



**Massachusetts Bay
Transportation Authority**

MBTA Update
American Council of Engineering Companies

Sam Zhou, Assistant General Manager & Chief Engineer

July 17, 2024



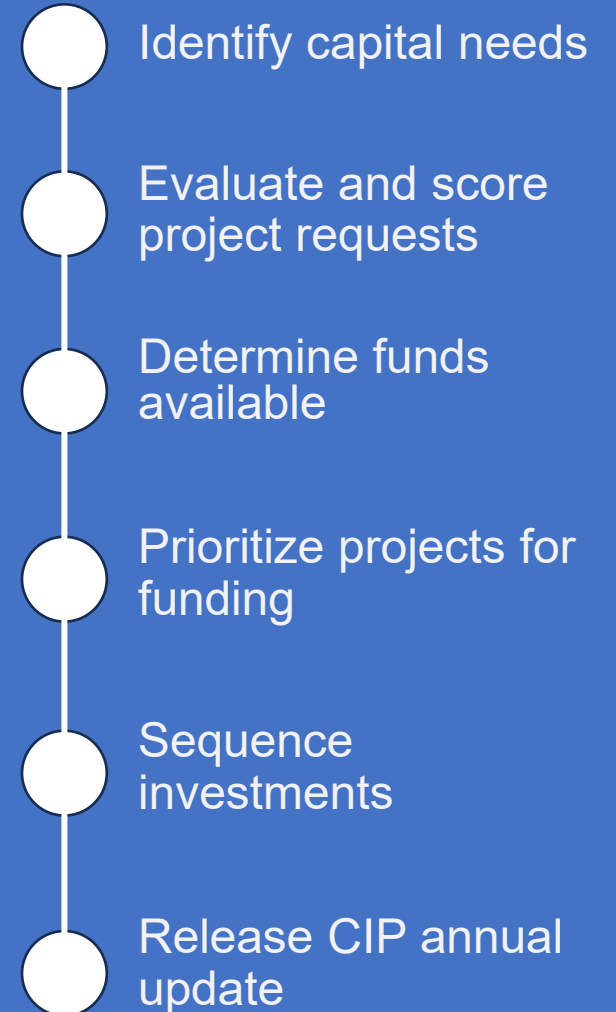
What is the Capital Investment Plan (CIP)?

The CIP contains all the MBTA's capital projects over the next five years. Capital projects help us maintain, acquire, renew, construct or improve capital assets.

Every year, as per our legislative mandate, we update the CIP. This allows the T to allocate new funding to ongoing and/or new projects.

The CIP is a short-term, financially constrained investment plan. It accounts for the T's available sources and committed uses in the five-year window.

- CIP step-by-step process



The FY25-29 CIP works towards Healey-Driscoll Administration and MBTA Priorities

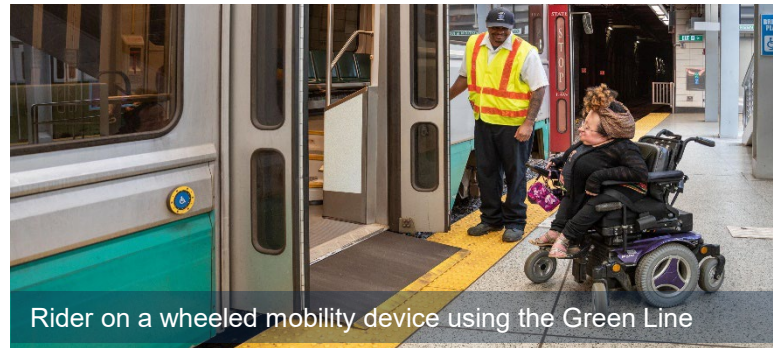
In accordance with Gov. Healey, Lt. Gov. Driscoll, Sec. Tibbitts-Nutt and GM Eng, the Proposed MBTA's FY25-29 CIP advances towards a transportation system of the future with investments that:

- ✓ Address critical asset needs,
- ✓ Keep the T on a path to better safety, service, and sustainability, and,
- ✓ Focus on the investment objectives listed below:



Track repairs on our rapid transit system

Safety, Reliability, and Modernization



Rider on a wheeled mobility device using the Green Line

Accessibility



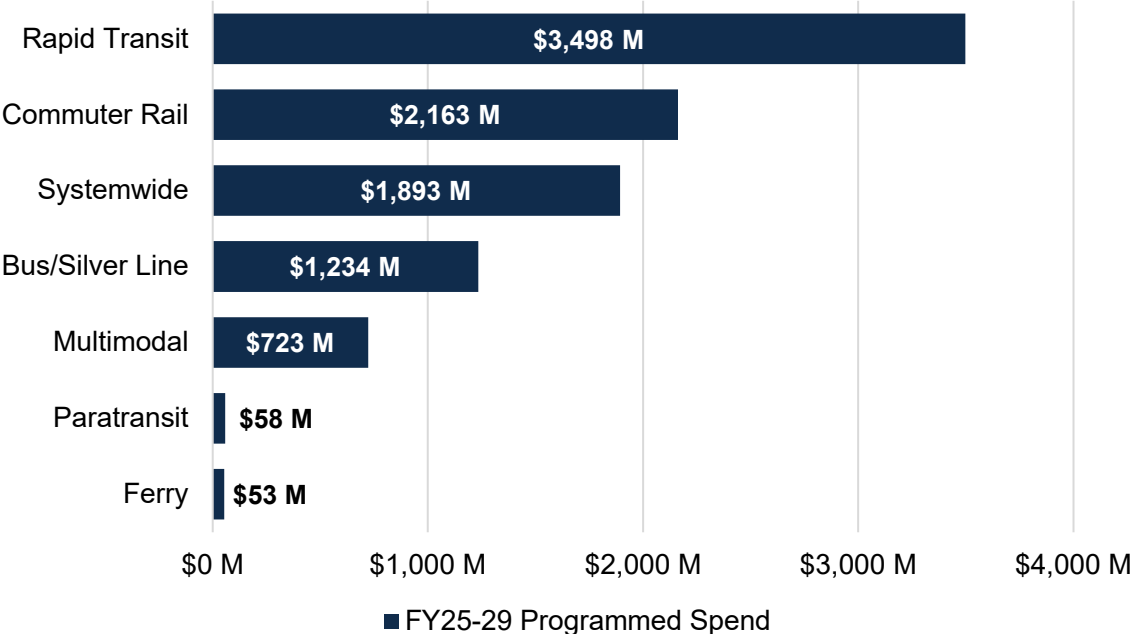
South Boston Power Plant

Sustainability and Resilience

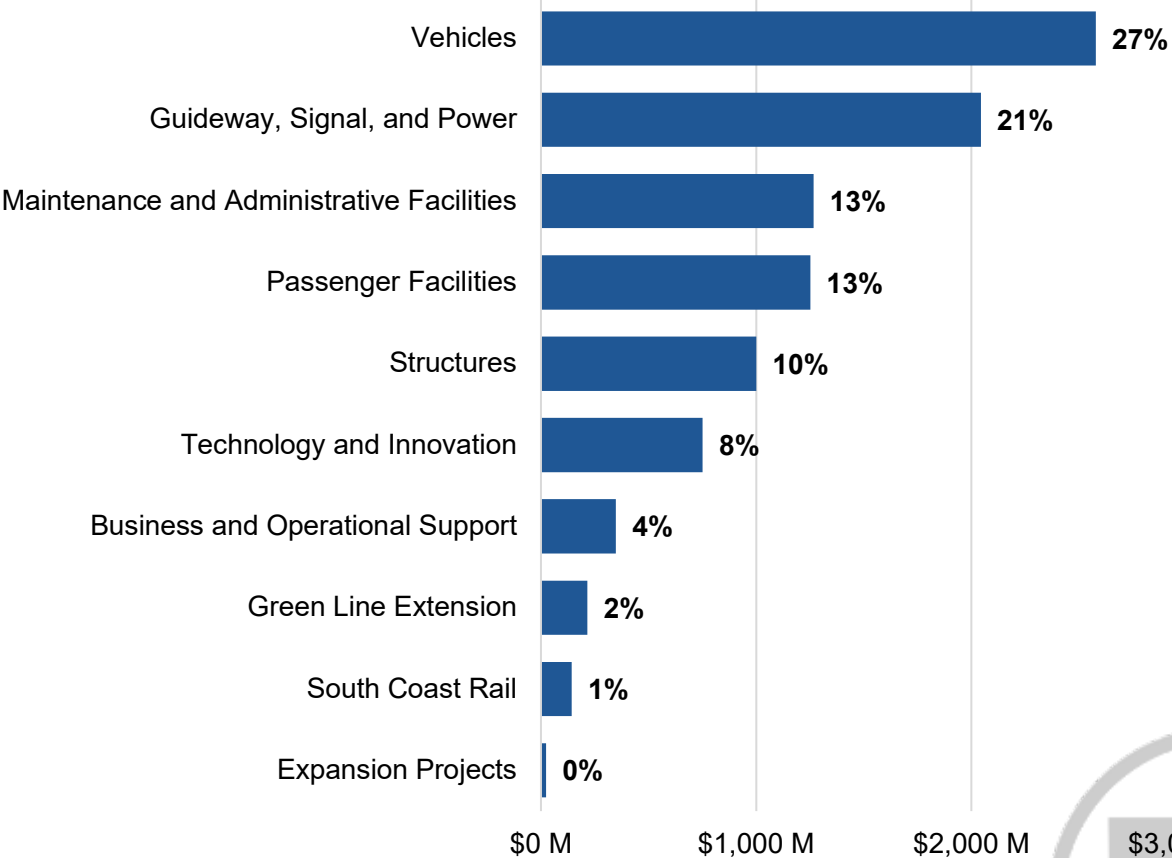
FY25-29 CIP: Programmed Spend

The CIP includes over 640 projects with a programmed spend of \$9.6B over the next five fiscal years, including \$843M¹ in new funding:

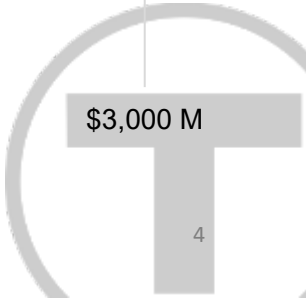
FY25-29 Programmed Spend by Mode (Millions)



FY25-29 Programmed Spend by CIP Program



¹Includes all funding allocated by MBTA through FY25-29 CIP development process. Does not include new discretionary grants or funding awarded by outside entities.



FY25-29 CIP Highlights

Major Investments



Stations and Structures

- Funding for North Station Draw 1 Bridge Replacement
- Life-extending repairs on multiple bridges
- Station accessibility projects along the Green Line
- Urgent station repairs, from stairs to lighting



Commuter Rail & Ferry

- 20-minute decarbonized service along the Fairmount Line
- Ferry infrastructure, including accessibility improvements



