



Measure A 2017 Highway Program Call for Projects

January 4, 2017
Board of Directors
Agenda Item #13a



Presentation Overview

- Program Overview
- Process
- Evaluation Criteria
- Review of Key Policy Changes
- Project Proposals
- Draft Funding Recommendations
- Next Steps



Program Overview

- Focus is to reduce congestion, improve throughput and safety on most critical commute corridors
- Per voter approved Expenditure Plan 27.5% of Measure A revenue dedicated for the Highway Program
 - 17.3% for Key Congested Areas (KCA)
 - 10.2% for Supplemental Roadways (SR)
- Funds all phases of capital highway development



Evaluation Criteria

	<u>Pre-env.</u>	<u>Post-env.</u>
• Need:	35%	15%
• Effectiveness:	20%	40%
• Readiness:	20%	20%
• Funding Leverage:	10%	10%
• Policy Consistency & Sustainability:	15%	15%



Review of Key Policy Changes

- **Prioritize funding Measure A pipeline projects of greatest merit to complete work already started**
- **A \$10 million set aside through the remaining life of Measure A for planning and environmental work will be available for other projects not already in the funding pipeline**
- **A minimum 10 percent funding match required with each phase of work**



Review of Key Policy Changes

- **The match requirement may be greater than 10 percent for new highway facilities, proportionate to the traffic impacts from new development**
- **To further promote timely use of funds, there must be substantial activity on a project w/in 2 years of the funding award or the funds may be made available for other projects**



Project Proposals

- Up to \$75 million available for programming and allocation
- 7 applications submitted from 8 sponsors for work scheduled to begin within 1 year of planned funding allocations (Feb. 2019)
- \$46.7 million requested
- \$45.8 million in eligible requests



Location of Project Proposals





Project Proposals

- 4 pipeline projects and 3 other projects not in the funding pipeline
- Mix of project types
 - 3 freeway interchange projects
 - 1 freeway mainline project
 - 3 arterial projects
- Work phases – all for pre-construction
 - ROW: 2 projects
 - PS&E: 1 project
 - Planning/PID: 5 projects



Project Proposals

Distribution of KCA and SR categories

	Expenditure Plan	Currently Programmed	2017 CFP Draft Programming Recommendations	Total Programmed with 2017 CFP Draft Recommendations
KCA	63%	66.5%	51.1%	62.8%
SR	37%	33.5%	48.9%	37.2%

	Expenditure Plan	Currently Programmed	2017 CFP Draft Programming Recommendations	Total Programmed with 2017 CFP Draft Recommendations
KCA	63%	\$96,089,069	\$23,420,000	\$119,509,069
SR	37%	\$48,463,642	\$22,399,250	\$70,862,892



Draft Funding Recommendations

Rank	Project	Work Phase	Sponsor Request	TA Program Support	Funding Track	Pipeline Project	Draft Funding Recommendations
1	US 101 Managed Lanes Project	PS&E & ROW	\$22,000,000	Included	SR	Yes	Program & allocate: 1) \$20,000,000 for PS&E 2) \$2,000,000 for ROW
2	US 101/Woodside Road (SR 84) Interchange Improvements Project	ROW	\$20,000,000	\$145,000	KCA	Yes	Program \$20,145,000 for ROW, defer allocation
3	US 101/SR 92 Direct Connector Project	PID	\$2,000,000	Included	KCA	Yes	Program & allocate \$2,000,000 for PID
4	US 101/SR 92 Interchange Area Improvements Project	PID	\$630,000	Included	SR	Yes	Program and allocate \$630,000 for PID
5	Bayfront Expwy, Willow Rd, and Marsh Rd Adaptive Signal Timing Project	Planning	\$173,250	\$20,000	SR	No	Program and allocate \$193,250 for Planning
6	Route 1/Manor Drive Overcrossing Project	Planning & PID	\$1,220,000	\$35,000	KCA	No	Program & allocate \$645,000 for Planning only
7	Railroad Avenue Extension Project	Planning & PID	\$630,000	\$26,000	SR	No	Program and allocate \$206,000 for Planning only
Totals: \$46,653,250							Program: \$45,819,250 Allocate: \$25,674,250



