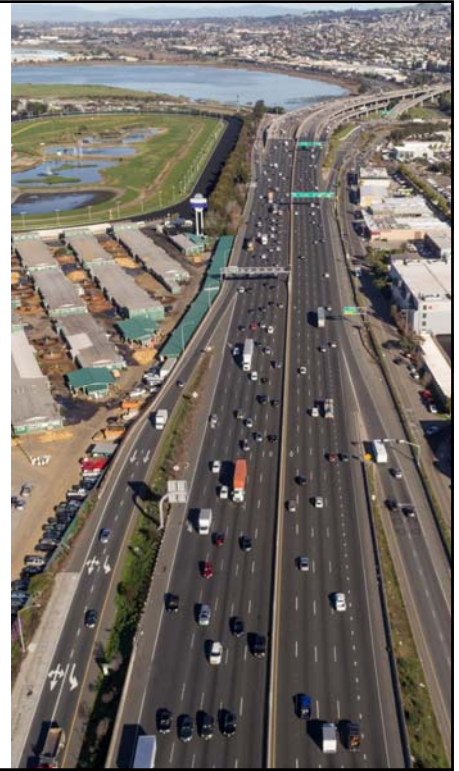


I-80 GILMAN

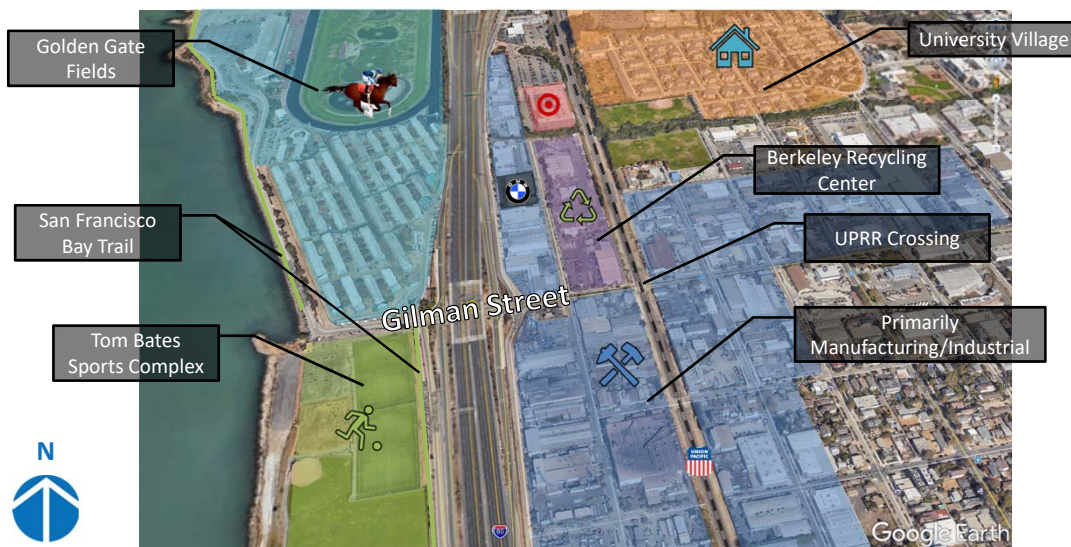
I-80/Gilman Street Interchange Improvement



Presented to
Programs and Projects Committee
January 10, 2022



Project Overview



For illustrative purposes only.

Project Overview

- » The project is being implemented in two phases.
- » Phase 1 is constructing a Pedestrian/bike overcrossing (POC) over I-80
- » Phase 2 contract was awarded on Jan 4th and will start construction in Summer. Phase 2 will construct:
 - Two roundabouts at interchange and sidewalks and at-grade path through the interchange
 - Two miles Pedestrian/bike improvements on local streets from Tom Bates Complex to Cordonces Creek/Harrison Park
 - Bay Trail gap closure at the foot of Gilman Street
 - Modification to Golden Gate Fields access



For illustrative purposes only. 3

Project Overview

- » Phase 2 bid was 8% higher than the Engineers Estimate - Contract awarded with available state funds and local funds contingencies
- » Challenges encountered during construction
 - Change in site conditions
 - Utility costs
- » Total cost increase is \$4.7M



Phase 1



Phase 2

For illustrative purposes only.

