



San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission

Mountain Tunnel Improvements Project Resolution to Approve Amend. No. 1 CS-249

Budget and Finance Committee

May 25, 2022

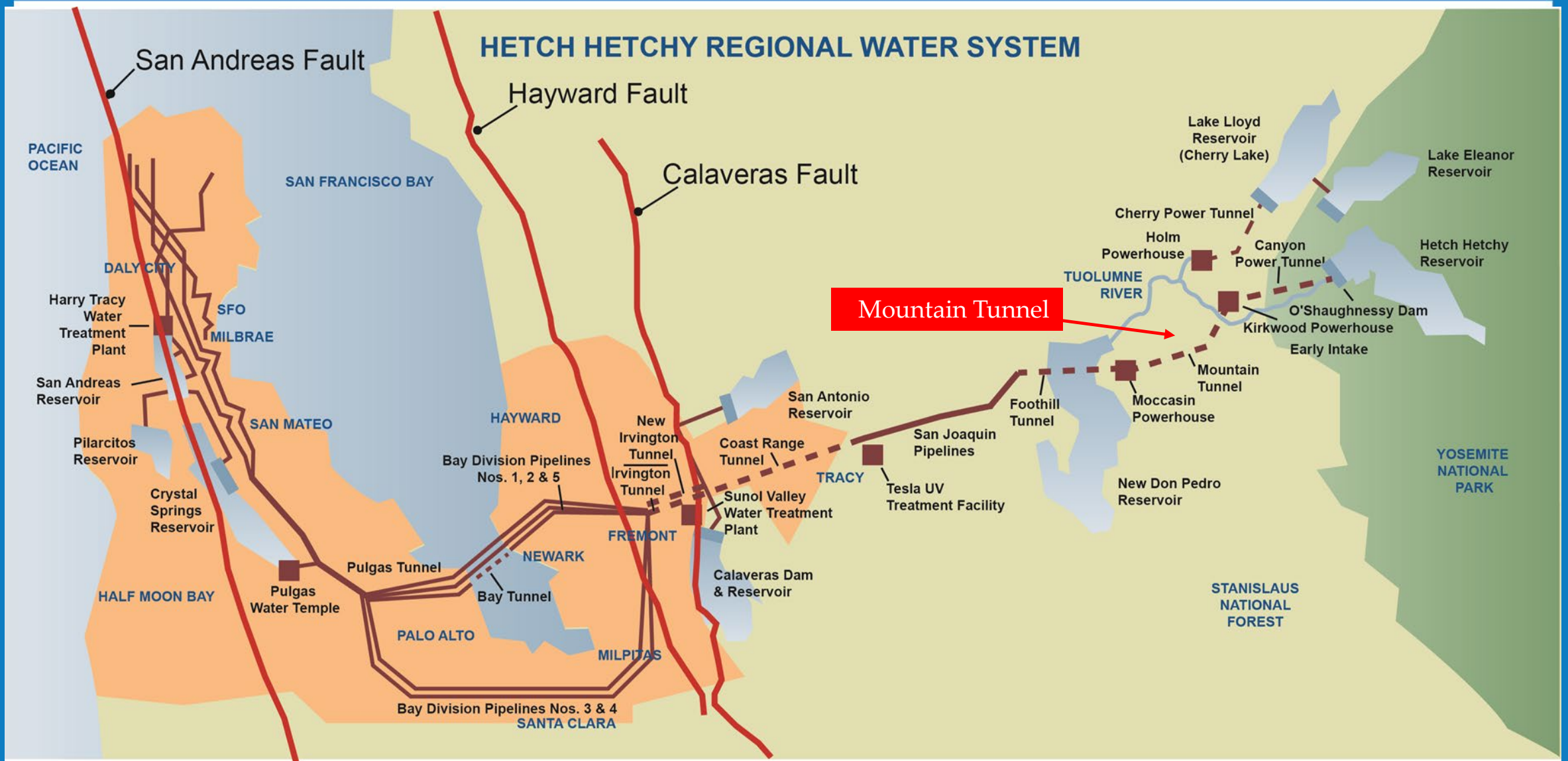
Randy R. Anderson, SFPUC PM
San Francisco Public Utilities Commission



- **This resolution would approve Amendment No. 1 to the Mountain Tunnel Improvements Project Planning and Design Services contract with McMillen Jacobs Associates**
- **The amendment increases the contract amount by \$7,780,000 and the contract duration by three years, for a total not-to-exceed contract amount of \$28,780,000 and a total contract duration of 13 years**
- **The contractor provides specialized engineering services for the Mountain Tunnel Improvements Project with a new term period of February 2016 through February 2029**

