness; finding that the proposed bond is not a project under the California**  
13 **Environmental Quality Act (CEQA); finding the proposed bond is in conformity with the**  
14 **priority policies of Planning Code Section 101.1(b) and with the General Plan**  
15 **consistency requirement of Charter Section 4.105 and Administrative Code Section**  
16 **2A.53; providing for the City and County of San Francisco to declare its official intent**  
17 **to reimburse prior expenditures; and waiving the time limits set forth in Administrative**  
18 **Code Section 2.34.**

19  
20 WHEREAS, The City and County of San Francisco (the "City") has experienced a  
21 significant decline in the condition of City streets, sidewalks and street structures,  
22 accompanied by a projected decline in revenues available for such critical infrastructure  
23 projects; and,

24 WHEREAS, City staff has identified a capital improvement need totaling \$248,000,000  
25 in projects relating to street repaving, street structure rehabilitation and seismic improvement,

1 curb ramp installations, sidewalk replacement, and streetscape and traffic infrastructure  
2 improvements; and,

3 WHEREAS, Substandard and crumbling streets and sidewalks present hazards for  
4 pedestrians, people with disabilities, bicyclists, motorists and transit-riders; and,

5 WHEREAS, Deteriorating streets increase vehicle maintenance costs for motorists and  
6 transit operators, and compromise the mobility of emergency response vehicles; and,

7 WHEREAS, With adequate funding the City can implement cost-effective measures to  
8 repave streets before they fall into disrepair and before they must be reconstructed at a much  
9 greater cost; and,

10 WHEREAS, Sidewalk improvements and curb ramps are essential to providing equal  
11 access for people with disabilities to the City's network of streets and roads; and,

12 WHEREAS, Street structures such as tunnels, bridges, and stairways connect  
13 residents to neighborhoods throughout the City and are in need of rehabilitation and seismic  
14 improvement; and,

15 WHEREAS, The current design of City streets and sidewalks does not maximize the  
16 use of public spaces and rights-of-way; and,

17 WHEREAS, The City's traffic infrastructure, including but not limited to traffic signal  
18 infrastructure, are in need of construction and renovation to improve transit efficiency and,

19 WHEREAS, The traffic infrastructure improvements will make Muni more efficient and  
20 reliable thereby increasing transit use; and,

21 WHEREAS, The redesign of the City's streets and sidewalks will promote a more  
22 walkable and bikable environment and safely accommodate the expected increase in  
23 pedestrian and bicycle traffic volumes; and,

24  
25

1           WHEREAS, Current transportation revenues are insufficient to address the capital  
2 improvement need described above and the current needs of the City's roadway  
3 infrastructure; and,

4           WHEREAS, The Road Repaving and Street Safety Bond (the "Bond") will enhance the  
5 safety of pedestrians, people with disabilities, bicyclists, transit-riders and motorists by  
6 repaving streets, replacing sidewalks, stairways, bridges, tunnels and related street  
7 structures, installing curb ramps, and by constructing, rehabilitating and renovating traffic  
8 infrastructure, as well as by constructing and installing safety improvements to redesign and  
9 modernize street corridors (collectively, the "Project"); and,

10           WHEREAS, The Bond is recommended by the City's 10-year capital plan, which is  
11 approved each year by the Mayor of the City and the Board of Supervisors of the City (the  
12 "Board"); and,

13           WHEREAS, The Board recognizes the need to enhance and improve public safety for  
14 pedestrians, cyclists, motorists, people with disabilities and transit-riders and to provide stable  
15 and reliable funding for road, traffic, sidewalk and street infrastructure; now, therefore, be it

16           RESOLVED, By the Board:

17           Section 1. The Board determines and declares that the public interest and necessity  
18 demand the repavement of streets, the replacement of sidewalks, stairways, bridges, tunnels  
19 and related street structures, the installation of curb ramps, the construction, rehabilitation and  
20 renovation of traffic infrastructure, as well as the construction and installation of safety  
21 improvements to redesign and modernize street corridors, and the payment of related costs  
22 necessary or convenient for the foregoing purposes.

23           Section 2. The estimated cost of \$248,000,000 of the Bond is and will be too great to  
24 be paid out of the ordinary annual income and revenue of the City, will require an expenditure  
25

1 greater than the amount allowed by the annual tax levy, and will require the incurrence of  
2 bonded indebtedness in an amount not to exceed \$248,000,000.

3 Section 3. The Board, having reviewed the proposed legislation, finds and declares for  
4 the reasons set forth in the letter from the City Planning Department, dated May 19, 2011, a  
5 copy of which is on file with the Clerk of the Board in File No. 110655 and incorporated by  
6 reference, that the Bond proposal is not subject to the California Environmental Quality Act  
7 ("CEQA") because as the establishment of a government financing mechanism that does not  
8 identify individual specific projects to be constructed with the funds it is not a project as  
9 defined by CEQA and the CEQA Guidelines. The use of Bond proceeds to finance any  
10 project or portion of any project will be subject to approval of the Board upon completion of  
11 planning and any further required environmental review under CEQA for those individual  
12 projects.

13 Section 4. The Board finds and declares that the proposed Bond is (i) in conformity  
14 with the priority policies of Section 101.1(b) of the San Francisco Planning Code, (ii) in  
15 accordance with Section 4.105 of the San Francisco Charter and Section 2A.53(f) of the  
16 San Francisco Administrative Code, and (iii) consistent with the City's General Plan, and  
17 adopts the findings of the City Planning Department, as set forth in the General Plan Referral  
18 Report dated May 20, 2011, a copy of which is on file with the Clerk of the Board in File  
19 No. 110655 and incorporates such findings by reference.

20 Section 5. The time limit for approval of this resolution specified in Section 2.34 of the  
21 San Francisco Administrative Code is waived.

22 Section 6. Under Section 2.40 of the San Francisco Administrative Code, the  
23 ordinance submitting this proposal to the voters shall contain a provision authorizing landlords  
24  
25

1 to pass-through fifty percent (50%) of the resulting property tax increases to residential  
2 tenants in accordance with Chapter 37 of the San Francisco Administrative Code.

3 Section 7. The City hereby declares its official intent to reimburse prior expenditures of  
4 the City incurred or expected to be incurred prior to the issuance and sale of any series of  
5 bonds in connection with the Project (collectively, the "Series 2012 Bonds"). The Board  
6 hereby declares the City's intent to reimburse the City with the proceeds of the Series 2012  
7 Bonds for the expenditures with respect to the Project (the "Expenditures" and each, an  
8 "Expenditure") made on and after that date that is no more than 60 days prior to adoption of  
9 this Resolution. The City reasonably expects on the date hereof that it will reimburse the  
10 Expenditures with the proceeds of the Series 2012 Bonds.

11 Each Expenditure was and will be either (a) of a type properly chargeable to a  
12 capital account under general federal income tax principles (determined in each case as of  
13 the date of the Expenditure), (b) a cost of issuance with respect to the Series 2012 Bonds, (c)  
14 a nonrecurring item that is not customarily payable from current revenues, or (d) a grant to a  
15 party that is not related to or an agent of the City so long as such grant does not impose any  
16 obligation or condition (directly or indirectly) to repay any amount to or for the benefit of the  
17 City. The maximum aggregate principal amount of the Series 2012 Bonds expected to be  
18 issued for the Project is \$248,000,000. The City shall make a reimbursement allocation,  
19 which is a written allocation by the City that evidences the City's use of proceeds of the  
20 applicable Series of 2012 Bonds to reimburse an Expenditure, no later than 18 months after  
21 the later of the date on which the Expenditure is paid or the Project is placed in service or  
22 abandoned, but in no event more than three years after the date on which the Expenditure is  
23 paid. The City recognizes that exceptions are available for certain "preliminary expenditures,"  
24 costs of issuance, certain de minimis amounts, expenditures by "small issuers" (based on the  
25

1 year of issuance and not the year of expenditure) and expenditures for construction projects  
2 of at least 5 years.

3 Section 8. Documents referenced in this resolution are on file with the Clerk of the  
4 Board of Supervisors in File No. 110 655, which is hereby declared to be a part of this  
5 resolution as if set forth fully herein.  
6

7 APPROVED AS TO FORM:  
8 DENNIS J. HERRERA  
9 City Attorney

10 By: Kenneth David Roux  
11 KENNETH DAVID ROUX  
12 Deputy City Attorney  
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24  
25



Edwin M. Lee, Mayor  
Edward D. Reiskin, Director



Patrick Rivera, P.E., Bureau Manager

May 12, 2011

11-0508 R

Stephen Shotland  
San Francisco Planning Department  
1650 Mission Street Suite 400  
San Francisco, CA 94103

Dear Mr. Shotland:

The Department of Public Works requests a General Plan Referral and CEQA Exemption for a \$248 million Road Repaving and Street Safety General Obligation Bond proposed for the November 2011 ballot. We are making this request pursuant to Section 4.105 of the San Francisco Charter and Section 2A.52 of the Administrative Code, which requires the Planning Department to determine consistency with the General Plan prior to the Board of Supervisors consideration of, and action on any ordinance or resolution. The General Plan Referral and CEQA finding is needed prior to the Board's first action on the Resolution of Public Interest and Necessity anticipated Wednesday, June 1.

The proposed bond provides funding for five programmatic categories:

1. \$148.8 million for Street Repaving and Reconstruction
2. \$ 7.3 million for Street Structure Rehabilitation and Seismic Improvement
3. \$ 22.0 million for Sidewalk Accessibility Improvements
4. \$ 50.0 million for Streetscape, Pedestrian and Bicycle Safety Improvements
5. \$ 20.3 million for Transit Signal Infrastructure Improvements

Projects completed through the bond are anticipated to be within existing City rights of way and on City owned property. The bond proposal does not specify which projects will be completed through this bond, but it does list the scope of improvements and potential projects that may be completed. If the bond is approved by voters in November, individual projects will require project-level General Plan referrals, Environmental Review and other approvals.

Please contact me, (415) 558-4001 or [Patrick.Rivera@sfdpw.org](mailto:Patrick.Rivera@sfdpw.org); or contact Frank Filice at (415) 558.4011 or [Frank.Filice@sfdpw.org](mailto:Frank.Filice@sfdpw.org) with any questions about this request.

Sincerely,

Patrick Rivera  
Bureau Manager

*Exempt per CEQA Guidelines  
Statutory Exemption Section 15273  
Rates, Tolls, Fares and charges.*

*Brett Bollinger 5/19/11*  
**Approved Planning Dept. Brett Bollinger**







# SAN FRANCISCO PLANNING DEPARTMENT

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## General Plan Referral

1650 Mission St  
Suite 400  
San Francisco,  
CA 94103-2479

Reception:  
415.558.6378

Fax:  
415.558.6409

Planning  
Information:  
415.558.6377

*Date:* May 20, 2011

*Case No.* Case No. 2011.0508R  
\$248 Million Road Repaving and Street Safety General  
Obligation Bond  
November 2011 Ballot

*Project Sponsor:* Patrick Rivera, Bureau Manager  
City & County of San Francisco  
Department of Public Works  
Office of the Deputy Director for Engineering  
Bureau of Engineering  
30 Van Ness Avenue, 5<sup>th</sup> Floor  
San Francisco, CA 94102

*Referred By:* Patrick Rivera, Bureau Manager  
City & County of San Francisco  
Department of Public Works  
Office of the Deputy Director for Engineering  
Bureau of Engineering  
30 Van Ness Avenue, 5<sup>th</sup> Floor  
San Francisco, CA 94102

*Staff Contact:* Jon Swae – (415) 575-9069  
[jon.swae@sfgov.org](mailto:jon.swae@sfgov.org)

*Recommendation:* Finding the project, on balance, is **in conformity** with  
the General Plan

*Recommended  
By:*   
John Rahaim, Director of Planning

### PROJECT DESCRIPTION

On May 12, 2011, the Planning Department (herein "the Department") received a request from the Department of Public Works for a General Plan Referral for the proposed \$248

Million Road Repaving and Street Safety General Obligation Bond. The General Plan Referral is required by Sections 2A.52 of the Administrative Code. If approved by the Capital Planning Committee, Board of Supervisors and Mayor, the bond would be placed before voters on the November 2011 ballot.

Recommended as part of the citywide ten-year Capital Plan to improve and invest in the City's infrastructure, the proposed bond would improve streetscapes for pedestrian and bicyclist safety, improve traffic flow on local streets and install sidewalk and curb ramps to meet the City's obligations under the Americans with Disabilities Act. The bond would also provide funding to repave streets and fix potholes in neighborhoods throughout San Francisco and seismically strengthen deteriorating bridges, overpasses and stairways.

If approved by the voters, the proposed bond would make funding available in the following five programmatic categories:

1. Street Repaving and Reconstruction (\$148.8 million)
2. Street Structure Rehabilitation and Seismic Improvement (\$7.3 million)
3. Sidewalk Accessibility Improvements (\$22.0 million)
4. Streetscape, Pedestrian and Bicycle Safety Improvements (\$50.0 million)
5. Transit Signal Infrastructure Improvements (\$20.3 million)

This Referral provides review for the bond proposal only and not specific capital projects that may be funded by it. The proposal does not specify which projects will be completed using bond funds. A copy of the "Road Repair and Street Safety Bond Summary Report" is included as **Attachment 1**.

## ENVIRONMENTAL REVIEW

The Department has determined that the proposed General Obligation Bond is exempt under CEQA Guidelines Statutory Exemption Section 15373(a)(4)-Rates, Tolls, Fares and Charges. Individual projects, if funded, would require project-level CEQA environmental clearance.

## GENERAL PLAN COMPLIANCE AND BASIS FOR RECOMMENDATION

The proposed Road Repaving and Street Safety General Obligation Bond is, on balance, in conformity with the intent of the General Plan to provide safe and well-maintained streets and sidewalks. If the Bond is approved and funds for street and sidewalk improvements become available, **some projects will require project-level General Plan referrals**, as required by Section 4.105 of the San Francisco Charter and § 2A.53 of the Administrative Code. Projects may also require Environmental Review and other discretionary actions by the Planning Department.

When specific project(s) are designed, the Department of Public Works (or sponsoring Department) should submit a General Plan Referral application on the specific project(s) to the Planning Department, prior to consideration of and approval of individual projects. We request that the sponsoring City Departments confer with the Planning Department to determine whether individual projects funded by bond are subject to a General Plan Referral, Environmental Review, or other discretionary action by the Planning Department. Any required General Plan Referral applications should be submitted early in the approval process, providing adequate time for Department review, consistent with Section 2A.53 of the Administrative Code.

### EIGHT PRIORITY POLICIES

The proposed project is found to be consistent with the Eight Priority Policies of Planning Code Section 101.1 in that:

1. That existing neighborhood-serving retail uses be preserved and enhanced and future opportunities for resident employment in and ownership of such businesses enhanced.

*The General Obligation Bond would not adversely effect neighborhood serving retail uses or opportunities for employment in or ownership of such businesses. Potential construction impacts associated with any road or repaving work should be minimized as much as possible.*

2. That existing housing and neighborhood character be conserved and protected in order to preserve the cultural and economic diversity of our neighborhood.

*The General Obligation Bond would not have an adverse effect on the City's housing stock or on neighborhood character.*

3. That the City's supply of affordable housing be preserved and enhanced.

*The General Obligation Bond would not adversely impact the City's supply of affordable housing.*

4. That commuter traffic not impede MUNI transit service or overburden our streets or neighborhood parking.

*The General Obligation Bond would not result in commuter traffic impeding Muni's transit service, however, individual Muni lines may be impacted temporarily during street construction work. The bond program would not overburden streets or neighborhood parking. The bond would provide funds for repaving City streets, ADA and safety improvements to streetscapes, sidewalks and curb ramps.*

5. That a diverse economic base be maintained by protecting our industrial and service sectors from displacement due to commercial office development, and that future opportunities for residential employment and ownership in these sectors be enhanced.

