

Item 35

Rail Crossing Gate Optimization Demonstration Project

October 2024

NO VEHICLES
ON TRACK
Vehiculos
no permitidos
sobre vías



Metro

About this Demonstration Project

USDOT Strengthening Mobility and Revolutionizing Transportation (SMART) Grant Program

- Award amount: \$2 million
- Project period: 18 months (Jul '24-Jan '26)
- Test wireless crossing gate activation system in shadow mode at five locations along A and E lines
- Metro eligible to apply for Stage Two implementation grant (up to \$15 million)

About this Demonstration Project

Challenge with Current Crossing Gate Activation System

- Hardwired circuits trigger crossing gates at fixed point of activation
- Crossing gates can remain closed for longer than necessary due to current configuration
- In 2019, there were nearly 3,000 instances of gate downtimes greater than five minutes on light rail system

About this Demonstration Project

Potential Benefits:

- Optimize crossing gate downtimes
- Reduce delays for all travelers
- Greenhouse gas emissions reductions
- Streamline communication with traffic signals, increasing efficiency and reliability of light rail system (in the long-term)

Staff Recommendation

AUTHORIZE Chief Executive Officer to:

- A. PROGRAM \$2,000,000 of the Strengthening Mobility and Revolutionizing Transportation (SMART) Grant Program award for the Rail Crossing Gate Optimization Demonstration Project, and
- B. EXECUTE agreements and any contracts within the Board Approved project cost for the Rail Crossing Gate Optimization Demonstration Project.