



**Massachusetts Bay  
Transportation Authority**

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## **MBTA Commuter Rail North Side Automatic Train Control**

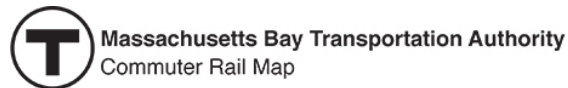
**MBTA Contract No. L60PS01:  
Commuter Rail North Side ATC Design Professional Services**

**June 4, 2018**



## Overview

- Today's board action will provide for design professional consultant services in support of an upcoming Design Build procurement for the installation of Automatic Train Control on the MBTA north side commuter rail lines.





## Automatic Train Control (ATC) Benefits

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- The MBTA has determined that the installation of wayside Automatic Train Control (ATC) systems on its North Side is a critical need which will provide significant benefits:
  - Allow MBTA to operate its Commuter Rail system as a single network, eliminating separate north and south side operations which currently are different
  - Improve train traffic management and realize service and operating efficiencies
  - Enhance Safety
- ATC Systems will be installed on the Fitchburg, Lowell, Haverhill, Wildcat, Newburyport and Rockport Lines
  - South side lines already have ATC installed or are being installed as part of the PTC Program



## Regulatory Schedule and Implementation Approach

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- FRA granted MBTA conditional approval of a variance to the ACSES PTC system that would allow train service on the North Side to continue to operate as it does today after PTC implementation
  - Current North Side PTC solution will create service delays
- The FRA is requiring MBTA to install ATC on the North Side lines by December 31, 2020 as a condition of approval of this variance
  - FRA reserves the right to extend the variance if “circumstances warrant”
- The Commuter Rail North Side ATC Program is included in the FY19 – FY23 Capital Improvement Program (CIP) as part of the Commuter Rail Safety and Resiliency Program
- MBTA will conduct a Design / Build procurement to expedite the implementation of an ATC system on the North Side
  - Requires a Design Professional be engaged by the MBTA



## LTK Design Professional Services

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- LTK has significant design and technical experience supporting the MBTA's PTC Program (which includes the design and installation of ATC on three South Side Lines).
- LTK understands its role on the MBTA Program Team as the Design Professional and will provide a highly qualified, experienced, design team to develop the technical specifications, conduct design reviews and ensure the system is built and implemented as designed.
- The Contract will be structured as a task order based contract. The term is June 2018 through December 2020 with two one year options to extend.



## Request of the Fiscal and Management Control Board

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Staff request that the Fiscal and Management Control Board authorize the General Manager and CEO, or his designee, to award and execute MBTA Contract No. L60PS01: **Design Professional Services for Commuter Rail North Side Automatic Train Control** with LTK Engineering Services for an amount not to exceed \$8,750,000.