FILE NO. 106-2023-A

CITY PLANNING COMMISSION
Legislative Summary

2022 Strengthening Mobility and Revolutionizing Transportation (SMART) Grant:

DEPARTMENT: City Planning Commission

ORD. NO.: 106-2023

PURPOSE: The purpose of the City's Strengthening Mobility and Revolutionizing Transportation (SMART) grant application is to design and prototype an intelligent, cloud-based adaptive traffic signal system that provides next-generation transit and emergency vehicle priority based on cellular-based AVL technology and incorporates optical sensor-based bicycle and pedestrian detection and near-crash identification.

PROJECT DESCRIPTION: In partnership with the Greater Cleveland Regional Transit Authority and Cleveland State University, the City's SMART grant proposal for a Cleveland Complete Corridor Project proposes design and prototyping of an intelligent, cloud-based adaptive traffic signal system to eliminate the need for expensive specialty detection hardware on vehicles, facilitate dynamic signal phasing to benefit multimodal users and increase safety, and provide performance metrics. The project will create generic smart signal specifications that can be installed throughout the city and in other jurisdictions to increase mobility equity through improved multimodal safety and efficient, reliable transit.

The Director of City Planning is authorized to apply for and accept the 2022 Strengthening Mobility and Revolutionizing Transportation (SMART) grant from the U.S. Department of Transportation. The Director of City Planning is authorized to enter into professional services contracts to hire consultants to design, prototype, and evaluate an intelligent, cloud-based adaptive traffic signal system that provides next-generation transit and emergency vehicle priority based on cellular-based AVL technology and incorporates optical sensor-based bicycle and pedestrian detection and near-crash identification. The City Planning Director, or authorized director, may enter into purchase contracts for the necessary items of materials, equipment, supplies, and services needed to test and install upgrades and integrate reconfigurations to existing traffic systems, including installation, if needed, and for hardware and other related equipment needed to implement the grant.

CONTRACT TERM: All contracts and agreements will be for a term of two years

GRANT AMOUNT: $1,820,500 (no local match)