*The General Obligation Bond would not adversely affect the industrial or service sectors or future opportunities for resident employment or ownership in these sectors.*

6. That the City achieve the greatest possible preparedness to protect against injury and loss of life in an earthquake.

*The General Obligation Bond would not adversely affect the City's emergency preparedness. Repaving roads and strengthening street structures will provide safe and clear paths for emergency access in the event of a natural disaster. The budget, if funded, would fund seismic improvements to public infrastructure, including public streets and roadways, pedestrian rights-of-way and similar facilities.*

7. That landmarks and historic buildings be preserved.

*The General Obligation Bond would not impact landmarks or historic buildings.*

8. That our parks and open space and their access to sunlight and vistas be protected from development.

*The General Obligation Bond would have no adverse effect on parks and open space or their access to sunlight and vistas.*

<b>RECOMMENDATION:</b> <b>Finding the General Obligation Bond, on balance, in-conformity with the General Plan</b>
--

**Attachments:**

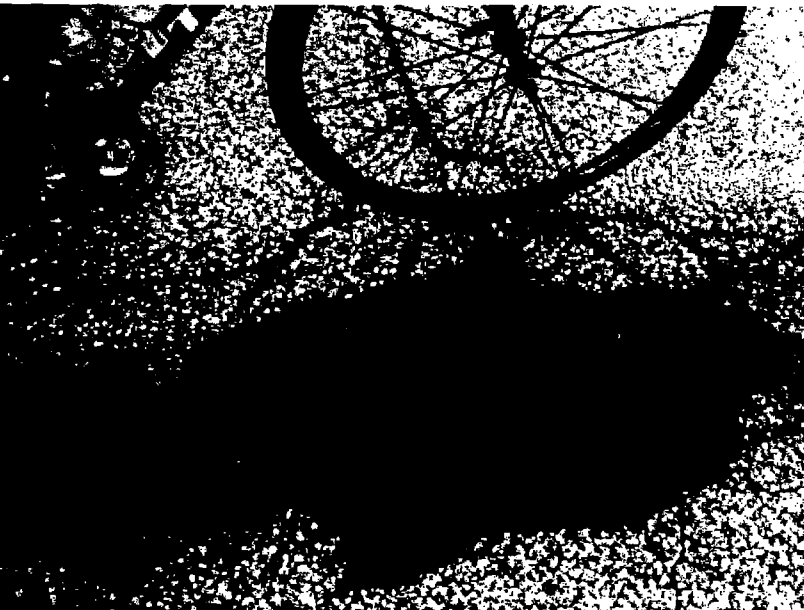
1. 2011 Road Repaving and Street Safety Bond Program Summary Report

**CC:**

Edward D. Reiskin, Director, DPW  
Patrick Rivera, Engineering Bureau Manager, DPW  
Frank Filice, Manager of Capital Planning, DPW  
Simone Jacques, Transportation Finance Analyst, DPW  
Jon Swae, Planning Department



## 2011 Road Repaving and Street Safety Bond



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## Executive Summary

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Safe, accessible, and well-maintained infrastructure is at the very core of services a city provides to its residents. Whether you walk, take public transit, bike, or drive; people rely on a safe, smooth, and accessible route to travel to and from work, to school or to their local shopping corridor, everyday. San Francisco's Ten-year Capital Plan proposes a General Obligation Bond this November to infuse one-time capital funds into critical infrastructure and safety improvements to the City's streets, bikeways, sidewalks, curb ramps, crosswalks, bridges, tunnels and stairways. While repaving a street and building a curb ramp is important, it is also important to modernize and improve street design to better accommodate all of the ways that today's citizens utilize street space. Streetscape improvements will better integrate the needs of pedestrians and bicyclists, with those of motorists and transit-riders, to create a public realm that encourages universal use of the street and prioritizes safety for all modes of travel. More than half of the streets in the City have deteriorated to the point where they require reconstruction; which is five times more costly. To control these costs now and avoid paying more to make these repairs in the future, the City's Capital Planning Committee recommends that the Mayor and Board of Supervisors place a \$ 248 million Road Repaving and Street Safety General Obligation Bond on the November 2011 ballot. The proposed Bond will:

- Repave deteriorated City streets
- Reduce potholes, which can cost Bay Area motorists \$706 annually in car repairs<sup>1</sup> and are dangerous for cyclists
- Seismically strengthen street structures such as bridges, stairways and tunnels
- Install curb ramps and reconstruct sidewalks to meet the City's goal to provide equal access in accordance with the Americans with Disabilities Act (ADA)
- Redesign streetscapes to improve safety pedestrian and bicycle safety, contribute to ecological sustainability, and promote economic activity
- Upgrade traffic, pedestrian, and transit signals and provide other safety features that speed traffic flow and decrease congestion
- Create approximately 1,600 jobs in San Francisco
- NOT raise taxes for San Francisco homeowners



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<sup>1</sup> Hold the Wheel Steady: America's Roughest Rides and Strategies to Make our Roads Smoother, TRIP, 2010.

The 2011 Road Repaving and Street Safety Bond proposal features:

- **\$148.8 million for Street Repaving and Reconstruction.** The funds will be allocated for slurry sealing, repaving, repair, and reconstruction and new construction of approximately 2,540 street segments. Streets will be selected based on criteria that include street condition score, type of street and usage frequency, coordination and clearance with utility companies and other City agencies, geographic location, and complaints.
- **\$ 7.3 million for Street Structure Rehabilitation and Seismic Improvement.** There are over 100 City maintained street structures (bridges, tunnels, viaducts, retaining walls, and stairways) that require repairs and improvements. This bond will rehabilitate and seismically strengthen some of these street structures and ensure that they are safe to use.
- **\$ 22.0 million for Sidewalk and Accessibility Improvements.** San Francisco is obligated to provide safe and accessible paths of travel for pedestrians; specifically those with disabilities. This bond ensures the City continues to implement the *American with Disabilities Act Transition Plan for Curb Ramps and Sidewalks* to meet its legal obligation. \$14 million will help build approximately 1,900 curb ramps and \$8 million will repair and improve approximately 125,000 square feet of sidewalk maintained by the City.
- **\$ 50.0 million for Streetscape, Pedestrian and Bicycle Safety Improvements.** This bond will allow the City to modernize streets to include universal street design and important safety components to make streets more functional, such as: separated bicycle lanes and bike amenities, pedestrian lighting and countdown signals, curb bulb-outs, tree planting, landscaping, and stormwater management features that reduce sewer overflows and improve the ecological role of the street.
- **\$ 20.3 million for Transit Signal Infrastructure Improvements.** The bond funds will be used to rehabilitate existing traffic signal street infrastructure and allow for transit signal priority along key Muni routes, improving transit efficiency and relieving traffic congestion.

The 2011 Road Repaving and Street Safety Bond will adhere to strict accountability measures, including:

- Compliance with the City's policy to constrain property tax rates at or below 2006 levels
- Prioritizing of projects based on objective and transparent selection criteria
- A dedicated web page that will list project schedules, scope and budgets
- Public hearings before the Capital Planning Committee and the Citizens' General Obligation Bond Oversight Committee (CGOBOC). The CGOBOC can stop future bond sales

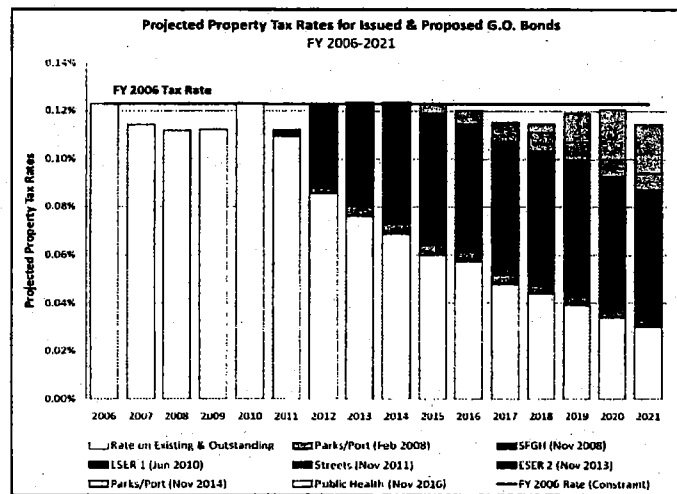


- if the funds are not spent in accordance with the express will of the voters
- Annual reports submitted to the Mayor and Board of Supervisors by CGOBOC.

**City & County of San Francisco Ten-Year Capital Plan (FY2012-2021)**

The City & County of San Francisco’s Capital Plan is a ten-year constrained expenditure plan for city-owned facilities and infrastructure. The document is developed biennially and enables policymakers to make strategic decisions about how to fund maintenance, expansion and replacement of capital assets. First adopted by the Mayor and Board of Supervisors in 2005, the Ten-year Capital Plan prioritizes basic, critical capital projects that impact the public’s safety and well being; places strong emphasis on accountability and transparency; and most importantly demonstrates the highest levels of fiscal restraint and responsibility.

The Capital Plan recommends the 2011 Road Repaving and Street Safety Bond as part of a citywide debt issuance strategy to address critical capital improvement needs. To ensure that new general obligation bond debt does not increase property tax rates above 2006 levels, the City only sells new bonds as old bonds are repaid.



## Proposed \$ 248 Million Bond Program Summary

The proposed \$248 million bond allocates funds for streets and right-of-way capital programs over the next three years. Program descriptions, including estimated costs and anticipated funding over and above this bond are detailed in subsequent programmatic sections of the report.

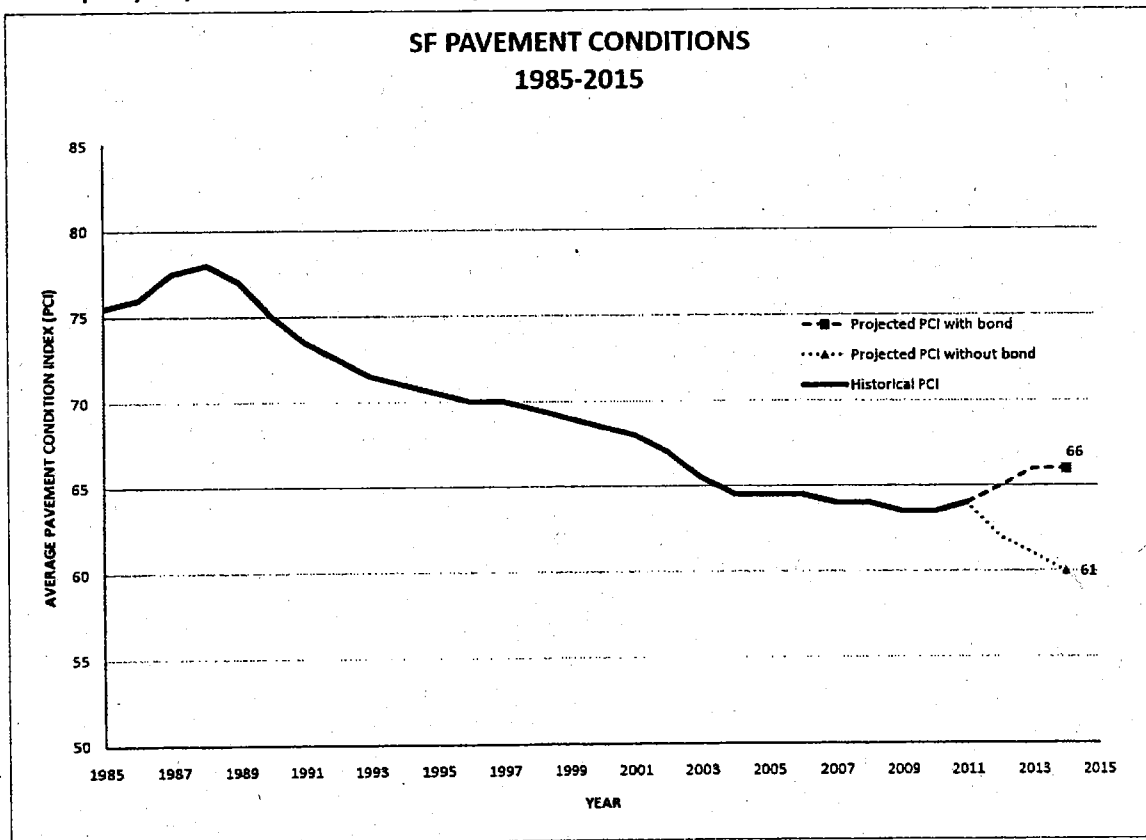
<b>\$248 GO Bond Proposed Budget (\$ in millions)</b>			
<b>Program</b>	<b>Project Costs</b>	<b>Audit, oversight and issuance</b>	<b>Total Bond</b>
<b>Street Repaving and Reconstruction</b>	<b>146.3</b>	<b>2.1</b>	<b>148.8</b>
<b>Sidewalk Accessibility Improvements (<i>Curb Ramps and Sidewalks</i>)</b>	<b>21.7</b>	<b>0.3</b>	<b>22.0</b>
<b>Street Structures Rehabilitation</b>	<b>7.2</b>	<b>0.1</b>	<b>7.3</b>
<b>Streetscape, Pedestrian, and Bicycle Safety Improvements</b>	<b>49.3</b>	<b>0.7</b>	<b>50.0</b>
<b>Transit Street Signal Infrastructure</b>	<b>20.0</b>	<b>0.3</b>	<b>20.3</b>
<b>Total</b>	<b>244.5</b>	<b>3.5</b>	<b>248.0</b>

# Street Repaving and Reconstruction

## A. Background

Streets connect people to jobs, hospitals, shopping centers, transit; places that are vital to our day-to-day way of life. Providing smooth and pothole-free streets is essential to reducing the costs of road induced damage and preventing accidents for bicyclists and drivers who must swerve to avoid dangerous spots in the road. The City is responsible for maintaining approximately 865 miles of streets and roadways comprising of 12,855 street segments. Currently, the statewide average Pavement Condition Index (PCI) score is 66, while here in San Francisco, the PCI is 64. The condition of our streets is at a critical juncture. If we do not invest in improving the PCI score, costs will skyrocket, street degradation will continue, and the backlog of streets needing reconstruction will grow exponentially. Delaying these investments now will significantly increase the costs to make these improvements in the future.

Under this bond, the City will invest \$65.5 million (increasing 5% with inflation each year) annually in street repaving, getting us on track to improve the PCI to 66 by 2015. If funding is stabilized at this level for the subsequent seven years, the PCI will improve to 70 by 2021. If the bond does not pass, and the City has to rely on projected funding sources which average \$26 million per year, the PCI will fall to 61 by 2015 and to 55 in ten years.



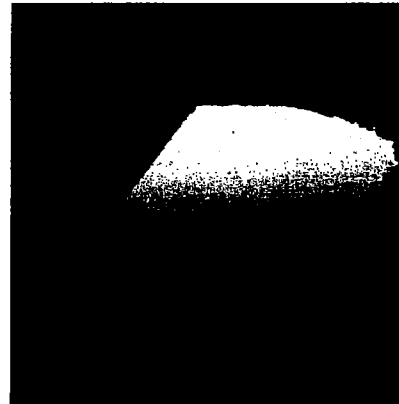
## **B. Program Description**

### **Causes of Pavement Deterioration**

The City's roadway system is complex and streets deteriorate over time. However, three major factors can accelerate deterioration:



1. **Heavy wear and tear** – In San Francisco, streets and roads have an average useful life of 14 to 21 years. However, a street's lifecycle depends on how heavily that street is used, particularly by heavy buses and trucks. For example, a street with heavy traffic can deteriorate seven years sooner than a street that carries lighter traffic.
2. **Excavation** – Underneath our streets exist a vast network of underground utility lines; pipes and cables. Each time one of these utility lines or services needs repair or replacement; utility companies must cut a trench in the pavement, leaving a vulnerable spot in the street. Over time these vulnerable spots in the street can reduce the life span of the street.
3. **Deferred work** – Without adequate funding in place, work that is needed will be deferred. This increases the occurrence of street degradation, including potholes, and greatly increases the cost of repairing that street in the future.



### **Pavement Management Strategy and Treatment**

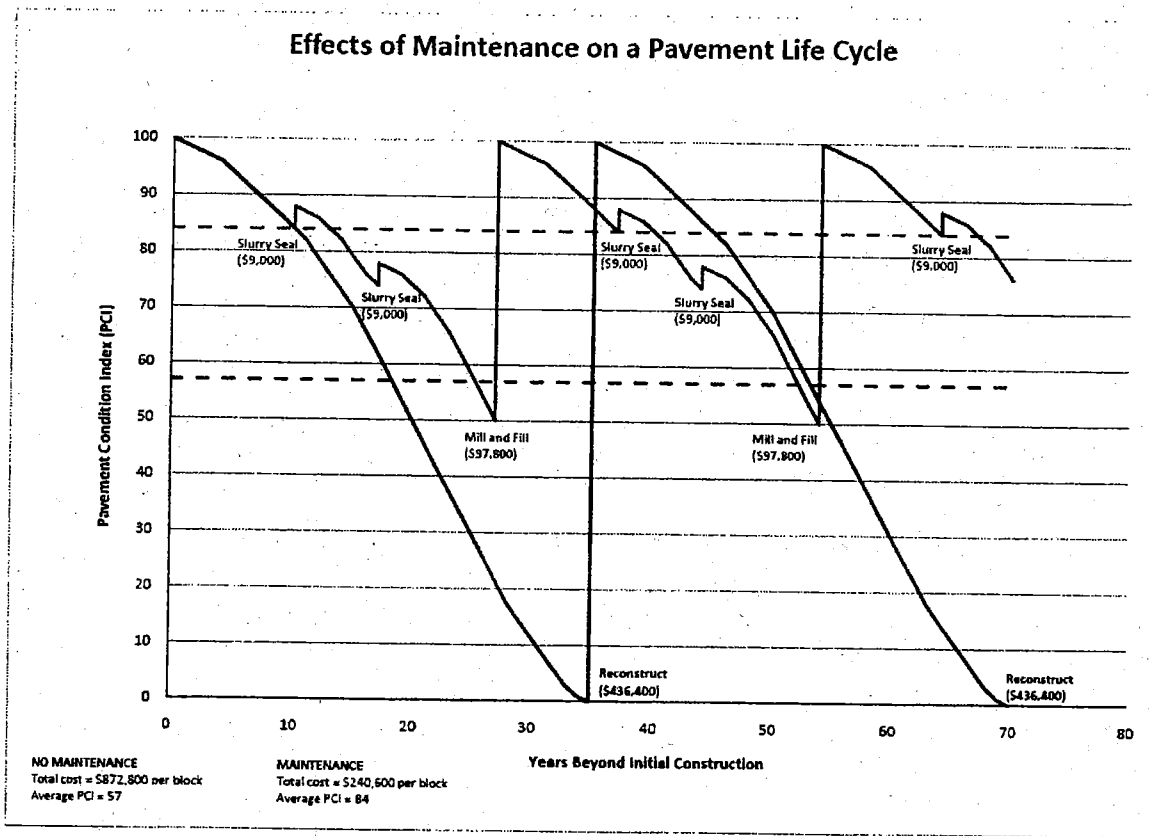
To track the impact of wear, erosion, and age on each street segment, the City uses a Pavement Management and Mapping System (PMMS). This system assesses street deterioration by establishing a rating for each street segment based on a visual survey done by DPW engineers. Each segment is evaluated based on ride quality, cracking, and raveling of the roadway. The ratings are used to create a Pavement Condition Index (PCI) score for each street segment using a scale of 0 –the worst score– to 100 –a freshly paved street. Refer to Map 1 for an overview of the City's streets by PCI score.

