

Measure A and W Highway Capital Improvement Program: FY 2021-FY 2030

Draft-Final April 30, 2021



SAN MATEO COUNTY Transportation Authority



Prepared for: San Mateo County Transportation Authority

Prepared by:



Stantec Consulting Services Inc. in association with DKS Associates; and TY Lin, Inc.

April 30, 2021

# **Table of Contents**

EXE	CUTIVE S	UMMARY	1
1.0	OVERV	′IEW	1
1.1	Backgro	ound & Purpose	1
1.2	Funding	Sources and Amounts Available	1
	1.2.1	Additional Measure A and W Revenues	
1.3	Highwa	y CIP Development Methodology	5
2.0	PROJE	CT INVENTORY	7
2.1	Develop	oment Phase Approach	7
2.2	Project	Submittals	
	2.2.1	J J	
	2.2.2	Newly Submitted Projects	9
2.3	Gap An	alysis	
2.4	Measur	e A Breakdown of Projected Need by Corridor Type	15
3.0	IDENTI	FYING COST OF NEXT FEASIBLE PHASE	17
4.0	HIGHW	AY CIP DEVELOPMENT	
4.1	Policy C	Considerations	
4.2	Propose	ed Highway CIP	
4.3	Initial Fi	ndings	
	4.3.1	J - J - J	
	4.3.2	, , , , , , , , , , , , , , , , , , , ,	
	4.3.3	Conclusions	
4.4	Next Ste	eps	

April 30, 2021

### LIST OF TABLES

Table E-1. Highway CIP Findings	
Table 1-1. Estimated Sales Tax Revenues and Potential Matching Funds (FY2021-FY2030	
in Millions USD)	2
Table 1-2. Measure A and W Revenues (FY2021 to FY2030 USD)	4
Table 2-1. Project Development Phase	8
Table 2-2. Previously Submitted Projects by Phase	10
Table 2-3. Newly Submitted Projects	11
Table 2-4. Gap Analysis Corridor Segments	13
Table 2-5. Breakdown of Measure A KCA/SR Projected Costs (in millions USD)	15
Table 3-1. Cost of Next Feasible Phase	17
Table 4-1. Fund Projections (FY2021-FY2030 in millions USD)	21
Table 4-2. Funding Shortfall (FY2021-FY2030 in millions USD)	21
Table 4-3. Total Fund Projections (FY2021-FY2049 in millions USD)	
Table 4-4. Funding Shortfall (FY 2021-FY 2049 in millions USD)	

### LIST OF FIGURES

. 3
. 4
12
14
20
20
22

### LIST OF APPENDICES

Appendix A	Detailed 10-Year CIP
------------	----------------------

- Appendix B Project Fact Sheets Appendix C Abbreviations and Acronyms

April 30, 2021

# **EXECUTIVE SUMMARY**

The San Mateo County Transportation Authority (SMCTA, or TA) has developed this Highway Capital Improvement Program (Highway CIP) to assess the cost of proposed highway improvements for San Mateo County and compare those costs to projected Measure A and W sales tax revenues over the next 10 years (Fiscal Years [FY]2021 through 2030). The Highway CIP establishes a list of 30 projects and estimates the cost of those projects to develop a financially unconstrained estimate that is then compared to projected sales tax revenues.

The following goals were set for the development of the Highway CIP:

- 1. Assess projected costs versus revenue over a 10-year period from FY2021 through FY2030 and the cumulative implications;
- 2. Provide a strong foundation for making future investment decisions;
- 3. Identify key issues and policy considerations for further study; and
- 4. Support the development of an updated Short Range Highway Plan to set project priorities and establish funding levels through 2030.

The TA's approach to developing this Highway CIP was to work with eligible highway project sponsors, which include cities, the County of San Mateo, the City/County Association of Governments of San Mateo County, and Caltrans. Through a project inventory process, the TA collected project information for potential highway projects that could be eligible for funding through Measures A and W.

Given that project scope, schedule, and cost information can change over time, the TA generally updates its Highway CIP every three to five years. The Highway CIP does not financially constrain the number of projects that can be submitted for consideration. Furthermore, the projects submitted are not prioritized. Inclusion in the Highway CIP does not guarantee that Measure funding will be allocated to a project; the TA subsequently determines funding allocations through a separate "Call for Projects" process.

Table E-1 on the following page summarizes the findings of the Highway CIP.

April 30, 2021



<b>\$171.5</b> IN MEASURE A KCA	\$101.1 IN MEASURE A SR	<b>\$223.0</b> IN MEASURE W
\$495.6 TOTAL SALES TAX REVENUES		\$495.6 POSSIBLE LOCAL MATCH
22 continuing projects	<b>NEW</b> PROJECTS	\$1,247 TOTAL PROJECT COST
. ↓	13 Interchange Improvements	•
	10 Arterial Improvements	
	2 Managed Lanes	
	2 Ped/Bike Improvements 1 Freeway Widening	
1 Intelli	gent Transportation Systems Improver	nent

Future Outlook (FY 2021 through FY 2049 in \$ millions)

\$2,316 TOTAL PROJECT COSTS \$1,236 TOTAL MEASURE A AND W REVENUES \$1,080 ESTIMATED SHORTFALL

OVERVIEW April 30, 2021

# 1.0 OVERVIEW

### 1.1 BACKGROUND & PURPOSE

The San Mateo County Transportation Authority (TA) allocates sales tax revenues to a variety of transportation projects and programs. Measure A and Measure W include Transportation Expenditure Plans (TEP) that establish the policy framework for allocating sales tax revenues to transportation projects and programs over the life of each measure. The TA adopted a *Strategic Plan 2020-2024* (Strategic Plan) that establishes near-term policies for allocating funds in the context of forecasted revenues and projected expenditures over the next five years.

The TA's Strategic Plan identified a funding shortfall relative to its highway program's financial needs; current and projected Measure A and W revenues are insufficient to deliver the pipeline of projects currently in progress through to completion.<sup>1</sup> In response to this finding, the TA began work in 2020 to update its Highway Capital Improvement Program (Highway CIP) to better assess need and required funding for ongoing and future highway projects in San Mateo County.

The primary purpose of the Highway CIP is to: a) broadly assess the full cost of highway improvements for San Mateo County as envisioned by all project sponsors eligible to receive Measure A and W sales tax revenues; b) compare those costs to projected revenues over the next 10 years; and c) establish a baseline of project costs and revenues to inform the development of the Short Range Highway Plan (SRHP).

The following goals were set for the development of the Highway CIP:

- 1. Assess projected costs versus revenue over a 10-year period from fiscal year (FY) 2021 through FY2030, and the cumulative implications;
- 2. Provide a strong foundation for making future investment decisions;
- 3. Identify key issues and policy considerations for further study; and
- 4. Support the development of an updated SRHP to set project priorities and establish funding levels through 2030.

### 1.2 FUNDING SOURCES AND AMOUNTS AVAILABLE

The 2004 voter-approved Measure A TEP included six different transportation program categories: transit, pedestrians and bicycles, local streets and transportation, rail grade separations, highways, and Alternative Congestion Relief. The TEP allocates 27.5 percent of Measure A funds to highways. The TEP further divides the highway program into two

<sup>&</sup>lt;sup>1</sup> San Mateo County Transportation Authority, <u>Strategic Plan 2020-2024</u>, Figure 4-11, Project Revenues versus Funding Needed, p. 33.

#### **OVERVIEW**

April 30, 2021

categories: 1) Key Congested Areas (KCA) – 17.3 percent; and 2) Supplemental Roadways (SR) – 10.2 percent.

In 2018, the voters of San Mateo County approved Measure W – an additional half-cent sales tax to fund transportation improvements as identified in the San Mateo County Congestion Relief Plan. Fifty percent of Measure W funds are administered by SamTrans to fund the public transportation system. The remaining 50 percent of funds are administered by the TA. The portion of the Measure W TEP administered by the TA divides the funds into five program categories, one of which is the Countywide Highway Congestion Improvements program, which receives 22.5 percent of total Measure W revenues. The purpose of this program is to provide congestion relief, reduce travel times, increase person throughput, and improve operations and safety on highway facilities in San Mateo County. Pursuant to the most recently adopted Strategic Plan, the Countywide Highway Congestion Improvement Program includes a Transportation Demand Management sub-program, which receives 4 percent of highway program revenues, or approximately 1 percent of total Measure W fund revenues.

In addition to local sales tax funds, the TA and its project sponsors are generally eligible to receive transportation funding through other sources. These include federal, state, regional, local, and private fund sources.

Table 1-1 and Figure 1-1 show the fund sources and amounts available over the 10-year timeframe of the Highway Program's CIP. Table 1-2 shows fund revenues for each fiscal year from FY2021 to FY2030. Projected revenues for Measures A and W are approximately \$495.6 million through FY2030. The TA's current general policy is to fund up to half of a project's full cost. Therefore, it is assumed that matching funds of 50 percent will be identified from federal, state, regional, local, or private sources to further leverage Measure A and W money. When combined with matching funds, the TA could deliver close to \$1 billion in projects over the next 10 years.

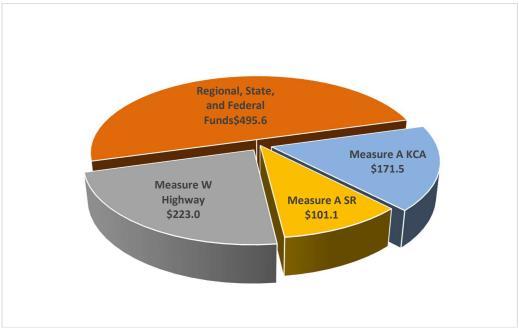
Funding Source	Description	Amount
Measure A	KCA Funding	\$171.5
Measure A	SR Funding	\$101.1
Measure W	Countywide Highway Congestion	\$223.0
	Total Measures A and W	\$495.6
Potential Matching Funds	Federal, State, Regional, Local, Private	\$495.6
	Grand Total	\$991.2

Table 1-1. Estimated Sales Tax Revenues and Potential Matching Funds (FY2021-FY2030 in Millions USD)

Key: FY = Fiscal Year / KCA = Key Congested Area / SR = Supplemental Roadways / USD = United States Dollars



April 30, 2021



#### Figure 1-1. Funding Revenue by Source

Table 1-2 shows Measure A and W funding by fiscal year. According to the mid-range financial forecast provided by the TA Finance Division, total annual revenues for both measures begins at \$80 million in FY2021 and increases to \$113 by FY2030. Of the total Measure A revenues, 27.5 percent is allocated to highways. For Measure W, 22.5 percent of total revenues is assigned to highways.

### 1.2.1 Additional Measure A and W Revenues

In addition to the \$496.6 million in total Measure A and W revenues projected for FY2021 through FY2030, there are \$112.6 million in revenues that were received prior to FY 2021 and as of this writing were unexpended (\$84.0 million in Measure A and \$28.6 million in Measure W). For the purposes of this Highway CIP, the prior revenues are set aside as a contingency. A portion of these funds could be made available during the next "Call for Projects" (CFP) process. Alternatively, the funds could be used to backfill unforeseen funding shortfalls that may arise on existing projects. Conversely, the funds could be held to balance a recent \$100 million bond transaction undertaken by the TA to assist with funding the southern section of the US 101 Express Lane project (from the Santa Clara County line to I-380).

The TA will continue to receive sales tax revenues beyond FY2030. The 25-year Measure A program, which was initiated in 2009, sunsets in FY2033, and the 30-year Measure W program, initiated in 2019, sunsets in FY2049. Anticipated Measure A and W revenues beyond FY2030 are projected at \$740.3 million (\$96.8 million in Measure A and \$643.5 in Measure W). These revenues will be available for new highway project needs that may arise in the future.

	Budget FY21	Projected FY22	Projected FY23	Projected FY24	Projected FY25	Projected FY26	Projected FY27	Projected FY28	Projected FY29	Projected FY30	Total 10-year Projection FY20-FY30
Sales Tax Revenues:											
Measure A	80,000,000	87,760,000	92,586,800	95,364,404	98,225,336	101,172,096	104,207,259	107,333,477	110,553,481	113,870,086	991,072,939
Measure W	80,000,000	87,760,000	92,586,800	95,364,404	98,225,336	101,172,096	104,207,259	107,333,477	110,553,481	113,870,086	991,072,939
Highway Revenues											
Measure A (27.5%)											
Measure A KCA (17.3%)	13,840,000	15,182,480	16,017,516	16,498,042	16,992,983	17,502,773	18,027,856	18,568,691	19,125,752	19,699,525	171,455,618
Measure A SR (10.2%)	8,160,000	8,951,520	9,443,854	9,727,169	10,018,984	10,319,554	10,629,140	10,948,015	11,276,455	11,614,749	101,089,440
Measure W (22.5%)	18,000,000	19,746,000	20,832,030	21,456,991	22,100,701	22,763,722	23,446,633	24,150,032	24,874,533	25,620,769	222,991,411
Total Highway Revenues	40,000,000	43,880,000	46,293,400	47,682,202	49,112,668	50,586,048	52,103,630	53,666,738	55,276,741	56,935,043	495,536,470

#### Table 1-2. Measure A and W Revenues (FY2021 to FY2030 USD)

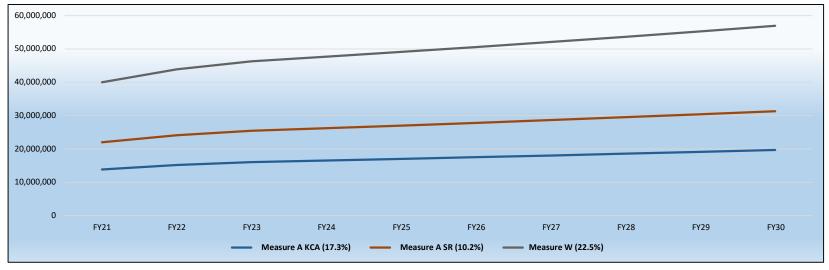


Figure 1-2. Measure A and W Revenues (FY2021 to FY2030 USD - Cumulative)

### OVERVIEW

April 30, 2021

### 1.3 HIGHWAY CIP DEVELOPMENT METHODOLOGY

Eight of the nine counties in the San Francisco Bay Area have voter-approved TEPs that specify how sales-tax dollars are to be allocated. Several of these TEPs specify in detail the highway corridors or projects to be funded; projects that are not listed in the TEP are generally ineligible to receive funding allocations from local sales tax revenues unless the TEP is amended. Not every sales tax authority needs to develop a separate Highway CIP, but all must ascertain the timing of fund expenditures on specific projects. The TA specifies periodic highway investments through the combination of a Highway CIP and an SRHP.

The TA's approach to developing this Highway CIP was to work with eligible highway project sponsors, which include cities, the County of San Mateo, the City/County Association of Governments of San Mateo County (C/CAG), and the California Department of Transportation (Caltrans). Through a project inventory process, the TA collected project information for potential highway projects that could be eligible for funding through Measures A and W.

Given that project scope, schedule, and cost information can change over time, the TA generally updates its Highway CIP every three to five years. The Highway CIP does not financially constrain the number of projects that can be submitted for consideration. Furthermore, the projects submitted are not prioritized. Inclusion in the Highway CIP does not guarantee that Measure funding will be allocated to a project; the TA subsequently determines funding allocations through a separate CFP process.

Working in coordination with the C/CAG Technical Advisory Committee (TAC), Caltrans, and other stakeholders, TA staff deployed a project inventory tool that allowed project sponsors to submit information on new and existing projects to the TA for consideration. The project information requested included a project description, scope, status, overall schedule, and cost. The cost information was broken down into various components, including cost of "next feasible phase" and total project cost. After this information was submitted, TA staff worked with project sponsors to develop more details on each project. Project sponsors were requested to provide information on the status of each project and to confirm readiness to proceed. The list of projects developed through the project inventory, along with the estimated total project cost, and status, is presented in Chapter 2, Project Inventory.

Revenue forecasts for the Highway CIP are based upon the most recent Measure A and W financial projections prepared by the TA Finance Division. The forecasts take into account a possible downturn in sales tax revenues due to COVID-19. To address a range of different post-COVID economic outcomes, the Finance Division prepared a low, mid-level, and high revenue estimate. This Highway CIP assumes the mid-level forecast. The amount of other fund sources available (the "local match") may be found in the most recent financial forecasts published in the Metropolitan Transportation Commission's *Regional Transportation Plan*. For the purposes of this Highway CIP, the estimate of other fund sources is approximated by assuming, on average, a 50 percent match.

OVERVIEW April 30, 2021

PROJECT INVENTORY

April 30, 2021

# 2.0 PROJECT INVENTORY

This Highway CIP will help guide the Measure A and W highway program CFP. In accordance with established TA policy, only projects that are included in the Highway CIP are eligible to compete for funding in the CFP. The project inventory procedure creates a transparent process for reviewing, evaluating, and selecting projects put forth by local sponsors. The next highway program CFP is scheduled for Summer 2021.

# 2.1 DEVELOPMENT PHASE APPROACH

The project inventory process resulted in the submittal of 30 projects. The projects are in various stages of development. Some are in the preliminary planning phase, others are progressing through the environmental review phase. Projects that have completed the final engineering design phase of work are considered "shovel ready" and can move into construction.

Under established TA practice, projects are funded one phase at a time. Therefore, it is important to understand which phase a project is currently in, and which is the next feasible phase that will require funding. For the purposes of this Highway CIP, the lexicon of different stages of project development are distilled down to the five phases shown in Table 2-1: 1) Planning & Feasibility Studies, 2) Environmental Review, 3) Engineering Design, 4) Right-of-Way & Construction, and 5) Landscaping/Closeout. The sub-phases shown in Table 2-1 are intended to show a few examples of the many different terms used by project proponents to describe a particular phase.

