



**Massachusetts Bay
Transportation Authority**

Hyundai Rotem Thirty-Nine (39) Bi-Level Coach Option Procurement

November 21, 2024

Sr Director | Vehicle Engineering | William G. Wolfgang



Overview

The MBTA's Chief Operating Officer, Ryan Coholan, together with Railroad Operations, has identified an immediate need to purchase additional Bi-Level Coaches in order to maintain our ability to service increasing ridership numbers.

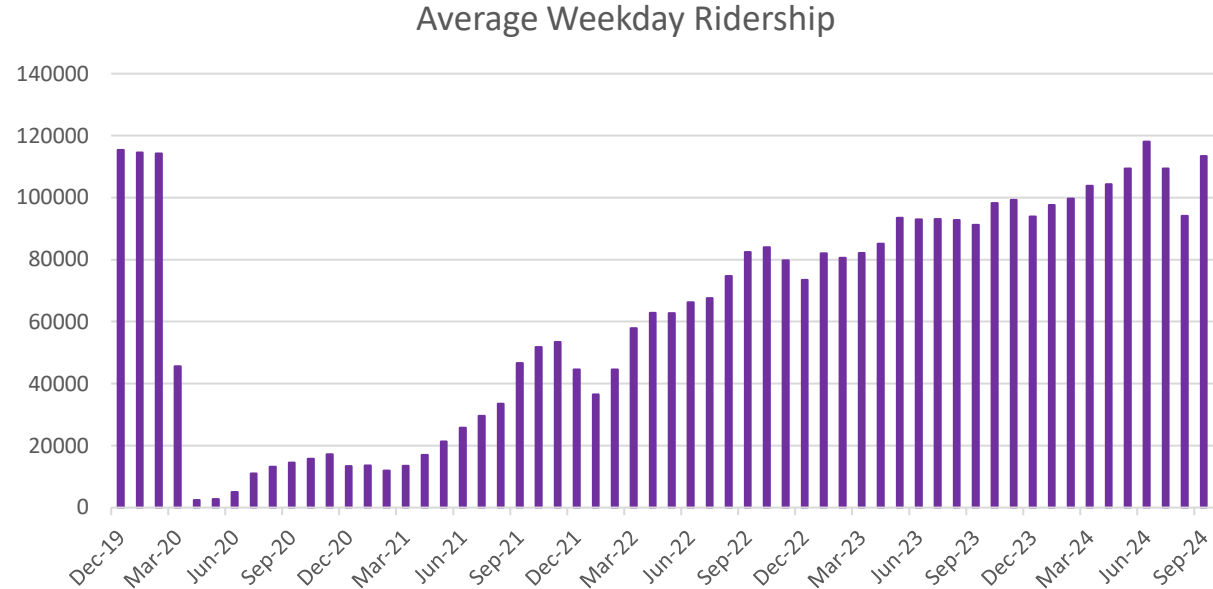
- **260 single-level coaches** were scheduled for retirement.
- **80 more Bi-Level coaches** will allow for full replacement of the single level coaches.
 - **Current contract** allows for the purchase of 80 additional Bi-Level coaches.
 - **41 Coaches** were authorized for procurement by the Board in May 2024, based on the availability of funds at that time.
 - **39 Coaches** still available on this contract if procured prior to December 10, 2024.



Ridership

Commuter Rail ridership continues to return to pre-pandemic levels, leading all modes in average weekday ridership numbers.

Mode	Sep-19	Sep-24	Percent
Subway	762407	405703	53%
Bus	410916	331670	81%
Commuter Rail	120823	113439	94%
The RIDE	6059	4078	67%
Ferry	6763	5607	83%



Note: Ridership is expected to continued to increase with the more dependable and reliable service which will be provided by these new bi-level coaches replacing the 40-year-old single levels.



FC-712 Coach Procurement



Base Contract Overview:

- 83 fully assembled coaches delivered (includes 16 for SCR)
 - 80 currently in service, 3 in testing
- All 83 Coaches will be in-service by the end of 2024

Base Contract Budget:

- Total Funding: \$345,686,459
- Expended-to-date: \$293,570,795
- No additional funding required for this portion of the contract

Current Approved Option

- 41 Blind-Trailer-Coaches approved in May 2024; NTP issued – Aug 2024

Current Approved Option Contract Budget

- Total Funding: \$203,440,485
- Expended-to-date: \$35,198,846



Hyundai-Rotem Coach Procurement



Upgrades Over Single Level Coaches:

- Motorized Doors
 - FRA Requirement per 49 CFR 238
 - Obstruction Detection
 - Traction Control Interlock
- FRA Required Emergency Egress Improvements
- Improved Passenger Amenities
 - LED Lighting
 - Tables with Power/USB Outlets
 - ADA Compliant Restrooms w/ "Hands-Free" Faucet
 - Non-slip Flooring
 - Updated Interior Color Scheme for Option Coaches



Hyundai-Rotem Option Coach Procurement

Seeking approval by the MBTA Board of Directors for:

- Exercising the remaining 39 Option Bi-Level Coaches from Hyundai Rotem on Contract No. FC-712.
- 10 CTCs at \$4,216,000 each, 29 BTCs at \$4,103,000 each.
- Manufactured in the same South Korean facility, shipped fully assembled.
- Deliveries for the 39 coaches will begin 30 months from Notice of Award (NOA). The 39 will be manufactured sequentially following the previously approved 41 coaches.

Benefits of exercising the option on the current contract:

- Saves 4+ years of design time/costs compared to finding a new car builder.
- Hyundai Rotem has committed to 47% Buy America content.
- Achievement of fleet standardization – all Bi-Levels.



Total Project Budget

The proposed total project budget is **\$192,483,422** with the following line items:

Line Item	Budget
Material Procurement (includes Capital Spares)	\$165,175,675
Professional Services	\$7,193,844
Force Account	\$2,583,093
Project Administration	\$3,596,942
Indirect Costs	\$4,453,357
Unallocated Contingency (material & project)	\$9,480,511

In addition to the 41 BTCs on order, this order of 10 CTCs and 29 BTCs will enable the retirement of **ALL** the remaining single level coaches. The single level fleet will be auctioned off after decommissioning.

Note: This project will be funded with State Commonwealth Transportation Fund (CTF) funds, as part of the \$601 million MassDOT-MBTA funding agreement that was approved by the Board of Directors at its October 24, 2024 meeting.



Request of the MBTA Board of Directors

Vehicle Engineering requests that the MBTA Board of Directors authorize the General Manager/CEO of the Massachusetts Bay Transportation Authority to award and exercise the remaining Thirty-Nine (39) Option Coaches on Formal Contract FC-712 to Hyundai Rotem USA Corporation to manufacture, furnish, and deliver additional Commuter Rail Bi-Level Control and Blind Trailer Coaches for a total delivered amount not to exceed \$165,175,675 and to execute any necessary or ancillary documents in the name of and on behalf of the MBTA to effectuate this Agreement.

