

Metropolitan Transportation Commission Operations Committee

September 11, 2020

Agenda Item 5a

Contracts to Deliver Bay Bridge Forward (2020)

- i. Contract – I-580 Westbound High Occupancy Vehicle Lane Extension:
Kimley-Horn & Associates, Inc. (\$1,485,000);**
 - ii. Contract – I-80 Westbound High Occupancy Vehicle Lane Extension:
Verano Technical Services, Inc. (\$640,000);**
 - iii. Contract – I-80/Powell Street Interchange Transit Access Improvements:
T.Y. Lin International (\$1,250,000);**
 - iv. Contract – I-80 Design Alternative Assessment: HDR Engineering, Inc. (\$1,246,000); and**
 - v. Contract – Bay Bridge Forward (2020) Program/Project Manager: Gray-Bowen-Scott (\$349,000)**
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Subject: Contracts to deliver Bay Bridge Forward (2020) operational projects.

Background: On February 12, 2020, the Bay Area Toll Authority (BATA) Oversight Committee supported Bay Bridge Forward's suite of operational improvements to address bottlenecks at the approaches to the San Francisco-Oakland Bay Bridge (SFOBB), increase passenger throughput, and manage travel demand.

At the May 13, 2020, BATA Oversight Committee, staff provided an update on a funding plan to proceed with advancing the various projects under Bay Bridge Forward (2020). With an initial \$15 million in funding from the Alameda County Transportation Authority (ACTC) and MTC, MTC will:

- Prepare the I-80 Design Alternative Assessment (DAA) to identify a recommended set of corridor-wide operational improvements to advance into the project delivery pipeline; and
- Complete the environmental and design phases for the following capital projects: the I-580 Westbound High Occupancy Vehicle (HOV) lane extension, I-80 Westbound HOV lane extension, and I-80/Powell Interchange transit access improvements.

Intending to break the project delivery paradigm by shaving years off to deliver capital projects, staff continues to discuss project streamlining opportunities with Caltrans. With streamlining, we may be able to deliver these Bay Bridge Forward operational projects in two years or less.

Given the recent impacts of COVID-19 and social distancing protocols, there has been a dramatic reduction in transit services, transit ridership, and car/vanpooling, resulting in an increase in single-occupancy vehicles. As the economy and travel activities continue to resume, traffic demand could soon overwhelm the regional highway system, particularly in the SFOBB corridor. Operational improvements identified under Bay Bridge Forward (2020) will provide a jump start in improving traffic operations and reducing delays to support and incentivize transit and shared mobility in the corridor.

i. Contract – I-580 Westbound HOV Lane Extension: Kimley-Horn and Associates, Inc. (\$1,485,000)

On May 6, 2020, MTC issued a Request for Qualifications (RFQ) to hire a consultant for the Alameda I-580 Westbound HOV Lane Extension Project to extend the HOV lane approaching the Bay Bridge toll plaza to approximately the I-980/SR 24 interchange, which would provide travel time savings for HOVs and buses. On July 2, MTC received Statements of Qualifications (SOQs) from two firms: Kimley-Horn and Associates, Inc. (Kimley-Horn) and Rajappan & Meyer Consulting Engineers, Inc. A panel comprised of staff from MTC, Alameda County Transportation Commission (ACTC), and Caltrans reviewed the proposals based on individual/team expertise and experience, understanding of the project, depth of resources and availability, and presentation. Based upon this evaluation, staff recommends the selection of Kimley-Horn and Associates, Inc.

Kimley-Horn and Associates, Inc.'s proposal outlined an approach that demonstrated a more robust understanding and project delivery approach to the project. The proposed team has experience working on similar HOV lane conversion projects, including the I-580 Westbound Open Road Tolling and HOV Lane Extension Project in Contra Costa County, and a successful HOV lane conversion in Minnesota.

