### THIS PRINT COVERS CALENDAR ITEM NO.: 12

# SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY

**DIVISION:** Transit

#### **BRIEF DESCRIPTION:**

Authorizing the Director of Transportation to execute Contract No. SFMTA-2025-28-LOC: Phase 1 light rail vehicles (LRV4) Brake System Overhaul with Wabtec Passenger Transit (Wabtec or Contractor) to perform the scheduled overhaul of key components of the LRV4 brake system on 68 vehicles, for a contract amount not to exceed \$15,527,933, and a term of two years and six months.

## **SUMMARY:**

- On September 30, 2014, the City entered into Contract No. SFMTA-2013-19 with Siemens Mobility Inc. (Siemens Contract) to provide light rail vehicles (LRV4s); Wabtec is the brakes manufacturer subcontractor under the Siemens Contract.
- Between November 17, 2017 and August 31, 2020, the SFMTA placed in service 68 Siemens LRV4 vehicles numbered 2001 through 2068 (commonly known as Phase 1).
- All Phase 1 LRV4 vehicles have reached, or will soon reach, the end of their 5-year warranty
  period. However, some parts of the brake system continue to be covered under extended
  warranty (beyond 5 years) due to warranty defects and pending corrections for which the
  original vendor, Siemens (supported by their subcontractor Wabtec), is contractually
  responsible. These defects have not affected the safe operation of LRV4 vehicles.
- Phase 1 LRV4 vehicles are due for an overhaul of the brake system. The SFMTA is responsible for the overhaul as part of its obligations under the Siemens Contract to maintain the brake system in a state of good repair to preserve the extended warranty.
- As part of its obligations under the Siemens Contract, Contractor will—at no additional cost to the SFMTA remove and reinstall brake components, ship parts being overhauled to the overhaul factory, and replace defective parts under the Siemens warranty.
- On March 21, 2025, the SFMTA, under authority delegated by the Planning Department, determined that Contract No. SFMTA-2025-28-LOC is not a "project" under the California Environmental Quality Act (CEQA) pursuant to Title 14 of the California Code of Regulations Sections 15060(c) and 15378(b).

#### **ENCLOSURES:**

- 1. Resolution
- 2. Contract Agreement
- 3. CEQA/NEPA documents

<b>APPROVALS:</b> DIRECTOR		<b>DATE</b> May 1, 2025
SECRETARY	dilm	April 30, 2025

**ASSIGNED SFMTAB CALENDAR DATE:** May 6, 2025

### **PURPOSE**

Authorizing the Director of Transportation to execute Contract No. SFMTA-2025-28-LOC: Phase 1 LRV4 Brake System Overhaul with Wabtec Passenger Transit (Wabtec) to perform the scheduled overhaul of key components of the LRV4 brake system on 68 vehicles, for a contract amount not to exceed \$15,527,933, and a term of two years and six months

## STRATEGIC PLAN GOALS AND TRANSIT FIRST POLICY PRINCIPLES

This request supports the following SFMTA Strategic Plan Goals:

- 5. Deliver reliable and equitable transportation services.
- 6. Eliminate pollution and greenhouse gas emissions by increasing use of transit, walking, and bicycling.
- 8. Deliver quality projects on-time and on-budget.
- 9. Fix things before they break, and modernize systems and infrastructure.
- 10. Position the agency for financial success.

This item will support the following Transit First Policy Principles:

- 1. Improves the safe and efficient movement of people and goods.
- 2. Improves public transit as an attractive alternative to travel by private automobile.
- 8. Allocates transit investments to meet the demand for public transit generated by new public and private commercial and residential developments.
- 9. Promotes the use of regional mass transit and the continued development of an integrated, reliable, regional public transportation system.