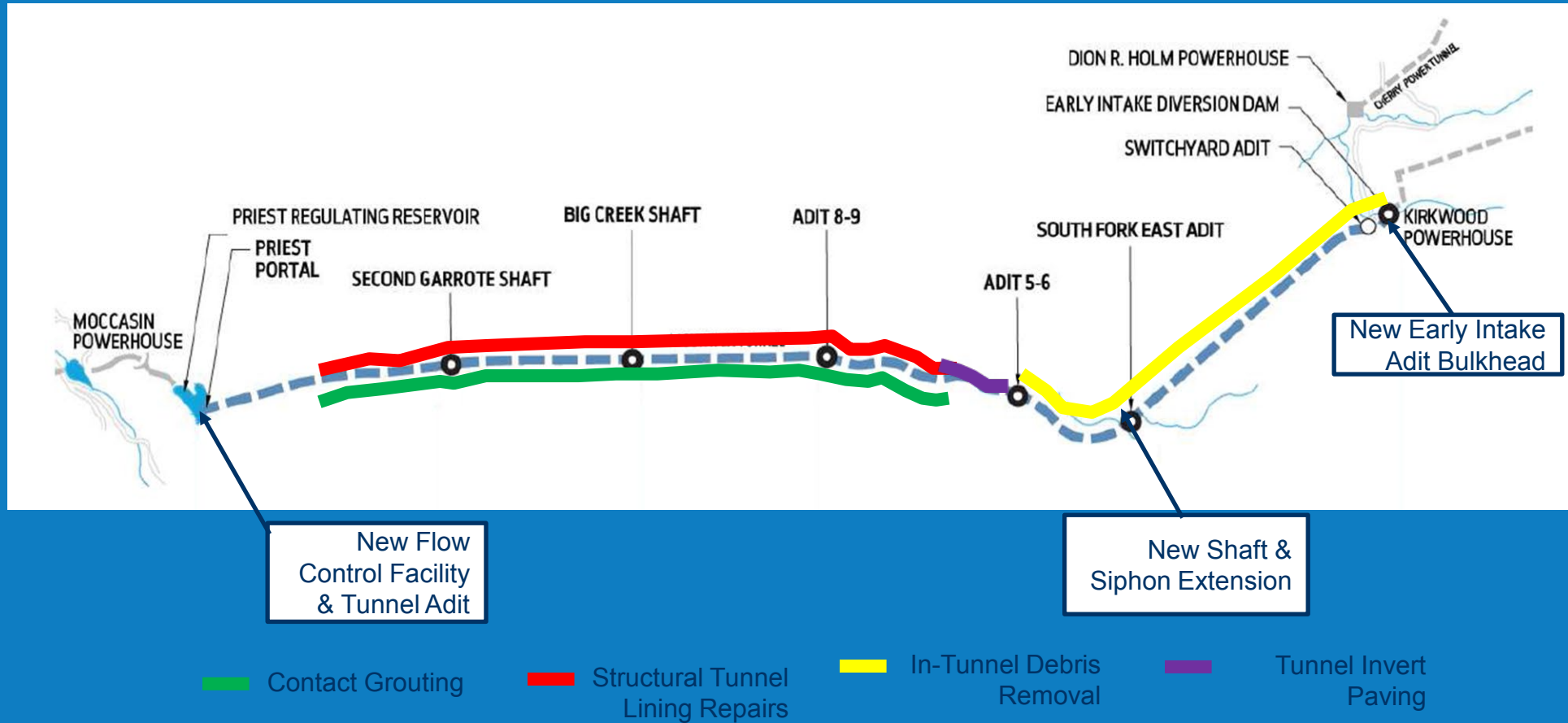


Mountain Tunnel Overview - Location





Mountain Tunnel Improvements Project Scope





Mountain Tunnel Improvements Project Scope – Priest Reservoir