The table below summarizes the current condition of the City's streets, required pavement treatment and the cost for the associated PCI range.

% of SF Streets	PCI Score	Treatment	Average Cost/Block
19%	85 – 100 "excellent"	No improvement needed	\$0
30%	64 – 84 "good"	<u>Pavement preservation</u> – slurry sealing or crack sealing to extend life of street	\$9,000
28%	50 – 63 "fair"	<u>Repave</u> - grind off and replace the top two inches of asphalt	\$97,800
23%	0 – 49 "poor"	<u>Reconstruction</u> - reconstruct the street including concrete base and top layer of asphalt	\$436,400
		<u>Resurface with base repair</u> - grind off and replace the top two inches of asphalt and complete localized repairs to the concrete base	\$140,000

The most cost-effective pavement management strategy is to preserve streets in good condition instead of letting them deteriorate. The lower the PCI score, the more expensive it is to fix. While new pavements generally remain in good-to-excellent condition for several years with little or no upkeep, the rate of deterioration increases rapidly after 7-20 years, depending on the type and use of the street. By reducing the frequency of asset replacement, research shows that preservation treatments can increase the life-cycle and reduce the cost by 75-90 percent.

The figure below illustrates potential cost savings that can be realized through the proper application cycle in order to preserve and extend the life of a street. If the appropriate treatment is applied in a timely manner, a street with a PCI starting at 100 could be maintained over the course of two life cycles for an average cost of \$240,600 per block and yield a "very good" average PCI score of 84. If this methodology is not followed and a street is allowed to reach a point where reconstruction is required, the cost more than triples to \$872,800 and results in an "at-risk" average PCI score of 57.



Roadway resurfacing work under this bond may include, but will not be limited to:

- Pavement preservation treatments to extend the life of the street
- Mill and fill asphalt surface over concrete base; perform repairs to the concrete base
- Reconstruct concrete streets
- Replace concrete parking strip, and concrete medians
- Replace concrete bus pads
- Replace concrete curb edge
- Reconstruct concrete sidewalk
- Reconstruct concrete curb ramps with detectable surface tiles
- Traffic routing, adjusting City-owned manhole frames and covers, castings, and catch basin frames and gratings to grade related to paving and reconstruction projects



### **C. Criteria for project selection**

The City will develop a yearly priority list of candidates cross referenced to the Five-year Excavation Plan. This plan is a schedule of anticipated street excavations coordinated through monthly meetings of the Committee of Utility Liaison Coordination of Projects (CULCOP). The CULCOP meetings bring City agencies together with private utilities to present projects, discuss conflicts, and coordinate joint opportunities. This synchronization improves the planning process, minimizes disruption to the neighborhood and public transit, and protects newly resurfaced roadways. Through the five-year plan, the City imposes a five-year moratorium on excavation by utility companies and other agencies on newly resurfaced streets.

Once a street is cleared for all public and private utility work, the City can determine the type of treatment needed and program the street for paving. This bond proposes to slurry seal, repave or reconstruct approximately 2,525 street segments. Street resurfacing improvements will be equitably distributed among the various neighborhoods and commercial districts throughout the City. Repairs will be implemented along contiguous blocks to ensure cost efficiency.



The street repaving program will prioritize projects using the following criteria:

- **Multi-modal Routes**  
Project lists will be divided and categorized by the mode of traffic it carries (MUNI routes, bicycle routes, MUNI and bicycle routes, or a non-MUNI/bicycle route). Streets with high volumes of transit and bicycle traffic will receive priority for consideration. The City will collaborate with other agencies and community organizations to determine how routes within the bike network are selected and prioritized.
- **PCI Score**  
The PMMS generates a list of accepted<sup>2</sup> streets that have PCI scores of 84 and below. These streets are then categorized as either requiring preservation treatment (PCI 64 - 84), or requiring pavement renovation—resurfacing or reconstruction (PCI 63 and below). (Refer to Map 1).
- **Functional Classification**

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<sup>2</sup> Streets that are formally “accepted” for maintenance through ordinance of the Board of Supervisors.

The list of streets generated by PMMS divided by treatment type: a) preservation and b) pavement renovation are then sorted by mode and functional classification. Grouping streets by function helps understand the nature of how a street is used. Arterials and collectors, carry heavy to moderate bike, car, and transit traffic in and around the City; while local streets, carry low volume residential traffic. The City will work with other agencies and community organizations to create an objective prioritization criteria for routes within the bike network.

- **Project Readiness/ Coordination with Utility Companies and City Agencies**  
Project readiness is primarily dependent upon utility clearances. If a paving project is being coordinated with another agency, the project is reliant upon the schedule of each varied element. To maximize use of bond dollars, priority will be given to projects that have utility clearances. Those projects that are jointly coordinated with other agencies must synchronize with the paving project schedule to facilitate prompt use of bond funds.
- **Equitable Distribution Across the City**  
Geographic equity is monitored to ensure that paving projects are distributed to all parts of the City. Based on the estimated number of street segments to be paved, each of the City's neighborhoods and commercial districts will receive an equitable distribution over a five year rolling duration. The distribution is based on the functional class inventory and PCI score as it relates to the overall city network.
- **Complaints**  
When the City receives complaints from the public regarding paving issues, engineers follow a protocol to investigate, evaluate and make recommendations. If the street is found to be in need of repaving and meets requirements for a paving candidate, priority for resurfacing is considered. The street is verified against the Five-year Plan for conflicts and/or joint opportunities. If there are no utility conflicts, the street may be programmed for the earliest available paving date.

#### **D. Estimated costs and funding**

##### **Annual Need and Deferred Backlog**

There are two important aspects of the Street Repaving Program with respect to financial need: the annual need and the backlog. The estimated annual need is the City's cost to maintain current conditions. At present, the City's average PCI score is 64. Maintaining streets at this level over the next ten years requires an investment of \$50 million per year, increasing approximately 5 percent per year in the future.

To increase the average PCI score to 70 after ten years, the City would need to appropriate \$65.5 million annually (increasing 5% per year). Over the last five years, the budget for street resurfacing has averaged \$42 million annually, which is \$23.5 million less than what is needed to improve pavement condition. This shortfall has produced backlog of streets in need of repair.





repaving. Beginning in FY 2011-12, funding to repair and repave San Francisco streets is expected to drop from prior years. On average, the City will receive \$26 million per year over the next ten years, a \$16 million reduction from average revenues over the past five years, and a \$39.5 million shortfall if we aim to improve the PCI to 70 in ten years. The following sections detail the projected revenue sources over the next few years.

#### *Federal*

September 30, 2009 was the official expiration date of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-Lu). Signed in 2005, the transportation authorization bill provided \$15.5 million in Surface Transportation Program funds for San Francisco streets and road projects. Since 2009, Congress has approved six extensions of the funding bill, and a new authorization bill may be drafted for consideration later this year. Although the contents of the new re-authorization bill are unknown, DPW does not expect the bill to provide greater levels of funding than SAFETEA-Lu. Therefore the annual estimated federal contribution is maintained at \$2.5 million per year for the next ten years. Additional one time sources such as the 2009 American Recovery and Reinvestment Act that provided \$13.54 million for the repaving of San Francisco street and road projects are unlikely.

#### *State*

In March 2010, AB 6 eliminated the sales tax on fuel and replaced it with a 17.3 cent excise tax on gas. This replacement tax is expected to provide an average of \$17.5 million per year for street resurfacing over the next 10 years.

Proposition 1B, the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006, was passed by the voters of California in November of 2006. The act authorized the sale of \$20 billion in bond debt to finance transportation projects within the State. Specifically, the bond money was available for expenditure by various state agencies and for grants to local agencies and transit operators upon appropriation by the Legislature. In total, the bond allocated \$2 billion to repair and rehabilitate local streets and roads; of that amount, \$40 million was anticipated for San Francisco over a period of 10 years. The State accelerated the distribution of funds, allocating more than \$1 billion over three years. To-date San Francisco has received all expected allocations of Proposition 1B funds totaling \$39.4 million; exhausting this funding source.

#### *Local*

The Proposition K Expenditure Plan included \$135 million for street resurfacing over a 30-year period or \$4.5 million annually. However, in the transition from Proposition B—which allocated an average of \$15 million annually—to Proposition K, the Transportation Authority adopted a spending plan that accelerated allocations of Prop K from FY 2005-06 through FY 2007-08. In FY 2008-09 the funding dropped to approximately \$3 million annually and is expected to phase out by 2024, ten years before the end of the sales tax.

In November 2010, voters approved Proposition AA, a local Vehicle License Fee dedicated to funding local road repairs, pedestrian safety improvements, and transit reliability

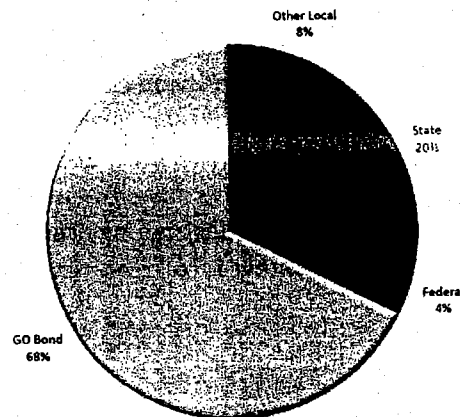
improvements throughout the City. The expenditure plan sets aside 50% of the funds for street resurfacing with an emphasis on coordinated complete street efforts. Annually, the fee will yield \$2.5 million for street resurfacing beginning in FY 2011/12.

### Funding summary

Over the next three years, the City projects a total of \$216.6 million is needed be on a trajectory toward improving the street pavement score to 70 (from 64) in 10 years. A dedicated funding source would be required to continue funding streets at this level. Based on the recommendations of the Street Resurfacing Finance Working group, the City will develop a plan for sustainably funding street capital improvements beyond the term of this proposed bond. The ten-year Capital Plan summarizes the four most viable options:

- vehicle license fee (requires passage of SB 223 proposed by State Senator Mark Leno);
- conditional general tax (e.g. business, sales, utility users tax) that could only be collected if the City spent a certain dollar threshold in the previous year on repaving;
- citywide benefit assessment district based on the boundaries of a proposed district;
- parcel tax, potentially based on vehicle trip generation.

Street Resurfacing  
Anticipated Funding Sources



The proposed bond allocation of \$148.4 million (includes \$2.1 million for issuance and oversight) combined with projected sources of \$70.2 million will aid in preserving, repaving, constructing or reconstructing over 2,525 street segments therefore improving the PCI from 64 to 66, after three years.

# Sidewalk Accessibility Improvements

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## Curb Ramp Improvements

### A. Background

San Francisco is committed to full and fair access for people with disabilities in addition to those that use wheelchairs, walkers, canes, scooters, and parents that use strollers so that they can get to work, the store, to medical appointments, public transportations, schools, parks, and to visit family and friends safely.



The law requires that the City provide curb ramps to make the public right-of-way accessible. Regardless of this legal requirement, our City wants and needs to make this investment in order to protect the safety of people with disabilities and to create a pedestrian environment that is welcoming to everyone. Under the bond proposal, approximately 1,767 curb ramps will be designed and constructed.

### *Legal Requirements*

San Francisco, along with all local jurisdictions, is required under the Americans with Disabilities (ADA) Plan to develop a plan for accessibility of its public rights-of-way. The ADA requires cities to survey their public rights-of-way, develop a plan for completion of required curb ramps, identify funding and develop a construction schedule.



*Steiner & Grove before*



*Steiner & Grove after*

San Francisco has created such a plan, the "ADA Transition Plan for Curb Ramps and Sidewalks." The plan is an aggressive, but realistic approach to ensure access to the City's sidewalks. While eventually, every corner in the City will have a curb ramp, the Plan creates a detailed priority scheme so that resources will first go to the areas where curb ramps are needed most. The ADA Transition Plan incorporates feedback from residents with disabilities to prioritize curb ramp repair and reconstruction around transit stops, local stores, work locations, and schools.

The Rehabilitation Act of 1973, Section 504, was the first law to require that curb ramps be included in any public right-of-way project receiving Federal funds. The Americans with Disabilities Act of 1990, (ADA) recognizing the crucial importance of the public path of travel, specifically requires the construction of curb ramps in the public rights-of-way. At 28 CFR 35.150 the ADA implementing regulations require that:

*"If a public entity has responsibility or authority over streets, roads, or walkways, its transition plan shall include a schedule for providing curb ramps or other sloped areas where pedestrian walks cross curbs, giving priority to walkways serving entities covered by the Act, including State and local government offices and facilities, transportation, places of public accommodation, and employers, followed by walkways serving other areas."*

## **B. Program Description**



Curb ramps are an essential link in the public path of travel. For people with disabilities, many seniors, parents with strollers, and others, curb ramps provide safe navigation over public street intersections and sidewalks. Curb ramps are also key to the full social integration of people with mobility disabilities and people who are blind or have low-vision. Accessible walkways allow people with disabilities to be independent, and fully integrate both socially and professionally. For people with disabilities, being able to move around the City

independently reduces social isolation and dependence on expensive services such as Paratransit.

San Francisco has been building curb ramps for years; however many of the City's corners still lack curb ramps. Some of the existing ramps are too old, too steep, or too narrow, and others are in disrepair. The inventory indicates that we need to build 22,959 ramps at approximately at various locations throughout the City. (Refer to Map 2). The total cost to build 22,959 ramps is \$177 million. Although many of the ramps will be built through paving, sewer, or private development projects; some will need to be constructed as standalone curb ramp projects. This ensures that a full and navigable path of travel is accessible to everyone who needs it.

Design and construction of approximately 1,767 curb ramps will be completed at various locations throughout the City. Work may include, but will not be limited to:

- Design engineering of curb ramps
- Construction of curb ramps
- Related work needed to bring the curb ramp to current standards, which may include reconstruction of concrete gutters, curbs and parking strips; relocation or adjustment of utility poles, utility pull boxes, castings, relocation or construction of sewer catch basins and reconstruction of adjacent sidewalks.

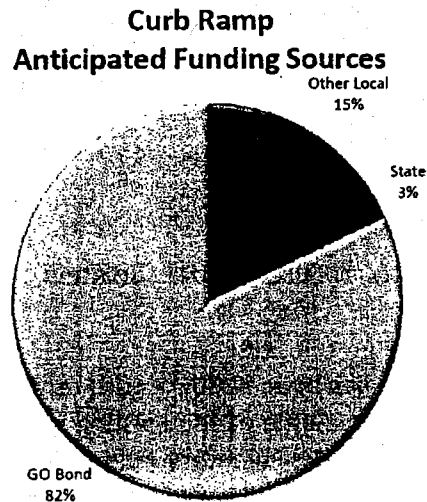
### C. Criteria for project selection

The City prioritizes the curb ramp locations according to guidelines established under the Americans with Disabilities Act. The top priorities are locations that residents with disabilities have identified as curb ramps they need in order to safely get to transit stops, civic buildings, or work areas. Once these locations have been addressed, the City will install curb ramps in areas serving civic buildings, transportation routes, and commercial areas. (Within those categories, there are also priorities according to whether a corner has no ramp, an old, non-functioning curb ramp, or a single curb ramp.)

The DPW ADA/Disability Access Coordinator and the Mayor's Office on Disability will review and prioritize new curb ramp requests consistent with these priorities and with the City's ADA Transition Plan for Curb Ramps and Sidewalks.

