



San Mateo Bridges Replacement Project Update

Replacement of Four 100+-Year-Old Rail Bridges

Joint Powers Board

December 3, 2015

Agenda Item #11



Overview

- JPB Bridge Replacement Program
- San Mateo Bridge Project Details
- San Mateo Bridge Project Challenges
- Tilton Bridge Replacement
- Next Steps



Caltrain Bridge Program

- Robust Program in Process
 - SF Roadway Bridges
 - Quint Street
 - San Mateo Bridges
 - Los Gatos Creek (future)
- Update on San Mateo Bridges

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Project Details-Scope

- Replace 4 existing 112 year old bridges in San Mateo
- Bridge design requires construction of berm supported by new retaining walls
- Track lift through project area to improve roadway clearances

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Project Area



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Project Details-Schedule and Budget

- Project Contract awarded in August 2014
- Contract Authority \$22.9 m
- Construction began December 2014
- Anticipated completion Summer 2016
- Project preceded by site preparation in the extremely constrained right of way

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Project Scope



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Project Challenges and Complexity

- Extremely complex site conditions and project requirements
 - Dense vegetation
 - Homes encroaching on ROW
 - Utility relocation/installation (PTC)
 - Caltrain service continuity
 - Temporary road closures

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Constrained Right of Way



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Project Challenges and Complexity

- Project adapts design and schedule as required to respond to unanticipated conditions
 - Retaining wall modifications
 - Project acceleration to mitigate delays
- Utility relocation and installation minimizes additional efforts required by the UP and PTC project
- Major milestone achieved-Tilton Bridge Replacement

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Tilton Bridge Replacement

Demolition of the existing bridge structure



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Tilton Bridge Replacement

Installation of Precast Bridge Abutment



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Tilton Bridge Replacement

Installation of New Bridge Superstructure



Tilton Bridge Replacement

- Bridge replacement completed after revenue service on Friday November 6th through Saturday November 7th
- Bus bridge between Burlingame and San Mateo accommodates passengers during shutdown
- Train 422 operates as scheduled across the new bridge on Sunday November 8th
- Debriefing held to determine lessons learned for the next bridge replacement at Monte Diablo



Next Steps

- Replacement of Monte Diablo Bridge
December 19th

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Questions/comments?

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