# **DESCRIPTION**

On September 30, 2014, the City entered into contract No. SFMTA-2013-19 with Siemens Mobility Inc. (Siemens Contract) to provide LRV4 light rail vehicles. Wabtec is the brakes manufacturer subcontractor under the Siemens Contract. The SFMTA is in the final phase of delivery for this LRV4 fleet expansion and replacement program. The Siemens' LRV4 program expanded the fleet by 68 vehicles (Phase 1) and is now replacing all 151 of the SFMTA's Breda light rail vehicles for a total fleet size of 219 LRV4 vehicles. The Siemens Contract includes a 5-year warranty for all LRV4 vehicles.

Between November 17, 2017, and August 31, 2020, SFMTA placed in service the 68 Siemens LRV4 Phase 1 vehicles. After delivery, the SFMTA identified fleet defects in the LRV4 Phase 1 brake system while those vehicles were still under warranty. It is important to note that the identified defects have not affected the safe operation of LRV4 vehicles. The brake system's design includes ample redundancy to allow for the vehicles to stop as commanded, even if certain components are defective. Nonetheless, these defects impact the SFMTA because they affect the long-term reliability and maintenance costs of the brake system. The Siemens Contract requires that fleet defects, once identified, be fixed by Siemens, with an extended warranty of 5 years added upon completion of the warranty fix for the corrected parts.

Regardless of whether fleet defects are identified, the Siemens Contract separately requires the SFMTA to perform periodic overhauls on the brake system to maintain the brakes in a state of good repair. After 6 years in service, the Siemens Contract recommends the SFMTA, at its own expense, overhaul the brake system of the Phase 1 LRV4 vehicles, including Motor Truck (MT) and Center Truck (CT) Calipers, MT and CT Hydraulic Power Units (HPUs), and Accumulators. This overhaul is required to maintain the 5-year extension of the Siemens warranty associated with the fixed fleet defects.

In this procurement, the SFMTA will be contracting directly with Wabtec, the brake system manufacturer, to combine the warranty work -- which Siemens is paying for -- with the overhaul work -- which is being paid for by the SFMTA. This combination saves money for the SFMTA. To perform either the warranty or the overhaul work, the brake systems will need to be removed from the vehicles and shipped to Wabtec's facility in South Carolina. By performing both in the same contract, the removal and reinstallation of the brake systems and the cross-country shipping are being performed by Wabtec under the Siemens fleet defect warranty at no additional cost to the SFMTA. In addition, the proposed contract includes replacement of upgraded warranty parts, a discount on non-warranty overhaul parts, and a new 3-year end-to-end warranty on the overhauled components, including both parts and labor. Moreover, the proposed Contract satisfies the SFMTA's obligation to maintain systems in a state of good repair per manufacturer's recommendations required by the Siemens LRV4 vehicle contract and therefore protects the continuing 5 years warranty on replaced fleet defects parts. The proposed Contract includes negotiated terms regarding a limitation on liability to the Contract amount (except for certain enumerated claims) (Contract, paragraph 5.3), and a waiver of incidental and consequential damages (Contract, paragraph 5.5). These provisions are consistent with the limitation on liability and waiver of consequential damages in the Siemens Contract, and meet the requirements of Administrative Code Section 21.23.

The sole-source requirements of Administrative Code section 21.5(b) are satisfied. The brake components acquired under the contract are available from only one source: Wabtec. Wabtec is the original equipment manufacturer (OEM) of the light rail vehicle brake components and is the only party that can perform the work, including providing manufacturer-approved components. The brake parts also have design and performance features that are essential to the SFMTA and no other source satisfies the SFMTA's requirements. It is imperative that any repairs and/or modifications that are made to the brakes meet the original manufacturer's requirements and standards to ensure that the warranties will not be voided.

# STAKEHOLDER ENGAGEMENT

The Civil Service Commission approved the request for this project under request PSC 40625-23/24 on May 6, 2024. Based on feedback from unions, project management staff has agreed to consider the possibility to self-perform future overhauls in-house which are not required to maintain the warranty.

The LRV4 Brakes System Overhaul being contracted has not undergone any public outreach, however the LRV4 vehicles currently deliver the majority of SFMTA rail service and are the

result of extensive stakeholder engagement with multiple groups, including vehicle operators, rail maintenance, labor representatives, the riding public, the SFMTA Citizens' Advisory Council (CAC), the SFMTA Multimodal Accessibility Advisory Committee (MAAC), the SFMTA Board, and the Board of Supervisors.