### D. Estimated Costs and Funding

The City estimates that a total of \$17.6 million is needed over the next three years to address complaint driven curb ramp construction and repair. DPW estimates that approximate funding from state and local sources over that time will total \$3.8 million. The proposed bond would provide \$14 million for curb ramp projects, including \$0.2 million for issuance and oversight.



## **Sidewalk Replacement and Improvement**

### **A. Background**

Just like streets, the 5,000 blocks of sidewalk are an important part of the City's infrastructure; providing paths of travel for people to get around, to and from their destinations every day. A broken or buckling sidewalk can be hazardous to public safety and can cause barriers for people with mobility and vision deficiencies. Based on existing inspections and complaints, the amount of broken and buckled sidewalks around City maintained trees and properties, is significant. In San Francisco, both property owners and the City are responsible for repairing the sidewalk fronting their properties. Under this bond proposal, funding will be allocated toward fixing sidewalks that are the responsibility of the City.

### **B. Program Description**

#### *Sidewalk Inspection and Repair Program*

Consistent with San Francisco's ADA Transition Plan for Curb Ramps and Sidewalks, the Sidewalk Inspection and Repair (SIRP) is a proactive approach to inspect and repair sidewalks. Each year, the SIRP inspects and improves 200 square blocks of the City's most heavily traveled sidewalks, ensuring that the City's 5,000 plus street segments are inspected on a 25-year cycle, the recommended industry standard.

The SIRP helps property owners, private businesses, and City agencies comply with local and state mandates to provide accessible thoroughways. Prior to inspecting, the City reaches out to the property owners to inform them of their legal responsibilities and explain the proper way to maintain and repair the sidewalk in front of their property. After the initial outreach, inspections are performed and notices are sent to property owners who have damaged sidewalks. These property owners are provided an opportunity to discuss the amount of damage they are responsible to repair at a DPW Departmental Hearing. In addition, utility agencies and other public agencies receive a similar notice to make repairs. Funding for private property or public agency sidewalk reconstruction comes from the responsible party either through direct payment or special property tax assessment bills.

Through the proactive SIRP, the proposed bond will repair to 75,000 square feet of damaged sidewalk that are the responsibility of the City, and maintained by DPW.



*Cracked and buckled sidewalk*



*Repaired sidewalk*

**Accelerated Sidewalk Abatement Program**

This year, the City will implement a new program to address complaints on public and private properties outside of the SIRP areas, which are limited to a specific subset of blocks each year. The Accelerated Sidewalk Abatement Program (ASAP) will inspect specific locations referred through complaints and issue notices to those responsible. If the public agency or property owner does not promptly repair the sidewalk, the City will automatically conduct the repair and charge the cost of inspection and abatement to the responsible party.



Through ASAP, the proposed bond will fund the repair of damaged sidewalks around City maintained street trees, brick sidewalks, schools, City, state, & federal buildings, and other public lands. DPW estimates that a total of 50,000 square feet of damaged public sidewalks will be repaired through ASAP.

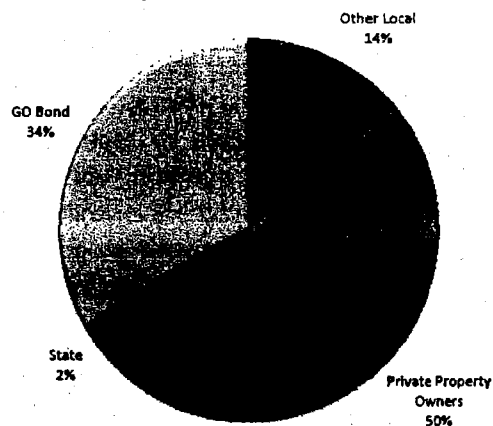
**C. Criteria for project selection**

In accordance with Title II of the ADA, high priorities for repair will include locations around State and local government buildings, schools, hospitals, commercial corridors, MUNI routes, and key walkways that link neighborhoods to transportation and commerce. The project list will be based on the following criteria: 1) accidents/claims; 2) level of pedestrian use and presence of public facilities; 3) condition of sidewalk and extent of damaged area and 4) complaints. The SIRP program will annually inspect and make necessary repairs to 200 blocks per year based on pedestrian usage and geographic equity. (Refer to Map 3).

**Estimated cost and funding**

The Capital Plan estimates that over the next three years, the cost to inspect and repair City responsibility sidewalks through SIRP and ASAP will be \$21.9 million. Approximately \$ 14 million will be funded by private property owners, local and state sources. The proposed bond will allocate \$8.0 million (including \$0.1 million for issuance and oversight) to replace approximately 125,000 square feet of public responsibility sidewalks.

**Sidewalk Repair  
Anticipated Funding Sources**

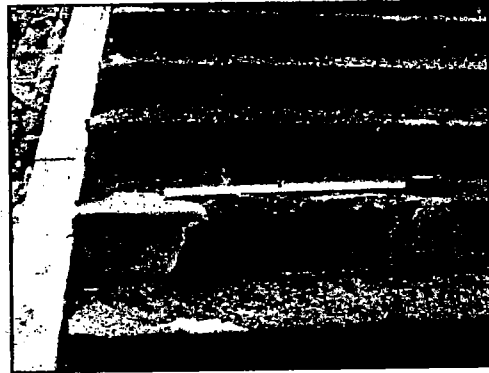




# Street Structure Rehabilitation and Strengthening

## A. Background

The City maintains over 300 street structures including stairways, retaining walls, pedestrian and vehicular bridges, viaducts and tunnels. This network of structures is critical to providing bicycle, pedestrian, vehicle and transit access to the City's larger street and roadway system.



In order to assure safe use of these structures, timely repairs are required to prevent further deterioration and any threat to public safety.

Although the City has performed seismic retrofits of bridges, pedestrian overpasses and viaducts in recent years, many other street structures still need significant improvement.

## B. Program Description

The City, under the jurisdiction of DPW, has an on-going program to identify repairs needed on the 307 City street structures maintained by DPW (Refer to Map 2). Out of the 307 City-maintained structures, approximately 100 have been identified for rehabilitation. These street structures are used by the public every day. Consequently, failure to correct these deficiencies increases the risk to public safety.

Funding from the bond may be used to repair or replace the following:

- cracked/spalled concrete and exposed steel reinforcement
- structural movement, including tilting, settlement, and damaged construction joints
- deteriorated and damaged concrete and metal railings
- structure lighting improvements
- mechanical and electrical equipment repair and stabilization of bridges and tunnels
- structural deficiencies on City maintained bridges and street structures



Failure to correct these conditions will increase the City's exposure to liability and result in additional costs when corrective actions are no longer discretionary, but immediately required.

The proposed bond funds allocated to street structures may also provide a match to supplement other financing, such as federal or state grants and private gifts, which often require matching local funds.

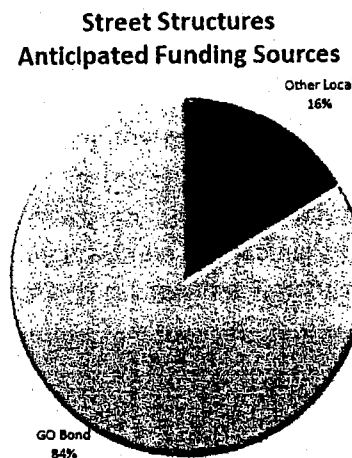
## C. Criteria for project selection

The City developed a methodology and set of criteria to prioritize structural repairs and will utilize this scoring to set strategic priorities across various structure types. Street structures will be selected based on structural assessment scores, which range from 0 to 100; a 0 representing the worst condition and a 100 representing a structure in perfect condition. Scores will be developed using the following criteria:

1. Is the structure on the City emergency priority routes network and will failure inhibit access in the event of an emergency or major disaster?
2. Life and Safety: Does the structure pose any imminent life and safety hazard?
3. Trip & Slip Hazard: Does the structure present a tripping hazard, have a slippery surface, or have corrosion or exposed steel that could present a danger to pedestrians?
4. Code Violations: Does the structure have missing or non-conforming hand rails or guardrails; does the stairway's rise and run conform to code requirement?
5. Slope Instability Potential: Are there signs of distress, movement, settlement or undermining of the foundation.
6. Level of deterioration: Is the asset structurally deficient and at a critical point for repair?
7. Usage frequency: How often is the structure used?
8. Consideration of alternative ingress/egress routes: Is this the only means of access?

#### D. Estimated Cost and Funding

The estimated need for street structure inspection, repair and replacement over the next three years is \$8.1 million. The inspection work will be funded by general funds totaling \$900,000. The bond will provide \$7.3 million which will meet the unfunded need of \$7.2 million as well as provide for bond issuance and oversight costs of \$0.1 million.

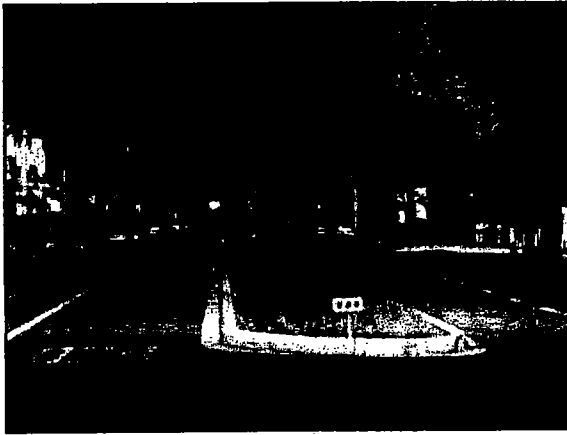


## Streetscape, Pedestrian and Bicycle Safety Improvements

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### A. Background

Streets make up approximately 25 percent of San Francisco's land area, more space than is found in the city's parks. While improvements to the driving surface are important to moving



*Example "complete street" provides street greening as well as dedicated lanes for bikes and vehicles*

people safely and efficiently, so is the quality of the sidewalk area for pedestrians. As one of the Bay Area's oldest cities, San Francisco's infrastructure has not been upgraded to accommodate increased street usage by pedestrians and bicyclists. San Francisco must modernize street design to completely incorporate the needs of pedestrians and bicyclists, people with disabilities as well as car and transit traffic. Each neighborhood in San Francisco is unique; streetscape improvements include a range of safety and greening features customized for that particular environment—maximizing the use of public space.

Improved and enhanced streetscapes will provide a wide range of benefits, including:

- Decreasing the likelihood of pedestrian injuries and fatalities: Streets that are designed with the safety of pedestrians and cyclists in mind will decrease the likelihood of pedestrian, bike, and auto collisions.
- Increasing accessibility for all street users: Streets and sidewalks must have a clear, accessible path of travel and are free from barriers and obstructions will increase convenience for all users regardless of travel-mode.
- Supporting a transit-first city: Every transit trip begins and ends with a walking trip. Well-designed streets that are safe for pedestrians, have amenities that people need, and connect to important transit lines will encourage greater use of public transit.
- Promoting public safety: Streets that are active will enhance residents' sense of safety and security from crime and violence.
- Minimizing the impact of global climate change and local air pollution: Streets that are designed to promote and encourage walking, cycling, and transit use will help to minimize San Francisco's contribution to global climate change, and reduce local air pollution.

- **Minimizing sewer/stormwater overflows into the Bay:** Streets can be designed such that they detain a certain percentage of water during big storms. This helps reduce overflows of the City's combined stormwater and sewer infrastructure into the bay, and also reduces local flooding problems.
- **Supporting the City's local shopping districts and small businesses:** A street system that encourages people to walk to neighborhood commercial districts rather than drive to regional shopping centers for their daily needs helps to support the small commercial areas and small businesses that make up an important part of San Francisco's character.
- **Providing new open space in areas that do not have access to parks or waterfront:** As San Francisco's population grows and infill development continues; there is an increasing need to balance this growth and preserve open space. The existing right of way can be activated to create new green spaces and facilitate connections to existing open space, particularly for underserved communities that currently lack access to these resources.



*Broadway and Montgomery before*

- **Retaining families in San Francisco:** Streets that are safe from fast-moving traffic, are clean and well-maintained, and have spaces for neighbors to gather or children to play will help to retain families in San Francisco, much like affordable housing or good public schools will do the same.
- **Supporting neighborliness, civic interaction, and identity:** Cities depend on peaceful social interactions of colleagues, neighbors, and individuals who share a collective identity and pride as the residents of a place. Well-designed streets that include places to sit, stop, gather, and play create space for this interaction to take place.
- **Enhancing the everyday quality of life for San Francisco's residents and beautifying neighborhoods:** Above all, a well-designed street system will enhance the livability—pleasant places to stroll or sit, opportunities for neighborly interaction, freedom from excessive noise and



*Broadway and Montgomery after*

pollution, and a green, attractive cityscape—for San Francisco's residents.

### **B. Program Description**

Between 2000 and 2005, San Francisco implemented few major streetscape improvement projects. Recognizing a need and regional prioritization of comprehensive public realm improvements, the Great Streets Program was created in 2005. Since its inception, the program has implemented six capital streetscape improvement projects throughout the City: San Bruno Avenue, Valencia Street, Leland Avenue, Polk Street, Divisadero Street, and Van Ness Avenue.



*Mendell Plaza before*



*Mendell Plaza after*

To build upon the important work of the Great Streets Program, the proposed bond will fund the next phase of streetscape improvement projects. Streetscape improvements can vary from simple plantings on street medians to the complete revitalization of the street, site furnishings, landscaping and infrastructure. As such, project costs can range between \$55,000 per block to \$2,000,000 per block. A streetscape improvement project may include one or several of the following elements:

- Sidewalk extension – Increase the usable sidewalk space for pedestrians and greening
- Bulb-out – shorten the street crossing distance and provide visibility for pedestrian safety
- Crosswalk treatment – Highlight pedestrian crossing areas for pedestrian safety
- Pedestrian countdown signals/lighting – Install pedestrian countdown signals and pedestrian upgrade lighting for energy efficiency and safety
- Utility undergrounding—Remove visible utility overhead service wires and poles and install conduits underground to connect services to homes
- Street tree planting – Provide traffic calming and ecological benefits
- Roadway median expansion and/or planting – provide traffic calming and ecological benefits
- Sidewalk and roadway lighting— Improve and upgrade street lighting for safety and energy efficiency
- Bicycle improvements – Separated bicycle lanes, bicycle racks or other amenities to improve bicycle conditions
- Public art elements – Create a sense of place, interest, and neighborhood identity

- Site furnishings – Provide resting areas, bicycle racks, trash receptacles
- Stormwater elements (Low Impact Design) – Improve drainage and reduce flooding

**C. Criteria for project selection**

The Streetscape Improvement Program will select projects based upon a set of criteria informed by the Better Streets (Ord. 33-06 #051715) Complete Streets (Ord. 209-05, #050591) and Transit First (SF City Charter, Section 8A.115) policies. The criteria was developed by a multi-agency working group that includes: the Department of Public Works (DPW), Municipal Transportation Agency (MTA), San Francisco County Transportation Authority (SFCTA), Planning Department, SF Public Utilities Commission (SFPUC) and approved upon by the City's Capital Planning Committee.

Along with the criteria listed below, the selection of projects will occur in consultation with existing plans and program efforts the City. These include the Better Streets Plan, the Bicycle Plan, Transit Effectiveness Project (TEP), MTA's Pedestrian and Bicycle Programs, the SFCTA's Neighborhood Transportation Plans, the Planning Department Neighborhood Plans, the PUC's Stormwater Design Guidelines and Wastewater Master Plan and Community Based Streetscape Improvement plans. The final project list will be brought before the Capital Planning Committee for review.

The streetscape improvements program will use the following prioritization methodology to identify potential improvement projects:

- **Community Supported Plans & Programs**  
Programming of projects will start with existing publicly supported streetscape improvement plans.
- **Commercial Corridors**  
Priority is given to neighborhood commercial corridors that have a large volume of pedestrian, bicycle, or transit traffic.
- **Transit and Bicycle Routes**  
Presence of transit vehicles and bicycle traffic gives a street higher priority for streetscape improvements.



*Broadway before*



*Broadway after*

- **Greenway Connections**  
Projects that make connections to open spaces, such as parks or plazas will be given priority. The connections may be via bicycle route, transit route or a heavily used pedestrian route.
- **Equitable Distribution Across the City**  
Geographic equity will be applied to the final project list to ensure that streetscape improvements are equally distributed to all areas of the City.
- **Coordination with Utility Companies and City Agencies**  
Priority is given to ready-to-go projects that partner with other funded projects, such as area infrastructure improvements, street resurfacing, curb ramps, or pedestrian safety projects. Priorities will be set primarily by utility clearances and coordination with utility companies through the 5-Year Excavation Plan.

#### **D. Potential Areas for Improvement**

From the City's ongoing planning efforts, the following are corridors that may be targeted for future improvement. All of the projects are contained either in existing community supported priority development area plans (Rincon Hill, Market and Octavia, Balboa Park, Eastern Neighborhoods), the five year street resurfacing program plan or other ongoing planning efforts. Funds from the proposed bond may be used to make improvements that enhance the livability and safety of these streets.