Next Steps - Schedule

Timeline	Activity
January 4, 2018	Informational item to TA Board
January 18, 2018	C/CAG Technical Advisory Committee
February 1, 2018	TA Board adopts 2017 Highway Program of Projects

**San Mateo County Transportation Authority
Measure A Highway Program Call for Projects - Draft Recommendations**

Project Rank	Project	Sponsor	Sponsor Request ¹	Matching Funds	Match Percent	Request & Match	TA Program Support ²	Draft Funding Recommendation	Funding Track ³	Pipeline Project ⁴	Est. Phase Completion	Remaining Funds Needed to Complete Project ⁵
1	US 101 Managed Lanes Project	C/CAG-TA	PS&E: \$20,000,000 ROW: \$2,000,000 Total: \$22,000,000	PS&E: \$18,000,000 ROW: \$16,000,000 Total: \$34,000,000	PS&E: 47% ROW: 89% Total: 61%	PS&E: \$38,000,000 ROW: \$18,000,000 Total: \$56,000,000	Included	Program & allocate: 1) \$20,000,000 for PS&E 2) \$2,000,000 for ROW	SR	Yes	PS&E: Apr-2018 ROW: Jun-2019	Construction: \$439,500,000 - sources proposed from combination of federal, state, regional & local sources, including private sector contributions. Total unsecured funding: \$491,000,000
2	US 101/Woodside Road (SR 84) Interchange Improvements Project	Redwood City	ROW: \$20,000,000	\$17,000,000	46%	\$37,000,000	\$145,000	Program \$20,145,000 for ROW. Defer allocation until: 1) final ROW maps approved by Caltrans, 2) acquisition costs verified by appraisals, & 3) construction funding secured ⁶ .	KCA	Yes	Dec-2019, contingent on allocation conditions	Construction: \$91,800,000 Proposed from combination of federal, state, regional & local sources, including private sector contributions. \$1.1M committed. Total unsecured funding: \$98,700,000
3	US 101/SR 92 Direct Connector Project	Foster City/San Mateo	PID: \$2,000,000	\$230,000	10%	\$2,230,000	Included	Program & allocate \$2,000,000 for PID.	KCA	Yes	Feb-2020	PID: \$200,000 - sponsors seeking grants for \$207,000 of the required \$230,000 match. This project is a candidate for a portion of the TA's share of SB 1 Local Partnership Program (LPP) funds. Remaining work phases TBD, project in early phases of development.
4	US 101/SR 92 Interchange Area Improvements Project	Foster City/San Mateo	PID: \$630,000	\$70,000	10%	\$700,000	Included	Program & allocate \$630,000 for PID	KCA	Yes	Feb-2019	Match for requested phase committed. Remaining work phases TBD, project in early phases of development
5	Bayfront Expressway, Willow Road, and Marsh Road Adaptive Signal Timing Project	Menlo Park	Planning: \$173,250	\$19,250	10%	\$192,500	\$20,000	Program & allocate \$193,250 for Planning	SR	No	Sep-2018	Match for requested phase committed, deployment is fully funded by sponsor
6	Route 1/Manor Drive Overcrossing Project	Pacifica	Planning: \$610,000 PID: \$610,000 Total: \$1,220,000	Planning: \$70,000 PID: \$70,000 Total: \$140,000	10%	Planning: \$680,000 PID: \$680,000 Total: \$1,360,000	\$35,000	Program & allocate \$645,000 for Planning only	KCA	No	Oct-2019 for Planning	Match for requested phases committed Remaining work phases TBD, project in early phases of development
7	Railroad Avenue Extension Project	South San Francisco	Planning: \$180,000 PID: \$450,000 Total: \$630,000	Planning: \$20,000 PID: \$50,000 Total: \$70,000	10%	Planning: \$200,000 PID: \$500,000 Total: \$700,000	\$26,000	Program & allocate \$206,000 for Planning only. Study will coordinate with UPRR. Significant alignment and profile issues for the roadway will be assessed.	SR	No	Dec-2018 for Planning	Match for requested phases committed Remaining work phases TBD, project in early phases of development
Totals:			\$46,653,250	\$51,529,250	52%	\$98,182,500		Program: \$45,819,250 Allocate: \$25,674,250				