The table below provides the final ranking based upon panel evaluations:

Consultant	Ranking
1) Kimley-Horn and Associates, Inc.	1
2) Rajappan & Meyer Consulting Engineers, Inc.	2

Attachment A-1 includes a summary of Kimley-Horn and Associates, Inc. and its subcontractors' small business enterprise (SBE) and disadvantaged business enterprise (DBE) status.

ii. Contract – I- 80 Westbound HOV Lane Extension: Verano Technical Services, Inc. (\$640,000)

On June 15, 2020, MTC issued an RFQ to hire a consultant for the Alameda I-80 Westbound HOV Lane Extension Project to extend the HOV lane approaching the Bay Bridge toll plaza in the vicinity of the Emeryville Crescent, which would provide travel time savings for HOVs and buses. On July 24, MTC received one SOQ from Verano Technical Services, Inc. A panel comprised of staff from MTC and ACTC reviewed the proposal based on individual/team expertise and experience, understanding of the project, depth of resources and availability, and presentation. Based upon this evaluation, staff recommends the selection of Verano Technical Services, Inc.

Verano Technical Services, Inc.'s proposal demonstrated a strong project team that clearly understands the project delivery approach and project challenges. The proposed team successfully delivered MTC's West Grand Avenue On-Ramp Bus/HOV Lane project, which has similar project characteristics.

Attachment A-2 includes a summary of Verano Technical Services, Inc. and its subcontractors' SBE and DBE status.

iii. Contract – I-80/Powell Street Interchange Transit Access Improvements: T.Y. Lin International (\$1,250,000)

On July 9, 2020, MTC issued an RFQ to hire a consultant for the Alameda I-80/Powell Street Interchange Transit Access Improvement Project to improve bus access at this interchange in the City of Emeryville. On August 6, MTC received SOQs from four firms: T.Y. Lin International, Parsons Transportation Group, Inc., AECOM Technical Services, Inc., and Rajappan & Meyer Consulting Engineers, Inc. A panel comprised of staff from MTC, ACTC, City of Emeryville, and AC Transit reviewed the SOQs based on individual/team expertise and experience, understanding of the project, depth of resources, and presentation and developed a short-list of firms to be considered for selection: T.Y. Lin International, AECOM Technical Services, Inc., and Parsons Transportation Group, Inc. Interviews were held with the short-listed firms on August 17. Based on the results of the initial evaluation, as well as the interviews, staff recommends the selection of T.Y. Lin International.

T.Y. Lin International's SOQ outlined an approach that demonstrated a strong understanding and delivery approach of the project. The firm's team has experience working on similar interchange improvements involving roundabouts, and pedestrian, bicycle, and transit access, including the I-80/Ashby interchange improvement project in the City of Berkeley.

The table below provides the final ranking based upon panel evaluations:

Consultant	Ranking
1) T.Y. Lin International	1
2) AECOM Technical Services, Inc.	2
3) Parsons Transportation Group, Inc.	3
4) Rajappan & Meyer Consulting Engineers, Inc.	4

Attachment A-3 includes a summary of T.Y. Lin International and its subcontractors' SBE and DBE status.

iv. Contract – I-80 Design Alternative Assessment: HDR Engineering, Inc. (\$1,246,000)

On June 26, 2020, MTC issued an RFQ to hire a consultant for the Alameda/Contra Costa County I-80 Design Alternative Assessment to identify a range of near-term and mid-term operational and demand management strategies that can support higher occupancy modes of travel in the I-80 corridor between the Carquinez Bridge in Crocket and the Bay Bridge in Oakland. On July 23, MTC received SOQs from five firms: ARUP North America Ltd., HDR Engineering, Inc., Kimley-Horn and Associates, Inc., Kittelson & Associates, Inc., and WSP USA, Inc.