Equity and Diversity

- Investments toward Regional Rail service along the EJ Corridor
- Accessibility and circulation improvements at Nubian Square Bus Station
- Improvements to maintenance and field facilities



Track

- Vital track improvement work on rapid transit lines
- Hi-Rail access tunnel on the Red Line
- Washout prevention along the Commuter Rail system



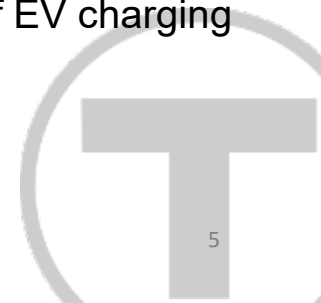
Bus Network

- Bus Network Redesign implementation
- New bus procurement
- Transit priority quick build and major corridor projects



Sustainability and Resilience

- Climate change vulnerability and adaptation planning
- Energy efficiency improvements
- Increased number of EV charging stations



FY25-29 CIP Book | Structure

The final FY25-29 CIP Book and project list will be available at:

www.mbta.com/cip



The CIP Book defines the MBTA's Capital Plan and details investment priorities and key process considerations, including:

- Overview of the Capital Investment Plan and its development process
- Summary of our current context, challenges, and investment objectives
- Details about our key modal initiatives
- Snapshot of our overall capital program strategy beyond the CIP