- 17th Street, as contained in the Mission Area Plan
- 23rd Street, as contained in the Mission Area Plan
- Alemany Boulevard
- Brannan Street, as contained in the East Soma Area Plan
- Broadway Street, as contained in the Broadway Streetscape Masterplan
- Cesar Chavez Street (east of 101), undergoing planning process
- Guerrero Street, as contained in the Mission Area Plan
- Hampshire Street, as contained in the Mission Area Plan



*21<sup>st</sup> Avenue today*



*21<sup>st</sup> Avenue simulation of potential streetscape improvements*

- Harrison Street, as contained in the Rincon Hill Area Plan and East Soma Area Plan
- Holloway Avenue, as contained in the Balboa Park Area Plan
- Noriega Street, as contained in the five year paving plan
- O'Shaughnessy Boulevard , as contained in the five year paving plan
- Potrero Street, as contained in the Showplace/Potrero Area Plan
- South Van Ness Avenue, as contained in the Mission Area Plan
- Webster Street, as contained in the Japantown Area Plan
- York Street, as contained in the Mission Area Plan
- Jefferson Street, as contained in the Fisherman's Wharf Public Realm Plan
- Market Street, undergoing planning process

#### E. Estimated Costs and Funding

##### Past Funding

Since FY 2005-06, 18 Great Streets projects have been funded primarily through federal and state grants leveraged by General Fund and Prop K local match. Of the \$41 million secured to date, federal or state sources represented 77%. Projects completed over the last four years include the **Valencia Street** from 15<sup>th</sup> to 19<sup>th</sup> (\$6.1 million) **Leland Avenue** from Bayshore to Cora (\$4 million), **Divisadero Street** from Haight to McAllister (\$3.4 million), **Van Ness Avenue** from Market to McAlliser (\$1.1 million), **Polk Street** from O'Farrell to Sacramento (\$0.98 million), and **San Bruno Avenue** from Silver to Mansell (\$0.5 million).



*San Bruno Avenue Streetscape*

##### Estimated Project Costs

Outside of large infrastructure or roadway projects, the streetscape improvement program in San Francisco is relatively new. The Capital Plan estimates that if the City implements full streetscape improvements along 10 blocks per year, at an average cost of \$2 million, the program cost would be \$20 million annually. Besides the funds proposed in this bond, DPW has not secured funding for the streetscape improvement projects listed above. In total, the bond will allocate \$50.0 million for streetscape, pedestrian and bicycle improvements. These funds could also be used to leverage federal, state and local grants.



# Transit and Traffic Signal Improvements

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## A. Background

The City owns and operates the eighth-largest public transportation system in the United States. Within San Francisco, the San Francisco Municipal Transportation Agency (SFMTA) maintains and operates nine subways and 24 surface light rail stations; 6.6 miles of subways and tunnels; 80 miles of track for rail and cable car operations; 220 miles of overhead wires; thousands of buses, and other transit vehicles; as well as traffic signals, signs, parking meters, bike lanes, and transportation communications networks that are critical to the day to day functionality of the transit system.

To manage traffic congestion in the city and improve the overall reliability of the transportation system the City must replace obsolete and deteriorating traffic signal infrastructure. In 2004 the Countywide Transportation Plan reported that the City's transit system is losing mode share (the percentage of overall trips taken by transit) because it can't compete with the comfort and reliability of the car. Reliability is one of the most important factors influencing a person's decision to ride on public transportation and is the most important factor of service quality, according to Muni customer surveys. By replacing transit street signal infrastructure, buses can be given priority at signalized intersections, which will reduce delays and congestion at red lights.

## B. Program Description

The City, under the jurisdiction of the SFMTA, has an on-going program to replace and upgrade of the deteriorated or obsolete signal hardware for over 1,100 signalized intersections, including controllers and foundations, vehicle and pedestrian signal heads, poles, conduit, pull boxes, wiring and loop detectors. Additionally, a goal of this program is to modify signal operations to improve safety and efficiency by installing signal mast arms where necessary to improve visibility.

This program was originally identified in the City's Transit First legislation of 1973. The SFMTA works with other City departments repair and replaced aged traffic infrastructure to streets with a high volume of rail vehicles and/or buses, in order to reduce delays to transit services, increase reliability and improve access.

## C. Criteria for Project Selection

The SFMTA developed a methodology and set of criteria to prioritize transit street signal infrastructure projects and will utilize this scoring to set strategic priorities across the transportation and transit system. Prioritization will be based on the following criteria:

### *1) Priority Transit Network*

Given the priority for advancing the City's Transit First Policy, it is important to give greater

consideration to designated rapid network corridors.

***2) Replace Obsolete and Deteriorating Infrastructure***

A primary goal of the program is to improve the City's obsolete traffic signal facilities to improve the overall effectiveness of the transportation system. Priority will be given to corridors with obsolete and deteriorating infrastructure.

***3) High Traffic Volumes***

Signal infrastructure upgrades should also benefit those corridors that carry a high amount of traffic (all modes). These corridors are the corridors that can have significant impacts when incidents or emergencies happen due to the high traffic volumes.

***4) Emergency Routes***

Priority will also be given streets and roadways that are part of the Emergency Priority Routes network. These are routes designed to facilitate the movement of emergency response personnel and resources in the event of a major emergency, such as an earthquake or other major disaster.

***5) Joint Projects***

Coordinating project planning, design, and construction helps to reduce overall project costs, makes better use of project resources, and minimizes service disruption and downtime in the field. To the extent possible, improvements requiring roadway excavations (e.g., interconnect conduits) will be jointly coordinated to minimize excessive street excavations and disruptions.

**D. Estimated Cost and Funding**

The estimated need for transit street signal infrastructure over the next three years is \$32.8 million. Of that amount approximately \$2.6 million in local Proposition K sales taxes are available for this purpose. Therefore remaining unfunded need for repair and replacement is \$30.2 million, of which \$20.4 million is proposed to be funded through bond proceeds. These funds will allow the SFMTA to address the most critical streets first and leverage these dollars against federal or state sources if they become available.

## **Accountability Measures**

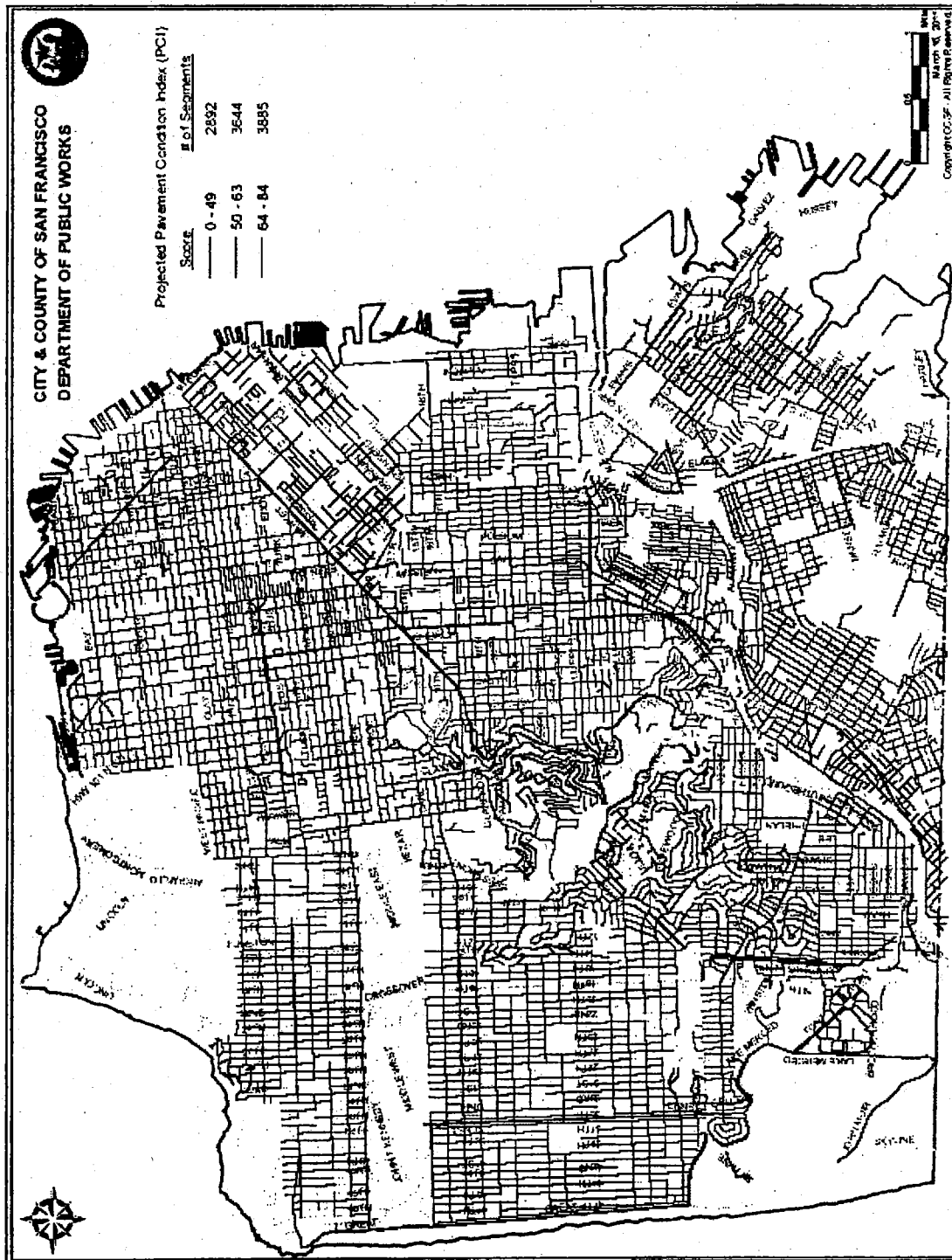
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The Road Repaving and Street Safety bond will include strict standards of accountability, fiscal responsibility and transparency. The measures include detailed information for each project highlighting the name and other specifics associated with the work. In addition to California state bond requirements, the City will undergo a comprehensive public oversight and accountability process.

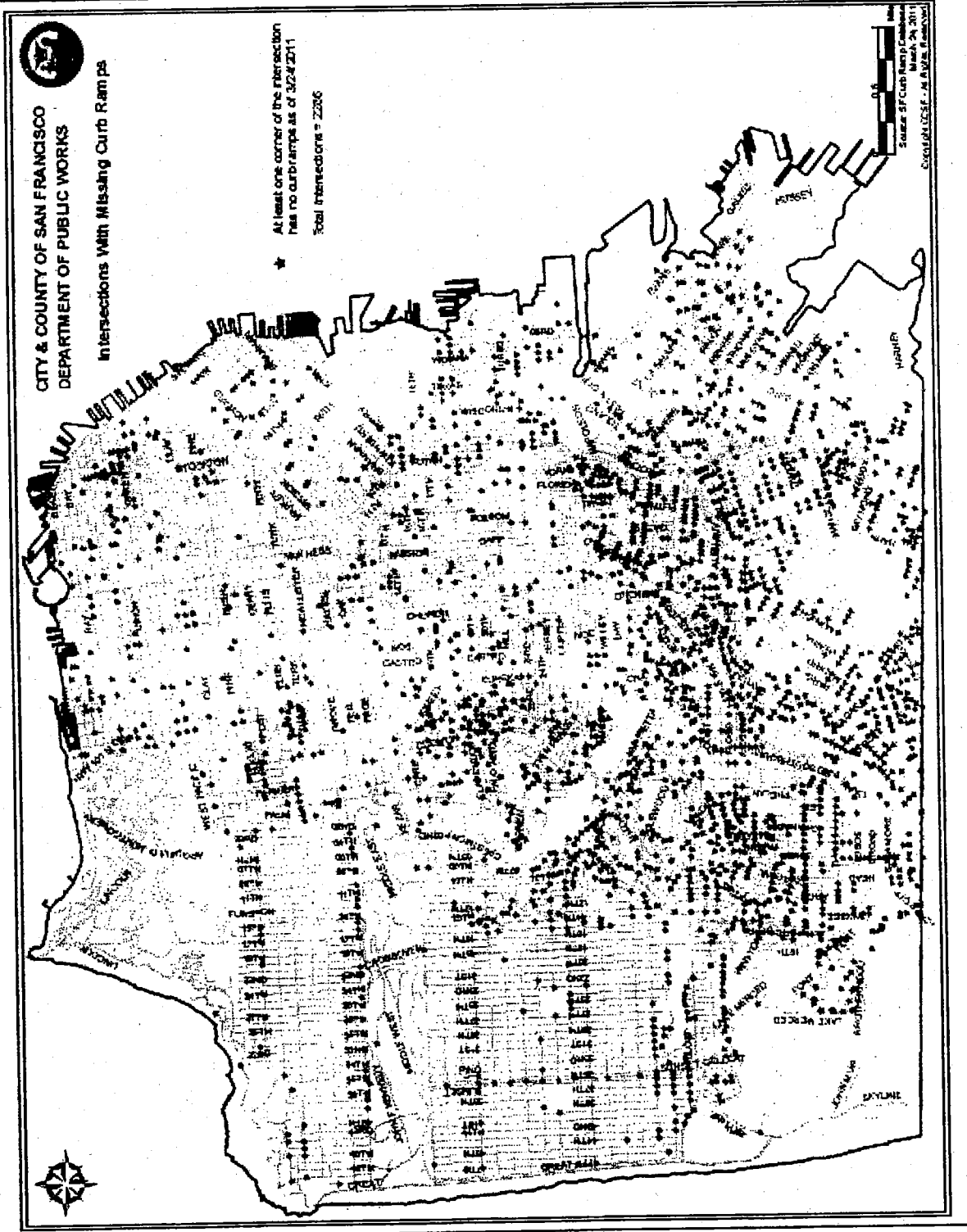
The following principles apply to all related programs funded through the 2011 Road Repaving and Street Safety Bond:

- The bond sets aside funds for Citizen's General Obligation Bond Oversight Committee (CGOBOC) to conduct regular audits of bond expenditures as required by the Administrative code (Section 5.30 to 5.36). In addition, accountability bond reports will be submitted to the Clerk of the Board, Controller, Treasurer, Director of Public Finance and Budget Analyst in accordance with Administrative Code Section 2.70 – 2.74.
- The proposed bond funds are subject to the approval processes and rules described in the San Francisco Charter Administrative Code. CGOBOC will conduct an annual review of bond spending, and provide an annual report of the bond program to the Mayor and the Board of Supervisors.
- The City will also hold an annual public hearing of bond expenditures and the program before the Capital Planning Committee and the Citizen's General Obligation Bond Oversight Committee. This will allow for public participation and an open forum for the community to provide feedback.
  - Proposed changes in funding, scope, or priorities in the bond programs will be presented before the Capital Planning Committee and undergo a hearing, a review, and an approval process, should any changes be necessary.
- The City will create and maintain a dedicated Web page outlining and describing the bond program, progress, activity updates, bond budget, and will include project names and estimated construction schedules.