A panel comprised of staff from MTC, ACTC, and Contra Costa County Transportation Authority reviewed the SOQs based on qualifications, understanding of the project, approach, and presentation and developed a short-list of firms to be considered for selection: HDR Engineering, Inc., Kimley-Horn and Associates, Inc., Kittelson & Associates, Inc., and WSP USA, Inc. Interviews were held with the short-listed firms on August 10. Based on this evaluation, staff recommends the selection of HDR Engineering, Inc.

HDR Engineering, Inc.'s SOQ outlined an approach that demonstrated a stronger understanding of the needs of the project. The firm's team has experience working on similar and relevant transportation projects on the region's highway network, including I-580 and I-680.

The table below provides the final ranking based upon panel evaluations:

Consultant	Ranking
1) HDR Engineering, Inc.	1
2) WSP USA, Inc.	2
3) Kittelson & Associates, Inc.	3
4) Kimley-Horn and Associates, Inc.	4
5) ARUP North America Ltd.	5

Attachment A-4 includes a summary of HDR Engineering, Inc. and its subcontractors' SBE and DBE status.

v. Contract – Bay Bridge Forward (2020) Program/Project Manager, Gray-Bowen-Scott (\$350,000)

In February 2019, after a competitive procurement process, the MTC Operations Committee approved the On-Call Project/Program Management and Strategic Advisor Services Bench, comprised of 14 pre-qualified firms. On June 6, 2020, MTC issued a Request for Proposal (RFP) and invited all 14 pre-qualified firms under this bench to submit proposals for Bay Bridge Forward (2020) Project/Program Manager to provide project/program management and strategic advisory services and assist MTC with the development and delivery of the Bay Bridge Forward (2020) projects. On July 27, MTC received proposals from two firms: Gray-Bowen-Scott and Mott MacDonald Group, Inc. A panel comprised of MTC staff reviewed the proposals based on qualifications and team experience, approach to completing the project, cost effectiveness, and presentation. Based on this evaluation, staff recommends the selection of Gray-Bowen-Scott.

Gray-Bowen-Scott met MTC's project and programmatic needs; had direct experience with projects and initiatives similar to Bay Bridge Forward (2020); and have key staff who demonstrated extensive relevant project experience, such as Innovate 680, MTC Express Lanes, and design alternative assessments. The team also demonstrated strong experience with the Caltrans project development and delivery process.

The table below provides the final ranking based upon panel evaluations:

Consultant	Ranking
1) Gray-Bowen-Scott	1
2) Mott MacDonald Group, Inc.	2

Gray-Bowen-Scott is neither a small business nor a disadvantaged business enterprise and has no subcontractors.

Issues: None identified

Recommendation: Staff recommends that the Committee authorize the Executive Director or designee to negotiate and enter into the following:

- i. Contract – Interstate 580 Westbound High Occupancy Vehicle Lane Extension: Kimley-Horn & Associates, Inc., (\$1,485,000)
- ii. Contract – Interstate 80 Westbound High Occupancy Vehicle Lane Extension: Verano Technical Services, Inc., (\$640,000);
- iii. Contract – Interstate 80/Powell Street Interchange Transit Access Improvements: T.Y. Lin International, (\$1,250,000)
- iv. Contract – Interstate 80 Design Alternative Assessment: HDR Engineering, Inc., (\$1,246,000)
- v. Contract – Bay Bridge Forward (2020) Program/Project Manager: Gray-Bowen-Scott, (\$349,000)

Attachments: Attachment A-1: Kimley-Horn and Associates, Inc. and its Subcontractors' Small Business Enterprise and Disadvantaged Business Enterprise Status;
Attachment A-2: Verano Technical Services, Inc. and its Subcontractors' Small Business Enterprise and Disadvantaged Business Enterprise Status;
Attachment A-3: T.Y. Lin International and its Subcontractors' Small Business Enterprise and Disadvantaged Business Enterprise Status;
Attachment A-4: HDR Engineering, Inc. and its Subcontractors' Small Business Enterprise and Disadvantaged Business Enterprise Status;
Request for Committee Approval Sheets; and
PowerPoint Presentation: Bay Bridge Forward (2020)