#### **PROJECT INVENTORY**

April 30, 2021

	Phase	Sub-Phase	
1	Planning & Feasibility Studies	Not initiated Preliminary Planning Study Project Initiation Document Project Study Report	
2	Environmental Review	Environmental Review Project Approval and Environmental Document Preliminary Engineering	*
3	Engineering Design	65% Design 95% Design Final Plans, Specifications, and Cost Estimates	
4	Right-of-Way & Construction	Right-of-Way Engineering Design Support During Construction Construction	Ba
5	Landscaping/Closeout	Landscaping Design Landscape Construction Plant Establishment Period	
n/a	Completed	Project Closeout	EEXE

# 2.2 **PROJECT SUBMITTALS**

# 2.2.1 Previously Submitted Projects

The last SRHP was approved by the TA in 2011. It included a list of projects that became eligible for funding, provided that project sponsors subsequently submitted a funding request through

#### **PROJECT INVENTORY**

April 30, 2021

the CFP that followed.<sup>2</sup> Previously submitted projects that have already been accepted by the TA are designated a project number that starts with the letters "TA."

The TA may elect to sponsor projects that span more than one jurisdiction and have countywide significance. Projects that are sponsored by the TA also receive the same "TA" letter designation.

Through the project inventory process, project sponsors are requested to update the information for each of their previously submitted projects. To facilitate this update process, the TA deployed a convenient Excel-based inventory tool that sponsors could easily access and edit.

The list of 22 projects included among the locally and TA-submitted projects is shown in Table 2-2. The total cost of all previously submitted projects is \$2.7 billion. The right-hand column of Table 2-2 indicates "Cost of Next Feasible Phase". This is the incremental cost of proceeding to the next phase of project development in the order listed in Table 2.-1. It is intended to inform the TA of the funding needed to keep each project moving forward. For example, if a project is currently in the Environmental Review phase, it is understood that adequate funding is available to fully complete that phase. Moving forward to the next phase – Engineering Design – will likely require additional funding. The "Cost of Next Feasible Phase" for the project in this example would be the cost of the Engineering Design phase.

### 2.2.2 Newly Submitted Projects

Working with the C/CAG TAC, TA staff encouraged the public works directors and planners from the local jurisdictions of San Mateo to submit new projects that were not submitted previously. In response to this request, the TA received eight new projects from six different sponsors. Newly submitted projects are designated with a project number beginning with "UA" to indicate that the project is "unassigned," indicating that the project has not yet been accepted by the TA. Table 2-3 shows the eight new project submittals. Seven of these projects are in Phase 1, Planning & Feasibility Studies, and one project is in Phase 2, Environmental Review. The total cost of newly submitted projects is \$258 million.

To receive a TA number designation, proponents for new projects will need to submit the project during the next CFP, and selected projects for funding will then be assigned a TA number.

Figure 2-1 shows the geographic location of each project by TA and UA designation.

<sup>&</sup>lt;sup>2</sup> San Mateo County Transportation Authority, New Measure A Program Short-range Highway Plan (2011-2021), October 2011.

### Table 2-2. Previously Submitted Projects by Phase

TA-000625         TA-000710         TA-000733         TA-000792         SR 92,/         TA-000796         TA-000796         TA-100321         Roi         TA-000803         U.S. 1         TA-100318         TA-100319         U.S. 1         TA-100319         TA-100319         U.S. 1         TA-000768         U.S. 1         TA-000794         SR         RIGHT-OF-WATE         TA-000793         U.S. 1         TA-000794         SR         TA-000795         U.S. 1         TA-000791         U.S. 1         TA-000793         Highw         TA-000795         TA-000822         Highw         TA-000823         Highw         TA-000823	US 101 Candlestick Point Interchange Environmental Studies Geneva Avenue Extension SR 92 from US 101 to I-280 92/South Delaware Interchange Improvement I-380 Congestion Improvements Route 1/Manor Drive Overcrossing Project	Brisbane Brisbane San Mateo San Bruno Pacifica San Mateo SSF	Project Initiation Document Preliminary Planning Study SUBTOTAL: Final Design (PS&E)	\$ \$ \$ \$ \$	47,700,000 95,000,000 551,000,000 76,600,000 146,000,000 24,236,885 940,536,885	\$ \$ \$ \$	500,000 500,000 1,000,000 1,000,000
TA-000625         TA-000710         TA-000733         TA-000792       SR 92/         TA-000796       TA-000796         TA-100321       Roi         TA-000803       U.S. 1         TA-100302       U.S. 1         TA-100318       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-000768       U.S. 1         TA-000794       SR         RIGHT-OF-WAT & CO       SR         TA-000793       Highw         TA-000793       Highw         TA-000822       Highw         TA-000823       Highw         TA-000823       Highw	Environmental Studies Geneva Avenue Extension SR 92 from US 101 to I-280 92/South Delaware Interchange Improvement I-380 Congestion Improvements Route 1/Manor Drive Overcrossing Project I REVIEW U.S. 101/ Peninsula Ave Interchange Project S. 101 / Produce Avenue Interchange Project	Brisbane San Mateo San Mateo San Bruno Pacifica San Mateo	Preliminary Planning Study SUBTOTAL:	\$ \$ \$ \$	95,000,000 551,000,000 76,600,000 146,000,000 24,236,885	\$ \$ \$ \$	500,000
TA-000733     R       TA-000792     SR 92/       TA-000796     R       TA-100321     R       TA-000803     U.S. 1       TA-100302     U.S. 1       TA-100318     U.S. 1       TA-100318     U.S. 1       TA-100319     Proje       TA-000768     U.S. 1       TA-000768     U.S. 1       TA-000794     SR       TA-000795     U.S. 1       TA-000796     U.S. 1       TA-000797     SR       TA-000798     U.S. 1       TA-000799     SR       TA-000791     SR       TA-000793     Highw       TA-000820     Highw       TA-000823     Highw       TA-000823     Highw	SR 92 from US 101 to I-280 92/South Delaware Interchange Improvement I-380 Congestion Improvements Route 1/Manor Drive Overcrossing Project IL REVIEW U.S. 101/ Peninsula Ave Interchange Project .S. 101 / Produce Avenue Interchange Project	San Mateo San Mateo San Bruno Pacifica San Mateo	Preliminary Planning Study Preliminary Planning Study Preliminary Planning Study Preliminary Planning Study SUBTOTAL:	\$ \$ \$	551,000,000 76,600,000 146,000,000 24,236,885	\$ \$ \$	1,000,000
Image: matrix and set of the set of t	92/South Delaware Interchange Improvement I-380 Congestion Improvements Route 1/Manor Drive Overcrossing Project IL REVIEW U.S. 101/ Peninsula Ave Interchange Project .S. 101 / Produce Avenue Interchange Project	San Mateo San Bruno Pacifica San Mateo	Preliminary Planning Study Preliminary Planning Study Preliminary Planning Study SUBTOTAL:	\$ \$ \$	76,600,000 146,000,000 24,236,885	\$ \$	
TA-000796       TA-100321       Rot       TA-000801       U.S.       TA-000803       U.S.       TA-100318       TA-100318       U.S. 1       TA-100319       U.S. 1       TA-100319       U.S. 1       TA-100319       U.S. 1       TA-100319       U.S. 1       TA-000768       U.S. 1       TA-000794       SR       RIGHT-OF-W→ € CC       TA-000793       Highw       TA-000795       U.S. 1       TA-000793       Highw       TA-000822       Highw       TA-000823       Highw       TA-000823	I-380 Congestion Improvements Route 1/Manor Drive Overcrossing Project L REVIEW U.S. 101/ Peninsula Ave Interchange Project S. 101 / Produce Avenue Interchange Project	San Bruno Pacifica San Mateo	Preliminary Planning Study Preliminary Planning Study SUBTOTAL:	\$ \$	146,000,000 24,236,885	\$	1,000,000
TA-100321     Rou       ENVIRONMENTAL R       TA-000801     U.S.       TA-100302     U.S.       TA-100303     U.S.       TA-100318     U.S.       TA-100319     Proje       TA-100319     V.S.       TA-100319     U.S.       TA-100319     U.S.       TA-100319     V.S.       TA-000768     U.S.       TA-000794     SR       TA-000795     U.S.       TA-000791     U.S.       TA-000793     Highw       TA-000820     Highw       TA-000823     Highw       TA-000823     Highw	Route 1/Manor Drive Overcrossing Project L REVIEW U.S. 101/ Peninsula Ave Interchange Project S. 101 / Produce Avenue Interchange Project	Pacifica San Mateo	Preliminary Planning Study SUBTOTAL:	\$	24,236,885	_	
ENVIRONMENTAL R         TA-000803       U.S. 1         TA-100302       U.S. 1         TA-100318       U.S. 1         TA-100318       U.S. 1         TA-100318       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-000768       U.S. 1         TA-000768       U.S. 1         TA-000794       SR         TA-000795       U.S. 1         TA-000791       U.S. 1         TA-000793       Highw         TA-000820       Highw         TA-000823       Highw         TA-000823       Highw	L REVIEW U.S. 101/ Peninsula Ave Interchange Project .S. 101 / Produce Avenue Interchange Project	San Mateo	SUBTOTAL:				500,000
TA-000801       U.S.         TA-000803       U.S.         TA-100302       U.S. 1         TA-100318       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-000768       U.S. 1         TA-000794       SR         RIGHT-OF-WAX       SR         TA-000791       U.S. 1         TA-000793       Highw         TA-000820       U.U.         TA-000822       Highw         TA-000823       Highw         TA-000823       Highw	U.S. 101/ Peninsula Ave Interchange Project			Ş	940,536 XX5	\$	1,720,000
TA-000801       U.S.         TA-000803       U.S.         TA-100302       U.S. 1         TA-100318       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         TA-000768       U.S. 1         TA-000794       SR         RIGHT-OF-WAX       SR         TA-000791       U.S. 1         TA-000793       Highw         TA-000820       U.U.         TA-000823       Highw         TA-000823       Highw	U.S. 101/ Peninsula Ave Interchange Project		Final Design (PS&E)	-	1 12,000,000	\$	5,220,000
TA-000803     U.S. 3       TA-100302     U.S. 1       TA-100318     U.S. 1       TA-100319     U.S. 1       TA-100319     U.S. 1       TA-100319     U.S. 1       TA-100319     U.S. 1       TA-000768     U.S. 1       TA-000794     SR       TA-000795     U.S. 1       TA-000791     U.S. 1       TA-000793     Highw       TA-000820     Highw       TA-000822     Highw       TA-000823     Highw	.S. 101 / Produce Avenue Interchange Project		Final Design (PS&E)	\$	120,000,000	\$	C FF7 000
TA-100302       U.S. 1         TA-100318       U.S. 1         TA-100319       U.S. 1         TA-100319       U.S. 1         Proje       Proje         ENGINEERING DESIG       U.S. 1         TA-000768       U.S. 1         TA-000794       SR         RIGHT-OF-WAT & CO       SR         TA-000791       U.S. 1         TA-000793       Highw         TA-000795       U.U.         TA-000820       Highw         TA-000823       Highw         TA-000823       Highw			Environmental	ې ډ	120,000,000 94,150,000	ې ډ	6,557,000
TA-100318       TA-100319     U.S. 1 Proje       ENGINEERING DESIG       TA-000768     U.S. 1       TA-000794     SR       RIGHT-OF-WV & C       TA-000791     U.S. 1       TA-000793     Highw       TA-000795     U.       TA-000822     Highw       TA-000823     Highw	SF/SM Co Line)	TA & C/CAG	Final Design (PS&E)	\$	349,600,000	, \$	16,800,000
TA-100319     Proje       ENGINEERING DESIC       TA-000768     U.S.       TA-000794     SR       RIGHT-OF-WAY & CO       TA-000791     U.S.       TA-000793     Highw       TA-000795     U.       TA-000822     Highw       TA-000823     Highw       TA-000824     Highw	5. 101 / SR 92 Interchange Area Improvements Project	TA & C/CAG	Final Design (PS&E)	\$	30,017,000	\$	2,817,000
TA-000768       U.S.         TA-000794       SR         RIGHT-OF-WAY & CO       U.S.         TA-000791       U.S.         TA-000793       Highw         TA-000795       U.         TA-000820       Highw         TA-000822       Highw         TA-000823       Highw         TA-000824       Highw	.S. 101 / SR 92 Interchange Direct Connector roject	TA & C/CAG	Final Design (PS&E)	\$	194,400,000	\$	12,200,000
TA-000768       U.S.         TA-000794       SR         RIGHT-OF-WAY & CO         TA-000791       U.S.         TA-000793       Highw         TA-000795       U.         TA-000820       Highw         TA-000822       Highw         TA-000823       Highw         TA-000824       Highw			SUBTOTAL:	\$	788,167,000	\$	46,374,000
IA-000794         RIGHT-OF-WAY & C         TA-000791       U.S. 1         TA-000793       Highw         TA-000795       U.         TA-000800       L         TA-000822       Highw         TA-000823       Highw         TA-000823       Highw	J.S. 101/ Woodside Road (SR 84) Interchange Project	Redwood City	Right-of-Way	\$	279,450,000	\$	60,000,000
TA-000791       U.S. 1         TA-000793       Highw         TA-000795       U.         TA-000800       U         TA-000822       Highw         TA-000823       Highw         TA-000824       Highw         TA-000825       Highw	SR 1 (Mid Coast) Congestion, Throughput & Safety Improvements	SM County	Preliminary Engineering	\$	16,219,815	\$	1,000,000
TA-000791       U.S. 1         TA-000793       Highw         TA-000795       U.         TA-000800       U         TA-000822       Highw         TA-000823       Highw         TA-000824       Highw         TA-000825       Highw			SUBTOTAL:	\$	295,669,815	\$	61,000,000
TA-000793     Highw       TA-000795     U.       TA-000800     L       TA-000822     Highv       TA-000823     Highv       TA-000823     Highv							
TA-000793     L       TA-000795     U.       TA-000800     L       TA-000822     Highw Pr       TA-000823     Highw Landscaping/CLO	.S. 101 Express Lanes Project (SCL/SM Co Line to I-380)	TA & C/CAG	Construction	\$	581,136,036	\$	5,000,000
TA-000820 Highv TA-000822 Highv TA-000823 Highv LANDSCAPING/CLO	shway 1 Safety and Operational Improvements at Gray Whale Cove	SM County	Final Design (PS&E)	\$	3,179,505	\$	925,000
TA-000822 Highv Pr TA-000823 Highv LANDSCAPING/CLO	U.S. 101/ Holly Street Interchange Project	San Carlos	Construction	\$	18,970,000	\$	18,070,000
TA-000823 Highv	US 101/ University Avenue Interchange Improvements	East Palo Alto	Final Design (PS&E)	\$	15,660,000	\$	15,660,000
LANDSCAPING/CLO	ghway 1 Safety and Operational Improvement Project: Wavecrest Road to Poplar Street	The City of Half Moon Bay	Project Closeout	\$	5,090,000	\$	4,040,000
		City of Half Moon Bay	Construction	\$	11,162,290	\$	9,893,000
	ghway 1 Safety and Operational Improvement Project: Main Street to Kehoe Avenue		SUBTOTAL:	\$	635,197,831	\$	53,588,000
TA-000621 U	Project: Main Street to Kehoe Avenue						
	Project: Main Street to Kehoe Avenue			4		\$	2,080,000
TA-000622 U.S.	Project: Main Street to Kehoe Avenue	Burlingame	Landscaping	\$	2,080,000		
TA-000805 Highw	Project: Main Street to Kehoe Avenue	Burlingame Menlo Park	Landscaping Landscaping	\$ \$	2,080,000	\$	5,560,000
	Project: Main Street to Kehoe Avenue LOSEOUT U.S. 101 / Broadway Interchange Project U.S. 101 / Willow Road Interchange Project -	Menlo Park				\$ \$	5,560,000 1,870,000
	Project: Main Street to Kehoe Avenue LOSEOUT U.S. 101 / Broadway Interchange Project U.S. 101 / Willow Road Interchange Project - Landscaping ghway 92 / SR 82 (El Camino Real) Interchange	Menlo Park	Landscaping	\$ \$ \$	6,360,000		

Note: Total Project Cost includes expenditures incurred prior to FY2021 in the amount of \$612,133,921.

