Project Status Update
Richmond-San Rafael Bridge Improvements

OVERVIEW

There are several projects underway to reduce congestion and improve connectivity on the Richmond-San Rafael Bridge. The three distinct projects are to:

- Add a third lane to eastbound I-580/Richmond-San Rafael Bridge from Sir Francis Drake Boulevard to Marine Street during the peak period. (Funded by BATA)

- Add a bicycle/pedestrian path separated by a movable median barrier to the north side of the upper deck of the Richmond-San Rafael Bridge connecting Contra Costa and Marin County as part of the Bay Trail. (Funded by BATA)

- Improve local access from Marin County to the Richmond-San Rafael Bridge and reduce associated congestion on northbound US-101. Local access improvements will include Sir Francis Drake Boulevard and the I-580 eastbound on-ramp at Bellam Boulevard. (Funded by TAM)
OVERVIEW
To reduce congestion on eastbound I-580 from Marin County to Contra Costa County, BATA is funding the project to convert the right shoulder to a third freeway lane from the Sir Francis Drake Blvd. on-ramp to the Marine Street (Richmond Parkway/Point Richmond) exit.

To provide a bicycle/pedestrian link between the two counties, BATA plans to establish a path on the north side of I-580, including the upper deck of the Richmond-San Rafael Bridge, with concrete barriers to separate bicyclists and pedestrians from westbound freeway traffic.

Major improvements to bicycle access to the bridge from Contra Costa and Marin are included. A separated pathway on the Richmond side will replace the path on the shoulder of I-580 currently used by bicyclists.

STATUS
Both initiatives are designed to be four-year pilot projects. BATA expects to complete construction of the 3rd eastbound traffic lane in the fall of 2017, and to complete the installation of the moveable barrier for the bicycle/pedestrian path on the upper deck of the bridge in the spring of 2018.

To save money and speed completion, BATA and its partners performed the required permitting and environmental work for both projects simultaneously. A Project Approval document was published in August 2016.

PROJECT PARTNERS
MTC, BATA, Caltrans, TAM, CCTA

COST AND FUNDING FOR 3RD LANE BIKE/PED IMPROVEMENTS
BATA has budgeted $74 million dollars for the 3rd Eastbound Travel Lane on the Bicycle/Pedestrian connection on the Richmond-San Rafael Bridge.

Eastbound, peak-period vehicle lane............... $37 million
Bicycle/pedestrian path and related improvements......................... $25 million
Planning, environmental review, design ................ $8 million
Contingency.............................................. $4 million
TOTAL ................................................................ $74 million

STATE OF COMPLETION – 3RD LANE AND BIKE/PED CONNECTION

<table>
<thead>
<tr>
<th>Planning</th>
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Richmond-San Rafael Bridge Local Access Improvements

OVERVIEW
A direct connector between northbound US-101 and eastbound I-580 does not exist. Travelers accessing the Richmond-San Rafael Bridge must pass through local traffic signals. TAM is planning, designing and funding improvements to local roads to improve access to the 3rd Eastbound Lane on the Richmond-San Rafael Bridge. Improvements to Sir Francis Drake Boulevard and Bellam Boulevard are being developed to reduce peak period congestion and delays associated with getting to the bridge from local roads and northbound 101.

Local road access improvements are a cooperative effort between TAM, Caltrans, MTC, Golden Gate Transit, Marin Transit, the County of Marin, the City of San Rafael and the City of Larkspur. The goals of the projects are to improve access for cars and cyclists to the Richmond-San Rafael Bridge from Marin County, while also improving local access to adjacent businesses and communities and providing safe connections for bicycles and pedestrians.

Simultaneously, TAM is initiating planning for the direct connector from northbound US-101 to eastbound I-580. This is the only location in the Bay Area where an approach to a major toll bridge includes travel through local traffic signals.

EAST SIR FRANCIS DRAKE CORRIDOR
- Add a double right-turn lane configuration onto westbound Sir Francis Drake Boulevard at the intersection of Larkspur Landing Circle West to provide more green time for east/west travelers; install more effective and efficient traffic signals.
- Relocate the existing eastbound lane drop on East Sir Francis Drake Boulevard approximately 1,000 feet to the east to reduce congestion that backs into the intersection at Larkspur Landing Circle East.
- Widen the shoulder in the area of the relocated lane reduction to accommodate bicycle traffic.

BIKE ACCESS IMPROVEMENTS
- Add a barrier on the westbound off-ramp to Sir Francis Drake Boulevard to create a two-way bicycle track from Andersen Drive to the access point from East Francisco Boulevard.
Richmond-San Rafael Bridge Local Access Improvements (cont.)

BELLAM BOULEVARD OFF-RAMP/INTERSECTION

• Widen the northbound U.S. 101 off-ramp to Bellam Boulevard to two lanes.
• Add a fourth lane on the northbound off-ramp approach to the signal light of the ramp with Bellam Boulevard.
• Change the lane configuration at the intersection to accommodate through traffic to Eastbound I-580 approaching the Richmond Bridge to a.) two left-turn-only lanes, b.) one straight and right lane, c.) one dedicated right-turn lane.
• Reconfigure the crosswalk on the west side of the intersection to make it a more direct and shorter crossing.

PROJECT PARTNERS FOR LOCAL ACCESS IMPROVEMENTS
TAM, Caltrans, the City of Larkspur and the City of San Rafael

STATUS
Sir Francis Drake Boulevard access improvements are expected to begin construction in summer 2017 and be completed in fall 2017.
Bellam Boulevard access improvements are expected begin construction in spring 2018 and be completed in fall 2018.

COST AND FUNDING
Local Access Improvements $7.7 million was approved for allocation from the Transportation Sales Tax Debt Reserve for the local access projects, which otherwise has no source of funds.

<table>
<thead>
<tr>
<th>Project Component</th>
<th>Estimated costs</th>
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<tbody>
<tr>
<td>East Sir Francis Drake construction:</td>
<td>$2.5 million</td>
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<tr>
<td>Bellam Boulevard off-ramp construction:</td>
<td>$3.0 million</td>
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<td>Project management, environmental clearance, design and construction support:</td>
<td>$1.95 million</td>
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<td>Begin planning for US-101 to I-580 direct connector:</td>
<td>0.250 million</td>
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<td>Total estimated cost:</td>
<td>$7.7 million</td>
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ISSUES/RESOLUTIONS
The project may require additional allocations to cover final costs which will be determined after the projects are designed and construction bids are received. Staff is proposing to reserve some of the Debt Reserve Funds to cover the potential cost difference needed to deliver the Richmond San Rafael Bridge Approach Project.

CONTACT
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STATE OF COMPLETION – SIR FRANCIS DRAKE BLVD

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STATE OF COMPLETION – EASTBOUND I-580 ON-RAMP AT BELLAM

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