Therese W. McMillan

Kimley-Horn and Associates, Inc. Small Business and Disadvantaged Business Enterprise Status

	Firm Name	Role on Project	DBE* Firm			SBE** Firm		
			Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	Kimley-Horn and Associates, Inc.	Preliminary Engineering, Environmental Planning, and Final Design			X			X
Subcontractor	Elite Transportation Group, Inc.	Traffic Engineering	X	45726		X	2011002	
Subcontractor	Parikh Consultants, Inc.	Geotechnical	X	20259		X	9631	
Subcontractor	WRECO	Hydrology and Hydraulics, Water Quality, Biology, Initial Site Assessment	X	30066				X
Subcontractor	Cogstone Resource Management, Inc.	Paleontology	X	33150		X	39024	
Subcontractor	Associated Right of Way Services, Inc.	Right-of-Way			X			X
Subcontractor	Towill, Inc.	Land Surveying and Mapping			X	X	20103590	
Subcontractor	Far Western Anthropological Research Group, Inc.	Archaeology			X			X

*Denotes certification by the California Unified Certification Program (CUCP).

**Denotes certification by the State of California.

Verano Technical Services, Inc. Small Business and Disadvantaged Business Enterprise Status

			DBE* Firm			SBE** Firm		
	Firm Name	Role on Project	Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	Verano Technical Services, Inc.	Project Management			X			X
Subcontractor	AECOM	Striping, Signing, Specifications, Safety, Pavement, Traffic Evaluation			X			X
Subcontractor	ActiveWayz Engineering, Inc.	Preliminary and Final Engineering	X	43754		X	2002975	
Subcontractor	David J. Powers & Associates, Inc.	Environmental Clearance	X	38205				X
Subcontractor	Ruggeri-Jensen Azar	Surveying, Right of Way and Mapping			X			X
Subcontractor	WRECO	Drainage, Hydraulic and Water Quality Studies	X	30066				X
Subcontractor	Y&C Transportation Consultants, Inc.	Lighting	X	28989				X

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T.Y. Lin International Small Business and Disadvantaged Business Enterprise Status

	Firm Name	Role on Project	DBE* Firm			SBE** Firm		
			Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	T.Y. Lin International	Project Management, Engineering, Environmental, Construction Support			X			X
Subcontractor	Associated Right of Way Services, Inc.	Right of Way			X			X
Subcontractor	Horizon Water and Environment, LLC	Environmental Clearance				X	52574	
Subcontractor	Iteris, Inc.	Traffic / Transportation			X			X
Subcontractor	Kittelson And Associates, Inc.	Traffic / Roundabout Support			X			X
Subcontractor	Parikh Consultants, Inc.	Geotechnical	X	20259		X	9631	
Subcontractor	Rincon Consultants, Inc.	Permitting			X			X
Subcontractor	Toole Design Group, LLC	Urban Design			X			X
Subcontractor	Towill, Inc.	Land Surveying and Mapping			X	X	20103590	
Subcontractor	WRECO	Drainage, Hydraulic and Water Quality Studies	X	30066				X

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HDR Engineering, Inc. Small Business and Disadvantaged Business Enterprise Status

	Firm Name	Role on Project	DBE* Firm			SBE** Firm		
			Yes	If Yes, List #	No	Yes	If Yes, List #	No
Prime Contractor	HDR Engineering, Inc.	Project Management			X			X
Subcontractor	Fehr & Peers	Traffic Operations			X			X
Subcontractor	Elite Transportation Group, Inc.	Traffic Modeling	X	45726		X	2011002	
Subcontractor	ActiveWayz Engineering, Inc.	Design	X	43754		X	2002975	

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REQUEST FOR COMMITTEE APPROVAL