### Table 2-3. Newly Submitted Projects

TA Project #:	Project Name:	Sponsor (Agency):	Development Phase:	Tot	al Project Cost:	F	Cost of Next Feasible Phase:
PLANNING AN	ID FEASIBILITY STUDIES						
UA-000101	I-280/John Daly Boulevard Overcrossing North Side Widening for Bicycle/Pedestrian Accommodation	Daly City	Preliminary Planning Study	\$	16,650,000	\$	1,000,000
UA-000102	I-380 Connection (via new Haskins Way Bridge)	South San Francisco	Preliminary Planning Study	\$	128,000,000	\$	1,000,000
UA-000104	Kelly Avenue & Highway 1 Safety Improvement Project	The City of Half Moon Bay	Not initiated	\$	1,500,000	\$	1,500,000
UA-000105	SR 82 (El Camino Real), Safety and Operational Improvements	Redwood City	Project Initiation Document	\$	30,000,000	\$	500,000
UA-000106	SR 84 (Woodside Road), Safety and Operational Improvements	Redwood City	Not initiated	\$	40,000,000	\$	250,000
UA-000107	US 101/Sierra Point Pkwy Interchange replacement and Lagoon Way extension	Brisbane	Preliminary Planning Study	\$	24,000,000	\$	500,000
UA-000108	Roadway Facility Improvements between Highway 101 and Dumbarton Bridge	C/CAG	Not initiated	\$	7,000,000	\$	500,000
_			SUBTOTAL:	\$	247,150,000	\$	5,250,000
ENVIRONMEN	ITAL REVIEW						
UA-000103	ITS Improvements in Daly City, Brisbane, and Colma	C/CAG	Final Design (PS&E)	\$	10,885,000	\$	350,000
			SUBTOTAL:	· ·	10,885,000		350,000
			Total Cost:	\$	258,035,000	\$	5,600,000

#### **PROJECT INVENTORY**

April 30, 2021

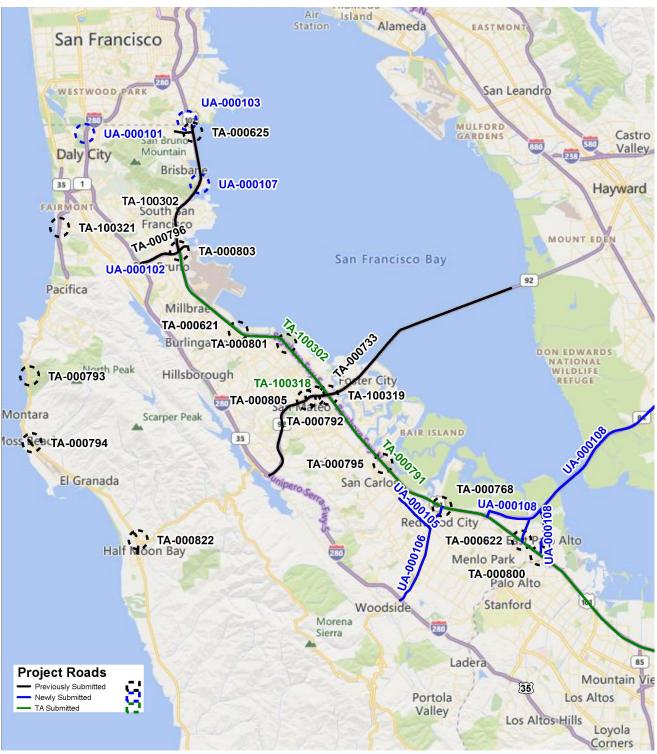


Figure 2-1. Project Location Map

**PROJECT INVENTORY** 

April 30, 2021

### 2.3 GAP ANALYSIS

The purpose of the Gap Analysis was to determine whether the proposed highway improvements developed through the project inventory exercise fully addressed the congestion and safety issues identified in the TA's *Existing and Future Conditions Report*. The Gap Analysis used a qualitative approach to compare the location of proposed projects with data and information found in the *State Highway System Congestion and Safety Assessment* prepared by C/CAG.<sup>3</sup> The Gap Analysis identified a number of areas on the state highway system with performance deficiencies that are not currently being addressed or studied through the project inventory. The results of the analysis were to:

- Consider whether unaddressed high-needs areas warrant the introduction of additional planning studies to the project inventory.
- Notify Caltrans and local jurisdictions of the gap analysis results.
- Confer with local jurisdictions to determine appropriate project sponsor(s) for the new corridor/planning studies.

Based upon the results of the Gap Analysis, the TA determined which roadway segments warranted further consideration for possible corridor studies. Additional review was conducted to determine whether the project or study identified was of countywide significance, and whether it should be added to the project inventory. The TA has the flexibility to establish a separate funding category dedicated to funding TA-sponsored planning studies identified through the Gap Analysis.

Segment or Vicinity	Performance Issue	Countywide Significance?
Washington St (Daly City) to I-380 (San Bruno)	VHD, Speed, Travel Time Reliability, and Crashes per mile	✓
SR-84 to SC County Line	Travel Time Reliability, Crashes per mile	
San Francisco Co. to San Pedro Poplar to SR 92 SR 84 to Atherton Ave. Atherton Ave. to Santa Clara Co.	VHD, Speed, Travel Time Reliability, and Crashes per mile	
SR-35 to SR 1	Travel Time Reliability, Speed, Crashes per mile	
US 101 to Foster City	VHD, Speed, Travel Reliability	1
	Washington St (Daly City) to I-380 (San Bruno) SR-84 to SC County Line San Francisco Co. to San Pedro Poplar to SR 92 SR 84 to Atherton Ave. Atherton Ave. to Santa Clara Co. SR-35 to SR 1	Washington St (Daly City) to I-380 (San Bruno)VHD, Speed, Travel Time Reliability, and Crashes per mileSR-84 to SC County LineTravel Time Reliability, Crashes per mileSan Francisco Co. to San Pedro Poplar to SR 92 SR 84 to Atherton Ave. Atherton Ave. to Santa Clara Co.VHD, Speed, Travel Time Reliability, and Crashes per mileSR-35 to SR 1Travel Time Reliability, Speed, Crashes per mileUS 101 to Foster CityVHD, Speed, Travel

\_\_\_\_\_

<sup>&</sup>lt;sup>3</sup> City/County Association of Governments of San Mateo County, State Highway System Congestion and Safety Assessment Update 2019.

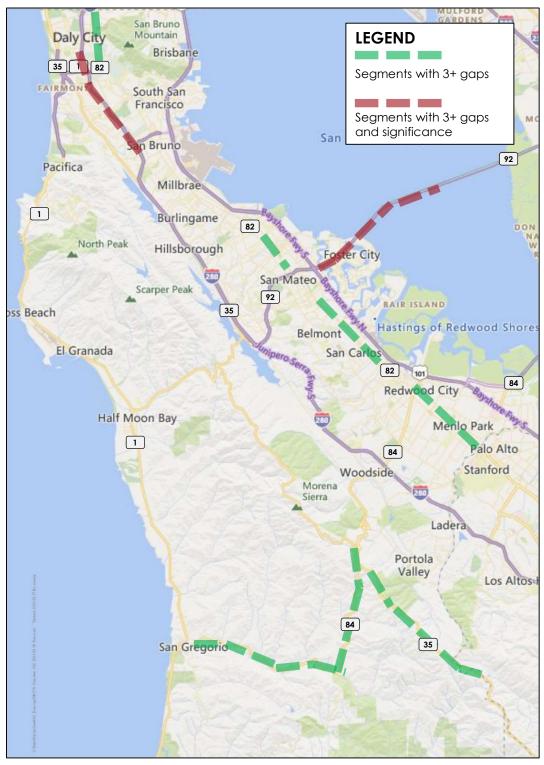


Figure 2-2. Potential Gap Analysis Projects

### **PROJECT INVENTORY**

April 30, 2021

### 2.4 MEASURE A BREAKDOWN OF PROJECTED NEED BY CORRIDOR TYPE

The Measure A TEP identifies two distinct funding categories for capital roadway projects: KCA and SR.<sup>4</sup> These categories are found in Measure A only; they were not carried forward into Measure W.

<u>Key Congested Areas</u>: (63 percent of highway program funds) This funding component includes 11 different projects identified within five highway corridors. KCAs were designated by city, county, and TA engineers and confirmed through public input.

<u>Supplemental Roadways:</u> (37 percent of highway program funds) A partial list of candidate projects is provided in the TEP. However, additional projects may be submitted for consideration. SRs include all types of roadways (local, collector, arterial, and state routes) anywhere in the county.

Examining the TA- and UA-designated projects, the project inventory needs indicate that 57 percent of project costs are identified in Measure A as KCA and 43 percent are SR. The Measure A cost percentage assigned to KCA and SR funding in the Measure A TEP is 63/37. Reconciliation of the call on Measure A revenues with the KCA/SR ratio established in the TEP will be addressed on a year-to-year basis by reviewing historic fund allocations and setting future allocation to meet the 63/37 target over several funding cycles.

Project Type	Estimated Total Project Costs	Percentage of Total Project Cost	Measure A Percentage Designation
Key Congested Area (KCA) projects:	\$608.7	57%	63%
Supplemental Roadway (SR) projects:	\$461.9	43%	37%
Total Project Costs:	\$1,070.6	100%	100%

### Table 2-5. Breakdown of Measure A KCA/SR Projected Costs (in millions USD)

<sup>&</sup>lt;sup>4</sup> SMCTA, 2004 Transportation Expenditure Plan, p. 11.

**PROJECT INVENTORY** April 30, 2021

#### IDENTIFYING COST OF NEXT FEASIBLE PHASE April 30, 2021

# **3.0 IDENTIFYING COST OF NEXT FEASIBLE PHASE**

Each project in the Highway CIP inventory is assigned one of the following five phases:

- 1. Planning and Feasibility Studies
- 2. Environmental Review
- 3. Engineering Design
- 4. Right-of-way & Construction
- 5. Landscaping/Closeout.

Several of the projects that were submitted by project sponsors have a high estimated construction cost but are still in the early stages of development (Phase 1). These projects may take many years to plan, design, and construct. By identifying the cost for each project's "Next Feasible Phase," the TA can focus expenditures on the most pressing elements that are required to move projects forward into design and onward to construction.

Some projects have completed the Engineering Design phase and are ready for construction. Other projects have completed the roadway construction portion of the project and are in the final project phase, which is usually Landscaping. The Landscaping phase is generally performed under a separate contract that, due to a lengthy plant establishment period, can continue for several years after completion of roadway construction.

The concept of "next feasible phase" puts the projected shortfall into context. Of the 30 projects that were submitted, 13 identify Planning & Feasibility Studies as the next phase. Six of the projects are entering the Environmental Review phase, two are ready to undertake Engineering Design, six – Right-of-Way & Construction, and three are wrapping up with Landscaping/Closeout. As shown in Table 3-1, the costs for the next feasible phase for all 30 projects is \$181.3 million, which is considerably less than the estimated total project cost.

	OL OF NOAL I O					
Phase	1	2	3	4	5	
Project Type	Planning & Feasibility Studies	Environmental Review	Engineering Design	Right-of-Way & Construction	Landscaping / Closeout	Total
Number of Projects	13	6	2	6	3	30
Total Cost (in millions USD)	\$10.5	\$46.7	\$61.0	\$53.6	\$9.5	\$181.3

#### Table 3-1. Cost of Next Feasible Phase

HIGHWAY CIP DEVELOPMENT April 30, 2021

# 4.0 HIGHWAY CIP DEVELOPMENT

### 4.1 POLICY CONSIDERATIONS

The Highway CIP sets the stage for the TA to allocate Measure A and W funds to the highest performing projects in the areas of San Mateo County that show the greatest need. As the fund allocation process moves forward, several policy issues will need to be addressed:

1. **Pay-as-you-go versus Bonding**: Historically, the TA has funded all projects on a "pay-asyou-go" basis and avoided borrowing against future sales tax revenues. The TA did, however, recently complete a \$100 million bond transaction to help accelerate the muchneeded US 101 Express Lanes project (TA-000791), which is overseen by a separate Joint Powers Authority.<sup>5</sup>

Will the TA continue to adhere to its previous pay-as-you-go approach on future highway projects, or will the TA consider additional debt financing mechanisms to accelerate delivery of selected projects, including possible revenue generating projects that involve tolling?

2. <u>Attaining the 50-Percent Match Requirement</u>: The TA has an adopted requirement that a sponsor must provide a minimum 10 percent match when applying to a Call for Projects. However, the TA also has a general policy to only fund up to 50 percent of the total value of a project. Ultimately, the implication of this policy is that at least half of a project's total value must be funded by leveraging non-TA funding. Preliminary estimates indicate that even if an overall 50 percent match for all highway projects is secured (that is, the match equals the TA contribution), a funding shortfall will persist through the close of the 10-year CIP.<sup>6</sup> The TA has the flexibility to raise or lower the match percentage requirement in the future, but the lower the match, the greater the shortfall. At the time of this writing, potential changes are under consideration by both the California Transportation Commission and the California Air Resources Board to redirect highway funding toward transit, bicycle, and pedestrian projects that can help reduce greenhouse gas emissions. If implemented, this change would lead to a significant drop in funds available for highway congestion relief.

Should the TA revisit its rule to fund only up to 50 percent of a project's total cost?

3. <u>Establishing a Separate Fund for Planning Studies</u>: The Gap Analysis identified planning studies that are of countywide significance. In addition, several major corridor improvement studies were identified through the project inventory. The TA has the flexibility to allocate funds to sponsors to conduct planning studies, and to sponsor and fund those studies that are of countywide significance.

<sup>&</sup>lt;sup>5</sup> The management and operations of the US 101 Express lanes is governed by the San Mateo County Express Lanes Joint Powers Authority (SMCEL JPA), a six member JPA consisting of three SMCTA Board members, and three C/CAG Board members.

<sup>&</sup>lt;sup>6</sup> See projected shortfall in Table A-1 of Appendix A.

#### **HIGHWAY CIP DEVELOPMENT**

April 30, 2021

Based upon the Gap Analysis or other studies, should the TA create a "set aside" for corridor studies of countywide significance.

### 4.2 PROPOSED HIGHWAY CIP

Chapter 2 of this report lists the 30 projects that were received from 15 project sponsors through the inventory tool (see Tables 2-1 and 2-2). Some eligible sponsors submitted several projects, while others submitted none. Four projects were submitted by the TA with C/CAG as a cosponsor. The City of San Mateo submitted four projects; Redwood City, Brisbane, and Half Moon Bay submitted three projects each; and C/CAG, San Mateo County, and South San Francisco each submitted two projects. The remaining sponsors, including Burlingame, Daly City, East Palo Alto, Menlo Park, Pacifica, San Bruno, and San Carlos submitted one project each. The cities of Millbrae, Belmont, and Foster City did not submit a project. The towns of Portola Valley, Woodside, Atherton, and Hillsborough also did not submit.

As discussed in Chapter 2, the total cost of the 22 "TA" projects that were already in the TA's 2011 SRHP is estimated at \$2.7 billion (Table 2-2). The total cost of the eight newly submitted projects with the "UA" designation is estimated at \$258 million (Table 2-3).

As shown in Figure 4-1, the TA and C/CAG jointly submitted \$1.155 billion in projects. Five sponsors submitted over \$100 million in projects, and nine sponsors submitted projects totaling less than \$25 million.

#### HIGHWAY CIP DEVELOPMENT

April 30, 2021

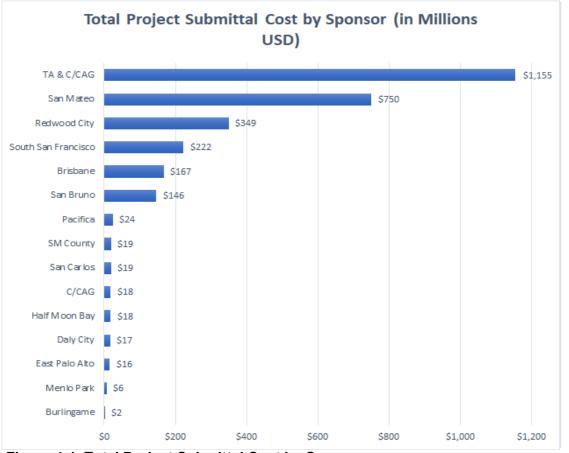


Figure 4-1. Total Project Submittal Cost by Sponsor

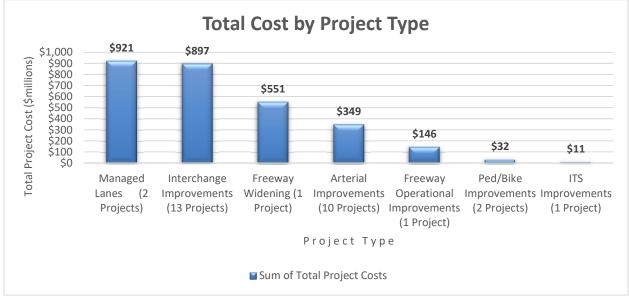


Figure 4-2. Total Cost by Project Type

HIGHWAY CIP DEVELOPMENT April 30, 2021

## 4.3 INITIAL FINDINGS

# 4.3.1 Project Costs and Available Funding through FY 2030

Tables 4-1 and 4-2 below show Measure A and W revenues and project costs for the 10-year period of FY2021 through FY2030:

Funding Source	Amount
Measure A KCA funding	\$171.5
Measure A SR funding	101.1
Measure W	223.0
Total Funding Available	\$495.6

Table 4-1.	Fund Pro	iections	(FY2021.	.FY2030 in	millions	USD)
	I UNU FIO	Jections	(    202	- 12030 11	1 1111110115	030)

Table 4-2.	Funding	Shortfall	(FY2021-	-FY2030 in	millions	USD)
	i ununig	Onortian				000,

Cost/Revenue	Amount
Total Project Costs through FY 2030	\$1,247.3
Total Measure Revenues	495.6
Total Shortfalls	\$751.7

The above scenario assumes no matching funds, when in fact, the TA's *Strategic Plan* encourages a minimum 10-percent match for both Measure A and W highway projects. Furthermore, if the TA adheres to its general policy to fund only up to 50 percent of a project's total cost, then a one-to-one leveraging for Measure A and W funds would be achieved.<sup>7</sup> Assuming the one-to-one match is achieved, an additional \$495.6 million in other revenues would reduce the shortfall to \$256.1 million over the life of the Highway CIP.

# 4.3.2 Project Costs and Available Funding through FY 2049

Table 4-3 and 4-4 below show total expected revenues for Measure A (through FY2033) and Measure W (through FY2049) along with all-in project costs through FY2030 and beyond.

