



Railcar Replacement Program Periodic Update

Presented to: Committee of the Whole
October 15, 2024

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Program Major Elements

- Railcar Replacement (Red, Blue & Green)
- Design & Construction Support Services
- Infrastructure Modification

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Railcar Replacement Purchase

- Railcar Replacement Purchase – (Siemens Mobility Inc.)
 - 4/18/23: Base contract 24 vehicles
 - 11/4/2023: Exercised Option 1 for 6 vehicles
 - Options for 30 more vehicles remain on the contract
- Current Contract Value - \$195,589,849.00
- Request to exercise options for additional 18 vehicles and spare parts will be presented to Board in November 2024.

Railcar Replacement Purchase

- Completed Preliminary Design Review
- Completed Final Design Review Meetings
- October 2024 - Siemens to begin fabrication

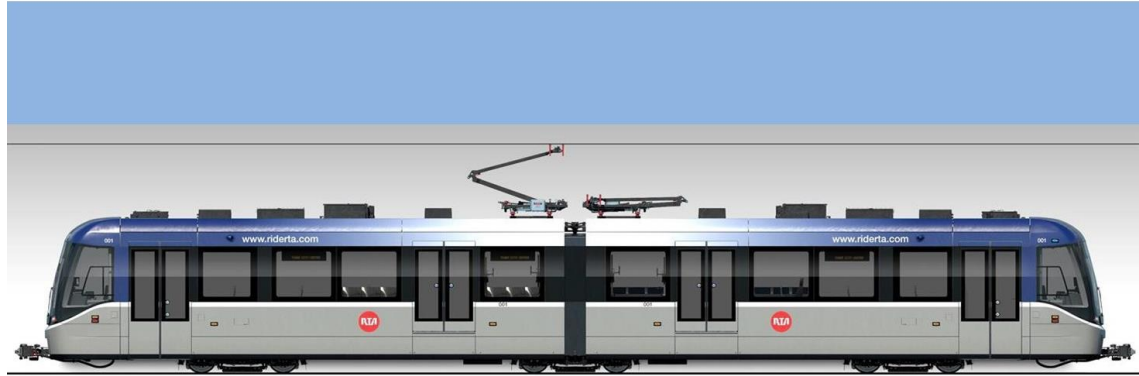
Key Features of New Vehicle

- First High floor LRV built to RT1-2020 design standards
- Ice cutter pantograph on every train
- Heated windshield and pantograph
- Load leveling system to adjust floor height
- Dedicated HVAC unit for operator cab
- 52 passenger seats, 4 wheelchair areas and 2 bicycle racks
- Passenger Information System

High Floor Light Rail Vehicles

II. Exterior Design Concept

Siemens Mobility Rolling Stock | Greater Cleveland Regional Transit Authority



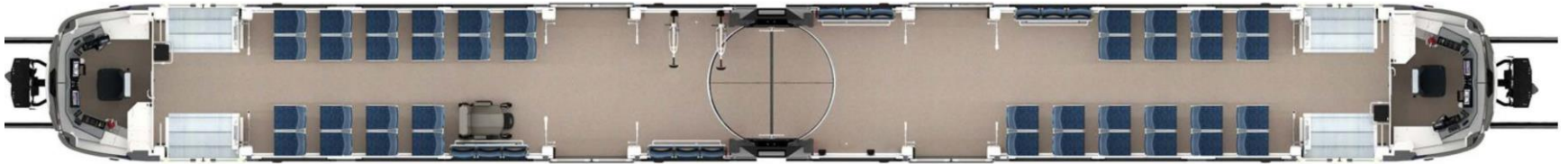
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Interior Layout

Bird's Eye View



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Interior Layout



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Design & Construction Support Services

- Vehicle Engineering Consulting Firm – Hatch
 - Developed railcar RFP
 - Provides design review and manufacturing oversight
 - Safety & Security Certification
 - K & J Safety and Security Consulting Services

Design & Construction Support Services

- Infrastructure Modifications
 - Track work design utilizes existing on-call Rail consultant Parsons
 - RFPs for facility modifications with Bowen
 - Red Line platform modifications with Osborn Engineering
 - Construction support services will be performed by GCRTA staff

Infrastructure Modifications

- Port of Cleveland - Environmental Process- complete
 - Temporary Easement: Complete
 - Permanent Easement: Anticipated November 2024
- Port of Cleveland - Track Connection - ongoing
 - Parsons (Design) – Complete
 - Kennedy Railroad Services (Construction)
 - 4/16/2024: Board Award
 - 5/8/2024: Construction NTP issued

Infrastructure Modifications

- Platform Modifications
 - Red Line - Environmental Process – FTA Review Ongoing
 - Red Line – Design – Osborn Engineering
 - 7/30/2024: Board Award
 - 9/18/2024: NTP Issued
 - Design Completion Anticipated July 2025
 - Blue/Green/Waterfront Lines – TBD
 - Issuing RFP Design (1st Qtr 2025)

Infrastructure Modifications

- Brookpark Rail Shop
 - Track work
 - Parsons (Design) – expected completion November 2024
 - Track work – advertise construction bid package (anticipated November 2024)
 - Building Interior
 - Parsons (Design) – expected completion October 2024
 - Building Interior – advertise construction (October 2024)

Infrastructure Modifications

- Central Rail Maintenance Facility
 - Bowen (Design) Building Interior
 - expected completion April 2025
 - Construction – advertise bid package – (June 2025)

Owner Furnished Equipment

- Motorola
 - Radio and associated wiring and equipment
- Cradlepoint
 - Passenger wifi
 - Wayside connectivity
- Vontas
 - Customer information
 - Route performance

Other Coordination Activities

- Employee Training
 - Hired 2 additional trainers
 - Began “Up-To-Speed” Training – (completed Coupler, Pantograph, Trucks)
 - Leveraging knowledge from other transit properties
- Operational Considerations
 - Testing, construction, revenue service implementation and final configuration

Railcar Pricing

Vehicle Acquisition

- Base contract for 24 vehicles was issued at \$5,166,366 per vehicle
- The first six options exercised, with no escalation
- The remaining options are escalated, based on:
 - Adjustment Ratio = $(50\% \times \text{PPI Adjustment Index} / \text{PPI Original Index}) + (50\% \times \text{Labor Adjustment Index} / \text{Labor Original Index})$
 - Adjustment Ratio based upon index values at the scheduled date of start of Final Assembly of the respective option vehicle, and at Base Order NTP.
- November 2024 – plan to exercise options for 18 vehicles and spare parts
- OMB will present a Capital Appropriation Budget Amendment

Questions

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