Summary of Proposed Contract

Work Item No.:	1237
Consultant:	Kimley-Horn and Associates, Inc. Pleasanton, CA
Work Project Title:	Alameda I-580 Westbound (WB) High Occupancy Vehicle (HOV) Lane Extension Project
Purpose of Project:	As part of the Bay Bridge Forward (2020) effort, this project will extend the I-580 WB HOV lane approaching the Bay Bridge toll plaza to approximately the I-980/SR 24 interchange. This project would provide travel time savings for HOVs and buses.
Brief Scope of Work:	Consultant shall complete Project Initiation Documents, Project Approval and Environmental Documents, Final Design, and Design Services during construction to satisfy state and federal project development requirements.
Project Cost Not to Exceed:	\$1,485,000
Funding Source:	STP/RM 2/Local Funds from ACTC
Fiscal Impact:	Funding is included in the FY 2020-21 MTC Budget
Motion:	That the Executive Director or designee is authorized to negotiate and enter into a contract with Kimley-Horn and Associates, Inc. for the Alameda I-580 WB HOV Lane Extension Project as described above and in the Operations Committee Summary Sheet dated September 11, 2020 and that the Chief Financial Officer is authorized to set aside \$1,485,000 for such contract.
Operations Committee:	<hr/> Dave Cortese, Chair
Approved:	September 11, 2020

REQUEST FOR COMMITTEE APPROVAL

Summary of Proposed Contract

Work Item No.: 1237

Consultant: Verano Technical Services, Inc.
San Ramon, CA

Work Project Title: Alameda I-80 Westbound (WB) High Occupancy Vehicle (HOV) Lane Extension Project

Purpose of Project: As part of the Bay Bridge Forward (2020) effort, this project will extend the I-80 WB HOV lane approaching the Bay Bridge toll plaza in the vicinity of the Emeryville Crescent. This project would provide travel time savings for HOVs and buses.

Brief Scope of Work: Consultant shall complete Feasibility Report, Preliminary Engineering, Environmental Clearance, Permit Engineering Evaluation Report documentation, Final Design, and Design Services during construction to satisfy state and federal project development requirements.

Project Cost Not to Exceed: \$640,000

Funding Source: RM2/Local Funds from ACTC

Fiscal Impact: Funding is included in the FY 2020-21 MTC Budget

Motion: That the Executive Director or designee is authorized to negotiate and enter into a contract with Verano Technical Services, Inc. for the Alameda I-80 WB HOV Lane Extension Project as described above and in the Operations Committee Summary Sheet dated September 11, 2020 and that the Chief Financial Officer is authorized to set aside \$640,000 for such contract.

Operations Committee:

Dave Cortese, Chair

Approved: September 11, 2020

REQUEST FOR COMMITTEE APPROVAL

Summary of Proposed Contract

Work Item No.: 1237

Consultant: T.Y. Lin International

Work Project Title: Alameda I-80/Powell Street Interchange Transit Access Improvements Project.

Purpose of Project: As part of the Bay Bridge Forward (2020) effort, improve transit vehicle access at the I-80/Powell Street interchange in the City of Emeryville.

Brief Scope of Work: Consultant shall complete Preliminary Engineering, Environmental Studies, Final Design, and Design Services during construction to satisfy state and federal project development requirements

Project Cost Not to Exceed: \$1,250,000

Funding Source: RM2/Local Funds from ACTC

Fiscal Impact: Funding is included in the FY 2020-21 MTC Budget

Motion by Committee: That the Executive Director or designee is authorized to negotiate and enter into a contract with T.Y. Lin International, or a contract with AECOM Technical Services, Inc. should an agreement with T. Y. Lin International not be reached, for the Alameda I-80/Powell Street Interchange Transit Access Improvements Project as described above and in the Operations Committee Summary Sheet dated September 11, 2020 and that the Chief Financial Officer is authorized to set aside \$1,250,000 for such contract.