Footnotes

- 1) Work Phase acronyms: PID - project initiation document, PS&E - plans, specifications and estimates, ROW - right of way.
- 2) TA program support costs have been added to recommended project program and allocation awards where the TA is not the lead but will be providing support to the project sponsor and implementing agency.
- 3) Funding Tracks - KCA: Key Congested Areas, SR: Supplemental Roadways. Recommended programmed funds for KCA Projects = \$23,420,000. Recommended programmed funds for SR Projects = \$22,399,250.
- 4) Pipeline Projects are those that are currently going through the project delivery process that have previously been awarded Measure A funds.
- 5) Projected remaining funds needed are current estimates to complete project after the recommended funding awards are made.
- 6) US 101/Woodside Road Interchange: An exception to the allocation condition for ROW, with regard to securing construction funding first, may be considered if property acquisition is needed for right of way protection.

Measure A 2017 Highway Program Call for Projects Application Submittals
Summary List of Projects Descriptions: Ranked List

1. US 101 Managed Lanes Project

Request: \$22,000,000 (PS&E: \$20,000,000, ROW: \$2,000,000)

Sponsor: C/CAG – TA

Scope: Plans Specifications and Estimates (PS&E) and Right of Way (ROW) support and utility relocation for continuous managed lanes in the north and southbound directions of US 101 from I-380 in South San Francisco, to the Santa Clara County Managed Lanes Project. The proposed project will convert existing High Occupancy Vehicle (HOV) lanes into managed lanes south of Whipple Avenue and convert inside general purpose lanes north of Whipple Ave. Existing auxiliary (aux.) lanes will be converted to general purpose lanes by continuing them through interchanges. New aux. lanes to be added back where essential for maintaining mainline freeway operations and the operation of ramps impacting local streets.

Benefit: The Project will reduce delays and improve travel time and reliability by providing new managed lanes for use by HOV3+ (vehicles w/ 3 or more occupants), motorcycles and transit for free and other vehicles for a toll. It will encourage carpooling and transit use as an alternative to driving alone, increasing person throughput, and reduce adverse impacts from cut-through traffic on local streets to avoid congestion on US 101.

2. US 101/Woodside Road (SR 84) Interchange Project

Request: \$20,000,000 - ROW

Sponsor: Redwood City

Scope: ROW acquisition and utility relocation required for the reconstruction of the US 101 Woodside Interchange. Add vehicular lanes and improve pedestrian and bicycle access on SR 84, reconfigure, expand and signalize interchange ramp intersections, modify intersections of SR 84 with Veterans Blvd (direct flyover ramp), Broadway (eliminate the southbound off-ramp "fifth leg"), and Bay Rd south of US 101, and Seaport Blvd/East Bayshore/Blomquist St. north of US 101.

Benefit: The Project will improve the operation of ramps and intersections within the interchange, reducing backups on US 101 and local streets. It will reduce congestion, which in turn will reduce delay & collision potential & improve travel and safety conditions for all modes of transportation passing through this interchange.