Funding Source	Amount
Measure A KCA funding	\$232.3
Measure A SR funding	137.0
Measure W	866.5
Total Measure Revenues	\$1,235.8

<sup>&</sup>lt;sup>7</sup> SMCTA Strategic Plan, 2020-2024, Table 7-1, p. 52

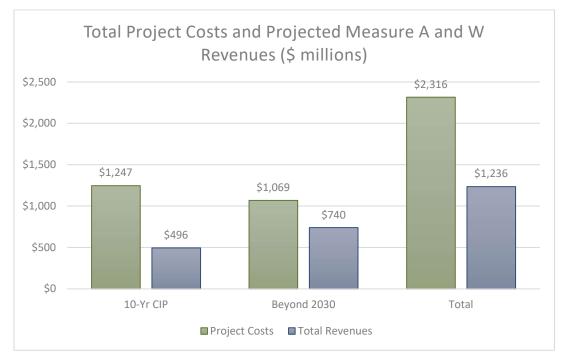
#### **HIGHWAY CIP DEVELOPMENT**

April 30, 2021

<u> </u>	
Cost/Revenue	Amount
Total Project Costs through FY 2049	\$2,315.9
Total Measure Revenues	1,235.8
Total Shortfall	\$1,080.1

### Table 4-4. Funding Shortfall (FY 2021-FY 2049 in millions USD)

Review of the above suggests that the TA's preliminary highway improvement project inventory list exceeds available fund revenues by \$1,080.1 million. As shown in Figure 4-3, without matching funds, the shortfall is persistent through FY 2030 and beyond.



### Figure 4-3. Total Project Costs and Revenues (in millions USD)

### 4.3.3 Conclusions

Developing an estimate for expenditures and revenues requires the collection of project cost and cash-flow information for each project in the Highway CIP. Through the project inventory process, this information was submitted to the TA for review. Based upon the timing of project expenditures by phase as submitted by the project sponsors, a preliminary 10-year estimate of revenues and expenditures was developed. The year-by-year balance of revenues and expenditures can result in either a net surplus or deficit of funds for any given year. Due to the heavy draw on revenues beginning in FY2025, the TA could begin to experience a negative fund balance. (Refer to Table A-1 and Figure A-1 of Appendix A.

A closer examination is necessary to fully understand the financial implications of the 10-year Highway CIP. Historically, actual project costs have generally exceeded initial cost estimates

#### **HIGHWAY CIP DEVELOPMENT**

April 30, 2021

due to the combination of inflation and unforeseen conditions during construction. In the case of the Highway CIP, however, funding required to keep projects moving forward during the next 10 years could be lower than projected. While project costs may remain constant, or more likely, increase over time, delays in project schedule, which would push the timetable for construction out beyond the FY2030 horizon of this Highway CIP, could reduce demand for funding and improve cash flow. Furthermore, available funding during the next 10 years could be significantly higher than the \$495.6 million estimate shown in Table 4-1. If project proponents are able to garner matching funds, and if the TA were to require a 50 percent match from all project proponents, then available revenues could double to \$991.2 million, reducing the shortfall from \$751.7 million to \$256.1 million. Bringing in the previously unexpended funds – \$84.0 million in Measure A and the \$28.6 million in Measure W, for a total of \$112.6 million – would further reduce the shortfall to \$143.5 million. And finally, federal legislation aimed at rehabilitating and improving the country's transportation infrastructure could improve the outlook for achieving, and perhaps even exceeding the 50 percent match.

In conclusion, the TA is well positioned to deliver a significant number of much needed highway improvement projects through FY2030. Following adoption of the CIP and the SRHP, the TA will hold its next CFP. The CFP will enable the TA to carefully select and fund only the highest performing projects that demonstrate the best state of readiness to move into the next feasible phase.

## 4.4 NEXT STEPS

Completion of the 2021 project inventory and Highway CIP constitutes a significant first step in positioning the TA to fund major highway projects in the coming decade. The next steps are as follows:

- 1. Apply the TA's adopted project evaluation criteria found in the *Strategic Plan* to further analyze project costs and benefits and identify which projects are the most effective at achieving the TA's goals.
- 2. Prepare a Short Range Highway Plan that builds upon the findings of the CIP with a focus on project evaluation, project prioritization, costs and revenues.
- 3. Conduct a CFP to distribute available funds after the TA adopts the Highway CIP and SRHP. The CFP will require submittal of more detailed information from project sponsors on scope, cost, schedule, and - most importantly- readiness to move into the next feasible phase. The TA will also request that sponsors submit full documentation of available matching funds.

HIGHWAY CIP DEVELOPMENT April 30, 2021

# **APPENDIX A**

**Detailed 10-Year CIP** 

Detailed 10-Year CIP April 30, 2021

# Appendix A Detailed 10-Year CIP

The following Table A-1 and Figure A-1 show total Measure A and W revenues along with project cost data for fiscal year (FY) 2021 through FY2030. Important to note are the following:

- The cost of "next feasible phase" developed in Chapter 3 is shown at \$181.6 million, spread over the first five years of the Capital Improvement Program (CIP), and reduced by 50 percent to account for the funding match.
- All project costs assume a 50 percent match, so the draw on revenues is half of the total project cost.
- The steep rise in project costs during FY2026 is due to a number of major projects on US 101:
  - o US 101/Woodside Road Interchange
  - US 101 Managed Lanes North (from I-380 to the San Francisco County Line)
  - US 101/ SR 92 Interchange Direct Connectors

Table A-2, Master Schedule of Expenditures, provides year-by-year expenditures for each project by phase and indicates the spread of those expenditures over time. The top row of the table shows the total expenditures for all projects prior, during, and after the FY2021 to FY2030 Highway CIP timeframe.

#### MEASURE A AND W HIGHWAY CAPITAL IMPROVEMENT PROGRAM FY2021-FY2030

Detailed 10-Year CIP April 30, 2021

This page left blank intentionally.

	Budget FY21	Projected FY22	Projected FY23	Projected FY24	Projected FY25	Projected FY26	Projected FY27	Projected FY28	Projected FY29	Projected FY30	Total 10-year Projection FY20-FY30
Measure A	80,000,000	87,760,000	92,586,800	95,364,404	98,225,336	101,172,096	104,207,259	107,333,477	110,553,481	113,870,086	991,072,939
Measure W	80,000,000	87,760,000	92,586,800	95,364,404	98,225,336	101,172,096	104,207,259	107,333,477	110,553,481	113,870,086	991,072,939
Highway Revenues	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	
Measure A (27.5%)											
Measure A KCA (17.3%)	13,840,000	15,182,480	16,017,516	16,498,042	16,992,983	17,502,773	18,027,856	18,568,691	19,125,752	19,699,525	171,455,618
Measure A SR (10.2%)	8,160,000	8,951,520	9,443,854	9,727,169	10,018,984	10,319,554	10,629,140	10,948,015	11,276,455	11,614,749	101,089,440
Measure W (22.5%)	18,000,000	19,746,000	20,832,030	21,456,991	22,100,701	22,763,722	23,446,633	24,150,032	24,874,533	25,620,769	222,991,411
Total Highway Revenues	40,000,000	43,880,000	46,293,400	47,682,202	49,112,668	50,586,048	52,103,630	53,666,738	55,276,741	56,935,043	495,536,470
Highway Costs	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	
Next Feasible Phase**	18,129,200	18,129,200	18,129,200	18,129,200	18,129,200						90,646,000
Balance Remaining	21,870,800	25,750,800	28,164,200	29,553,002	30,983,468	50,586,048	52,103,630	53,666,738	55,276,741	56,935,043	404,890,470
Subsequent Phases***	5,005,400	23,708,653	117,138,545	-1,339,600	43,370,308	358,183,334	1,708,334	12,500,000	2,500,000	15,550,000	578,324,972
Balance: Surplus (Deficit)	16,865,400	18,907,548	(70,066,798)	(39,174,196)	(51,561,035)	(359,158,320)	(308,763,024)	(267,596,286)	(214,819,545)	(173,434,502)	(173,434,502)

#### Table A-1. Total Measure A and W Revenues and Project Costs (USD)

\*Based upon mid-range revenue forecast presented to the TA Board on February 4, 2021

\*\*"Next Feasible Phase" estminated total = 90,646,000 after subtracting match and distributed over the first five FY's of the CIP

\*\*\*Assumes Local Match = 50.0%

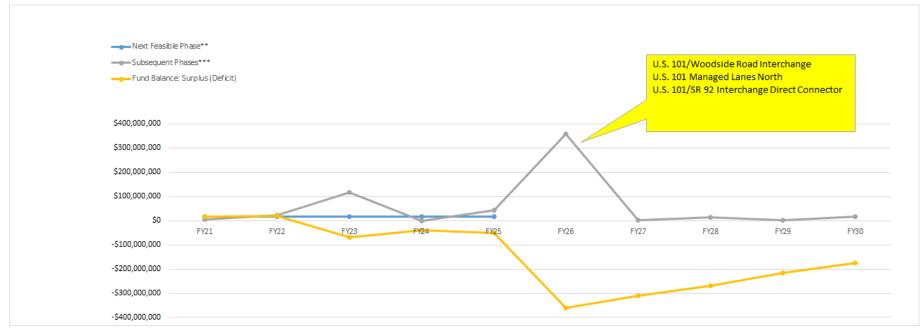


Figure A-1. Project Expenditures and Fund Balance

#### Table A-2. Master Schedule of Expenditures

			_	Totals: FISCAL YEAR (FY) END:	\$	612,133,921 \$ 6/30/2020	28,140,000 \$ 6/30/2021	65,546,505 \$ 6/30/2022	6/30/2023	15,450,000 \$ 6/30/2024	104,869,815 \$ 6/30/2025	716,366,667 \$ 6/30/2026	3,416,667 \$ 6/30/2027	25,000,000 \$ 6/30/2028	5,000,000 \$ 6/30/2029	31,100,000 \$ 6/30/2030	6/30/2100
Sheet #	Sheet Name	Project Name	Phase STUDY	Start	Finish	Prior to FY20/21	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	FY26/27	FY27/28	FY28/29	FY29/30	Post FY29/30
			PE-PID														
		U.S. 101 /	ENV-PA														
1	TA-000621_Rev03	Broadway	PSE														
		Interchange Proje	ROW-SUP														
			CON-CE/CM														
			CON	5/6/2019	10/14/2025 \$	2,080,000											
			STUDY														
		U.S. 101 / Willow	PE-PID V FNV-PA														
2	TA 000032 Dav02	Road Interchange		1/1/2021	12/1/2021	\$	800,000										
2	TA-000622_Rev03	Project -	ROW-SUP														
		Landscaping	ROW														
			CON-CE/CM CON	1/1/2022	4/30/2023		\$	5,560,000									
			STUDY	1/ 1/ 2022	4/30/2023		<mark>.</mark>	5,500,000									
			PE-PID														
		US 101 Candlestic		7/1/2022	6/30/2023			\$	500,000								
3	TA-000625_Rev02	Point Interchange	E PSE ROW-SUP	7/1/2030	7/1/2030 7/1/2030											Ş	7,080,000 2,360,000
		nvironmental Studies	ROW-SOP	7/1/2030 7/1/2030	7/1/2030											\$ \$	2,360,000
			CON-CE/CM	7/1/2030	7/1/2030											\$	2,360,000
			CON	7/1/2030	7/1/2030											\$	33,040,000
			STUDY	7/1/2022	c /20 /2024			Ċ	500,000								
			PE-PID ENV-PA	7/1/2022 7/1/2030	6/30/2024 7/1/2030			Ş	500,000							Ś	4,725,000
4	TA 000740 D-000	Geneva Avenue		7/1/2030	7/1/2030											\$	9,450,000
4	TA-000710_Rev02	Extension	ROW-SUP	7/1/2030	7/1/2030											\$	4,725,000
			ROW	7/1/2030	7/1/2030											\$	4,725,000
			CON-CE/CM CON	7/1/2030 7/1/2030	7/1/2030 7/1/2030											\$	4,725,000 66,150,000
			STUDY	7/1/2030	771/2030											<del>ب</del>	00,130,000
			PE-PID	7/1/2022	6/30/2024			\$	1,000,000								
			ENV-PA	7/1/2029	12/31/2030										\$	27,000,000	
5	TA-000733_Rev02	SR 92 from US 10 to I-280	1 PSE ROW-SUP	7/1/2031	7/1/2033											\$	18,000,000
		101-200	ROW														
			CON-CE/CM	7/1/2033	7/1/2035											\$	
			CON	7/1/2030	7/1/2035											\$	490,000,000
			STUDY PE-PID	3/1/2010	10/30/2011 \$	1,000,000											
				8/1/2013	12/31/2016 \$	4,200,000											
6	TA-000768_Rev02	U.S. 101/ Woodsic Road (SR 84)	PSE	8/1/2017	12/31/2025 \$	9,250,000											
0	17. 000700_NeV02	Interchange Proje	ct ROW-SUP	8/1/2021	12/31/2025		\$	1,000,000	50.000								
			CON-CE/CM	4/1/2023 6/1/2026	12/31/2025 6/30/2030			Ş	59,000,000		\$	21,000,000					
			CON	6/1/2026	6/30/2030						\$						
			STUDY														
		11 0 401 5	PE-PID	- 1+ 1	101-100-0	20.202.402											
		U.S. 101 Express Lanes Project		2/1/2016 10/1/2018	10/1/2018 \$ 10/1/2020 \$	20,388,498 39,645,428											
7	TA-000791_Rev02	(SCL/SM Co Line to		10/1/2010	10/1/2020 9	33,043,420											
		380)	ROW														
			CON-CE/CM	- /- /													
			CON STUDY	3/1/2019	12/1/2022 \$	521,102,110											
			PE-PID	7/1/2022	6/30/2024			\$	1,000,000								
		SR 92/South Delay	ENV-PA	7/1/2029	12/1/2030										\$	4,100,000	
8	TA-000792_Rev03		PSE	7/1/2031	7/1/2033											\$	3,400,000
	_	Improvement	ROW-SUP ROW	7/1/2031	7/1/2033											Ş	25,000,000
			CON-CE/CM	7/1/2035	7/1/2037											\$	4,100,000
			CON	7/1/2035	7/1/2037											\$	39,000,000

STUDY – Feasibility Study; PE-PID – Preliminary Engineering/Project Initiation Documents; ENV-PA – Project Approval & Environmental Review; PSE – Preliminary Engineering/ Plans, Specifications & Estimates; ROW-SUP – Right of Way Support; ROW – Right of Way; CON-CE/CM – Construction Engineering Support/Construction management; CON - Construction

				Totals: FISCAL YEAR (FY) END:	\$	612,133,921 \$ 6/30/2020	28,140,000 \$ 6/30/2021	65,546,505 \$ 6/30/2022	6/30/2023	15,450,000 \$ 6/30/2024	6/30/2025	716,366,667 \$ 6/30/2026	3,416,667 \$ 6/30/2027	25,000,000 \$ 6/30/2028	5,000,000 \$ 6/30/2029	31,100,000 6/30/2030	6/30/2
Sheet #	Sheet Name	Project Name	Phase	Start	Finish Pri	or to FY20/21	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	FY26/27	FY27/28	FY28/29	FY29/30	Post FY29/30
			STUDY PE-PID														
		Highway 1 Safety		9/12/2017	2/28/2022												
		and Operational		9/12/2017	2/28/2022 \$	850,000											
9	TA-000793_Rev03	Improvements at		5/12/2017	2/20/2022 9	030,000											
		Gray Whale Cove		9/12/2017	2/28/2022 \$	75,000											
			CON-CE/CM														
			CON	3/1/2022	6/1/2022		\$	2,254,505									
			STUDY														
		SR 1 (Mid Coast)	PE-PID														
		Congestion,	ENV-PA	7/1/2020	6/30/2021	\$	1,000,000										
10	TA-000794_Rev02	Throughput &	PSE ROW-SUP														
		Safety	ROW														
		Improvements	CON-CE/CM														
			CON	7/1/2024	6/30/2025					\$	15,219,815						
			STUDY														
			PE-PID														
		U.S. 101/ Holly	ENV-PA														
11	TA-000795_Rev03		PSE	- /													
	-	Project	KUW-SUP	6/30/2020	6/30/2020 \$	900,000											
			ROW CON-CE/CM	7/1/2022	6/30/2023			ç	2,000,000								
			CON	7/1/2022	6/30/2023			č									
			STUDY	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,00,2020			7	10,070,0000								
			PE-PID	7/1/2021	6/30/2022		\$	500,000									
			ENV-PA	7/1/2030	7/1/2030												\$ 7,275,
12	TA-000796_Rev02	I-380 Congestion In	n PSE	7/1/2030	7/1/2030												\$ 14,550,
	11000750_10002	provements	ROW-SUP	7/1/2030	7/1/2030												\$ 7,275,
			ROW	7/1/2030	7/1/2030												\$ 7,275,0
			CON-CE/CM	7/1/2030	7/1/2030												\$ 7,275,0
			CON STUDY	7/1/2030	7/1/2030												\$ 101,850,0
			PE-PID														
			5NU / DA														
40	<b>T</b> A 000000 B 00	US 101/ University															
13	TA-000800_Rev02	Improvements	e ROW-SUP														
		improvements	ROW					_									
			CON-CE/CM	7/1/2022	6/30/2023			ç									
			CON	7/1/2022	6/30/2023			ç	13,120,000								
			STUDY PE-PID														
			ENIV-DA	3/1/2016	6/1/2022 \$	3,100,000											
		U.S. 101/ Peninsula	PSE	7/1/2022	6/30/2024	3,100,000		S	4,000,000								
14	TA-000801_Rev02		ROW-SUP		-,, -				,,.								
		Project	ROW	7/1/2022	6/30/2024			ç	71,000,000								
			CON-CE/CM					_									
			CON	7/1/2024	6/30/2026					\$	41,900,000						
			STUDY														
			PE-PID	7/4/2017	10/01/0001	2 452 222											
		U.S. 101 / Produce	ENV-PA	7/1/2017 3/1/2022	12/31/2021 \$ 3/31/2024	3,150,000	ć	8,000,000									
15	TA-000803_Rev02	Avenue Interchange		3/1/2022	3/31/2024		\$	100,000									
		Project	ROW	3/1/2022	3/31/2024		Ś	38,900,000									
			CON-CE/CM	7/1/2024	7/31/2026			,,		\$	8,000,000						
			CON	7/1/2024	7/31/2026					\$	36,000,000						
			STUDY														
			PE-PID														
		Highway 92 / SR 82	ENV-PA														
16				7/1/2017	11/1/2021 \$	505,000											
	-	Interchange Projec	t ROW-SUP														
			ROW CON-CE/CM	11/1/2021	6/30/2024		ć	95,000									
			CON-CE/CIVI	2/1/2022	6/30/2024		¢ ¢	1,400,000									
				2/ 1/ 2022	5/ 50/ 2024		3	1,400,000									