Operations Committee:

Dave Cortese, Chair

Approved: September 11, 2020

REQUEST FOR COMMITTEE APPROVAL

Summary of Proposed Contract

Work Item No.: 1237

Consultant: HDR Engineering, Inc.
Walnut Creek, CA

Work Project Title: Alameda/Contra Costa County I-80 Design Alternatives Assessment

Purpose of Project: As part of the Bay Bridge Forward (2020) effort, to identify a range of near-term and mid-term operational and demand management strategies that support higher occupancy modes of travel in the I-80 corridor between the Carquinez Bridge in Crockett and Bay Bridge in Oakland.

Brief Scope of Work: Conduct a Design Alternatives Assessment that includes: data collection and assessment of existing conditions; development and evaluation of alternatives; and development of traffic forecasts and operations analysis.

Project Cost Not to Exceed: \$1,246,000

Funding Source: STP

Fiscal Impact: Funding is included in the FY 2020-21 MTC Budget

Motion: That the Executive Director or designee is authorized to negotiate and enter into a contract with HDR Engineering, Inc., or a contract with WSP USA, Inc. should an agreement with HDR Engineering, Inc. not be reached, for the Alameda/Contra Costa County I-80 Design Alternatives Assessment as described above and in the Operations Committee Summary Sheet dated September 11, 2020 and that the Chief Financial Officer is authorized to set aside \$1,246,000 for such contract.

Operations Committee:

Dave Cortese, Chair

Approved: September 11, 2020

REQUEST FOR COMMITTEE APPROVAL

Summary of Proposed Contract

Work Item No.: 1237

Consultant: Gray-Bowen-Scott
Walnut Creek, CA

Work Project Title: Bay Bridge Forward (2020) Project/Program Management

Purpose of Project: On-Call Project/Program Management and Strategic Advisory Services for Bay Bridge Forward (2020).

Brief Scope of Work: Provide project/program management and strategic advisory services to assist MTC with the development and delivery of the Bay Bridge Forward (2020) projects.

Project Cost Not to Exceed: \$349,000

Funding Source: STP

Fiscal Impact: Funding is included in the FY 2020-21 MTC Budget

Motion: That the Executive Director or designee is authorized to negotiate and enter into a contract with Gray-Bowen-Scott for the Bay Bridge Forward (2020) project/program management services as described above and in the Operations Committee Summary Sheet dated September 11, 2020 and that the Chief Financial Officer is authorized to set aside \$349,000 for such contract.

Operations Committee:

Dave Cortese, Chair

Approved: September 11, 2020



Bay Bridge Forward (2020)

MTC Operations Committee

September 11, 2020

Traffic Congestion Has Already Returned at the Bridge Approaches

(Images from 8/17/2020, morning commute)