Flow Control Facility Shaft
Under Construction



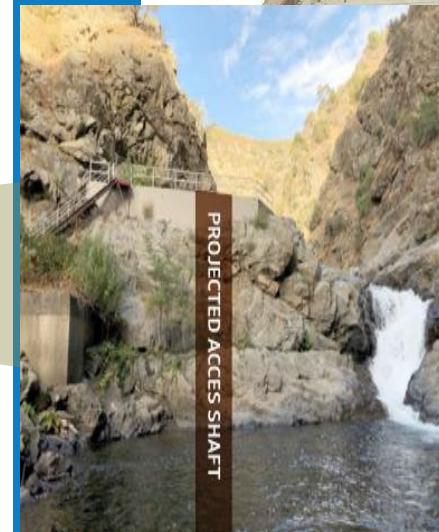
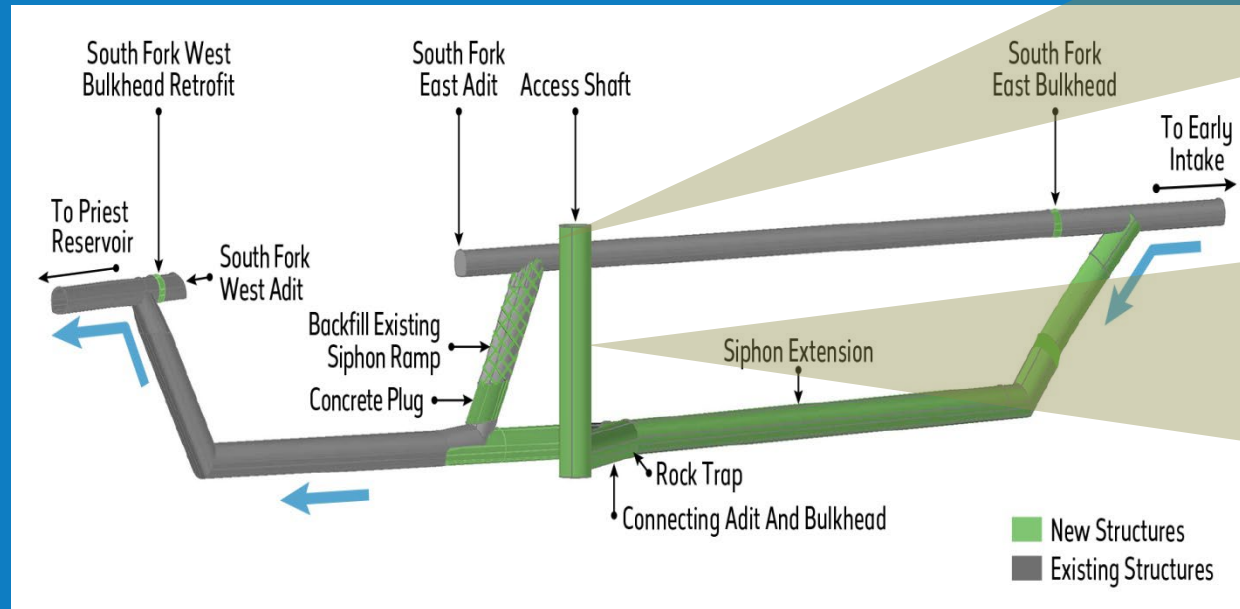
New Priest Adit Tunnel Under
Construction



