

Update on Safety, Reliability, and Traffic Relief Program (Measure RR)

July 11, 2024 | BART Board of Directors Meeting





### **Bond Oversight Committee Framework**

SEPTEMBER	JANUARY	APRIL	JUNE
Deep Dive	The Annual View	Closing the Loop Meeting	Annual Year End Review
<ul> <li>In-depth view of 8 Programs:</li> <li>Financial Outlook, Budget and Schedule Update</li> <li>Program Update</li> <li>Office of Civil Rights</li> <li>Human <ul> <li>Resources/Staffing</li> <li>Project Status and</li> <li>Milestones</li> </ul> </li> </ul>	<ul> <li>The Annual-view of:</li> <li>Funding, bond, forecasting, context, mixed-funding, etc.</li> <li>Procurement</li> <li>Human Resources/Staffing</li> <li>Small Business Outreach</li> <li>Public Outreach Update</li> <li>Staff Organization Chart</li> </ul>	<ul> <li>Review of Measure RR Audits in the past year</li> <li>Project Controls Framework</li> <li>Bond Funded Program Watchlist Items Review</li> </ul>	<ul> <li>Annual Report Approval</li> <li>Measure RR Project         Successes for this Year</li> <li>Preview of Next Year's         Projects by Program</li> <li>Subcommittee summaries,         discussion, member         election</li> </ul>





### **Executive Summary**

- Through March 2024, \$1.81B of the Measure RR funds have been invested to complete 58% of the work
- Successes for January March 2024:
  - Completion of Construction for the following:
    - R-Line 34.5kV Cable Replacement (between El Cerrito Plaza and Richmond Yard Substations)
    - Platform Escalator at Montgomery St. Station
    - Canopy at Embarcadero Station
  - Contract Award for Material Procurement for K-Line Interlocking Replacement and Traction Power Materials



# Projects in Planning	# Projects in Design	# Projects in Bid/Award	# Projects in Construction	# Projects Completed	TOTAL # Projects
5	28 (-1)	14 (-1)	49 (+2)	61	157

<sup>+ (</sup>Projects added in the phase)





<sup>- (</sup>Projects no longer in the phase)

### Project Progress – Accomplishments (Actual)

Period: April 1, 2023 - March 31, 2024



#### **Repair Tunnels and Structures**

- ✓ Completion of Design for Street Grate and Vent Shafts (East Bay)
- ✓ Completion of Design for Systemwide Slope Stabilization Project
- ✓ Completion of Aerial Fall Protection (A-Line) Fruitvale to Bay Fair Station

#### Replace Train Control/ Increase Capacity



✓ Completion of CBTC Wayside Installation Final Design Review (FDR) Gate 2



#### **Station Access**

- Commenced Construction for Accessibility
  Improvement Project
  (Phase 1 & 2)
- ✓ Completion of Construction for 12th St. and MacArthur Station Bike Racks

✓ Completion of Construction for M-Line and R-Line 34.5kV Cable Replacement (El Cerrito Plaza to Richmond Yard Substations)

Completion of

Construction of

Oakland Yard Tracks

- ✓ Completion of Construction for Station Emergency Lighting (11 Locations)
- Completion of the Concord Willow Pass Road (CWS) High Voltage Transformer Replacement



### Renew Mechanical

 Completion of Construction of Back Flow Preventers (7 Locations)



- Completion of seven canopies at Embarcadero, Montgomery St., Powell St., and Civic Center for Market St. Entry Canopies Project
- Completion of five escalators at Powell St., Montgomery St., Embarcadero and Civic Center Station for Market St. Escalators Project



#### Relieve Crowding

- Completion of Concrete
  Retaining Wall for Hayward
  Maintenance Complex Phase
  2: Civil Grading
- ✓ Completion of Construction for Civic Center Platform Stairs