Phase 1- Pedestrian/Bicycle Overcrossing (POC)

Phase 1 construction is 27% complete

Key Elements

- 230' steel arch bridge with CIP post tension concrete deck
- 8 approach spans (max. 117' long) reinforce concrete box deck
- 8 bents on CIDH Piles
- 4 approach retaining walls (70'-180') with lightweight concrete backfill
- Minor road improvements
- Utility Relocation (by PG&E and AT&T)
 - Utility work is for both Phase 1 & 2

Visual simulation from Interstate 80 Eastbound looking north.



Visual simulation from Bay Trail southwest of Gilman Street.

For illustrative purposes only.

5

Phase 1 - POC Differing Site Condition

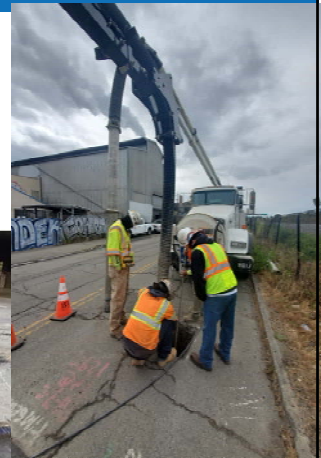
- » Soft/porous soil layer was encountered 20' below the ground surface (mixture of trash & soft soil)
- » Required the contractor to change pile installation method for 35 CIDH piles
- » Condition is not shown on the LOTBs and was not encountered at other nearby locations
- » 27 days delay at \$30K/day - \$800,000
- » CCO for the differing site condition will deplete the contingency
- » \$800,000 are needed to restore the contingency to 5% and avoid future work stoppages



6

Phase 1 Right-of-Way

- » PG&E Electric & AT&T overhead lines are being relocated into an underground joint trench (\$3.1M)
 - Underestimation of capital cost - 173% increase
 - Additional PG&E support cost due to emergency fire response - 237% increase
 - Increase in PG&E overhead cost (rate) - 326% increase
 - ❖ PG&E has stopped work pending an amendment of the utility agreement
 - ❖ PG&E must resume work in January 2022 to avoid impacting Phase 2 construction and costly delays
- » R/W cost increase due to ongoing eminent domain proceedings (\$395K)
- » Additional \$3,499,981 is needed in R/W



7

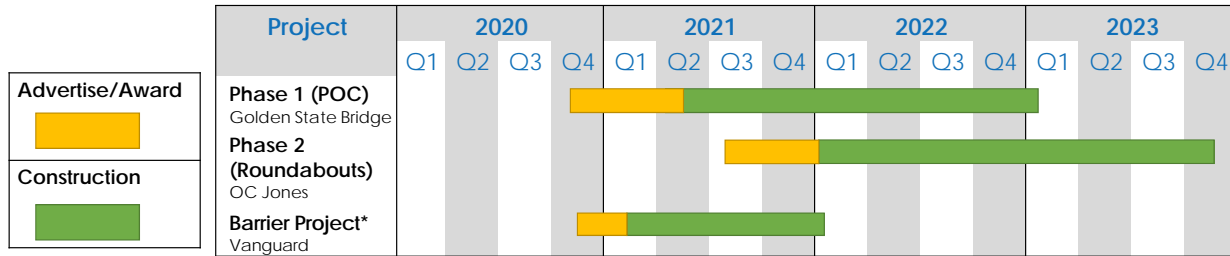
Cost Increase: Support Cost

The Caltrans coop construction administration budget is 8.3% and 12.2% of construction capital costs for Phase 1 and 2.

- » Industry-standard for construction administration services is 13%-18%
- » Caltrans has requested that the construction administration budget be increased from 8.3% to 13.6% using state and local funds with most of the increase funded with state funds
- » A lower budget was initially established, assuming Phase 1 and Phase 2 would overlap and overall shorter duration.
- » DSDC budget is also based on shorter duration
- » The approved funding is insufficient to amend the Caltrans coop and fund DSDC increase.
- » An additional \$382,463 is needed in construction support

8

Schedule - Construction



9

Recommendation

For the Construction of the Gilman Interchange Improvements Project:

1. Approve allocation of \$4,682,334 of Measure BB funds from the Congestion Relief, Local Bridge, Seismic Safety program (TEP-26) for the Project \$800,000 for Construction Capital, \$3,499,871 for Right-of-Way (R/W), and \$382,463 for Construction Support); and
2. Authorize the Executive Director or designee to enter into all necessary agreements to achieve Project commitments

10

I-80/Gilman Street Interchange Improvement

Questions?