Mountain Tunnel Improvements Project Scope at South Fork

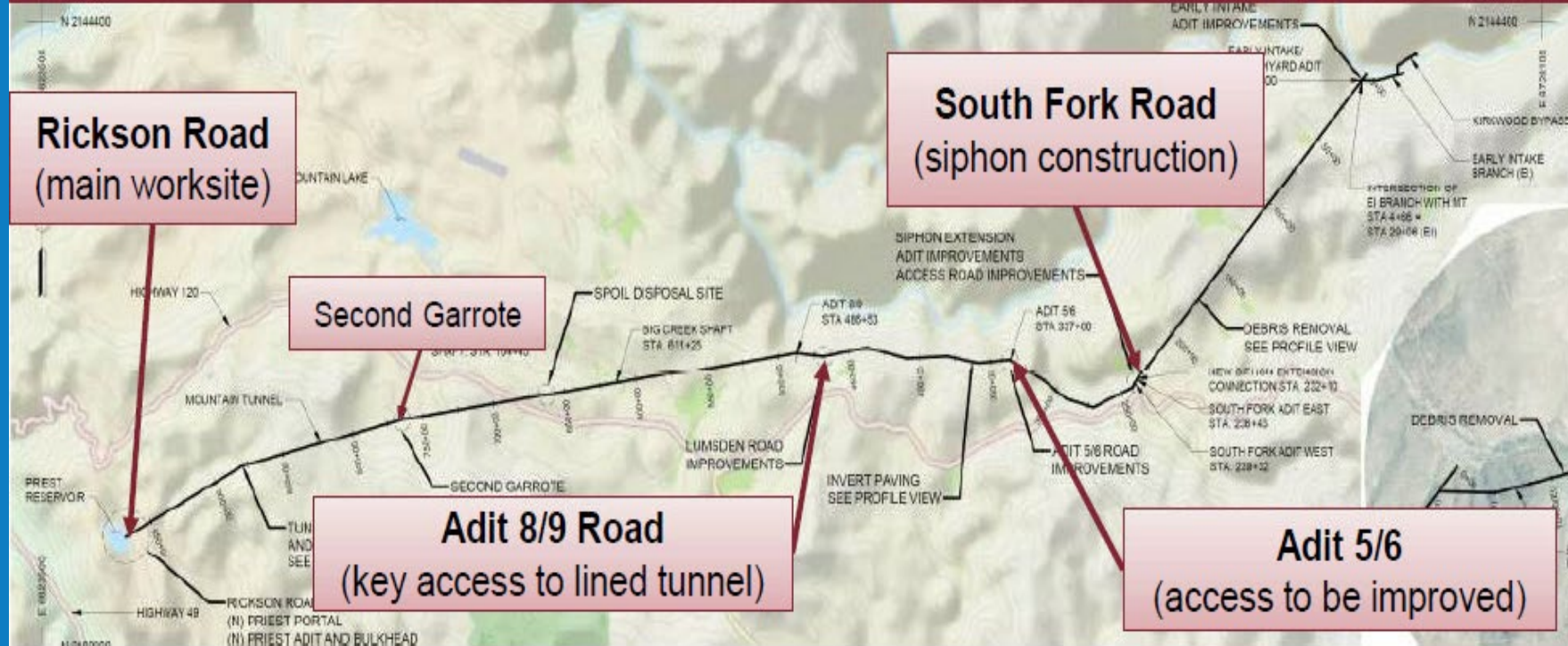
➤ South Fork Siphon Improvements

- 100 foot x 17 foot dia. deep shaft
- 750 foot bypass tunnel
- Bypass goes around leaky rock formation where water infiltrates tunnel





Mountain Tunnel Improvements Project Scope - Roadways



Approximate Road Lengths

- Rickson – 1.4 miles
- Second Garrote – 0.5 mile

- Adit 8/9 Roadway – 1,600 feet
- Adit 5/6 Roadway – 1.7 miles
- South Fork – 0.75 mile



Mountain Tunnel Improvements Project Schedule 6 Year Contract / 5 Outages

Key Schedule Information	Dates
NTP- HH 1000R	January 29, 2021
Days	2,160 Contract Days 426 Days Completed *
Construction Milestones	
• Outage 1 Completed	January 4, 2022 – March 6, 2022
• Outage 2	January 3, 2023 – March 5, 2023
• Outage 3	December 5, 2023 – March 15, 2024
• Outage 4	December 3, 2024 – March 14, 2025
• Outage 5	Decmeber 2, 2025 – March 13, 2026
Substantial Completion	October 29, 2026
Final Completion	December 28, 2026
Percent Complete	20% (based on days completed) *

* As of March 31, 2022



Mountain Tunnel Improvements Budget

Phase	Approved	Spent to Date
Planning	\$5,914,671	\$5,914,671 Completed
Environmental	\$2,780,528	\$2,373,002 Completed
Design	\$15,467,745	\$15,467,745 Completed
Construction Mgmt.	\$52,658,685	\$9,006,461 (17%) *
Construction	\$161,397,322	\$29,615,824 (18%) *
Total	\$238,218,951	\$62,377,703 (26%) *

* As of March 31, 2022



CS-249 Contract Modification Request

- On December 15, 2015, the Board approved Contract No. CS-249, Planning and Design Services, Mountain Tunnel Improvements - the original scope of work and budget was for planning and design of a new bypass tunnel
- After an alternatives analysis during the planning phase in 2017 the lower cost “Tunnel Rehabilitation” alternative was selected
- **This alternative is estimated to provide a cost savings of \$370 million in the construction phase**
- Additional work scope, contract duration and budget are needed for this engineering contract to support the alternative
- Engineering support during construction has increased due to more complex and location-specific work scope including:
 - Adit road improvements
 - Tunnel rehabilitation
 - Addition of a flow control facility at Priest Reservoir



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Questions