Mather         Mather<					Totals: FISCAL YEAR (FY) END:	\$	6/30/2020	28,140,000 \$ 6/30/2021	65,546,505 \$ 6/30/2022	252,406,290 \$ 6/ <b>30/2023</b>	15,450,000 \$ 6/30/2024	104,869,815 \$ 6/30/2025	716,366,667 \$ 6/30/2026	3,416,667 \$ 6/30/2027	25,000,000 \$ 6/30/2028	5,000,000 \$ 6/30/2029	31,100,000 \$ 6/30/2030	1,068,616,666 6/30/2100
1         1	Sheet #	Sheet Name	Project Name		Start	Finish	Prior to FY20/21	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	FY26/27	FY27/28	FY28/29	FY29/30	Post FY29/30
Note:         Note:         Note:         Note:         Note:         Note:           1         Note:         Note: </td <td></td> <td></td> <td></td> <td></td> <td>4/4/2040</td> <td>c /20 /2020 c</td> <td>200,000</td> <td></td>					4/4/2040	c /20 /2020 c	200,000											
1     NACKULAND     NACKULAND     NACKULAND     NACKULAND     NACKULAND       1     NACKULAND     NACKULAND     NACKULAND     NACKULAND     NACKULAND <td< td=""><td></td><td></td><td></td><td></td><td>1/1/2018</td><td>6/30/2020 \$</td><td>300,000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>					1/1/2018	6/30/2020 \$	300,000											
1     in winder wind     in winder wi					1/1/2018	E/1/2020 ¢	200.000											
Laber 10         Los w         Los w <thlos th="" w<="">         Los w         Los w         &lt;</thlos>	17	TA-000822_Rev02			1/1/2018	5/1/2020 \$	500,000											
Norma     Norma     Norma     Norma     Norma     Norma     Norma       Norma     Norma     Norma     Norma     Norma     Norma			•															
Image         Con         Fundame         Fund																		
			50.000		7/16/2020	9/30/2021	Ś	4.490.000										
Image: second								.,,										
Image: Second																		
II     II. ABURJ How memory of power with the second of power with the				ENV-PA	1/1/2016	6/30/2018 \$	95,000											
Partial Add Add Sec Indian Add Add Sec Indian Add Add Sec Indian Add Add Indian Add Add Indian Add India Add Indian Add Indian Add Indian Add Indian Add	10	TA 000822 Boy02		PSE	7/1/2018	9/30/2021 \$	989,000											
Image: Problem in the state of the	10	TA-000825_Rev02	Project: Main Stree	+ ROW-SUP														
Image: state			to Kehoe Avenue	ROW														
No			to Kende / Wende	COIN-CE/CIVI					_									
Image: Problem in the state of the					7/1/2022	7/31/2024			\$	9,893,290								
Part         Part <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																		
B     PARCHAP     Market Marke			U.C. 101 Managed		11/2/2020	44/20/2022	Ċ.	0.000.000										
B     NAMBUR     NAMBUR     NAMBUR     NAMBUR     NAMBUR       10     NAMBUR     NAMBUR     NAMBUR     NAMBUR       20     NAMBUR     NAMBUR     NAMBUR     NAMBUR       20     NAMBUR     NAMBUR     NAMBUR     NAMBUR       21     NAMBUR     NAMBUR     NAMBUR     NAMBUR       22     NAMBUR     NAMBUR     NAMBUR     NAMBUR       23     NAMBUR     NAMBUR     NAMBUR     NAMBUR       24     NAMBUR     NAMBUR     NAMBUR     NAMBUR       25     NAMBUR     NAMBUR     NAMBUR     NAMBUR       24     NAMBUR     NAMBUR     NAMBUR     NAMBUR       25     NAMBUR     NAMBUR     NAMBUR     NAMBUR       26     NAMBUR     NAMBUR     NAMBUR     NAMBUR       27     NAMBUR     NAMBUR     NAMBUR     NAMBUR       28     NAMBUR     NAMBUR     NAMBUR     NAMBUR       29     NAMBUR     NAMBUR     NAMBUR        20     NAMBUR </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$</td> <td>8,000,000</td> <td>ć</td> <td>16 800 000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							\$	8,000,000	ć	16 800 000								
Influence       Influence       Influence       Influence       Influence       Influence         1000000000000000000000000000000000000	19	TA-100302_Rev03							\$									
Normal Sector         Normal S					1/1/2023	12/1/2025			Ş	10,800,000								
Unit			Liney															
No.         No.         No.         No.         No.           1         11.101 ft b.o.         000         0.1020         5         0.0000         0.0000         0.0000					1/1/2026	12/1/2027						Ś	308.000.000					
30         1. A 1872 He see He for the order of the					2/2/2020	12, 1, 2027							500,000,000					
20         9.52012/802         1000-302         9/2022         2< 240000					4/1/2020	12/31/2020 \$	500,000											
All     Model     Model <t< td=""><td></td><td></td><td>U.S. 101 / SR 92</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			U.S. 101 / SR 92															
Important         <	20	TA 100210 Dev02	Interchange Area	PSE	9/6/2021	1/31/2023		\$	2,817,000									
1     1000000000000000000000000000000000000	20	TA-100318_Rev03	Improvements	ROW-SUP	9/6/2021	1/31/2023		\$										
Second Part Part Part Part Part Part Part Part			Project	ROW														
21         14.100319_good         90-04 (1/2021)         90/0/023 90/0/2023         5         3.200,000           21         14.100319_good         90-04 (1/2020)         90/0/2023         5         3.200,000           21         14.100319_good         90-04 (1/2020)         90/0/2023         5         3.200,000           22         14.100319_good         61/0212         90/0/202         5/0/2026         5         3.800,000           22         14.100512_good         61/0212         12/1/028         5         5.868/         5           23         14.100512_good         61/0212         12/1/028         5         5.868/         5           30         90/02         71/028         6/0/2015         5         5.868/         5           90         71/028         6/0/2021         6/0/2023         5         5.800,00         5           90         71/028         6/0/2023         5         500,000         5         5           90         71/028         71/028         5         500,000         5         5           90         71/028         71/028         71/028         5         500,000         5           1200.00000         11/010/08         5<																		
Part 1033 Part Part Part Part Part Part Part Part					4/1/2023	11/1/2024			\$	24,100,000								
Part Part Part Part Part Part Part Part																		
1     11 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							+											
1       14/00039_Revise intercenting interc			U.S. 101 / SR 92				\$	12,200,000		4	10,000,000							
Contractor region       Contractor region       S 200206         Contractor region       S 1/20205       S 1/20200         Contractor region       S 2002000         Contractor region       S 2002000         Contractor region       S 20020000         Contractor region       S 2002000         Contractor region       S 2002000         Contractor region       S 2002000       S 2002000         Contractor region       S 2002000       S 2002000         Contractor region       S 2002000       S 2002000       S 2002000         Contractor region       S 2002000       S 2002000       S 2002000 <ths 2002000<="" th="">         Contracto</ths>	21	TA-100319_Rev03	Interchange Direct	DOM/ CLID	10/1/2023	12/1/2025				Ş	12,200,000							
con-cy/cy/cy/cy/cy/cy/cy/cy/cy/cy/cy/cy/cy/c			Connector Project		12/2/2025	5/30/2026						¢	3 800 000					
1     5     15,00,00       2     5     5,00,00       2     7,100,21 Rev2     6,00,20,10     6,00,20,00       2     7,100,21 Rev2     6,00,20,00     6,00,00       2     7,100,21 Rev2     6,00,20,00     6,00,00       2     6,00,00     6,00,00     6,00,00       2     6,00,00     7,120,00     6,00,00       2     6,00,00     6,00,00     6,00,00       2     6,00,00     7,120,00     6,00,00       2     6,00,00     7,120,00     6,00,00       2     6,00,00     7,120,00     6,00,00       3     5,00,00     5,00,00       4     6,00,00     7,120,00       4     6,00,00     6,00,00       5     1,250,000     5,00,00       5     1,250,000     5,00,00       4     6,00,00     6,00,00       5     1,250,000     5,00,00       5     1,250,000     5,00,00       5     1,250,000     5,00,00       6     1,250,000     5,00,00					12/2/2025	5/50/2020						Ŷ	3,000,000					
2         TA-100321_Rev02         S 100°         S 1,720,000           2         TA-100321_Rev02         e Overcrossing Pice         71/2023         6/30/2023         S 2,000,000           2         TA-100321_Rev02         e Overcrossing Pice         71/2023         6/30/2023         S 2,000,000           e         RoW         CON-CE/CM         CON-CE/CM         S 2,000,000           2         UA-00010_Rev0         FVP         71/2023         6/30/2027           3         UA-00010_Rev0         FVP         71/2023         S 300,000           3         1,250,000         S         5 30,000           2         Overcrossing North         S         300,000         S           3         1,250,000         S         1,250,000         S           4         Overcrossing North         S         1,250,000         S           5         1,250,000         S         1,250,000         S           9         0,400,000         1/31/2023         1/31/2024         S         1,250,000           9         0,400,000         1/31/2024         S         1,000,000         S         1,250,000           9         0,400,000         1/1/2026         2/18/2028         S					6/1/2026	12/1/2028						Ś	164,900,000					
koute 1/Mano Dr/m pSE         FMA/F         7/1/2021         6/3/2025         S         2,000,000           22         TA-100321_R02         6/000 SUP         FO/V         6/3/2025         S         2,000,000           et         FO/W         FO/V         FO/V         FO/V         FO/V         FO/V           et         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V           et         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V           FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V           FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V           FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V           FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V           FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V         FO/V <td></td> <td>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td> <td></td> <td></td> <td></td> <td></td> <td></td>													,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				PE-PID	8/1/2018	6/30/2019 \$	516,885											
Al       N-10021_Rev02       Vertorshift Fright       Nov			Pouto 1/Manor Dri	ENV-PA	7/1/2021	6/30/2023		\$	1,720,000									
et         Row Subr Row Concet/CM Concet/CM Concet/CM         Row Subr Concet/CM Concet/CM         Subremain Subrema	22	TA-100321 Rev02	A Overcrossing Pro		7/1/2023	6/30/2025				\$	2,000,000							
Image: Problem	22	1A-100521_1(002		ROM-205														
CON       71/2025       6/30/2027       5       20,000,000         F1280/hn1 Day       F2-Pi0       1/31/2023       \$       \$00,000         Boulevard       FNV-FA       1/31/2023       \$       \$00,000         Overrossignarth       FS       1/31/2023       \$       \$00,000         Bicycle/Pedsetria       ROW       1/31/2023       \$       \$00,000         Bicycle/Pedsetria       ROW       1/31/2023       1/31/2026       \$																		
STUP         STUP           4         4280/bh.0b.2         69.04evat         71/2021         1/31/2023         5         500,000           23         40.00010_Rev0         70/2023         1/31/2023         1/31/2023         5         500,000           24         04.00010_Rev0         600         21/2023         1/31/2025         5         400,000           24         04.00010_Rev0         600         21/2023         1/31/2025         5         1,500,000           24         04.00010_Rev0         71/2021         6/30/2022         5         1,000,000         5         1,500,000           24         04.00010_Rev0         1/30/202         71/2030         71/2030         71/2030         5         1,000,000           24         04.00010_Rev0         1/30/202         5         1,000,000         5         1,000,000           24         04.00010_Rev0         1/31/2030         71/2030         71/2030         5         1,000,000         5         1,250,00,000         5         1,250,00,000         5         1,250,00,000         5         1,250,00,000         5         1,250,00,000         5         1,250,00,000         5         1,250,00,000         5         1,250,00,000         5					- /- /													
Image: Part of the state of the st					7/1/2025	6/30/2027						Ş	20,000,000					
23     UA-000101_e001 (Weining for Bicycle/Pedstria Bicycle/Pedstria NOV     SNV-9A     71/202     1/31/202     1/31/202     1/31/202     1/31/202     1/31/202     1/2000       24     VA-000102_e002 (Wining for Bicycle/Pedstria Way Bridg)     SOU     SOU     SOU     SOU     SOU       24     VA-000102_e002 (Wining for Bicycle/Pedstria Way Bridg)     STUPY (Vining for CON     71/203     71/203     71/203     SOU     SOU     SOU       24     VA-000102_e002 (Wining for Way Bridg)     STUPY (Wining for CON     71/203     71/203     SOU     SOU     SOU       24     VA-000102_e002 (Wining for Way Bridg)     SOU     SOU     SOU     SOU     SOU       24     VA-000102_e002 (Wining for Way Bridg)     SOU     71/203     71/203     71/203     SOU       25     VA-000102_e002     SOU     SOU     SOU     SOU     SOU     SOU       26     VA-000102_e002     SOU     SOU     SOU     SOU     SOU     SOU       27     VA-000102_e002     SOU     SOU     SOU     SOU     SOU     SOU       28     VA-000102_e002     SOU     SOU     SOU     SOU     SOU       29     VA-000102_e002     SOU     SOU     SOU     SOU     SOU <t< td=""><td></td><td></td><td>1 280/John Dale</td><td></td><td>7/1/2021</td><td>1/21/2022</td><td></td><td>*</td><td>E00.000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			1 280/John Dale		7/1/2021	1/21/2022		*	E00.000									
23       0-0-0010Revi Side Widenig in Bicycle/Pedestrai       S       2/1/202       1/3/20<																		
23       04-000101_eeeii       Side Widening for Bicycle/Pedestria ROW       ROW-SUP       2/1/203       1/31/2026       \$ 400,000         4ccommodia       CON-CE/CM       2/1/2026       2/28/2028       \$ 1,500,000         CON       CON       C/1/2026       2/28/2028       \$ 1,500,000         Full       <								Ŷ		1 250 000								
Bicycle/Pedestrin Accommodation       ROW       Source (CM       2/1/2026       2/28/2028       \$       1,500,000       \$       1,500,000       \$       \$       \$       \$       1,500,000       \$       <	23	UA-000101_Rev01																
Accommodation       CON-CE/CM       2/1/2026					2, 2, 2020	1,01,2020			Ŷ	100,000								
CON       2/1/2026       2/2/2028       \$ 12,500,000         24       VA-000102_Rev02       \$ \$\frac{1}{2}\strac{1}{2}\s					2/1/2026	2/28/2028						\$	1,500,000					
24         UA-000102_Rev02												\$						
24         VA-000102_R0v0         I-380 Connection (via new Haskin Way Bridge)         V1/2030         7/1/2030         7/1/2030         5           20         CON-CE/CM         7/1/2030         7/1/2030         7/1/2030         7/1/2030         5								\$	1,000,000									
1-380 Connection       rs80 Connection <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>																		
24       UA-000102_Rev02 (via new Haskin Way Bridge)       PSE       7/1/2030       7/1/2030       \$         8       Way Bridge)       ROW       7/1/2030       7/1/2030       \$         8       ROW       7/1/2030       7/1/2030       \$         9       ROW       7/1/2030       7/1/2030       \$         9       ROW       7/1/2030       7/1/2030       \$         9       ROW       7/1/2030       7/1/2030       \$			1-380 Connection														\$	6,350,000
Way Bridge)       ROW-SUP       7/1/2030       7/1/2030       \$         ROW       7/1/2030       7/1/2030       \$         CON-CE/CM       7/1/2030       7/1/2030       \$	24	11A-000107 Rev07		PSE													\$	12,700,000
ROW     /1/2030     /1/2030       CON-CE/CM     7/1/2030     7/1/2030       \$	-7	5.1.000102_10002															\$	6,350,000
			, 5110807														\$	6,350,000
CON 7/1/2030 7/1/2030																	\$	6,350,000
				CON	7/1/2030	7/1/2030											\$	88,900,000

