


COUNCIL COMMUNICATION

 CITY OF DES MOINES OFFICE OF THE CITY MANAGER	Number:	24-367	Meeting:	September 16, 2024
	Agenda Item:	8	Roll Call:	24-1216
	Submitted by:	Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Ratifying and Approving submission of the Iowa Clean Air Attainment Program (ICAAP) Funding Application to the Iowa Department of Transportation (IDOT) for the SE 14th Street (US 69) Corridor Adaptive Signal Control.

SYNOPSIS:

Recommend ratification and approval of an application to the IDOT for ICAAP funding for the SE 14th Street (US 69) Corridor Adaptive Signal Control. The goal of the ICAAP is to reduce congestion and thereby improve air quality.

FISCAL IMPACT:

Amount: Estimated \$2,594,000. ICAAP Funds in the amount of \$2,075,000 are being requested for this project.

Funding Source:

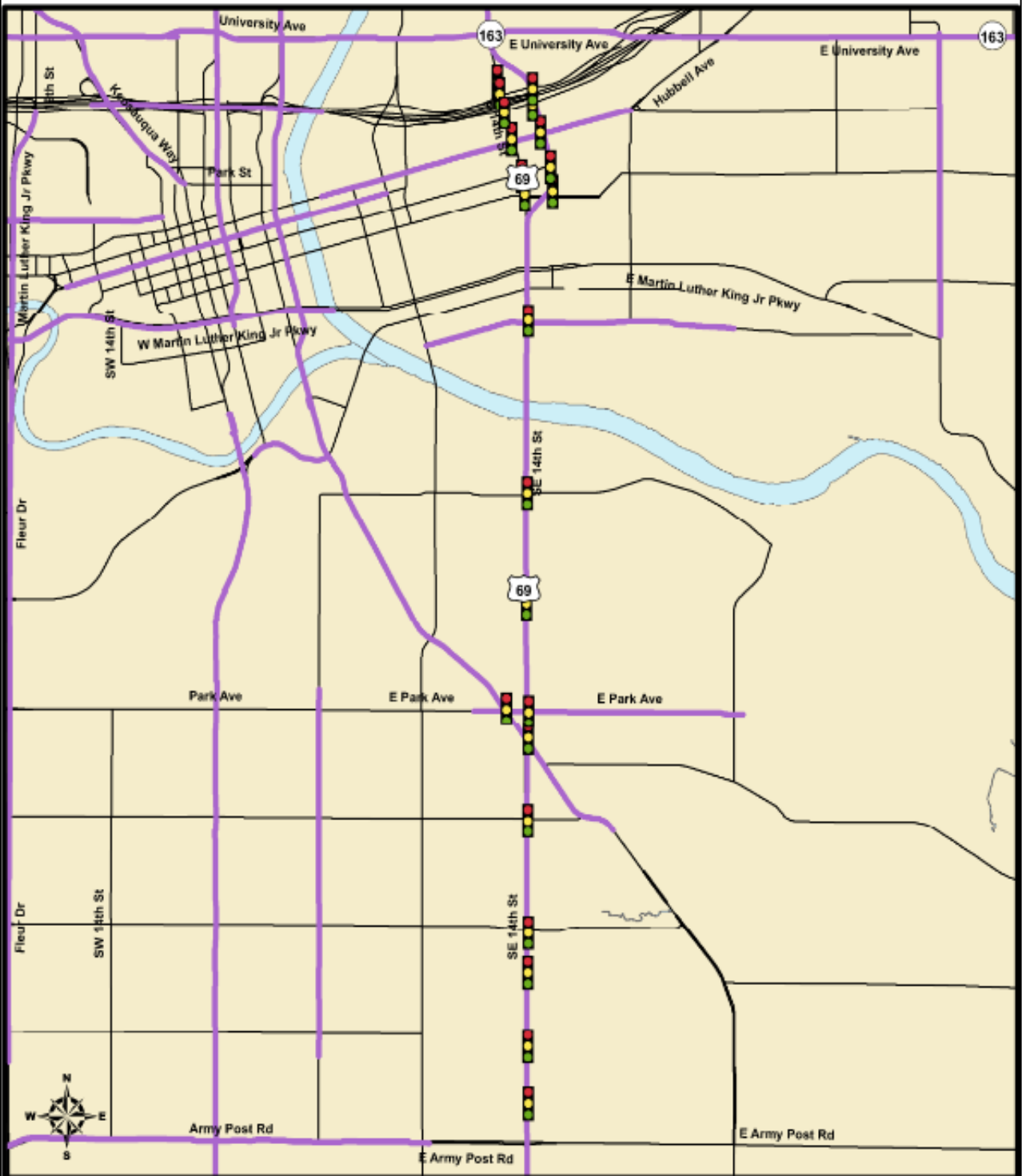
- \$2,075,000 – ICAAP Fund Request
- \$518,800 (remaining amount pending funding awarded) – Fiscal Year (FY) 2024-2025 Capital Improvement Program (CIP), Page 163, Traffic System Operation Improvements, TR097, G.O. Bonds