# **ALTERNATIVES CONSIDERED**

Project staff considered delaying or avoiding the scheduled overhaul. This would forgo the near-term expense of performing the overhaul, but would result in increased system maintenance requirements, cars held out of service, and reduced vehicle reliability and availability. As part of the LRV4 reliability program, project staff from SFMTA, Siemens, and Wabtec closely monitor failures and root cause and are confident that predicted failures will increase if the overhaul is not performed as scheduled. Furthermore, performing the overhaul as scheduled preserves the extended warranty being provided by Siemens (and their subcontractor Wabtec) under obligations of the Siemens Contract. Not performing the brakes overhaul in accordance with manufacturer recommendations could potentially void those warranties which are extremely valuable to the SFMTA because the vendor continues to be responsible for repairs and bears the risk of future failures, defects, and corrective actions.

#### **FUNDING IMPACT**

#### **Contract Cost**

The total cost of this contract \$15,527,933 as shown in Table 1. This includes a \$100,000 contingency for unexpected repairs deemed necessary on individual units caused by unusual damage or unforeseen circumstances in the field. SFMTA staff completed an independent cost estimate of both parts and labor and confirms the vendor price to be fair and reasonable.

Table 1

Tuble 1					
	Items Per	Price Per	Price Per		
Description	Vehicle	Item	Vehicle	Vehicles	Price
MT Caliper Parts Kit	8	\$10,374.46	\$82,995.68	68	\$5,643,706.24
CT Caliper Parts Kit	2	\$10,059.37	\$20,118.74	68	\$1,368,074.32
MT HPU	2	\$20,332.66	\$40,665.32	68	\$2,765,241.76
CT HPU	1	\$20,332.66	\$20,332.66	68	\$1,382,620.88
Accumulator TT16548	3	\$1,925.24	\$5,775.72	68	\$392,748.96
Accumulator 1-60039	3	\$1,925.24	\$5,775.72	68	\$392,748.96
Parts Subtotal			\$175,663.84		\$11,945,141.12
MT Caliper Labor	8	\$4,184.44	\$33,475.52	68	\$2,276,335.36
CT Caliper Labor	2	\$3,502.62	\$7,005.24	68	\$476,356.32
MT HPU Labor	2	\$3,578.92	\$7,157.84	68	\$486,733.12
CT HPU Labor	1	\$3,578.92	\$3,578.92	68	\$243,366.56
Acc' TT16548 Labor	3	\$0.00	\$0.00	68	\$0.00

Acc' 1-60039 Labor	3	\$0.00	\$0.00	68	\$0.00
Labor Subtotal			\$51,217.52		\$3,482,791.36
					\$15,427,932.48
Contingency					\$100,000.00
					\$15,527,932.48
					(rounded to
Total					\$15,527,933)

# **Budget and Funding Plan**

The current budget and funding plan for the Project is provided in Table 2 below:

Table 2

Budget Item	Funding	
Contracts/Purchase Orders	\$15,427,933	
Contingency	\$100,000.00	
Total	\$15,527,933	
Fund Source	Amount	
General Fund (Prop B)	\$2,949,042	
SFCTA Prop L Sales Tax	\$4,965,970	
Transit Sustainability Fee (TSF)	\$2,737,921	
Operating Revenues	\$4,500,000	
Low Carbon Fuel Standard (LCFS)	\$375,000	
Total	\$15,527,933	

### **ENVIRONMENTAL REVIEW**

On March 21, 2025 the SFMTA, under authority delegated by the Planning Department, determined that SFMTA Contract No. SFMTA2025-28-LOC is not a "project" under California Environmental Quality Act (CEQA) pursuant to Title 14 of the California Code of Regulations Sections 15060(c) and 15378(b).

A copy of the CEQA determination is on file with the Secretary to the SFMTA Board of Directors and is incorporated herein by reference.