				Totals: FISCAL YEAR (FY) END:		\$ 612,133,921 \$ 6/30/2020	28,140,000 \$ 6/30/2021	65,546,505 \$ 6/ <b>30/2022</b>	252,406,290 \$ 6/30/2023	15,450,000 \$ 6/30/2024	104,869,815 \$ 6/30/2025	716,366,667 \$ 6/30/2026	3,416,667 \$ 6/30/2027	25,000,000 \$ 6/30/2028	5,000,000 \$ 6/30/2029	31,100,000 6/30/2030	\$ 1,068,616,666 6/30/2100
Sheet #	Sheet Name	Project Name	Phase	Start	Finish	Prior to FY20/21	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	FY25/26	FY26/27	FY27/28	FY28/29	FY29/30	Post FY29/30
		,,	STUDY											,			
			PE-PID														
		ITS Improvements	ENV-PA	2/1/2019	12/31/2020	\$ 602,000											
25	UA-000103 Rev03	in Daly City,	PSE	2/1/2021	6/30/2022	\$	350,000										
25	UA-000105_Rev05	Brisbane, and	ROW-SUP	7/1/2022	9/30/2022			\$	21,000								
		Colma	ROW														
			CON-CE/CM														
			CON	7/1/2022	12/31/2023			\$	9,912,000								
			STUDY														
			PE-PID														
		Kelly Avenue &	ENV-PA														
26	UA-000104 Rev02	Highway 1 Safety	PSE														
20	0A-000104_Rev02	Improvement	ROW-SUP														
		Project	ROW														
			CON-CE/CM														
			CON	7/1/2022	6/30/2023			\$	1,500,000								
			STUDY														
			PE-PID	7/1/2022	6/30/2024			\$	500,000								
		SR 82 (El Camino	ENV-PA	7/1/2021	6/30/2023		\$	500,000									
27	UA-000105_Rev02	Real), Safety and	PSE	7/1/2024	6/30/2026					\$	3,750,000						
27	0A-000103_Rev02	Operational	ROW-SUP	7/1/2026	6/30/2027							\$	250,000				
		Improvements	ROW														
			CON-CE/CM														
			CON	7/1/2027	6/30/2030								\$	25,000,000			
			STUDY	7/1/2023	6/30/2024				\$	250,000							
			PE-PID	7/1/2026	6/30/2028							\$	666,667				
		SR 84 (Woodside		7/1/2025	6/30/2027						\$	666,667		_			
28	UA-000106 Rev02	Road), Safety and		7/1/2028	6/30/2030									\$	5,000,000		
		Operational		7/1/2030	6/30/2031												\$ 250,000
		Improvements															
			CON-CE/CM														
			CON	7/1/2030	6/30/2034												\$ 33,166,666
			STUDY														
		US 101/Sierra Poin	t PE-PID	7/1/2022	6/30/2023			\$	500,000								
		Pkwy Interchange	ENV-PA	7/1/2030	7/1/2030												\$ 1,175,000
29	UA-000107_Rev02		PSE	7/1/2030	7/1/2030												\$ 2,350,000
	· _ · · -	Lagoon Way	ROW-SUP	7/1/2030	7/1/2030												\$ 1,175,000
		extension	ROW	7/1/2030	7/1/2030												\$ 1,175,000
			CON-CE/CM	7/1/2030	7/1/2030												\$ 1,175,000
			CON	7/1/2030	7/1/2030												\$ 16,450,000
			STUDY	- 4 /202	c /200 /2005 -			500.000									
		Roadway Facility	PE-PID	7/1/2021	6/30/2024		\$	500,000	*	1 000 000							
		Improvements	ENV-PA	7/1/2023	6/30/2026				\$	1,000,000			2 500 000				
30	UA-000108_Rev03	between Highway	PSE DOWN CLIP	7/1/2026	6/30/2028							\$	2,500,000				
		101 una Dambarto	n now-sur														
		Bridge	CON-CE/CM														
				7/1/2020	7/1/2020												\$ 3,000,000
			CON	7/1/2030	7/1/2030												\$ 3,000,000

# **APPENDIX B**

**Project Fact Sheets** 

This page left blank intentionally.

## Appendix B Project Fact Sheets

This Appendix B contains project fact sheets for all projects that have advanced beyond the preliminary planning phase. Fact sheets for projects that are currently in the preliminary planning phase will be made available after more detailed information regarding project design, schedule, and budget is developed.

Each fact sheet provides the following information:

- Project number;
- Project sponsor;
- Estimated date of completion;
- Next feasible phase and cost of next phase (see Chapter 3);
- Project overview;
- Summary of project benefits and needs;
- Source of funds;
- Project cost by phase;
- Project schedule;
- Location map;
- Diagram or photo of existing and proposed conditions.

	TA Project No.	Project Name	Project Overview	Page
1	TA-000621	US 101/ Broadway Interchange Project - Landscaping	The construction of the interchange is completed and open to traffic. The project reconstructed the US 101/ Broadway interchange by providing the Broadway Overcrossing with a wider structure across US 101, improved ramp connections, and new pedestrian and bicycle improvements. The final project phase is landscaping.	B-7
2	TA-000622	US 101/ Willow Road Interchange Projects - Landscaping	The construction of the interchange is complete and is open to traffic. The project eliminated the northeast and southwest loop ramps of an existing cloverleaf, thereby eliminated two weaving sections on US 101. The project also added new traffic signals that eliminated merging sections on Willow Road, and improved pedestrian and bicycle access. The final project phase is landscaping.	B-8
3	TA-000768	US 101/ Woodside Road (SR 84) Interchange Project	The project proposes to widen Woodside Road to six lanes (three in each direction) plus turn pockets, reconstruct all interchange ramp connections, construct direct-connector flyover ramps connecting to Veterans Boulevard, construct pedestrian and bicycle facilities and improve local intersections on Woodside Road and Seaport Boulevard.	B-9
4	TA-000791	U.S. 101 Express Lanes Project (SCL/SM Co Line to I- 380)	This project will add express lanes on US 101 in San Mateo County between the Santa Clara/San Mateo County Line and I-380. South of Whipple Avenue involves conversion of an existing HOV lane to an Express Lane through installation of new signs and equipment. North of Whipple Ave. to I-380 involves construction of new express lanes with freeway widening construction activities.	B-10
5	TA-000793	Highway 1 Safety and Operational Improvement Project at Gray Whale Cove	The project proposes to enhance pedestrian access across State Route 1 between Gray Whale Cove State beach and the parking area and improve vehicle access entering and leaving the parking area. The project proposes to install pedestrian pathway, crosswalk, hybrid beacons, overhead lighting and signs. The project also proposes to widen pavement for left turn lane and acceleration lane.	B-11
6	TA-000794	SR 1 (Mid-Coast) Congestion, Throughput & Safety Improvements	Construct two single-lane roundabouts in Moss Beach along SR 1 at Cypress Avenue and California Avenue to improve traffic control along the Midcoast section of SR 1	B-12
7	TA-000795	U.S. 101/ Holly Street Interchange Project	This project proposes to convert the existing interchange to a partial cloverleaf interchange, realign on- and off- ramps, add signalized intersections, and add new and widened sidewalks with the addition of bike lanes.	B-13

	TA Project No.	Project Name	Project Overview	Page
			Construct two new signalized intersections on Holly Street. Construct new bike lanes and improve sidewalks.	
8	TA-000800	US 101/ University Avenue Interchange Improvements	The project will construct a Class 1 bicycle and pedestrian overcrossing (POC) across the ten-lane US 101 freeway and West and East Bayshore Roads. The POC is located south of the existing University Avenue overcrossing. The project includes bicycle signage and striping improvement along West Bayshore Road and vicinity.	B-14
9	TA-000801	U.S. 101/ Peninsula Avenue Interchange Project	The project proposes to convert a partial interchange to a full interchange by relocating the US 101 southbound on- and off-ramps from East Poplar Ave. to Peninsula Ave. and Airport Boulevard in San Mateo. Two build alternatives and a no-build alternative are being evaluated in the environmental phase.	B-15
10	TA-000803	U.S. 101 / Produce Avenue Interchange Project	Construct a new overcrossing across US 101 with intersection improvements at Utah Avenue / South Airport Boulevard; Utah Avenue / San Mateo Avenue and Airport Boulevard/ Produce Avenue / San Mateo Avenue. Project will provide bicycle and pedestrian ADA compliant facilities, accommodate future US 101 Managed Lanes project, and future ramp improvements.	B-16
11	TA-000805	SR 92 / SR 82 (El Camino Real) Interchange Project	Install landscaping and irrigation within State highway right of way at the Route 82 (El Camino Real) and Route 92 interchange and on neighborhood side of soundwall. This is the landscaping phase of the interchange improvement project. Roadway improvements were completed in August 2018	B-17
12	TA-000822	Highway 1 Safety and Operational Improvement Project: Wavecrest Road To Poplar Street	This Project proposes safety enhancements and operational improvements on the scenic SR 1 and its intersecting city streets from Wavecrest Road to Poplar Street. The project reconfigures the lanes along SR 1; adds traffic signals, lightings, landscaping and roadway improvements at the intersections of SR 1/Poplar Street and SR 1/Main Street/Higgins Canyon Road.	B-18
13	TA-000823	Highway 1 Safety and Operational Improvement Project: Main Street to Kehoe Avenue	This project will provide safety and operational improvements on State Route (SR) 1 from Main Street to Kehoe Ave nue. The project will widen SR 1 to add left- and right-turn lanes at intersections, install a new traffic signal at Terrace Avenue, extend the existing Frontage Road further south, and consolidate the SR 1 intersections at Grand Boulevard and Frontage Road into a single intersection.	B-19

	TA Project No.	Project Name	Project Overview	Page
14	TA-100302	U.S. 101/ SR 92 Managed Lanes North Project (I-380 to SF/SM Co. Line)	This project extends the US 101 Express Lanes for approximately 7 miles to the north from I-380 to the San Francisco County Line. An additional HOV or managed lane will be added in each direction, either through conversion of an existing lane, or by adding a new lane on the inside shoulder, with additional outside widening for auxiliary lanes and safety shoulders.	B-29
15	TA-100318	US 101/92 Interchange Area Improvements Project	The project, currently in the environmental phase, proposes four improvements to the US 101/ SR 92 Interchange and its vicinity that will improve traffic safety and increase mobility. The proposed improvements include constructing an additional lane to westbound SR 92 to southbound US 101 connector ramp, modifying lane merge from US 101 connector ramps to eastbound SR 92, modifying southbound US 101 Fashion Island Boulevard exit ramp, & modifying the widening of US 101 Hillsdale Blvd. exit ramp.	B-21
16	TA-100319	US 101/92 Interchange Direct Connector Project	The US 101/SR 92 Interchange Direct Connector project allows for high occupancy and other eligible vehicles on SR 92 east of US 101 to directly connect to the express lane on US 101 in both the northbound and southbound directions. Buses, HOV and other eligible vehicles will no longer have to enter US 101 along with the general traffic. Instead, these vehicles will directly connect to the Express Lanes.	B-22
17	UA-000103	ITS Improvements in Daly City, Brisbane, and Colma	Deploy ITS equipment, such as an interconnected traffic signal systems, closed circuit television (CCTV) cameras, trailblazer/arterial dynamic message signs, and vehicle detection systems, on local streets and state routes to proactively manage traffic diversion during freeway incidents, and to reduce congestion during normal operations.	B-23
18	TA-000625	US 101 Candlestick P oint Interchange Envi ronmental Studies	The project will involve a 4 to 6 lane overcrossing of US 101 with full all directional interchange. Roadway would contain light rail median reservation, bike and pedestrian facilities. It would connect with the Geneva Ave. extension and merge with the existing Harney Wy. east of US 101.	NA
19	TA-000710	Geneva Avenue Extension	This project will include a 4 to 6 lane arterial roadway with bike lanes, on-street parking and sidewalks on both sides, and a median-running light rail reservation. There will be a grade separation with Caltrain tracks and with Tunnel Ave. with 23' vertical clearance.	NA
20	TA-000733	SR 92 from US 101 to I-280	Widen SR-92 from I-280 to US-101. PSR-PDS was completed by the TA and Caltrans in 2001. Documentation found for this project indicated cost estimates in 2003 to be \$239,500,000. Escalating this cost by 3% annually provides a new cost estimate of	NA

	TA Project No.	Project Name	Project Overview	Page
			approximately \$400,000,000 in 2020 and \$550,000,000	
			in 2030 closer to actual project reactivation.	
21	TA-000792	SR 92/South Delawar e Interchange Improvement	Construct improvements along SR-92 between SR-82 and US-101 to improve safety and operations at the SR- 92/Delaware interchange, and construct new roadway(s) in the City of San Mateo to provide additional access between Delaware and SR-82 for local traffic. Preliminary planning study was completed in June 2016. Estimate for most expensive alternative was \$48,700,000. This cost has been escalated for 14 years to a 2030 project reactivation.	NA
22	TA-000796	I-380 Congestion Improvements	Project purpose is to improve safety and operation on I- 380 and imrpove weaving around the El Camino Real interchange. Proposed improvements would include construction of collector-distributor roads, auxiliary lanes, local exit ramps and restriping to reduce congestion and improve traffic flow.	NA
23	TA-100321	Route 1/Manor Drive Overcrossing Project	In Pacifica: Hwy 1 and Manor Drive I/C: Widen the existing overcrossing; Hwy 1 and Milagra: Construct a new on-ramp; Both Intersections: Install signals.	NA
24	UA-000101	I-280/John Daly Boulevard Overcrossing North Side Widening for Bicycle/Pedestrian Accomodation	Widen the north side of the John Daly Blvd/I-280 overcrossing to provide either a pedestrian/bike grade- separated connection or ongrade two-way separated bikeway connection to the Daly City BART station, a dedicated right-turn lane for the southbound I-280 off- ramp to westbound John Daly Blvd. and improvements to the intersection of John Daly Blvd/Junipero Serra Blvd to improve the operations, increase safety and promote alternate modes of travel along John Daly Blvd.	NA
25	UA-000102	I-380 Connection (via new Haskins Way Bridge)	The Project includes a new 3,600 ft. long roadway bridge over the bay inlet with four traffic lanes (two lanes in each direction) and a Bay Trail extension linking I- 380/North Access Road and Haskins Way/East Grand Avenue. It provides a direct connection to the fast- growing East of 101 employement district from I-380, US-101, and I-280 via a presently underutilized freeway stub. This connection enables vehicle traffic, trucks, and commuter buses to bypass US-101, downtown South San Francisco, and surface streets in the East of 101 area.	NA
26	UA-000104	Kelly Avenue & Highway 1 Safety Improvement Project	Install high visibility crosswalks, lead pedestrian intervals, way finding directional signage, ADA ramps, sidewalk upgrades, corner safety island, intersection crossing markings, set-back bicycle crossing, and signal work if needed	NA
27	UA-000105	SR 82 (El Camino Real), Safety and	Design and implement safety and operational improvements identified in the El Camino Real Corridor	NA

	TA Project No.	Project Name	Project Overview	Page
		Operational Improvements	Plan. Modifications could include improvements that support high-quality transit service(bus bulbouts and bus queue jump lanes where right of way allows), signal	
			operational improvements (adaptive signal control and restriction of left-turn movements during commute hours), safety improvements, removal of slip lanes, and intersection improvements.	
28	UA-000106	SR 84 (Woodside Road), Safety and Operational Improvements	Conduct a Corridor Study of Woodside Road to evaluate potential enhancements that increase safety and reduce travel time through the corridor from Broadway to Alameda de las Pulgas. Potential modifications include signal operational improvements, additional traffic control, and intersection improvements.	NA
29	UA-000107	US 101/Sierra Point Pkwy Interchange Replacement and Lagoon Way Extension	This project will replace a partial interchange and improve regional access. It will provide full connection with Lagoon Wy. extension.	NA
30	UA-000108	Roadway Facility Improvements Between Highway 101 and Dumbarton Bridge	Provide reliable roadway facilities for express buses and high occupancy vehicles to reduce congestion, increase throughput, and reduce transportation impacts on the local community. Provide express lanes and grade separations, including analyzing options for express lanes from the Dumbarton Highway Bridge to US 101 Express Lanes. Initial concepts will be based on the 2020 Peninsula Gateway Corridor Study (2008) and the Dumbarton Transportation Corridor Study (2017).	NA

Note: San Mateo County submitted an additional project after the inventory of projects and evaluation was completed as part of the SRHP development process. However, the Connect the Coastside Safety and Operational Improvements Project between SR 1 and SR 92 will be eligible for future TA Highway program Call for Projects cycles. The project will design and implement various safety and operational improvements along SR 1 and SR 92 as identified in Connect the Coastside, the San Mateo County Midcoast Comprehensive Transportation Management Plan. Modifications could include safety and operational improvements (turn and acceleration lanes, intersection realignment, signals and adaptive timing, signage), active transportation for mode shift (bicycle and pedestrian paths, bike lanes, bike parking, sidewalks, marked and beaconed crossings, ADA ramps), and increased transit use (ADA bus stops).



## U.S. 101 / Broadway Interchange **Project**

TA PROJECT #:
SPONSOR:
<b>PROJECT COMPLETION:</b>
COST OF NEXT PHASE:
NEXT PHASE:

TA-000621 Burlingame 2025 \$2,080,000 Landscaping

#### **PROJECT OVERVIEW**

The construction of the interchange is completed and open to traffic. The project reconstructed the US 101/ Broadway interchange by providing the Broadway Overcrossing with a wider structure across US 101, improved ramp connections, and new pedestrian and bicycle improvements. The final project phase is landscaping.

#### **PROJECT BENEFITS/NEEDS**

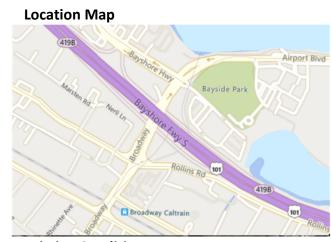
The project proposes to improve traffic movements and access around the interchange, improve operations at the southbound US 101 ramps, and improve bicyclist and pedestrian access.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$2,080,000
Measure-W Fund	\$0
Local Fund	\$0
State Fund	\$0
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$0
TOTAL COST	\$2,080,000

#### **PROJECT COST BY PHASE**

TOTAL COST	\$2.080.000
Construction	\$2,080,000
<ul> <li>Right of Way</li> </ul>	\$0
<ul> <li>Engineering Design</li> </ul>	\$0
<ul> <li>Environmental Review</li> </ul>	\$0
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 







#### **PROJECT SCHEDULE** (Subject to funding availability)

<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	Complete
<ul> <li>Engineering Design</li> </ul>	Complete
<ul> <li>Right of Way</li> </ul>	Complete
Construction	05/2019 - 10/2025
	D 7

For more information, visit <u>www.smcta.com</u> or email <u>info@smcta.com</u>.