# Map 1 Street Repaving



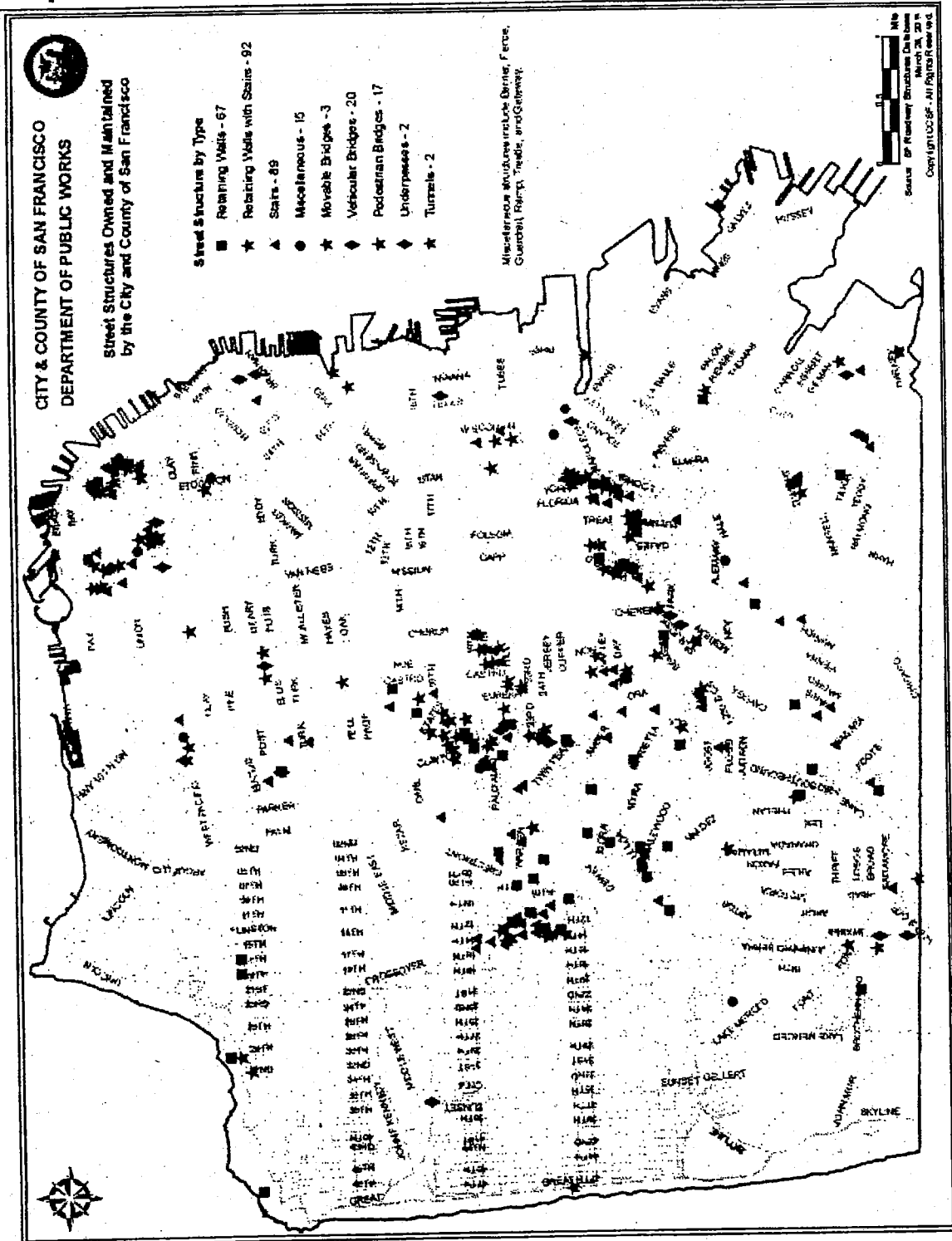
# Map 2 Curb Ramps



# Map 3 Sidewalk Repair



# Map 4 Street Structures





Edwin M. Lee, Mayor  
Edward D. Reiskin, Director

Office of the Deputy Director for Engineering  
Bureau of Engineering  
30 Van Ness, 5th Floor  
San Francisco, CA 94102  
(415) 558-4001 ■ www.sfdpw.org



Patrick Rivera, P.E., Bureau Manager

May 12, 2011

11-0508 R

Stephen Shotland  
San Francisco Planning Department  
1650 Mission Street Suite 400  
San Francisco, CA 94103

Dear Mr. Shotland:

The Department of Public Works requests a General Plan Referral and CEQA Exemption for a \$248 million Road Repaving and Street Safety General Obligation Bond proposed for the November 2011 ballot. We are making this request pursuant to Section 4.105 of the San Francisco Charter and Section 2A.52 of the Administrative Code, which requires the Planning Department to determine consistency with the General Plan prior to the Board of Supervisors consideration of, and action on any ordinance or resolution. The General Plan Referral and CEQA finding is needed prior to the Board's first action on the Resolution of Public Interest and Necessity anticipated Wednesday, June 1.

The proposed bond provides funding for five programmatic categories:

1. \$148.8 million for Street Repaving and Reconstruction
2. \$ 7.3 million for Street Structure Rehabilitation and Seismic Improvement
3. \$ 22.0 million for Sidewalk Accessibility Improvements
4. \$ 50.0 million for Streetscape, Pedestrian and Bicycle Safety Improvements
5. \$ 20.3 million for Transit Signal Infrastructure Improvements

Projects completed through the bond are anticipated to be within existing City rights of way and on City owned property. The bond proposal does not specify which projects will be completed through this bond, but it does list the scope of improvements and potential projects that may be completed. If the bond is approved by voters in November, individual projects will require project-level General Plan referrals, Environmental Review and other approvals.

Please contact me, (415) 558-4001 or [Patrick.Rivera@sfdpw.org](mailto:Patrick.Rivera@sfdpw.org); or contact Frank Filice at (415) 558.4011 or [Frank.Filice@sfdpw.org](mailto:Frank.Filice@sfdpw.org) with any questions about this request.

Sincerely,

Patrick Rivera  
Bureau Manager

*Exempt per CEQA Guidelines  
Statutory Exemption Section 15273  
Rates, Tolls, Fares and charges.*

*Brett Bollinger 5/19/11*  
**Approved Planning Dept. Brett Bollinger**





**Item 3**  
**File 11-0655**

**Departments:** Controller's Office of Public Finance (OPF), Department of Public Works (DPW), and Municipal Transportation Agency (MTA)

## EXECUTIVE SUMMARY

### Legislative Objective

- The proposed resolution would (1) determine and declare that the public interest and necessity demand (a) repaving and reconstruction of roads, (b) rehabilitation and seismic improvement of street structures, (c) replacement of sidewalks, (d) installation and renovation of curb ramps, (e) redesign of streetscapes to include pedestrian and bicycle safety improvements, and (f) construction, rehabilitation and renovation of traffic infrastructure and the payment of related costs necessary or convenient for the foregoing purposes; (2) find that the estimated cost of \$248,000,000 for such improvements is too great to be paid out of the ordinary annual income and revenue of the City and will require incurring bonded indebtedness; (3) find that the proposed bond is not a project under the California Environmental Quality Act (CEQA); (4) find the proposed bond is in conformity with the priority policies of Planning Code Section 101.1(b) and with the General Plan consistency requirement of Charter Section 4.105 and Administrative Code Section 2A.53; (5) provide for the City to declare its official intent to reimburse prior expenditures; and (6) waive the time limits set forth in Administrative Code Section 2.34.

### Key Points

- The proposed \$248,000,000 General Obligation (GO) Bond would be used to fund street and sidewalk upgrades pertaining to five programs: (1) Street Repaving and Reconstruction; (2) Sidewalk Accessibility Improvements; (3) Street Structures Rehabilitation; (4) Streetscape, Pedestrian, and Bicycle Safety Improvements; and (5) Transit Street Signal Infrastructure for the Municipal Transportation Authority (MTA).
- The expenditure of GO Bond proceeds to finance any project or portion of any project will be subject to appropriation approval of the Board of Supervisors subsequent to completion of planning and any further required environmental review under CEQA for those projects.
- On April 28, 2009 and October 15, 2010, the Board of Supervisors previously approved issuances of Certificates of Participation (COPs) totaling \$90,000,000 to finance similar ongoing street improvement projects including street repaving, curb ramps and sidewalk repairs.

### Fiscal Impact

- The proposed GO Bond is estimated to have an interest rate of 6.0 percent, resulting in a total debt service of \$437,249,617 over 24 years (\$248,000,000 in principal plus \$189,249,617 in debt financing), or an average annual debt service of \$18,218,734 per year.
- The proposed GO Bond would result in increased Property Taxes, for a single family residence assessed at \$500,000, averaging \$37.33 annually over 24 years, after deduction for the \$7,000 homeowners exemption.

### Recommendation

- The Budget and Legislative Analyst considers inclusion of the \$148.4 million to be used for Street Repaving and Reconstruction and the \$20.3 million to be used for MTA's Transit Street Signal Infrastructure Improvements in the proposed GO Bond to be policy matters for the Board of Supervisors.

**MANDATE STATEMENT & BACKGROUND**

**Mandate Statement**

According to San Francisco Charter Section 9.118, any agreement with a term of over ten years or expenditures of over \$10,000,000 is subject to approval by the Board of Supervisors. The proposed issuance of \$248,000,000 in General Obligation bond debt requires the City to enter into an agreement which exceeds ten years and \$10,000,000.

**Background**

Road resurfacing and reconstruction, street repairs, installation of curb ramps, pedestrian safety features and the repair of the City’s sidewalks and street structures have historically been funded with a combination of General Fund monies, State and local transportation revenues including Gas Tax revenues, and Federal grants. However, according to Mr. Douglas Legg, Budget and Finance Manager with DPW, the historical and current sources of funding for City street and sidewalk improvements do not provide consistent or sufficient revenues to fund such infrastructure projects.

According to Mr. Legg, over the past five years, the budget for street resurfacing has averaged \$42 million annually, which is \$23.5 million less than the estimated \$65.5 million which DPW, at this time, considers to be necessary to improve street pavement conditions. This shortfall has produced backlog of streets in need of repair. As a result, San Francisco’s streets currently have a Pavement Condition Index (PCI) score<sup>1</sup> of 64, which is the bottom of the “good” rating range, as shown in Table 1 below. Without increased funding in street repairs, DPW projects that San Francisco’s PCI score would drop to 61, a “fair” rating, in only three years. As shown in Table 1 below, the lower the PCI score, the higher the average cost of repairing each street block.

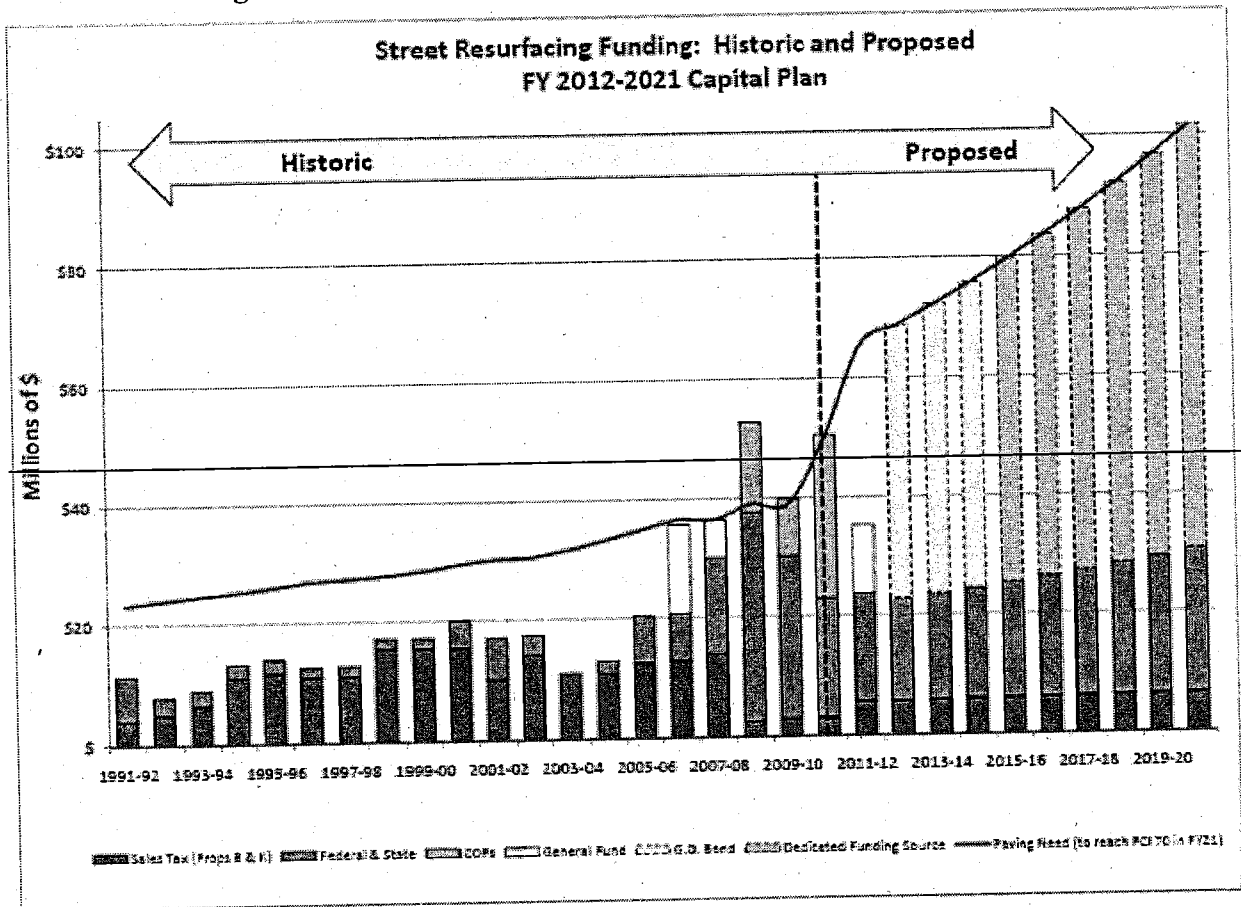
**Table 1: Pavement Condition Index (PCI) Scoring Descriptions**

Percent of SF Streets	PCI Score	Treatment	Average Cost/Block
19%	85 – 100 “excellent”	No improvement needed	\$0
30%	64 – 84 “good”	<u>Pavement preservation</u> – slurry sealing or crack sealing to extend life of street	\$9,000
28%	50 – 63 “fair”	<u>Repave</u> grind off and replace the top two inches of asphalt	\$97,800
23%	0 – 49 “poor”	<u>Reconstruction</u> reconstruct the street including concrete base and top layer of asphalt; or Resurface with base repair grind off and replace the top two inches of asphalt and complete localized repairs to the concrete base	\$436,400; or \$140,000

<sup>1</sup> The PCI scoring system was developed by the U.S. Army Corps of Engineers to evaluate roadway conditions.

The City's ten-year Capital Plan sets a goal of improving San Francisco's streets PCI score from 64 to 70 in ten years, or by 2021. According to Mr. Legg, increasing the City's average PCI score to 70 in ten years, the City would need to appropriate \$65.5 million annually, increasing 5 percent per year. Anticipated funding from Sales Tax, local vehicle license fees, and Federal and State grant funds are projected to be insufficient to maintain the current condition of the City's streets. Figure 1, below, illustrates the increased funding that would be needed to achieve a PCI score of 70 in ten years.

**Figure 1: Street Resurfacing Funding: Historic and Proposed**



DPW has estimated that without additional revenue, the PCI score could fall to 54 in 10 years, or by 2021.

Two years ago, on April 28, 2009, the Board of Supervisors (File 09-0404) approved the issuance of \$42,000,000 in Certificates of Participation (COPs) to finance the same categories of street improvement projects, and on October 26, 2010, the Board of Supervisors (File 10-1159) approved the issuance of an additional \$48,000,000 COPs issuance, with the main difference being the specific streets and locations of those projects.

In addition to street paving needs, DPW has identified funding needs to improve sidewalk accessibility and condition, street structures, and pedestrian and bikeways, and the Municipal Transportation Agency (MTA) has identified funding needs to improve transit street signal infrastructure.

**DETAILS OF PROPOSED LEGISLATION**

The proposed resolution pertaining to street and sidewalk improvements would (1) determine and declare that the public interest and necessity demand (a) the repaving and reconstruction of roads, (b) the rehabilitation and seismic improvement of street structures, (c) the replacement of sidewalks, (d) the installation and renovation of curb ramps, (e) the redesign of streetscapes to include pedestrian and bicycle safety improvements, and (f) the construction, rehabilitation and renovation of traffic infrastructure and the payment of related costs necessary or convenient for the foregoing purposes; (2) finding that the estimated cost of \$248,000,000 for such improvements is and will be too great to be paid out of the ordinary annual income and revenue of the City and County and will require incurring bonded indebtedness; (3) finding that the proposed bond is not a project under the California Environmental Quality Act ("CEQA"); (4) finding the proposed bond is in conformity with the priority policies of Planning Code Section 101.1(b) and with the General Plan consistency requirement of Charter Section 4.105 and Administrative Code Section 2A.53; (5) providing for the City to declare its official intent to reimburse prior expenditures; and (6) waiving the time limits set forth in Administrative Code Section 2.34.

The proposed Safe Streets and Road Repair General Obligation Bond (GO Bond) would provide \$248,000,000 in GO Bond fund revenues to five street and sidewalk improvement programs, shown in Table 2 below. Ultimately, approval of the GO Bond would be decided by a supermajority of San Francisco voters. The subject resolution is the first of two steps required to put the proposed GO Bond before the San Francisco voters in November 2011. The second piece of legislation, File 11-0654, which would call and provide for a special election, was introduced on May 17, 2011 and is currently pending in the Budget and Finance Committee.

The use of GO Bond proceeds to finance any project or portion of any project would be subject to future appropriation approval of the Board of Supervisors subsequent to completion of planning and any further required environmental review under CEQA for those individual projects.

Ms. Nadia Sesay of the Office of Public Finance (OPF) anticipates issuing the not-to-exceed \$248,000,000 GO Bonds in three issuances between 2012 and 2016. As shown in Table 2, below, the estimated issuance of \$248,000,000 in GO Bond would fund \$244,500,000 in project costs for five programs, and \$3,500,000 in financing costs. Attachment I to this report includes expanded descriptions of the five street and sidewalk improvement programs.