# OTHER APPROVALS RECEIVED OR STILL REQUIRED

The City Attorney and the Contract Compliance Office have reviewed this item.

The Contract Compliance Office has waived the Local Business Enterprise goal for this project due to the specialized nature of the work and lack of subcontracting opportunities.

The contract will require approval from the Board of Supervisors under San Francisco Charter Section 9.118, as it is over \$10,000,000.

# RECOMMENDATION

Staff recommends that the SFMTA Board of Directors authorize the Director of Transportation to execute Contract No. SFMTA-2025-28-LOC: Phase 1 LRV4 Brake System Overhaul with Wabtec Passenger Transit (Wabtec) to perform the scheduled overhaul of key components of the LRV4 brake system on 68 vehicles, for a contract amount not to exceed \$15,527,933, and a term of two years and six months.

# SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY BOARD OF DIRECTORS

RESOLUTION No.	

WHEREAS, On September 30, 2014, the City entered into Contract No. SFMTA- No. 2013-19 with Siemens Mobility Inc. (Siemens Contract) to provide light rail vehicles (LRV4s); and,

WHEREAS, Wabtec Passenger Transit (Wabtec or Contractor) is the brakes manufacturer subcontractor under the Siemens Contract; and,

WHEREAS, Between November 17, 2017 and August 31, 2020, the SFMTA placed in service 68 Siemens LRV4 vehicles numbered 2001 through 2068 (commonly known as Phase 1); and,

WHEREAS, All Phase 1 LRV4 vehicles have reached, or will soon reach, the end of their 5-year warranty period, but some parts of the brake system continue to be covered under extended warranty (beyond 5 years) due to warranty defects and pending corrections for which the original vendor, Siemens (supported by their subcontractor Wabtec), is contractually responsible; and,

WHEREAS, Phase 1 LRV4 vehicles are due for an overhaul of the brake system; and,

WHEREAS, The SFMTA is responsible for the overhaul as part of its obligations under the Siemens Contract to maintain the brake system in a state of good repair to preserve the extended warranty; and,

WHEREAS, As part of its obligations under the Siemens Contract, Contractor will – at no additional cost to the SFMTA – remove and reinstall brake components, ship parts being overhauled to the overhaul factory, and replace defective parts under the Siemens warranty; and,

WHEREAS, Funding for this project will be provided by a mix of sources including the SFMTA's operating and capital budget; and,

WHEREAS, The Contract Compliance Office (CCO) waived the LBE goal for this Project due to the specialized nature of the work and lack of subcontracting opportunities; and,

WHEREAS, The agreement with Contractor will require approval from the Board of Supervisors pursuant to San Francisco Charter Section 9.118, as it is over \$10,000,000; and,

WHEREAS, On March 21, 2025, the SFMTA, under authority delegated by the San Francisco Planning Department determined that SFMTA Contract No. SFMTA2025-28-LOC is not a "project" under California Environmental Quality Act (CEQA) pursuant to Title 14 of the California Code of Regulations Sections 15060(c) and 15378(b), and,

WHEREAS, A copy of the CEQA determination is on file with the Secretary to the SFMTA Board of Directors, and is incorporated herein by reference; now, therefore, be it

RESOLVED, That the San Francisco Municipal Transportation Agency Board of Directors authorizes the Director of Transportation to execute Contract No. SFMTA-2025-28-LOC: Phase 1 LRV4 Brake System Overhaul with Wabtec Passenger Transit (Wabtec) to perform the scheduled overhaul of key components of the LRV4 brake system on 68 vehicles, for a contract amount not to exceed \$15,527,933, and a term of two years and six months; and be it further

RESOLVED, That the San Francisco Municipal Transportation Agency Board of Directors commends this matter to the Board of Supervisors for its approval of Contract No. SFMTA-2025-28-LOC.

I certify that the foregoing resolution was adopted by the San Francisco Municipal Transportation Agency Board of Directors at its meeting of May 6, 2025.

Secretary to the Board of Directors San Francisco Municipal Transportation Agency