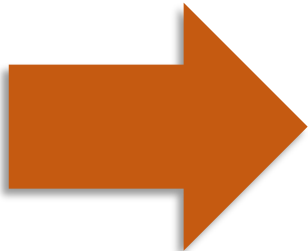
Toll Plaza



I-580 and I-80 Approaches



Breaking the Project Delivery Paradigm

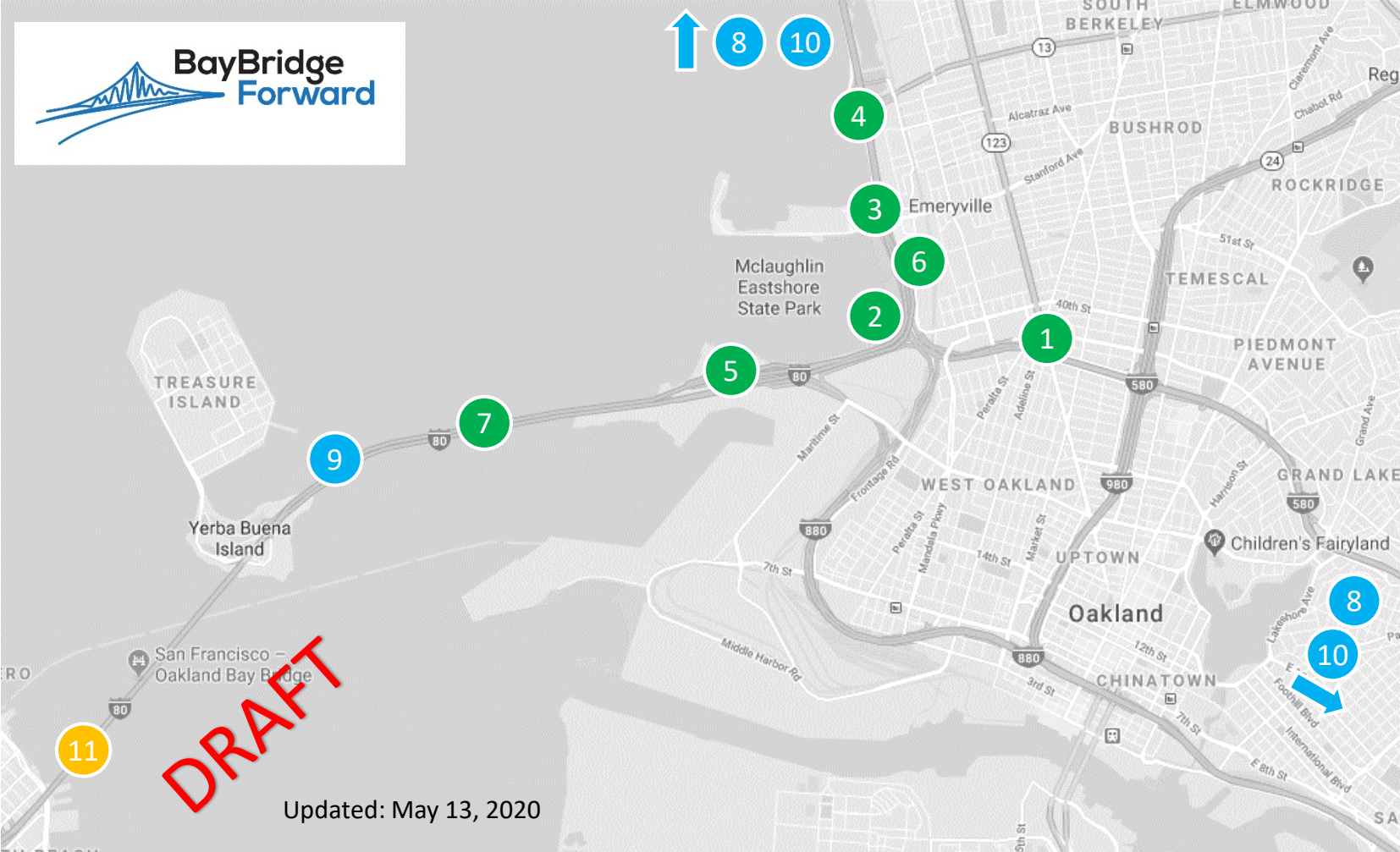


“Quick Builds”



Bay Bridge Forward (2020)

Near-Term Investment to Reduce Delay, Move More People and Buses



Operational Improvements		Cost (2019\$, M)
1	ALA 580 WB Bus/HOV Lane Extension	40
2	ALA I-80 WB Bus/HOV Lane Extension	
3	I-80 Powell Interchange Transit Access Impro. ALA/CC I-80 Design Alternative	
4	Assessment/Operational Improvements Bridge Approach Bus/HOV Lane Hours of	
5	Operations	
6	I-80 HOV Lane Access Mod/Restrictions	
7	Dynamic Bridge Operations: Dynamic transit routing, advanced traveler's information on alternate modes, and others	
Express Bus Service/Transit Core		19
8	Pilot Transbay Express Bus Routes (AC Transit, WestCAT)	
9	SFOBB Bike Shuttle	
10	Commuter Parking on I-580/I-80	
Shared Mobility		6
11	MTC SHIFT Employer Focused	
Total		65