**Table 2: Uses of GO Bond Proceeds**

Five Programs	Scope	Project Costs (millions)	Audit, oversight, & issuance (millions)	Total (millions)
1. Street Repaving and Reconstruction	Slurry sealing, repaving, re-construction and new construction of approximately 2,540 street segments	\$146.3	\$2.1	\$148.4
2. Sidewalk Accessibility Improvements	Design and construct approximately 1,900 curb ramps citywide and improve 125,000 square feet of City responsibility sidewalks	21.7	0.3	22.0
3. Street Structures Rehabilitation	Rehabilitate, repair and improve aging street infrastructure such as bridges, guardrails, tunnels, viaducts, retaining walls and stairs.	7.2	0.1	7.3
4. Streetscape, Pedestrian, and Bicycle Safety Improvements	Pedestrian/bicycle safety and streetscape improvements such as pedestrian countdown signals and lighting, sidewalk extension, bulb-outs, bicycle improvements, tree planting and landscaping.	49.3	0.7	50.0
5. Transit Street Signal Infrastructure	Rehabilitate and upgrade existing traffic signal infrastructure to reduce travel time along key Muni routes and improve transit reliability.	20	0.3	20.3
<b>Total</b>		<b>\$244.5</b>	<b>\$3.5</b>	<b>\$248.0</b>

With regard to the Street Repaving and Reconstruction Program, as shown above in Table 2, DPW anticipates that the GO Bond revenue of \$146,300,000 would allow the DPW to increase the City's Pavement Condition Index (PCI) score from 64 to 66 in three years. According to Mr. Legg, with regard to the City's goal of achieving a PCI score of 70 in ten years, the proposed GO Bond would serve as a stopgap, providing the City three years to identify additional sources of dedicated revenue for the ongoing Street Repaving and Reconstruction Program (Program 1 in Table 2, above). Programs 2 through 5 would not impact the City's PCI score.

**FISCAL IMPACTS**

According to Ms. Nadia Sesay, Director of the Office of Public Finance in the Controller's Office, the proposed General Obligation (GO) Bond issuance plan calls for the issuance of the proposed \$248,000,000 GO Bonds in three issuances (series) between 2012 and 2016.

Attachment II, provided by the Office of Public Finance, shows the estimated debt service requirements for the proposed \$248,000,000 GO Bond issuance. As shown in Attachment II, once all \$248,000,000 of the GO Bond have been sold, the estimated total debt service

requirement between July 1, 2011 and June 30 of 2035, a period of 24 years, will be \$437,249,617, or an average annual debt service of \$18,218,734 per year (\$248,000,000 in principal plus \$189,249,617 in interest at an assumed interest rate of 6 percent).

Charter Section 9.106 requires that outstanding General Obligation bonded indebtedness cannot exceed three percent of the City's assessed value of all taxable real and personal property located within the City.

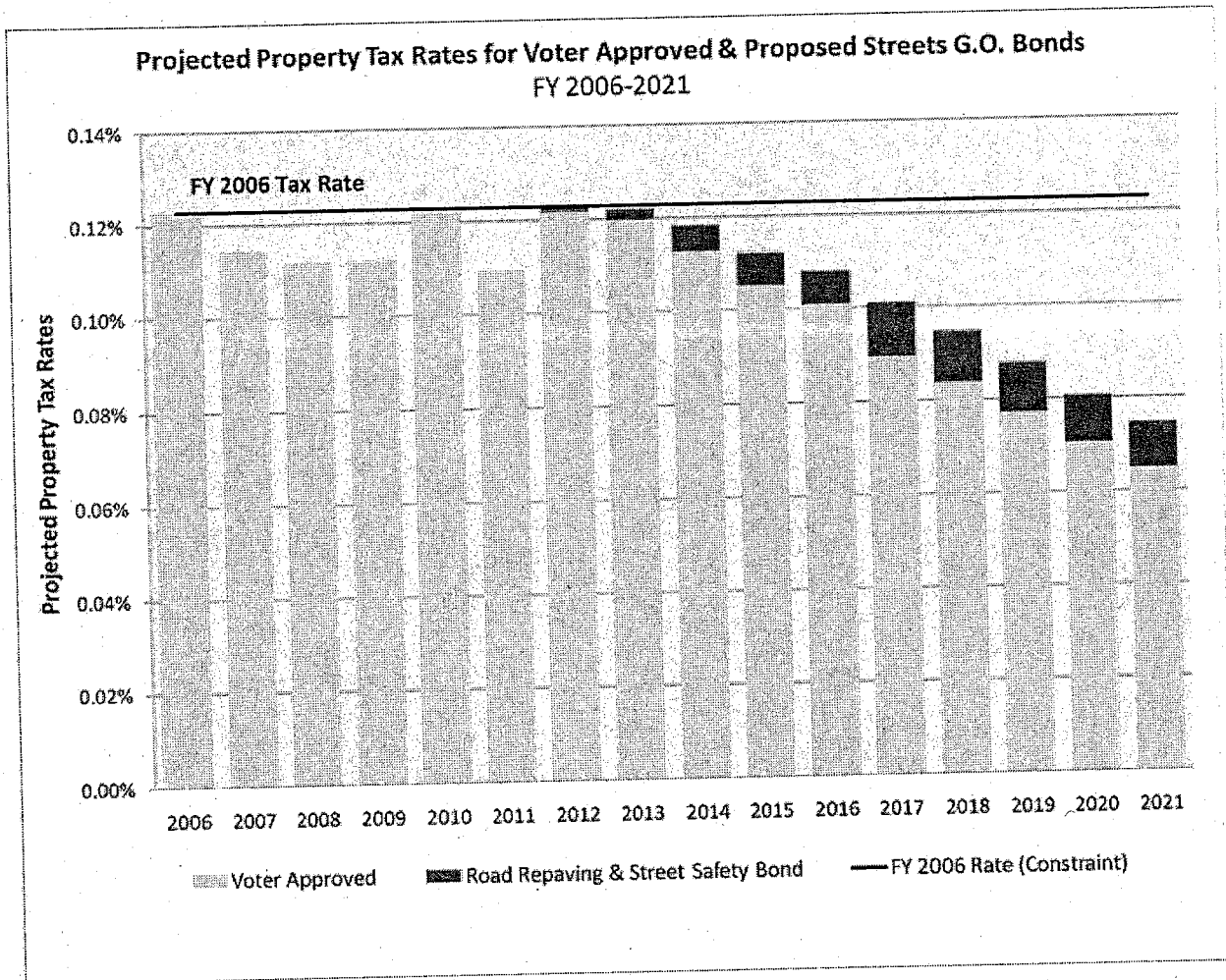
As shown in Attachment III, provided by Ms. Sesay, the City's total General Obligation debt capacity is currently \$4,735,979,441 or three percent of the City's estimated net assessed property valuation of \$157,865,981,382 for FY 2010-2011. As of May 22, 2011, the City had \$1,481,159,429 in outstanding General Obligation bonds or approximately 0.94 percent of the net assessed property valuation. With the addition of the proposed \$248,000,000 in General Obligation Bonds, outstanding bonds would be \$1,729,159,429. As shown on Attachment III, based on this outstanding principal amount, without the consideration of other bond issuances, the \$1,729,159,429 in outstanding principal represents 1.10 percent of the net assessed valuation of \$157,865,981,382 ( $\$1,729,159,429 \div \$157,865,981,382$ ) with available debt capacity of \$3,006,820,012.

#### *Impact on Property Taxes*

The proposed \$248,000,000 GO Bond principal and the estimated \$189,249,617 of related interest expense, would be repaid from increased Property Taxes on all property owners in the City. Attachment II illustrates the impact of the proposed GO bond debt service requirements on Property Taxes. Authorization of the proposed bond funds would result in increased Property Taxes, for a single family residence assessed at \$500,000 of \$37.33 annually after deduction for the \$7,000 homeowner's exemption. Pursuant to Chapter 37 of the Administrative Code (Residential Rent Stabilization and Arbitration Ordinance), residential landlords who are subject to rent control would be permitted to pass through 50 percent of the Property Tax increase to the tenants in buildings constructed after 1979.

According to Ms. Sesay, the timing of the issuance of the proposed GO Bonds would occur such that increases in Property Taxes from the proposed GO Bonds would be offset by reductions in Property Taxes as the City's existing GO Bonds are being redeemed. Therefore, according to Ms. Sesay, the City's projected Property Tax rates to be assessed to residential and commercial property owners should remain at or below the FY 2005-06 Property Tax rates. Figure 2 below provided by DPW, illustrates the expected impact of the proposed GO Bond (shown in gray) on the City's projected Property Tax rates, assuming no additional GO Bond debt is issued by the City.

**Figure 2: Impact of Proposed GO Bond on City Property Tax Rates**



Source: DPW

According to Mr. Legg, \$3 to \$4 million in General Fund monies will be included in DPW's FY 2011-2012 budget for Sidewalk Accessibility Improvements, one of the programs that would be funded under the proposed GO Bond issuance. Mr. Legg advises that if the proposed \$248,000,000 GO Bond is approved by the San Francisco voters in November 2011, \$3 to \$4 million of the GO Bond fund revenues would be subsequently appropriated, subject to Board of Supervisors approval, to reimburse the General Fund revenues which were advanced for the Sidewalk Accessibility Improvements.

## POLICY CONSIDERATIONS

### **The Subject Resolution Is the First of Two Steps Required to Put the Proposed GO Bond Before the Voters in November 2011**

As is noted above, the subject resolution is the first of two steps required to put the proposed GO Bond before San Francisco voters in November 2011. According to Mr. Legg, if the Board of Supervisors approves the subject resolution, the Board of Supervisors will be requested to approve File 11-0654, an ordinance calling for and providing for a special election to be held in the City on November 8, 2011. File 11-0654 was introduced on May 17, 2011 and is currently pending in the Budget and Finance Committee.

### **The Proposed GO Bond, in Itself, Is Insufficient to Achieve the City's Ten-Year Goal of a Pavement Condition Index (PCI) Score of 70, Without an Eventual Increase in Additional Dedicated Funding**

As noted in the DPW's "2011 Road Repaving and Street Safety Bond" report, if the proposed GO Bond is approved by the Board of Supervisors and then by San Francisco's voters on November 8, 2011, DPW estimates that the City's PCI score would be increased from 64 to 66. According to Mr. Legg, following the three years of proposed GO Bond funding, the City would need to identify a dedicated funding source to continue funding streets at a level that would allow the City to achieve a PCI score of 70 by 2021, a goal established in the City's ten-year Capital Plan.

Therefore, although the proposed GO Bond funds would expend \$146.3 million (see Table 2 above) on street repaving and reconstruction, such funds are insufficient for the City to achieve its goal of a Pavement Condition Index (PCI) score of 70.

### **Instead of Using the Proposed GO Bonds, the Municipal Transportation Authority (MTA) Could Finance the Transit Street Signal Infrastructure Improvements with an SFMTA Debt Instrument If and When the MTA's Financial Condition Improves**

Proposition A, approved by voters in 2007, authorized the MTA

"to issue or cause to be issued bonds, notes, certificates of indebtedness, commercial paper, financing leases, certificates of participation or any other debt instruments.... provided 1) the Controller first certifies that sufficient unencumbered balances are expected to be available in the proper fund to meet all payments under such obligations as they become due; and 2) any debt obligation, if secured, is secured by revenues or assets under the jurisdiction of the Agency."

Therefore, the MTA has the authority to incur debt for its own projects. Based on calculations by the Budget and Legislative Analyst, the average annual debt service for the MTA's proposed



\$20,300,000 (see Table 2 above) Transit Street Signal Infrastructure Project, including principle and interest, is estimated to cost \$1,349,752 of the \$18,218,734 average annual debt service cost for the proposed \$248,000,000 GO Bond issuance.

According to Ms. Sonali Bose, Chief Financial Officer for the MTA, despite the Passage of Proposition A in 2007, the MTA has been unable to issue any voter authorized debt instruments because of the MTA's financial condition. Furthermore, Ms. Bose notes "we will not be able to issue any debt instrument for the foreseeable future unless MTA addresses its operating deficit."

Because the MTA has its own debt authority for which to finance the cost of the Transit Street Signal Infrastructure Improvements – irrespective of the MTA's current financial standing – the Budget and Legislative Analyst considers inclusion of the \$20,300,000 for Transit Street Signal Infrastructure Improvements in the proposed GO Bond to be a policy matter for the Board of Supervisors.

### **The Budget and Legislative Analyst Considers Pay-As-You-Go to be a More Appropriate Approach than Long-Term Bond Financing for Street Repaving and Reconstruction Improvements**

The Budget and Legislative Analyst notes that long term debt, including GO Bonds, is typically issued to finance large one-time capital improvement projects such as (a) the construction of new City buildings, (b) the acquisition of new equipment, or (c) the significant remodeling of existing assets such as Laguna Honda Hospital or San Francisco General Hospital, and that long term debt, including GO Bonds, is not typically issued for projects which are routine and/or ongoing in nature and which simply extend the life of existing assets.

The DPW considers that all of the proposed street improvement projects are capital improvements, and are not ongoing or routine maintenance. Although the proposed Street Repaving and Reconstruction program (see Table 2 above) is not considered by DPW to contain ongoing or routine maintenance projects, the Budget and Legislative Analyst notes that the same types of projects will likely be required for other streets which are not included in the proposed GO Bond financing.

The Budget and Legislative Analyst considers the proposed \$148.4 million in GO Bonds for Street Repaving and Reconstruction projects to be routine and ongoing when considering the entirety of the City's street system, and therefore finds that such projects would be most appropriately financed on a pay-as-you-go basis, without the issuance of the proposed GO Bonds, which will result in long term debt to the City. Therefore, the Budget and Legislative Analyst considers approval of the proposed ordinance to be a policy matter for the Board of Supervisors.

## RECOMMENDATION

The Budget and Legislative Analyst considers inclusion of the \$148.4 million to be used for Street Repaving and Reconstruction and the \$20.3 million to be used for the Municipal Transportation Agency's Transit Street Signal Infrastructure Improvements in the proposed GO Bond to be policy matters for the Board of Supervisors.

## **Summary of Safe Streets and Road Repair General Obligation Bond Programs**

The following is a summary of the program descriptions for the five programs that would be paid for under the proposed Safe Streets and Road Repair GO Bond. It is adapted from DPW's 2011 Road Repaving and Street Safety Bond Report. The five projects are:

1. Street Repaving and Reconstruction
2. Sidewalk Accessibility Improvements (Curb Ramps and Sidewalks)
3. Street Structures Rehabilitation
4. Streetscape, Pedestrian, and Bicycle Safety Improvements
5. Transit Street Signal Infrastructure

### **1. Street Repaving and Reconstruction: \$148.8 Million**

#### *Causes of Pavement Deterioration*

The City's roadway system is complex and streets deteriorate over time. However, three major factors can accelerate deterioration:

1. Heavy wear and tear – In San Francisco, streets and roads have an average useful life of 14 to 21 years. However, a street's lifecycle depends on how heavily that street is used, particularly by heavy buses and trucks. For example, a street with heavy traffic can deteriorate seven years sooner than a street that carries lighter traffic.
2. Excavation – Underneath our streets exist a vast network of underground utility lines; pipes and cables. Each time one of these utility lines or services needs repair or replacement; utility companies must cut a trench in the pavement, leaving a vulnerable spot in the street. Over time these vulnerable spots in the street can reduce the life span of the street.
3. Deferred work – Without adequate funding in place, work that is needed will be deferred. This increases the occurrence of street degradation, including potholes, and greatly increases the cost of repairing that street in the future.

