



**Massachusetts Bay
Transportation Authority**

American Council of Engineering Companies State Markets

Sam Zhou, Assistant General Manager & Chief Engineer

Shaunna Jammal, Deputy Chief Contract Services

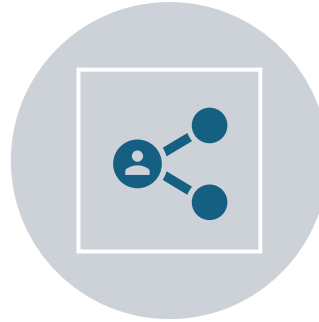
April 16, 2025



Trust in Collaboration



ACEC'S MEMBERS ARE CRUCIAL
PARTNERS IN DELIVERING OUR
CAPITAL PROGRAM.



WE NEED YOUR SUPPORT TO MEET
OUR SYSTEM'S NEEDS.



WE TRUST YOU TO BE RESPONSIBLE
PARTNERS ON ALIGNING DESIGN
EFFORTS WITH REALISTIC FUNDING.

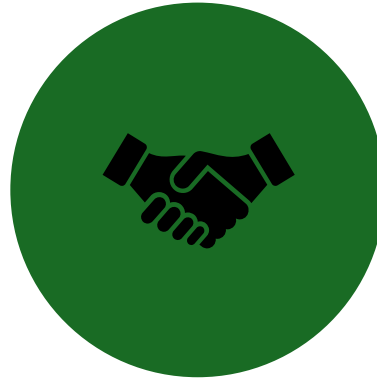
Financial Reality

- MBTA's CIP for FY26-30 is in final stages of development
- MBTA faces uncertainty with regards to federal funding, but has strong state support
- Commonwealth Transportation Fund has unlocked borrowing capacity to support \$601M worth of projects over the next five years.
- MBTA's FY25 grant awards totaled \$539M, including a \$472M MEGA grant award for North Station Draw 1 (the largest grant award in MBTA history)
- This year MBTA only able to allocate \$1,031M of funding to projects – only 8% of the total funding requested.
- Focus on best use of funds

Openness to Feedback



CHALLENGING
CIRCUMSTANCES



APPRECIATE THE
UNDERSTANDING AND
CONTINUED PARTNERSHIP



WELCOME FEEDBACK

Climate Resiliency Assessment

1

Sustainability and resilience are central to MBTA's mission to serve the public by providing safe, reliable and accessible transportation.

2

MBTA has adopted a goal to increase sustainability and enhance resilience of the transit system.

3

A Climate Assessment was developed and released in September 2024 to support the organization in achieving this goal.

4

The Assessment orients the MBTA's next steps to plan, implement and integrate sustainability and resilience.

Climate Resiliency Assessment

The Assessment identifies next steps organized into five focus areas

Planning and Prioritization



- 1.1 Develop a systemwide resilience plan
- 1.2 Identify geographic resilience needs and coordinate with external partners
- 1.3 Complete decarbonization planning across asset classes
- 1.4 Develop a power master plan
- 1.5 Update emergency response plans and strengthen organizational preparedness
- 1.6 Deepen integration of climate goals into capital planning

Organizational and Workforce Needs



- 2.1 Establish clear governance with designated executive ownership and decision-making authority
- 2.2 Carry out workforce development initiatives to support technology adoption and to build capacity to identify resilience and sustainability challenges and solutions to meet climate goals
- 2.3 Review MBTA project management processes to further integrate sustainability and resilience in project planning and delivery
- 2.4 Review staffing levels needed to implement climate-related initiatives and ensure continuity of service during climate events
- 2.5 Review procurement strategies

Design Enablement and Integration



- 3.1 Develop sustainability and resilience design standards for new capital projects
- 3.2 Create energy efficiency protocols for projects outside the capital planning process

- 3.3 Further integrate climate risk and sustainability reviews across asset lifecycle management and capital project design
- 3.4 Strengthen alignment of the Capital Investment Plan (CIP) with the MBTA's sustainability and resilience goal
- 3.5 Assess opportunities to integrate Buy Clean purchasing principles into procurement

Analysis and Quantification



- 4.1 Complete climate vulnerability assessments
- 4.2 Conduct comprehensive economic analysis of necessary resilience and net-zero investments through 2050 and identification of funding strategies
- 4.3 Evaluate opportunities for renewable energy generation, energy storage and transmission/distribution
- 4.4 Conduct electrification studies for ferry, paratransit and non-revenue service vehicles
- 4.5 Assess and pilot new technologies and reliability advancements

Communication of Risks, Priorities and Needs



- 5.1 Develop an internal communications and education strategy
- 5.2 Participate in regular inter-agency climate coordination meetings
- 5.3 Create an external engagement framework for climate priorities
- 5.4 Develop external communications and public relations strategy around climate impacts and strategic goals

Project Delivery Methods

- Historically Design Bid Build has been the default delivery method.
- Moving forward all projects will be evaluated to determine the most appropriate and beneficial delivery method for each project.
- MBTA has created a Project Delivery Analysis process and Alternative Delivery Review committee.
- Delivery Methods available to MBTA: Design-Bid-Build, Design-Build, and CMAR.

Submitting on MBTA Projects

There is no pre-qualification process for firms to submit on projects at the MBTA.

Any firm may submit their Qualifications in response to a Request for Qualifications.

The top firms will be short-listed to submit a Proposal in response to the Request for Proposal.

Submitting on MBTA Projects

MBTA evaluates Qualifications on the following criteria:

- Proposed Team and Organization
- Key Personnel Qualifications
- Relevant Project Experience (Example Projects)
- Additional Information
- Personnel by Discipline
- General/Overall Evaluation
- Affirmative Action/Employee Profile (Workforce Demographic)/DBE Evaluation

Submitting on MBTA Projects

MBTA evaluates Proposals on the following criteria:

- Relevant Experience
- Project Understanding
- Management Approach
- Technical Approach
- Value – Added Benefit/Sample Reports/Plans

Active Contracts

TYPE	# OF CONTRACTS	CEILING \$	COMMITTED \$
Project Specific Professional Services	54	\$ 790M	\$ 731M
GECs (Operating and Capital)	224	\$ 1.4B	\$ 733M
Grand Total:		\$ 2.2B	\$ 1.52B

Upcoming Projects

We currently have 9 contracts slated to let with more anticipated:

Public Address &
Digital Information
Signage (PADIS)
System
Procurement

Engineering and Project
Management for
Commuter Rail new
Locomotive

E Branch Accessibility
and Infrastructure
Improvements

Systemwide Pump
Room Upgrades Design

Bridge & Structures –
Structural Preservation
Office Engineering &
Program Support

Lynn Station
Modernization

Traction Power
Upgrades for Increased
Capacity

Everett Building 02
Floor Repairs

B Branch Accessibility
Design-Build

Thank you!