ADDITIONAL INFORMATION:





- The Federal Highway Administration (FHWA) established a Congestion Mitigation and Air Quality Improvement (CMAQ) program that directs Federal transportation funds for projects to reduce congestion and pollution. IDOT has established an ICAAP, including guidelines on how to prioritize the disbursement of these funds, which provides approximately \$4 million annually statewide. The program is implemented through a statewide competitive application process that evaluates each proposed project based on reducing congestion and pollution to help maintain the clean air quality that Iowa now enjoys.
- The types of projects that are eligible for this funding include traffic flow improvements, shared-ride services, transit improvements, pedestrian and bicycle programs, among others.

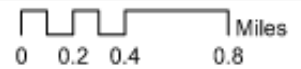
- IDOT requires a resolution from the Des Moines Area Metropolitan Planning Organization (MPO) that the funding application conforms to the MPO's long range transportation plan and congestion management process. City staff submitted a pre-application to the MPO on August 2, 2024, and received a signed resolution and approval from the MPO to submit the application for this project. The deadline for this year's project funding applications is October 1, 2024.
- IDOT completed a corridor study, the US 69 from County Line Road to I-80 Location Study, in December 2021. In addition to many other infrastructure improvements, the study recommended adaptive traffic signal control be installed along the E 14th/SE 14th Street (US 69) corridor from University Avenue to Army Post Road to improve traffic operations and corridor reliability for peak and non-peak times.
- The City of Des Moines' Intelligent Transportation Systems (ITS) Master Plan, adopted at the November 19, 2018 City Council meeting, provided a framework for future traffic management and communication system infrastructure in the City of Des Moines. As part of that plan, adaptive traffic signal control on SE 14th Street (US 69) was also recommended.
- The SE 14th Street (US 69) Corridor Adaptive Signal Control project will enhance existing loop detection with video/radar detection, install pushbuttons for all pedestrian movements, update pedestrian signal heads, update pedestrian ramps to current standards, and install an adaptive traffic signal control along the corridor. The goal of the project is to promote efficient flow of traffic along the corridor during regular travel conditions and non-recurring congestion caused by unexpected or non-typical events. Installing the adaptive traffic signal control project will stabilize traffic flow and minimize queuing thereby reducing congestion and the amount of vehicle emissions along the corridor. The pedestrian improvements will encourage walking, potentially removing vehicles from the road and adding to the air quality benefit. The estimated project cost is \$2,594,000, with \$2,075,000 of ICAAP funding being requested.
- SE 14th Street (US 69) is identified as part of the MPO's Congestion Management Process road network, and this project is consistent with MPO's long-range master plan.
- The map below shows the SE 14th Street (US 69) Corridor Adaptive Signal Control project limits. The project includes E 14th Street and E 15th Street from Walker Street to E Court Avenue (one [1]-way pair section) as well as SE 14th Street from E Court Avenue to Cummins Road. This project will be incorporated into the Phase 6 design and construction of the ITS Master Plan.

ICAAP: SE 14th St (US 69) Corridor Adaptive Signal Control



Legend

-  ICAAP Intersections
-  High Injury Network
-  Streets
-  Des Moines City Limits



PREVIOUS COUNCIL ACTION(S): NONE

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

If approved by the IDOT for funding, project agreements would be presented to City Council for consideration.

City staff anticipate actions related to construction, including ordering construction. Additional maintenance costs are expected to maintain adaptive traffic control in the future.

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