Upcoming Professional Services Projects

Widett Circle Layover (0-15%)
Conceptual Design and (0-100%)
Demolition Design

- June 2024
- 18 months



GEC Services for Security and
Emergency Management
Improvements

- June 2024
- 3 years



Cost Estimating, Scheduling,
Risk Analysis, Constructability,
Value Engineering and Change
Order Review Services GEC

- June 2024
- 3 years



Technical Support Services for
System-Wide Accessibility GEC

- June 2024
- 5 years



Support Services for Rail
Maintenance and Security GEC

- July 2024
- 5 years



Support Services for Bus
Operations GEC

- July 2024
- 5 years



Engineering and Program
Management Services for the
Multi-Mode Locomotive

- July 2024
- 12 years



GEC for Design and
Construction Phase Services

- July 2024
- 3 years



General Code Consulting GEC

- August 2024
- 3 years



Fire Alarm and Fire Protection
Systems Assessment, Design
and Commissioning GEC

- August 2024
- 3 years



2 Major Projects Not Yet Listed

Tunnel
Inspections

Draw 1
CM/PM



MBTA Business Center Page



**Massachusetts Bay
Transportation Authority**

15 Monday
July 2024

Business Center

[Business Center](#) > [Bidding and Solicitations](#) > [Design & Construction](#) > [Future Projects](#)

- Advertising
- Filming
- Sampling
- Real Estate
- Subway Performers Program
- Bidding and Solicitations
- DBE Program
- Innovation Proposals
- FORMS

Future Professional Services Contract Bid Solicitations

The T is constantly working to upgrade facilities to better support riders.

All future and current solicitations are posted to our web site and are constantly updated to reflect the most recent information. You can find the summary for upcoming solicitations below.

[Related Links](#)

CONTRACT NUMBER	PROJECT NAME	PROJECT DESCRIPTION	ADVERTISE DATE	ANTICIPATED ADVERTISEMENT DATE	DURATION
F60PS01	Widett Circle Layover (0-15%) Conceptual Design and (0-100%) Demolition Design	Design and construct a new layover facility at Widett Circle to increase layover capacity and improve operational resiliency and reliability for Commuter Rail operations on the south-side of the network. The first phase of work, and subject of this solicitation, is advancement of the project to the 15% Conceptual Design milestone. As an early action initiative, the first phase also includes full demolition design and advancement of demolition deliverables to the 100% Final Design and PS&E milestone.	June 18, 2024	June 2024	18 months
S99PS09-11	GEC Services for Security and Emergency Management Improvements	Implementation, planning and design for construction of safety/security related enhancements associated with any Security and Emergency Management Services throughout the Authority.	June 18, 2024	June 2024	3 years
Z91PS63-66	Cost Estimating, Scheduling, Risk Analysis, Constructability, Value Engineering and Change Order Review Services GEC	Cost Estimating, Scheduling, Risk Analysis, Constructability, Value Engineering Services, and Change Order Review for General Engineering Consulting (GEC) Services.	June 25, 2024	June 2024	3 years
SWAPS03	Technical Support Services for System-Wide Accessibility GEC	Ad hoc station/facility site assessments aimed at identifying barriers to accessibility, design services for small projects addressing minor-moderate barriers to accessibility, project scoping, plan reviews, and site visits by subject matter experts in universal and inclusive design, review of miscellaneous electronic documents, websites, and applications to ensure compliance with WCAG2.1, graphics development and	July 2, 2024	June 2024	5 years



Business Center Process Improvements

MBTA continues to focus on the effective and efficient delivery of professional service contracts by examining a variety of areas from procurement through closeout. Recent improvements include:

- Active Bid Express platform for all new procurements
- New Salary Escalation Rate Policy
- Creation of OR and PM/CM Scope and Compensation Matrices, which will be released shortly



Alternative Procurement Methods

MBTA recently created a Project Delivery Analysis process and Alternative Delivery Review Committee to determine the most appropriate delivery method for a particular project.

Upcoming alternative delivery procurements:

- Design-build procurement for C Branch Accessibility Project (estimated to be advertised this week)
- Design-build procurement for B Branch Accessibility Project (estimated to be advertised in December 2024)



Thank you!