#### Pavement Management Strategy and Treatment

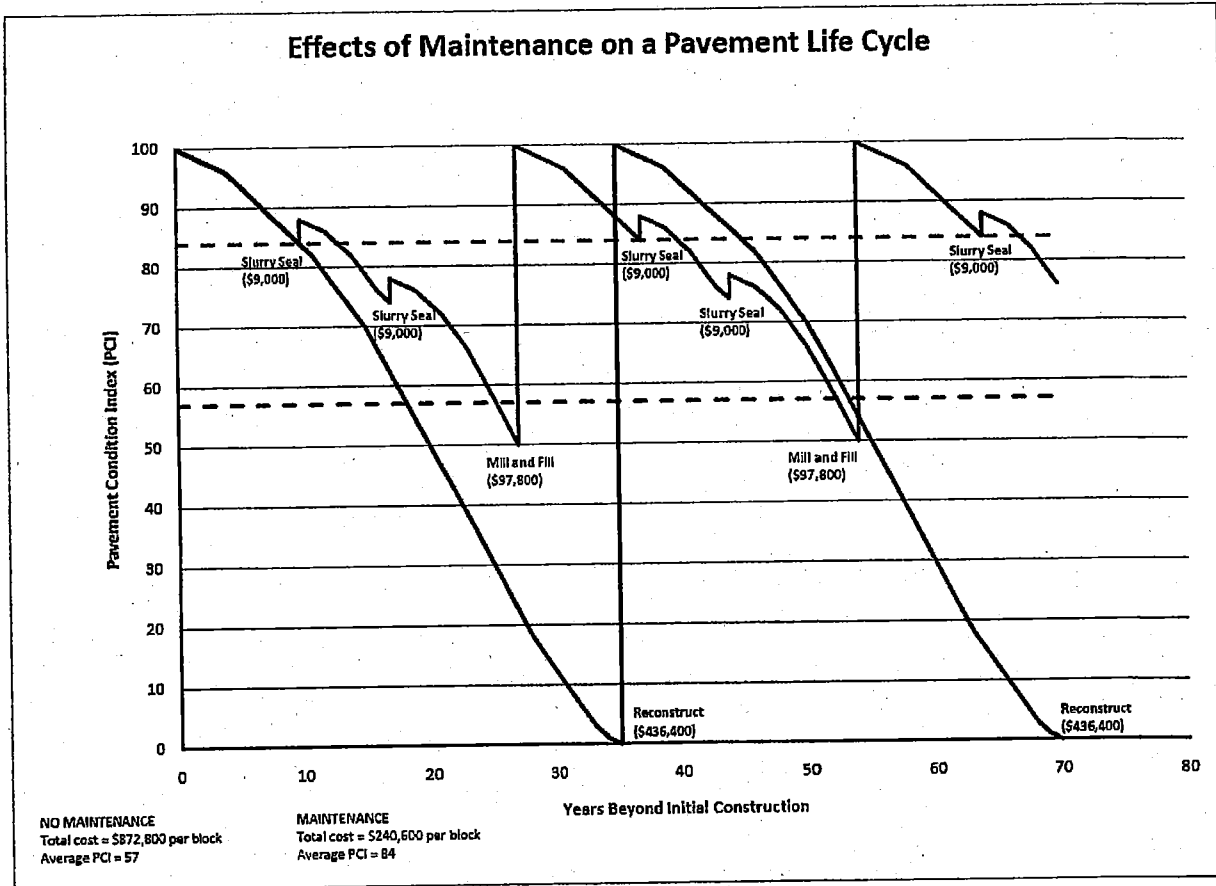
To track the impact of wear, erosion, and age on each street segment, the City uses a Pavement Management and Mapping System (PMMS). This system assesses street deterioration by establishing a rating for each street segment based on a visual survey done by DPW engineers. Each segment is evaluated based on ride quality, cracking, and raveling of the roadway. The ratings are used to create a Pavement Condition Index (PCI) score for each street segment using a scale of 0 – the worst score– to 100 –a freshly paved street. Refer to Map 1 for an overview of the City's streets by PCI score.

The table below summarizes the current condition of the City's streets, required pavement treatment and the cost for the associated PCI range.

% of SF Streets	PCI Score	Treatment	Average Cost/Block
19%	85 – 100 "excellent"	No improvement needed	\$0
30%	64 – 84 "good"	<u>Pavement preservation</u> – slurry sealing or crack sealing to extend life of street	\$9,000
28%	50 – 63 "fair"	<u>Repave</u> - grind off and replace the top two inches of asphalt	\$97,800
23%	0 – 49 "poor"	<u>Reconstruction</u> - reconstruct the street including concrete base and top layer of asphalt Resurface with base repair - grind off and replace the top two inches of asphalt and complete localized repairs to the concrete base	\$436,400 \$140,000

The most cost-effective pavement management strategy is to preserve streets in good condition instead of letting them deteriorate. The lower the PCI score, the more expensive it is to fix. While new pavements generally remain in good-to-excellent condition for several years with little or no upkeep, the rate of deterioration increases rapidly after 7-20 years, depending on the type and use of the street. By reducing the frequency of asset replacement, research shows that preservation treatments can increase the life-cycle and reduce the cost by 75-90 percent.

The figure below illustrates potential cost savings that can be realized through the proper application cycle in order to preserve and extend the life of a street. If the appropriate treatment is applied in a timely manner, a street with a PCI starting at 100 could be maintained over the course of two life cycles for an average cost of \$240,600 per block and yield a "very good" average PCI score of 84. If this methodology is not followed and a street is allowed to reach a point where reconstruction is required, the cost more than triples to \$872,800 and results in an "at-risk" average PCI score of 57.



Roadway resurfacing work under this bond may include, but will not be limited to:

- Pavement preservation treatments to extend the life of the street
- Mill and fill asphalt surface over concrete base; perform repairs to the concrete base
- Reconstruct concrete streets
- Replace concrete parking strip, and concrete medians
- Replace concrete bus pads
- Replace concrete curb edge
- Reconstruct concrete sidewalk
- Reconstruct concrete curb ramps with detectable surface tiles
- Traffic routing, adjusting City-owned manhole frames and covers, castings, and catch basin frames and gratings to grade related to paving and reconstruction projects

## 2. Sidewalk Accessibility Improvements

Curb ramps are an essential link in the public path of travel. For people with disabilities, many seniors, parents with strollers, and others, curb ramps provide safe navigation over public street intersections and sidewalks. Curb ramps are also key to the full social integration of people with mobility disabilities and people who are blind or have low-vision. Accessible walkways allow people with disabilities to be independent, and fully integrate both socially and professionally. For people with disabilities, being able to move around the City independently reduces social isolation and dependence on expensive services such as Paratransit.

San Francisco has been building curb ramps for years; however many of the City's corners still lack curb ramps. Some of the existing ramps are too old, too steep, or too narrow, and others are in disrepair. The inventory indicates that we need to build 22,959 ramps at approximately at various locations throughout the City. (The total cost to build 22,959 ramps is \$177 million. Although many of the ramps will be built through paving, sewer, or private development projects; some will need to be constructed as standalone curb ramp projects. This ensures that a full and navigable path of travel is accessible to everyone who needs it.

Design and construction of approximately 1,767 curb ramps will be completed at various locations throughout the City. Work may include, but will not be limited to:

- Design engineering of curb ramps
- Construction of curb ramps
- Related work needed to bring the curb ramp to current standards, which may include reconstruction of concrete gutters, curbs and parking strips; relocation or adjustment of utility poles, utility pull boxes, castings, relocation or construction of sewer catch basins and reconstruction of adjacent sidewalks.

### **3. Street Structure Rehabilitation & Seismic Strengthening**

The City, under the jurisdiction of DPW, has an on-going program to identify repairs needed on the 307 City street structures maintained by DPW (Refer to Map 2). Out of the 307 City-maintained structures, approximately 100 have been identified for rehabilitation. These street structures are used by the public every day. Consequently, failure to correct these deficiencies increases the risk to public safety.

Funding from the bond may be used to repair or replace the following:

- cracked/spalled concrete and exposed steel reinforcement
- structural movement, including tilting, settlement, and damaged construction joints
- deteriorated and damaged concrete and metal railings
- structure lighting improvements
- mechanical and electrical equipment repair and stabilization of bridges and tunnels
- structural deficiencies on City maintained bridges and street structures

Failure to correct these conditions will increase the City' exposure to liability and result in additional costs when corrective actions are no longer discretionary, but immediately required.

The proposed bond funds allocated to street structures may also provide a match to supplement other financing, such as federal or state grants and private gifts, which often require matching local funds.

### **4. Streetscape, Pedestrian and Bicycle Safety Improvements**

Between 200 and 2005, San Francisco implemented few major streetscape improvement projects. Recognizing a need and regional prioritization of comprehensive public realm improvements, the Great Streets Program was created in 2005. Since its inception, the program has implemented six capital streetscape improvement projects throughout the City San Bruno Avenue, Valencia Street, Leland Avenue, Polk Street, Divisadero Street, and Van Ness Avenue.

To build upon the important work of the Great Streets Program, the proposed bond will fund the next phase of streetscape improvement projects. Streetscape improvements can vary from simple plantings on street medians to the complete revitalization of the street, site furnishings, landscaping and infrastructure. As such, project costs can range between \$55,000 per block to \$2,000,000 per block. A streetscape improvement project may include one or several of the following elements:

- Sidewalk extension – Increase the usable sidewalk space for pedestrians and greening
- Bulb-out – shorten the street crossing distance and provide visibility for pedestrian safety
- Crosswalk treatment – Highlight pedestrian crossing areas for pedestrian safety
- Pedestrian countdown signals/lighting – Install pedestrian countdown signals and pedestrian upgrade lighting for energy efficiency and safety
- Utility undergrounding—Remove visible utility overhead service wires and poles and install conduits underground to connect services to homes
- Street tree planting – Provide traffic calming and ecological benefits
- Roadway median expansion and/or planting – provide traffic calming and ecological benefits
- Sidewalk and roadway lighting— Improve and upgrade street lighting for safety and energy efficiency
- Bicycle improvements – Separated bicycle lanes, bicycle racks or other amenities to improve bicycle conditions
- Public art elements – Create a sense of place, interest, and neighborhood identity
- Site furnishings – Provide resting areas, bicycle racks, trash receptacles
- Stormwater elements (Low Impact Design) – Improve drainage and reduce flooding

## **5. Traffic Signal Improvements**

The City has an on-going program to replace and upgrade of the deteriorated or obsolete signal hardware for over 1,100 signalized intersections, including controllers and foundations, vehicle and pedestrian signal heads, poles, conduit, pull boxes, wiring and loop detectors. Additionally, a goal of this program is to modify signal operations to improve safety and efficiency by installing signal mast arms where necessary to improve visibility.

This program was originally identified in the City's Transit First legislation of 1973. The SFMTA works with other City departments repair and replaced aged traffic infrastructure to streets with a high volume of rail vehicles and/or buses, in order to reduce delays to transit services, increase reliability and improve access.

City and County of San Francisco  
Proposed General Obligation Bonds  
Summary of Tax Levy (Tax Rate Per \$500K A.Y.)

Fiscal Year	% AV Growth	Net Assessed Valuation	Existing & Outstanding GO Bonds			Proposed GO Bonds			Existing + Anti/Unissued + Proposed			+ Capital Pina Proposed GO Bonds			CPC FY2006 Prop. Tax Rate Constraint	\$ Over (Below) Constraint Per \$500K A.Y.
			Aggregate Debt Service	Levy Rate	Tax Per \$500K A.Y. Total Levy Amount	SSRR 2012	SSRR 2014	SSRR 2016	Agg Debt Service	Levy Rate	Tax Per \$500K A.Y. Total Levy Amount	Levy Rate	Tax Per \$500K A.Y. Total Levy Amount	Levy Rate		
2012	0.20%	158,181,713,345	190,639,405	0.1205%	594.16	3,454,650	3,454,650	0.0022%	10.70	0.1227%	604.86	0.1227%	604.86	0.1229%	(1.56)	
2013	0.70%	159,288,965,338	189,175,277	0.1188%	585.49	6,554,400	6,554,400	0.0041%	20.29	0.1229%	605.78	0.1229%	605.78	0.1229%	(0.54)	
2014	2.46%	163,111,920,986	187,049,352	0.1147%	563.35	6,546,400	6,546,400	0.0039%	19.18	0.1186%	584.53	0.1229%	605.99	0.1229%	(0.12)	
2015	2.70%	167,515,942,853	175,971,598	0.1050%	477.89	6,044,400	11,829,407	0.0071%	34.81	0.1121%	552.70	0.1229%	605.40	0.1229%	(0.71)	
2016	2.70%	172,938,873,310	168,572,164	0.0980%	483.07	5,454,400	17,155,460	0.0109%	49.10	0.1079%	532.17	0.1229%	606.09	0.1229%	(0.02)	
2017	4.50%	179,780,622,609	166,851,759	0.0928%	457.55	7,539,400	17,155,460	0.0116%	56.99	0.1044%	514.54	0.1229%	606.09	0.1229%	(0.02)	
2018	4.50%	187,870,750,626	167,374,949	0.0891%	439.22	7,540,700	20,782,300	0.0110%	54.08	0.1001%	493.50	0.1229%	606.09	0.1229%	(0.37)	
2019	4.50%	196,924,934,404	141,421,893	0.0689%	339.84	7,540,700	22,811,300	0.0116%	57.28	0.0883%	455.11	0.1229%	605.74	0.1229%	(0.08)	
2020	4.50%	205,159,556,453	145,620,423	0.0679%	334.86	7,543,500	22,809,100	0.0106%	52.45	0.0786%	392.29	0.1229%	606.03	0.1229%	(0.08)	
2021	4.50%	214,391,736,493	143,776,709	0.0642%	316.38	7,540,000	22,809,100	0.0102%	50.18	0.0744%	387.31	0.1229%	602.53	0.1229%	(3.86)	
2022	4.50%	224,039,364,635	141,639,796	0.0605%	298.26	7,542,400	22,812,300	0.0097%	48.04	0.0702%	366.56	0.1229%	574.69	0.1229%	(31.86)	
2023	4.50%	234,121,156,044	137,994,891	0.0564%	278.07	7,539,500	22,809,500	0.0089%	45.96	0.0657%	298.80	0.1229%	536.60	0.1229%	(60.29)	
2024	4.50%	244,656,587,166	132,143,543	0.0517%	254.81	7,540,700	22,807,100	0.0085%	42.08	0.0536%	284.28	0.1229%	502.85	0.1229%	(70.50)	
2025	4.50%	255,666,133,588	120,267,225	0.0451%	212.37	7,542,800	22,806,900	0.0075%	38.55	0.0488%	252.64	0.1229%	459.57	0.1229%	(104.72)	
2026	4.50%	267,171,109,600	119,634,707	0.0410%	202.15	7,539,800	22,809,400	0.0062%	35.29	0.0399%	196.67	0.1229%	360.41	0.1229%	(249.19)	
2027	4.50%	279,493,899,532	113,914,327	0.0374%	184.20	7,539,500	22,809,600	0.0049%	33.77	0.0307%	151.55	0.1229%	308.25	0.1229%	(302.08)	
2028	4.50%	291,751,530,961	104,291,306	0.0327%	171.78	7,541,900	15,266,300	0.0044%	21.63	0.0189%	93.04	0.1229%	242.98	0.1229%	(368.28)	
2029	4.50%	304,886,619,854	99,539,971	0.0259%	141.38	7,541,900	15,266,300	0.0040%	20.70	0.0129%	63.47	0.1229%	206.95	0.1229%	(404.83)	
2030	4.50%	318,666,517,747	93,598,200	0.0287%	117.41	6,950,500	15,269,100	0.0040%	19.82	0.0123%	60.74	0.1229%	180.50	0.1229%	(331.65)	
2031	4.50%	332,943,811,046	87,538,200	0.0261%	92.76	6,952,600	15,271,600	0.0025%	11.44	0.0103%	50.61	0.1229%	161.01	0.1229%	(455.45)	
2032	4.50%	347,926,282,545	81,538,200	0.0239%	71.41	6,952,600	15,271,600	0.0025%	11.44	0.0103%	50.61	0.1229%	161.01	0.1229%	(455.45)	
2033	4.50%	363,582,965,257	75,538,200	0.0208%	42.76	6,952,600	15,271,600	0.0025%	11.44	0.0103%	50.61	0.1229%	161.01	0.1229%	(455.45)	
2034	4.50%	379,944,198,694	70,538,200	0.0183%	40.93	6,952,600	15,271,600	0.0025%	11.44	0.0103%	50.61	0.1229%	161.01	0.1229%	(455.45)	
2035	4.50%	397,041,687,635	65,538,200	0.0159%	32.17	6,952,600	15,271,600	0.0025%	11.44	0.0103%	50.61	0.1229%	161.01	0.1229%	(455.45)	

Total Debt Service			Total Principal			Total Interest		
Existing & Outstanding GO Bonds	\$140,948,750	\$129,765,907	\$175,536,900	80,475,000	69,335,000	98,190,000	182,249,617	182,249,617
Proposed GO Bonds	18,218,734	18,218,734	18,218,734	0.0076%	0.0116%	0.0022%	0.0022%	0.0022%
<b>Total</b>	<b>\$159,167,484</b>	<b>\$147,984,641</b>	<b>\$193,755,634</b>	<b>80,483,000</b>	<b>70,496,617</b>	<b>116,408,734</b>	<b>200,499,234</b>	<b>200,499,234</b>

Annual Levy Per \$500K A.Y.		
Average	\$37.33	\$334.71
Maximum	\$57.28	\$605.78
Minimum	\$10.70	\$50.61



## City and County of San Francisco General Obligation Bonds

Net Assessed value (August 1, 2010)		\$157,865,981,382
Bond debt limit	3%	
Bonding Capacity		\$4,735,979,441
<b>Outstanding GO Bonds at 5/22/2011</b>		<b>\$1,481,159,429</b>
Outstanding indebtedness as % of Net AV		0.94%
Principal Amount of Proposed GO Bonds		\$248,000,000
Total Outstanding Indebtedness plus GO Bonds		<u>\$1,729,159,429</u>
<b>Available Debt Capacity</b>		<b>\$3,006,820,012</b>
Outstanding indebtedness plus Proposed GO Bonds as % of Net AV		1.10%
<b>Authorized &amp; Unissued bonds</b>		<b>\$1,164,889,772</b>
Avail.D/C less Auth & Uniss. Bonds		<b>\$1,841,930,240</b>