**Renew Track** 

### Market Street – Entry Canopies & Escalators

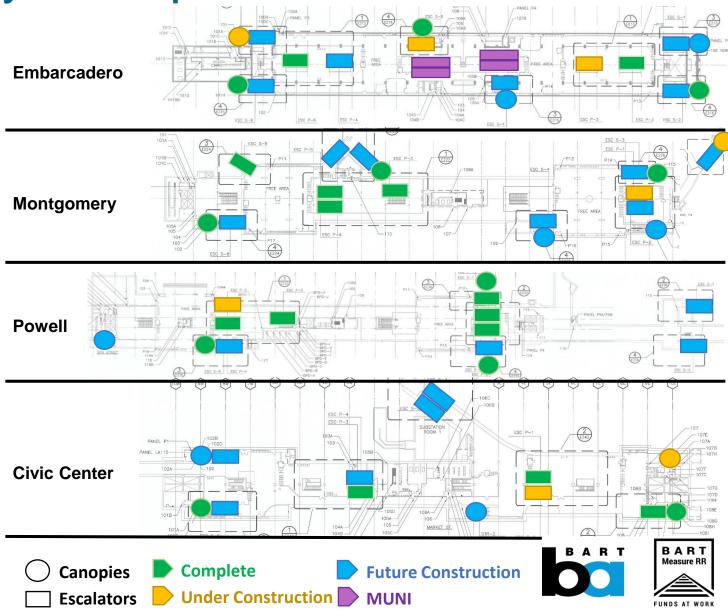
#### **Entry Canopies Project**



**Escalators Project** 







### Market Street – Entry Canopies & Escalators

### **Entry Canopies Project**

Scope Construct 21 canopies (2 pilot)