B - 7



## U.S. 101 / Willow Road Interchange **Project - Landscaping**

TA PROJECT #:
SPONSOR:
<b>PROJECT COMPLETION:</b>
COST OF NEXT PHASE:
NEXT PHASE:

TA-000622 Menlo Park 2023 \$5,560,000 Landscaping

#### **PROJECT OVERVIEW**

The construction of the interchange is complete and is open to traffic. The project eliminated the northeast and southwest loop ramps of an existing cloverleaf, thereby eliminated two weaving sections on US 101. The project also added new traffic signals that eliminated merging sections on Willow Road, and improved pedestrian and bicycle access. The final project phase is landscaping.

#### **PROJECT BENEFITS/NEEDS**

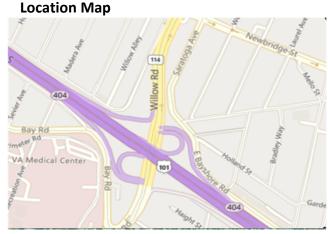
The project eliminated the northeast and southwest loop ramps, which resulted in safety improvements on the US 101 freeway. The project also eliminated merging on Willow Road, and improved pedestrian and bicycle access.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$1,600,000
Measure-W Fund	\$0
Local Fund	\$0
State Fund	\$4,760,000
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$0
TOTAL COST	\$6,360,000

#### **PROJECT COST BY PHASE**

TOTAL COST	\$6.360.000
Construction	\$5,560,000
<ul> <li>Right of Way</li> </ul>	\$0
<ul> <li>Engineering Design</li> </ul>	\$800,000
<ul> <li>Environmental Review</li> </ul>	\$0
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 







#### **PROJECT SCHEDULE** (Subject to funding availability)

· · · ·	• •
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	Complete
<ul> <li>Engineering Design</li> </ul>	01/2021 - 12/2021
<ul> <li>Right of Way</li> </ul>	Complete
Construction	01/2022 - 04/2023
m ar amail info@cmata.com	B - 8



# U.S. 101/ Woodside Road (SR 84) **Interchange Project**

**TA PROJECT #:** SPONSOR: **PROJECT COMPLETION:** COST OF NEXT PHASE: **NEXT PHASE:** 

TA-000768 **Redwood City** 2030 \$60,000,000 **Right-of-Way** 

#### **PROJECT OVERVIEW**

The project proposes to widen Woodside Road to six lanes (three in each direction) plus turn pockets, reconstruct all interchange ramp connections, construct direct-connector flyover ramps connecting to Veterans Boulevard, construct pedestrian and bicycle facilities and improve local intersections on Woodside Road and Seaport Boulevard.

#### **PROJECT BENEFITS/NEEDS**

The project will improve traffic flow and safety on Woodside Road at the US 101 interchange, improve safety for bicyclists and pedestrians and access to and from the Redwood City Port. The Northbound US 101 to Westbound Woodside Road direct connector will be eliminated.

#### **PROJECT COST BY FUNDING SOURCE**

TOTAL COST	\$279,450,000
Unfunded Fund	\$0
RTP-LongRangePlan Fund	\$184,000,000
Other Fund	\$0
Regional Fund	\$0
Federal Fund	\$0
State Fund	\$8,000,000
Local Fund	\$23,890,000
Measure-W Fund	\$0
Measure-New A Fund	\$53,650,000
Measure - Orig A Fund	\$9,910,000

#### **PROJECT COST BY PHASE**

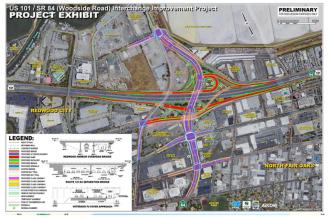
• TOTAL COST	\$279,450,000
Construction	\$205,000,000
<ul> <li>Right of Way</li> </ul>	\$60,000,000
<ul> <li>Engineering Design</li> </ul>	\$9,250,000
<ul> <li>Environmental Review</li> </ul>	\$4,200,000
<ul> <li>Project Initiation Document</li> </ul>	\$1,000,000
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 



#### **Proposed Conditions**



#### **PROJECT SCHEDULE** (Subject to funding availability)

	0 11
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	Complete
<ul> <li>Engineering Design</li> </ul>	08/2017 -12/2025
<ul> <li>Right of Way</li> </ul>	08/2021 - 12/2025
Construction	06/2026 - 06/2030
en en emeil infe Oemete een	B - 9



# U.S. 101 Express Lanes Project (SCL/SM Co Line to I-380)

TA PROJECT #:
SPONSOR:
<b>PROJECT COMPLETION:</b>
COST OF NEXT PHASE:
NEXT PHASE:

TA-000791 TA & C/CAG 2022 \$5,000,000 Landscaping

#### **PROJECT OVERVIEW**

This project will add express lanes on US 101 in San Mateo County between the Santa Clara/San Mateo County Line and I-380. South of Whipple Avenue involves conversion of an existing HOV lane to an Express Lane through installation of new signs and equipment. North of Whipple Ave. to I-380 involves construction of new express lanes with freeway widening construction activities.

#### **PROJECT BENEFITS/NEEDS**

The project connects to the existing Express Lanes in Santa Clara County. The project will incentivize carpooling, increase speeds for buses, and generate revenue from SOV that are willing to pay a toll to bypass congestion in the mixed-flow lanes.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$35,527,000
Measure-W Fund	\$0
Local Fund	\$0
State Fund	\$359,669,698
Federal Fund	\$9,500,000
Regional Fund	\$95,000,000
Other Fund	\$81,439,338
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$0
TOTAL COST	\$581,136,036

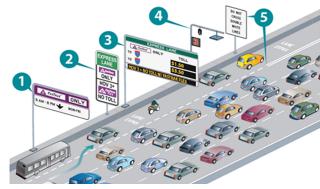
PROJECT C	OST BY	PHASE
-----------	--------	-------

TOTAL COST	\$581,136,036
Construction	\$521,102,110
<ul> <li>Right of Way</li> </ul>	\$0
<ul> <li>Engineering Design</li> </ul>	\$39,645,428
<ul> <li>Environmental Review</li> </ul>	\$20,388,498
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0





#### **Proposed Conditions**



#### PROJECT SCHEDULE (Subject to funding availability)

· · ·	•
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	Complete
<ul> <li>Engineering Design</li> </ul>	Complete
<ul> <li>Right of Way</li> </ul>	Complete
Construction	03/2019 - 12/2022



## **Highway 1 Safety and Operational Improvement Project at Gray Whale Cove**

**TA PROJECT #:** SPONSOR: **PROJECT COMPLETION:** COST OF NEXT PHASE: **NEXT PHASE:** 

TA-000793 San Mateo County 2022 \$925,000 Final Design (PS&E)

#### **PROJECT OVERVIEW**

The project proposes to enhance pedestrian access across State Route 1 between Gray Whale Cove State beach and the parking area and improve vehicle access entering and leaving the parking area. The project proposes to install pedestrian pathway, crosswalk, hybrid beacons, overhead lighting and signs. The project also proposes to widen pavement for left turn lane and acceleration lane.

#### **PROJECT BENEFITS/NEEDS**

The project is needed to provide a designated pedestrian crossing, promote drivers' awareness to an area of increased pedestrian activity, and improve visibility of pedestrians and bicyclists crossing State Route 1. There is currently no designated highway crossing location available for beach visitors.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$0
Measure-W Fund	\$0
Local Fund	\$1,935,000
State Fund	\$0
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$1,244,505
TOTAL COST	\$3,179,505

#### **PROJECT COST BY PHASE**

TOTAL COST	\$3,179,505
Construction	\$2,254,505
<ul> <li>Right of Way</li> </ul>	\$75,000
<ul> <li>Engineering Design</li> </ul>	\$850,000
<ul> <li>Environmental Review</li> </ul>	\$0
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



#### **Existing Conditions**



#### **Proposed Conditions**



#### **PROJECT SCHEDULE** (Subject to funding availability)

	<b>a</b> 11
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	09/2017 - 02/2022
<ul> <li>Engineering Design</li> </ul>	09/2017 - 02/2022
<ul> <li>Right of Way</li> </ul>	09/2017 - 02/2022
Construction	03/2022 - 06/2022
am ar amail infa@smsta.com	B - 11



# SAN MATED COUNTY<br/>TransportationSR 1 (Mid Coast) Congestion,AuthorityThroughput & Safety Improvements

TA PROJECT #: SPONSOR: PROJECT COMPLETION: COST OF NEXT PHASE: NEXT PHASE: TA-000794 San Mateo County 2025 \$1,000,000 Preliminary Engineering

#### **PROJECT OVERVIEW**

Construct two single-lane roundabouts in Moss Beach along SR 1 at Cypress Avenue and California Avenue to improve traffic control along the Midcoast section of SR 1.

#### **PROJECT BENEFITS/NEEDS**

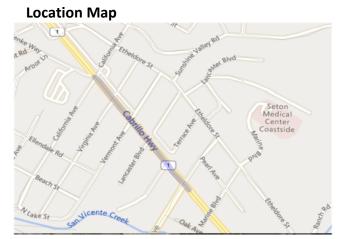
Promotes traffic calming and improved traffic flow in Moss Beach, Improves safety for pedestrians crossing SR 1 by improving crosswalk markings and signals and by encouraging drivers to slow down.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$0
Measure-W Fund	\$0
Local Fund	\$0
State Fund	\$0
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$16,219,815
TOTAL COST	\$16,219,815

#### **PROJECT COST BY PHASE**

TOTAL COST	\$16,219,815
Construction	\$15,219,815
<ul> <li>Right of Way</li> </ul>	\$0
<ul> <li>Engineering Design</li> </ul>	\$0
<ul> <li>Environmental Review</li> </ul>	\$1,000,000
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 



#### **Proposed Conditions**



#### **PROJECT SCHEDULE** (Subject to funding availability)

· · ·	<b>o</b> <i>n</i>
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	07/2020 - 06/2021
<ul> <li>Engineering Design</li> </ul>	Complete
<ul> <li>Right of Way</li> </ul>	Complete
Construction	07/2024 - 06/2025
m or omail info@smeta.com	B - 12



## U.S. 101/ Holly Street Interchange **Project**

TA PROJECT #:
SPONSOR:
<b>PROJECT COMPLETION:</b>
COST OF NEXT PHASE:
NEXT PHASE:

TA-000795 San Carlos 2023 \$18,070,000 Construction

#### **PROJECT OVERVIEW**

This project proposes to convert the existing interchange to a partial cloverleaf interchange, realign on- and off- ramps, add signalized intersections, and add new and widened sidewalks with the addition of bike lanes. Construct two new signalized intersections on Holly Street. Construct new bike lanes and improve sidewalks.

#### **PROJECT BENEFITS/NEEDS**

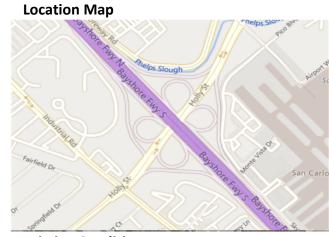
The proposed project removes the existing loop off-ramps, thereby reducing weaving conflicts on Holly Street for both vehicles and bicyclists and improving safety and operations along US 101. Installation of bike lanes, pockets, and widened sidewalk provide improved cyclists and pedestrian access between employment centers, Downtown San Carlos, Bay Trail and Redwood Shores.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$14,590,000	
Measure-New A Fund	\$0	
Measure-W Fund	\$0	
Local Fund	\$4,380,000	
State Fund	\$0	
Federal Fund	\$0	
Regional Fund	\$0	
Other Fund	\$0	
RTP-LongRangePlan Fund	\$0	
Unfunded Fund	\$0	
TOTAL COST	\$18,970,000	

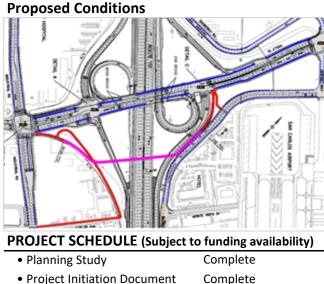
#### **PROJECT COST BY PHASE**

• TOTAL COST	\$18,970,000	
Construction	\$18,070,000	
<ul> <li>Right of Way</li> </ul>	\$900,000	
<ul> <li>Engineering Design</li> </ul>	\$0	
<ul> <li>Environmental Review</li> </ul>	\$0	
<ul> <li>Project Initiation Document</li> </ul>	\$0	
<ul> <li>Planning Study</li> </ul>	\$0	









<ul> <li>Planning Study</li> </ul>	Co
<ul> <li>Project Initiation Document</li> </ul>	Со

- Environmental Review • Engineering Design
- Right of Way
- Construction

- Complete
- In Progress In Progress
- 07/2022 06/2023

For more information, visit <u>www.smcta.com</u> or email <u>info@smcta.com</u>.

B - 13



#### US 101/ University SAN MATEO COUNTY Transportation **Avenue Interchange Improvements** Authority

**TA PROJECT #:** SPONSOR: **PROJECT COMPLETION:** COST OF NEXT PHASE: **NEXT PHASE:** 

TA-000800 East Palo Alto 2023 \$15,660,000 Final Design (PS&E)

#### **PROJECT OVERVIEW**

The project will construct a Class 1 bicycle and pedestrian overcrossing (POC) across the ten-lane US 101 freeway and West and East Bayshore Roads. The POC is located south of the existing University Avenue overcrossing. The project includes bicycle signage and striping improvement along West Bayshore Road and vicinity.

#### **PROJECT BENEFITS/NEEDS**

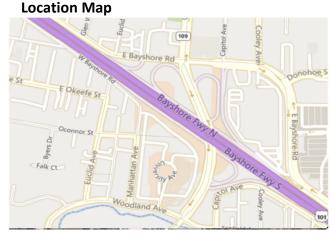
The POC will link neighborhoods, schools, and commercial development on both sides of US 101 in the vicinity of University Avenue. New, high visibility cross walks, along with sidewalk and striping improvements will improve safety for bicycles and pedestrians.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$0
Measure-W Fund	\$0
Local Fund	\$0
State Fund	\$0
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$15,660,000
TOTAL COST	\$15,660,000

#### **PROJECT COST BY PHASE**

TOTAL COST	\$15,660,000
Construction	\$15,660,000
<ul> <li>Right of Way</li> </ul>	\$0
<ul> <li>Engineering Design</li> </ul>	\$0
<ul> <li>Environmental Review</li> </ul>	\$0
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



#### **Existing Conditions**



#### **Proposed Conditions**



#### **PROJECT SCHEDULE** (Subject to funding availability)

· · ·	· ·
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	Complete
<ul> <li>Engineering Design</li> </ul>	Complete
<ul> <li>Right of Way</li> </ul>	Complete
<ul> <li>Construction</li> </ul>	07/2022 - 06/2023
e en emeil infe Oemete een	B - 14



san mateo county Transportation Authority

## U.S. 101/ Peninsula Ave Interchange Project

TA PROJECT #: SPONSOR: PROJECT COMPLETION: COST OF NEXT PHASE: NEXT PHASE: TA-000801 City of San Mateo 2026 \$6,557,000 Final Design (PS&E)

#### **PROJECT OVERVIEW**

The project proposes to convert a partial interchange to a full interchange by relocating the US 101 southbound onand off-ramps from East Poplar Ave. to Peninsula Ave. and Airport Boulevard in San Mateo. Two build alternatives and a no-build alternative are being evaluated in the environmental phase.

#### **PROJECT BENEFITS/NEEDS**

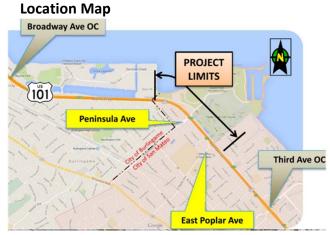
The Project will improve safety by eliminating the Poplar Ave. on and off ramps which have a higher than average accident rate. Traffic operations on southbound US 101 is also improved. Access for residential and business destinations, bicyclist and pedestrian circulation, and property access at local streets are also improved.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$2,500,000
Measure-W Fund	\$0
Local Fund	\$600,000
State Fund	\$0
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$116,900,000
TOTAL COST	\$120,000,000

#### **PROJECT COST BY PHASE**

• TOTAL COST	\$120,000,000
Construction	\$41,900,000
<ul> <li>Right of Way</li> </ul>	\$71,000,000
<ul> <li>Engineering Design</li> </ul>	\$4,000,000
<ul> <li>Environmental Review</li> </ul>	\$3,100,000
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 



**Proposed Conditions** 



#### **PROJECT SCHEDULE** (Subject to funding availability)

<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	03/2016 - 06/2022
<ul> <li>Engineering Design</li> </ul>	07/2022 - 06/2024
<ul> <li>Right of Way</li> </ul>	07/2022 - 06/2024
Construction	07/2024 - 06/2026
m or email info@smcta.com	B - 15



### U.S. 101 / Produce Avenue **Transportation Interchange Project**

**TA PROJECT #:** SPONSOR: **PROJECT COMPLETION:** COST OF NEXT PHASE: **NEXT PHASE:** 

TA-000803 City of South San Francisco 2026 \$8,000,000 Environmental

#### **PROJECT OVERVIEW**

Construct a new overcrossing across US 101 with intersection improvements at Utah Avenue / South Airport Boulevard; Utah Avenue / San Mateo Avenue and Airport Boulevard/ Produce Avenue / San Mateo Avenue. Project will provide bicycle and pedestrian ADA compliant facilities, accommodate future US 101 Managed Lanes project, and future ramp improvements.