Measure A 2017 Highway Program Call for Projects Application Submittals
Summary List of Projects Descriptions: Ranked List

3. US 101/SR 92 Direct Connector Project (long term Improvements)

Request: \$2,000,000 - PID

Sponsor: Foster City- San Mateo

Scope: Preparation of a Project Initiation Document (PID) to further study alternatives identified as long term direct connection improvements within the US 101/SR 92 Interchange that may include: 1) Proposed managed lane connections from westbound SR 92 to proposed north and southbound managed lanes on US 101, and 2) Reconstruction of the direct southbound US 101 connector to eastbound SR 92, eliminating existing lane merges between the existing US 101 north and southbound connectors to eastbound SR 92.

Benefit: The proposed managed lane direct connectors will allow HOV and other eligible vehicle flows to bypass congestion in general purpose lanes, encourage carpooling & reduce demand on the existing interchange ramp connections. The new southbound 101 connector to eastbound 92 will eliminate a major bottleneck, improve safety and increase capacity. The proposed improvements can reduce congestion spillover onto local streets.

4. US 101/SR 92 Interchange Improvement Project (short term improvements)

Request: \$630,000 - PID

Sponsor: Foster City- San Mateo

Scope: Preparation of a PID to further study alternatives that can be implemented in the short term, including the: 1) Addition of an HOV lane to the existing loop connector from westbound SR 92 to southbound 101, 2) Elimination of lane merges between the north and south bound ramps to eastbound SR 92, 3) Modification of the southbound US 101 exit onto Fashion Island Boulevard to deter drivers from illegally crossing onto the eastbound SR 92 exit to bypass queuing, and 4) Widening of the northbound US 101 off-ramp to Hillsdale Boulevard from 2 to 3 lanes.

Benefit: The proposed improvements will improve traffic flow and safety and alleviate congestion at existing bottlenecks within the interchange, reducing spillover onto local streets. The northbound US 101 off ramp at Hillsdale will increase storage capacity of the ramp and improve traffic flow by alleviating queuing back-ups on US 101.

5. Bayfront Expressway, Willow and Marsh Road Adaptive Signal Timing Project

Request: \$173,250 - Planning

Sponsor: Menlo Park

Scope: Planning work for the deployment of an adaptive signal timing system project to improve traffic flow that includes 11 traffic signals on Willow Road between Middlefield and Bayfront Expressway, 5 traffic signals on Marsh Road between Bay Road and Scott Drive/Rolison Avenue, and 6 traffic signals on Bayfront Expressway.

Measure A 2017 Highway Program Call for Projects Application Submittals
Summary List of Projects Descriptions: Ranked List

Benefit: This project will improve traffic flow on the approaches to the Dumbarton Bridge, helping to alleviate congestion that impacts local and regional trips, including the reduction of cut-through traffic in adjacent residential neighborhoods.

6. SR 1/Manor Drive Overcrossing

Request: \$1,220,000 (Preliminary planning study: \$610,000, PID: \$610,000)

Sponsor: Pacifica

Scope: Preparation of a preliminary planning study and a PID to assess the widening of the Manor Drive SR 1 overcrossing between Palmetto Avenue and Oceana Boulevard, flare the Manor Drive overcrossing curb returns and install traffic signals at the Manor Drive intersections with Palmetto Avenue and Oceana Boulevard.

Benefit: The widening of the existing overcrossing and increase in turning radii at the corners will better accommodate all modes of traffic, providing additional space for buses and trucks as well as bicyclists. Replacement of the existing four-way stop signs at the Palmetto and Oceana intersections with traffic signals will help improve local traffic flow.

7. Railroad Avenue Extension Project

Request: \$630,000 (Preliminary planning study: \$180,000, PID: \$450,000)

Sponsor: South San Francisco

Scope: Preparation of a preliminary planning study and PID for the construction of a new three lane road between South Linden and East Grand Avenue/Allerton Avenue on an existing railroad spur that will that will be coordinated with the UPRR . It will address significant alignment and profile challenges crossing US 101, Airport Boulevard and the Caltrain Corridor.

Benefit: The proposed new roadway would provide another east-west access across US 101 in South San Francisco, improving local circulation for motor vehicle traffic as well as pedestrians and bicyclists.