Schedule 12 Years

Budget \$114M



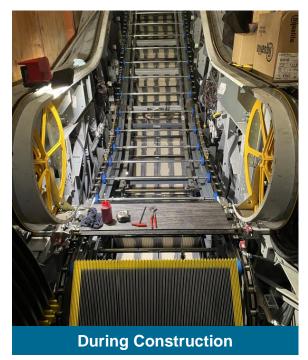


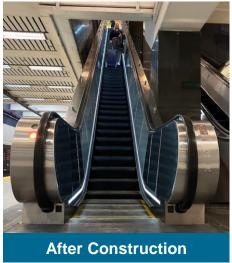
### **Escalators Project**

Scope Procure and install 41 escalators

Schedule 12 years

Budget \$154M

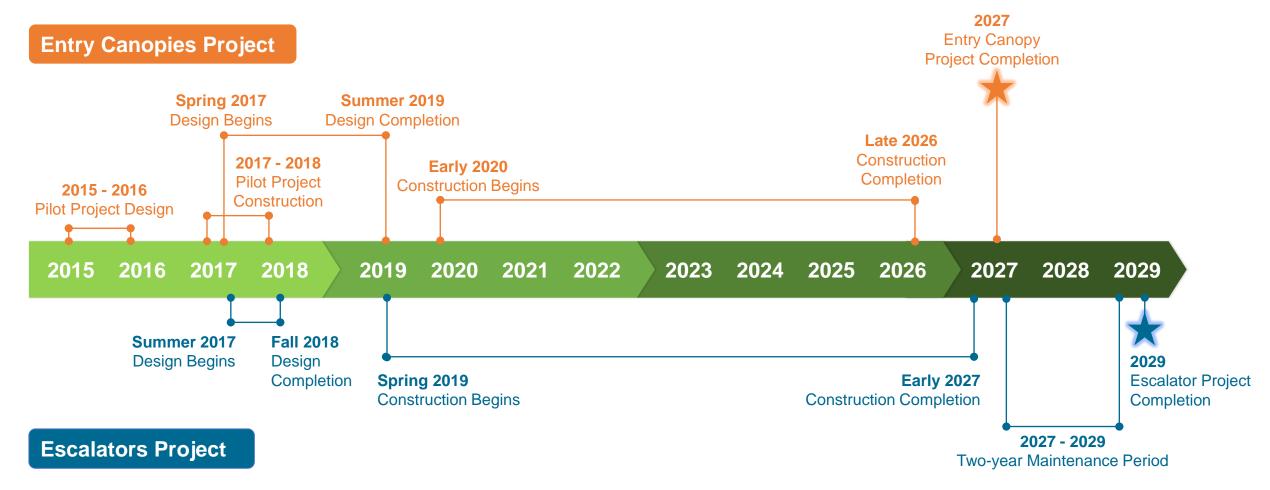








### Project Timelines – Entry Canopies & Escalators





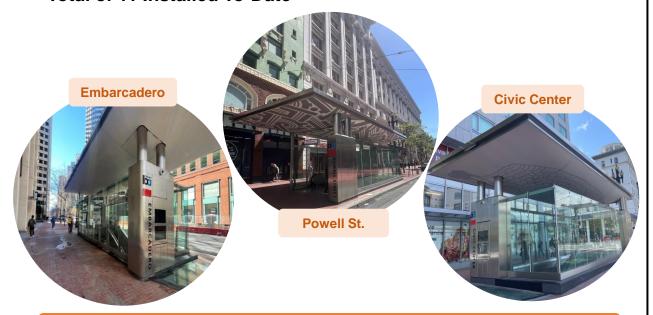


# Project Accomplishments & Forecast – Entry Canopies & Escalators

**Entry Canopies Project** 

Accomplishment Period: April 1, 2023 – March 31, 2024

7 Entry Canopies Installed Total of 11 Installed To-Date



Forecast Period: April 1, 2024 – March 31, 2025

**5 Additional Entry Canopies To Be Installed** 

**Escalators Project** 

Accomplishment Period: April 1, 2023 - March 31, 2024

5 Escalators Installed
Total of 13 Installed To-Date



Forecast Period: April 1, 2024 – March 31, 2025

8 Additional Escalators To Be Installed





### Challenges – Entry Canopies & Escalators



Project Schedule & Sequencing
Escalator Construction after Canopy
Completion



**Differing Site Conditions**Existing Escalator Truss Supports and Utilities



Coordination with BART Projects
Substation Project Coordination at
Montgomery St. Station



Tree Removal
Tree Conflict with Entry Canopy



Coordination with Stakeholders Scaffolding Conflict with Entry Canopy



Vandalism, Property Theft & Bio-hazards
Street Entrance of Civic Center Station



Holiday Moratoriums
Limited Work Hours
(end of November through January
from 7am – 10pm)





### Operational Benefits – Entry Canopies & Escalators

### **Entry Canopies Project**



**Provides Weather Protection** 



**Enhanced Security** 



Provides Real-Time Display Information



**Environmentally Friendly** 



Meets Code Requirements

### **Escalators Project**



Tougher But Lighter - Design



More Energy Efficient



Increased Reliability with Shorter Downtime



**Environmentally Friendly** 



Brighter/Newer Lighting System





### Project Progress – Forecasted Milestones

Period: April 1, 2024 - March 31, 2025



#### **Repair Tunnels and Structures**

- ✓ Issue for Bid Tunnel Waterproofing at M-Line
- Completion of Design-Water Intrusion at Train Control Rooms (Package 2, 4 Locations) and (Package 3, 6 Locations)



#### Replace Train Control/ Increase Capacity

 Completion of Installation of CBTC equipment in the existing Hayward Test Track (HTT) Train Control House



#### **Station Access**

 ✓ Completion of Design for the 19th St. Access Improvement Project



**Renew Track** 

Replacement

Completion of 7 out of 21

weekend shutdowns for

K-Line Interlocking

### Renew Power

- Completion of Construction for Oakland Transition Structure (KTE) Traction Power Substation Replacement
- ✓ Completion of Construction for the Civic Center (MCC) and Montgomery St. (MMS) Substations
- ✓ Issue for Bid for TCCCP East Bay: Transbay Corridor Core Capacity East Bay Substation



#### **Renew Mechanical**

- Issue for Bid Fire Suppression Systems Upgrade (11 Locations)
- Completion of Design for Sewage Pumps Replacement



#### **Renew Stations**

- Completion of Construction of five canopies at Embarcadero, Montgomery St. and Civic Center Station for Market St. Entry Canopies Project
- ✓ Completion of Construction of eight escalators at Embarcadero, Montgomery St., Powell St. and Civic Center Station for Market St. Escalators Project



### Relieve Crowding\*

- Completion of Preliminary Business Case for Link21
- Completion of Public Outreach for Evaluation Findings for Link21

\*Full Title: Design and Engineer Future Projects to Relieve Crowding, Increase System Redundancy, and Reduce Traffic Congestion





## Thank You