SAN MATEO COUNTY

Authority

#### **PROJECT BENEFITS/NEEDS**

Enhances safety and improves circulation and traffic operations of local streets in vicinity of interchange. Provides a local east-west connection across U.S. 101, improves bike and pedestrian facilities, and accommodates future planned growth.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$3,000,000
Measure-W Fund	\$0
Local Fund	\$150,000
State Fund	\$5,000,000
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$86,000,000
Unfunded Fund	\$0
TOTAL COST	\$94,150,000

#### **PROJECT COST BY PHASE**

• TOTAL COST	\$94,150,000
Construction	\$44,000,000
<ul> <li>Right of Way</li> </ul>	\$39,000,000
<ul> <li>Engineering Design</li> </ul>	\$8,000,000
<ul> <li>Environmental Review</li> </ul>	\$3,150,000
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



#### **Existing Conditions**



#### **Proposed Conditions**



#### PROJECT SCHEDULE (Subject to funding availability)

	<b>u</b>
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	07/2017 - 12/2021
<ul> <li>Engineering Design</li> </ul>	03/2022 - 03/2024
<ul> <li>Right of Way</li> </ul>	03/2022 - 03/2024
Construction	07/2024 - 07/2026
om or email info@smcta.com	B - 16



### san mateo county Transportation Authority

# Highway 92 / SR 82 (El Camino Real) Interchange Project

TA PROJECT #: SPONSOR: PROJECT COMPLETION: COST OF NEXT PHASE: NEXT PHASE: TA-000805 City of San Mateo 2025 \$1,495,000 Landscaping

#### **PROJECT OVERVIEW**

Install landscaping and irrigation within State highway right of way at the Route 82 (El Camino Real) and Route 92 interchange and on neighborhood side of soundwall. This is the landscaping phase of the interchange improvement project. Roadway improvements were completed in August 2018.

#### **PROJECT BENEFITS/NEEDS**

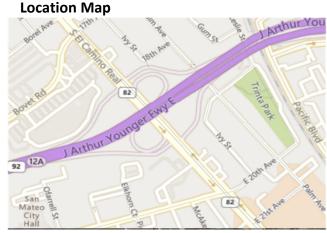
Reduces traffic congestion, bottlenecks, weaving, and queuing spillback at the on and off ramps, and enhances pedestrian and bicycle movements near the interchange. The landscaping is the final phase of this project.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$1,100,000
Measure-New A Fund	\$0
Measure-W Fund	\$0
Local Fund	\$900,000
State Fund	\$0
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$0
TOTAL COST	\$2,000,000

#### **PROJECT COST BY PHASE**

• TOTAL COST	\$2.000.000
Construction	\$1,495,000
<ul> <li>Right of Way</li> </ul>	\$0
<ul> <li>Engineering Design</li> </ul>	\$505,000
<ul> <li>Environmental Review</li> </ul>	\$0
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 



#### **Proposed Conditions**



#### **PROJECT SCHEDULE** (Subject to funding availability)

· · ·	<b>a</b> 11
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	Complete
<ul> <li>Engineering Design</li> </ul>	07/2017 - 02/2022
<ul> <li>Right of Way</li> </ul>	Complete
Construction	02/2022 - 12/2025
om or email info@smcta.com	B - 17



## **Highway 1 Safety and Operational** Transportation **Improvement Project: Wavecrest Road to Poplar Street**

**TA PROJECT #:** SPONSOR: **PROJECT COMPLETION:** COST OF NEXT PHASE: **NEXT PHASE:** 

TA-000822 The City of Half Moon Bay 2021 \$4,040,000 **Project Closeout** 

#### **PROJECT OVERVIEW**

This Project proposes safety enhancements and operational improvements on the scenic SR 1 and its intersecting city streets from Wavecrest Road to Poplar Street. The project reconfigures the lanes along SR 1; adds traffic signals, lightings, landscaping and roadway improvements at the intersections of SR 1/Poplar Street and SR 1/Main Street/Higgins Canyon Road.

SAN MATEO COUNTY

Authority

#### **PROJECT BENEFITS/NEEDS**

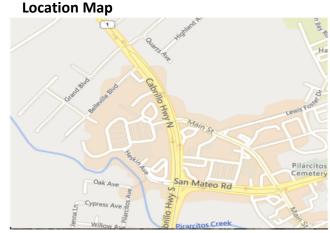
Improves traffic safety and operations, including improvements to pedestrian and bicycle crossings.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$3,940,000
Measure-New A Fund	\$0
Measure-W Fund	\$0
Local Fund	\$1,150,000
State Fund	\$0
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$0
TOTAL COST	\$5,090,000

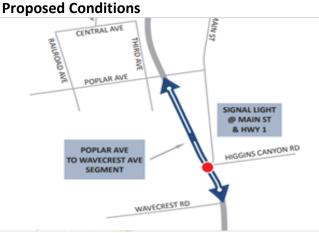
#### **PROJECT COST BY PHASE**

TOTAL COST	\$5,090,000
Construction	\$4,490,000
<ul> <li>Right of Way</li> </ul>	\$0
<ul> <li>Engineering Design</li> </ul>	\$300,000
<ul> <li>Environmental Review</li> </ul>	\$0
<ul> <li>Project Initiation Document</li> </ul>	\$300,000
<ul> <li>Planning Study</li> </ul>	\$0



#### **Existing Conditions**





#### **PROJECT SCHEDULE** (Subject to funding availability)

<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	01/2018 - 06/2020
<ul> <li>Environmental Review</li> </ul>	Complete
<ul> <li>Engineering Design</li> </ul>	01/2018 - 05/2020
<ul> <li>Right of Way</li> </ul>	Complete
Construction	07/2020 - 09/2021
om or email info@smcta.com	B - 18



## **Highway 1 Safety and Operational** Transportation **Improvement Project: Main Street** to Kehoe Avenue

**TA PROJECT #:** SPONSOR: **PROJECT COMPLETION:** COST OF NEXT PHASE: **NEXT PHASE:** 

TA-000823 The City of Half Moon Bay 2024 \$9,893,000 Construction

#### **PROJECT OVERVIEW**

This project will provide safety and operational improvements on State Route (SR) 1 from Main Street to Kehoe Ave nue. The project will widen SR 1 to add left- and right-turn lanes at intersections, install a new traffic signal at Terrace Avenue, extend the existing Frontage Road further south, and consolidate the SR 1 intersections at Grand Boulevard and Frontage Road into a single intersection.

SAN MATEO COUNTY

Authority

#### **PROJECT BENEFITS/NEEDS**

Improves traffic safety and operations, including improvements to pedestrian and bicycle crossings.



#### **Existing Conditions**





#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$3,500,000
Measure-New A Fund	\$0
Measure-W Fund	\$0
Local Fund	\$3,100,000
State Fund	\$0
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$4,562,290
TOTAL COST	\$11,162,290

#### **PROJECT COST BY PHASE**

TOTAL COST	\$11,162,290
Construction	\$9,893,290
<ul> <li>Right of Way</li> </ul>	\$0
<ul> <li>Engineering Design</li> </ul>	\$989,000
<ul> <li>Environmental Review</li> </ul>	\$95,000
<ul> <li>Project Initiation Document</li> </ul>	\$95,000
<ul> <li>Planning Study</li> </ul>	\$90,000



# SAN MATED COUNTY<br/>TransportationU.S. 101 Managed Lanes NorthAuthorityProject (I-380 to SF/SM Co. Line)

#### TA PROJECT #: SPONSORS: PROJECT COMPLETION: COST OF NEXT PHASE: NEXT PHASE:

TA-100302 TA & C/CAG 2027 \$16,800,000 Final Design (PS&E)

#### PROJECT OVERVIEW

This project extends the US 101 Express Lanes for approximately 7 miles to the north from I-380 to the San Francisco County Line. An additional HOV or managed lane will be added in each direction, either through conversion of an existing lane, or by adding a new lane on the inside shoulder, with additional outside widening for auxiliary lanes and safety shoulders.

#### **PROJECT BENEFITS/NEEDS**

The project will create a continuous "Managed Lane" along US 101 throughout San Mateo County and will connect to the existing Managed Lane in Santa Clara. The project will incentivize carpooling, increase speeds for buses, and generate revenue from SOV that are willing to pay a toll to bypass congestion in the mixed-flow lanes.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$8,000,000
Measure-W Fund	\$0
Local Fund	\$0
State Fund	\$7,177,000
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$334,423,000
Unfunded Fund	\$0
TOTAL COST	\$349,600,000

#### **PROJECT COST BY PHASE**

• TOTAL COST	\$349,600,000
Construction	\$308,000,000
<ul> <li>Right of Way</li> </ul>	\$16,800,000
<ul> <li>Engineering Design</li> </ul>	\$16,800,000
<ul> <li>Environmental Review</li> </ul>	\$8,000,000
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 





#### **PROJECT SCHEDULE** (Subject to funding availability)

<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	11/2020 - 11/2022
<ul> <li>Engineering Design</li> </ul>	01/2023 - 12/2025
<ul> <li>Right of Way</li> </ul>	01/2023 - 12/2025
Construction	01/2026 - 12/2027
om or email info@smcta.com.	B - 20



### san mateo county Transportation Authority

## U.S. 101 / SR 92 Interchange Area Improvements Project

TA PROJECT #:
SPONSOR:
<b>PROJECT COMPLETION:</b>
COST OF NEXT PHASE:
NEXT PHASE:

TA-100318 TA & C/CAG 2024 \$2,817,000 Final Design (PS&E)

#### **PROJECT OVERVIEW**

The project, currently in the environmental phase, proposes four improvements to the US 101/ SR 92 Interchange and its vicinity that will improve traffic safety and increase mobility. The proposed improvements include constructing an additional lane to westbound SR 92 to southbound US 101 connector ramp, modifying lane merge from US 101 connector ramps to eastbound SR 92, modifying southbound US 101 Fashion Island Boulevard exit ramp, & modifying the widening of US 101 Hillsdale Blvd. exit ramp.

#### **PROJECT BENEFITS/NEEDS**

The project will serve to improve traffic flow, safety and operations by minimizing traffic conflict locations and improving peak-period travel times along US 101 and SR 92 within project limits.

#### **PROJECT COST BY FUNDING SOURCE**

TOTAL COST	\$30,017,000
Unfunded Fund	\$0
RTP-LongRangePlan Fund	\$23,900,000
Other Fund	\$0
Regional Fund	\$0
Federal Fund	\$0
State Fund	\$5,617,000
Local Fund	\$0
Measure-W Fund	\$0
Measure-New A Fund	\$500,000
Measure - Orig A Fund	\$0

#### **PROJECT COST BY PHASE**

TOTAL COST	\$30,017,000
Construction	\$24,100,000
<ul> <li>Right of Way</li> </ul>	\$200,000
<ul> <li>Engineering Design</li> </ul>	\$2,817,000
<ul> <li>Environmental Review</li> </ul>	\$2,400,000
<ul> <li>Project Initiation Document</li> </ul>	\$500,000
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 



#### **Proposed Conditions**



#### **PROJECT SCHEDULE** (Subject to funding availability)

· · ·	<b>o</b> 11
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	04/2020 - 12/2020
<ul> <li>Environmental Review</li> </ul>	04/2020 - 09/2021
<ul> <li>Engineering Design</li> </ul>	09/2021 - 01/2023
<ul> <li>Right of Way</li> </ul>	09/2021 - 01/2023
Construction	04/2023 - 11/2024
om or email info@smcta.com	B - 21



# Transportation Authority

# U.S. 101 / SR 92 Interchange Direct Connector Project

TA PROJECT #: SPONSOR: PROJECT COMPLETION: COST OF NEXT PHASE: NEXT PHASE: TA-100319 TA & C/CAG 2027 \$12,200,000 Final Design (PS&E)

#### **PROJECT OVERVIEW**

The US 101/SR 92 Interchange Direct Connector project allows for high occupancy and other eligible vehicles on SR 92 east of US 101 to directly connect to the express lane on US 101 in both the northbound and southbound directions. Buses, HOV and other eligible vehicles will no longer have to enter US 101 along with the general traffic. Instead, these vehicles will directly connect to the Express Lanes.

#### **PROJECT BENEFITS/NEEDS**

The US 101 / SR 92 interchange is a critical infrastructure facility that serves nearly half a million travelers each day. The U.S. 101/S.R. 92 Direct Connector project would allow high occupancy vehicles (HOV) on westbound SR 92 to directly connect to the express lane on US 101 in both the northbound and southbound directions. These direct connectors improve safety and minimize delays to the HOVs.

#### **PROJECT COST BY FUNDING SOURCE**

TOTAL COST	\$194,400,000
Unfunded Fund	\$0
RTP-LongRangePlan Fund	\$192,193,000
Other Fund	\$0
Regional Fund	\$0
Federal Fund	\$0
State Fund	\$0
Local Fund	\$0
Measure-W Fund	\$0
Measure-New A Fund	\$2,207,000
Measure - Orig A Fund	\$0

#### **PROJECT COST BY PHASE**

• TOTAL COST	\$194,400,000
Construction	\$164,900,000
<ul> <li>Right of Way</li> </ul>	\$3,800,000
<ul> <li>Engineering Design</li> </ul>	\$12,200,000
<ul> <li>Environmental Review</li> </ul>	\$12,200,000
<ul> <li>Project Initiation Document</li> </ul>	\$1,300,000
<ul> <li>Planning Study</li> </ul>	\$0



**Existing Conditions** 



**Proposed Conditions** 



#### PROJECT SCHEDULE (Subject to funding availability)

	0 11
<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	11/2021 - 09/2023
<ul> <li>Engineering Design</li> </ul>	10/2023 - 09/2025
<ul> <li>Right of Way</li> </ul>	10/2023 - 09/2025
Construction	02/2026 - 12/2027
om or email info@smcta.com	B - 22



# SAN MATEO COUNTY<br/>TransportationITS Improvements in Daly City,AuthorityBrisbane, and Colma

#### TA PROJECT #: SPONSOR: PROJECT COMPLETION: COST OF NEXT PHASE: NEXT PHASE:

UA-000103 C/CAG 2023 \$350,000 Final Design (PS&E)

#### PROJECT OVERVIEW

Deploy ITS equipment, such as an interconnected traffic signal systems, closed circuit television (CCTV) cameras, trailblazer/arterial dynamic message signs, and vehicle detection systems, on local streets and state routes to proactively manage traffic diversion during freeway incidents, and to reduce congestion during normal operations.

#### **PROJECT BENEFITS/NEEDS**

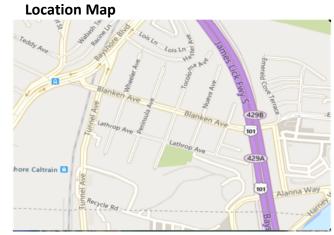
Reduces traffic congestion by enhancing traffic flow around the county, as well as informs drivers of impending recurrent and non-recurrent congestion so that they can adjust their paths or modes while making a trip.

#### **PROJECT COST BY FUNDING SOURCE**

Measure - Orig A Fund	\$0
Measure-New A Fund	\$0
Measure-W Fund	\$0
Local Fund	\$0
State Fund	\$8,500,000
Federal Fund	\$0
Regional Fund	\$0
Other Fund	\$0
RTP-LongRangePlan Fund	\$0
Unfunded Fund	\$2,385,000
TOTAL COST	\$10,885,000

#### **PROJECT COST BY PHASE**

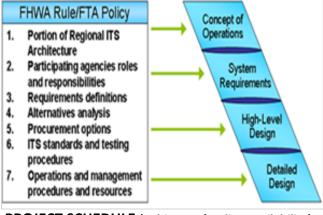
TOTAL COST	\$10,885,000
Construction	\$9,912,000
<ul> <li>Right of Way</li> </ul>	\$21,000
<ul> <li>Engineering Design</li> </ul>	\$350,000
<ul> <li>Environmental Review</li> </ul>	\$602,000
<ul> <li>Project Initiation Document</li> </ul>	\$0
<ul> <li>Planning Study</li> </ul>	\$0



#### **Existing Conditions**



#### **Proposed Conditions**



#### **PROJECT SCHEDULE** (Subject to funding availability)

<ul> <li>Planning Study</li> </ul>	Complete
<ul> <li>Project Initiation Document</li> </ul>	Complete
<ul> <li>Environmental Review</li> </ul>	02/2019 - 12/2020
<ul> <li>Engineering Design</li> </ul>	02/2021 - 06/2022
<ul> <li>Right of Way</li> </ul>	07/2022 - 09/2022
Construction	07/2022 - 12/2023
om or email info@smcta.com	B - 23

This page left blank intentionally.

# **APPENDIX C**

Abbreviations and Acronyms

This page left blank intentionally.

#### MEASURE A AND W HIGHWAY CAPITAL IMPROVEMENT PROGRAM FY2021-FY2030

Abbreviations and Acronyms April 30, 2021

## Appendix C Abbreviations and Acronyms

Caltrans	California Department of Transportation
C/CAG	City/County Association of Governments (for San Mateo County)
CEQA	California Environmental Quality Act
CFP	Call for Projects
CIP	Capital Improvement Program
GHG	Greenhouse Gas
КСА	Key Congested Areas
MTC	Metropolitan Transportation Commission
NEPA	National Environmental Policy Act
PS & E	Plans, Specifications, and Cost Estimates
RTP	Regional Transportation Plan
SR	Supplemental Roadways
SRHP	Short Range Highway Plan
ТА	San Mateo County Transportation Authority
TAC	Technical Advisory Committee
TEP	Transportation Expenditure Plan

#### MEASURE A AND W HIGHWAY CAPITAL IMPROVEMENT PROGRAM FY2021-FY2030

Abbreviations and Acronyms April 30, 2021

This page left blank intentionally.