


COUNCIL COMMUNICATION

	Number:	19-226	Meeting:	May 20, 2019
	Agenda Item:	9	Roll Call:	[_____]
	Submitted by:	Steven L. Naber, P.E., City Engineer		

AGENDA HEADING:

Approving and authorizing the execution of the Iowa Department of Transportation (IDOT) Agreements for the Traffic Signal System Timings Update – Phase II and Phase III.

SYNOPSIS:

Recommend approval of IDOT Agreement No. 2017-ICAAP-09 for \$136,000 in Iowa Clean Air Attainment Program (ICAAP) funding for the Traffic Signal System Timings Update – Phase II and IDOT Agreement No. 2018-ICAAP-SWAP-02 for \$160,000 in ICAAP Federal-aid Swap funding for the Traffic Signal System Timings Update – Phase III. The goal of the project is to increase efficiency of the traffic signal systems resulting in decreased travel times, reductions in traffic congestion, and ultimately the reduction of vehicle emissions.

FISCAL IMPACT:

Amount: \$370,000

Funding Source: Various funding sources as follows:

- \$136,000 Iowa Clean Air Attainment Program Funds
- \$160,000 Iowa Clean Air Attainment Program Federal-aid Swap Funds
- \$74,000 2019-2020 CIP, Page Street Improvements-40, Traffic Signals - Replacement, TR091, G.O. Bonds

ADDITIONAL INFORMATION:

- This project will be the second and third phases of a multi-phase effort to review and update the signal timing and phasing of the traffic signal systems in Des Moines. The goal of the project is to increase efficiency of the traffic signal systems resulting in decreased travel times, reductions in traffic congestion, and ultimately the reduction of vehicle emissions. The project will also consider signal timing and phasing for pedestrian and bicycle traffic in support of the City's efforts to provide a more walkable and bikeable transportation network. The first phase of the signal timing effort (partially funded by FY2017 ICAAP funds) is currently underway.

- Phase II of the project includes 81 signalized intersections that generally include the following major corridors in Des Moines:
 - Park Avenue from 63rd Street to Fleur Drive
 - Grand Avenue from 56th Street to Martin Luther King Jr Parkway
 - University Avenue from 63rd Street to Martin Luther King Jr Parkway
 - Hickman Road – 63rd Street to Martin Luther King Jr Parkway
 - Douglas Avenue – 63rd Street to Martin Luther King Jr Parkway
 - Merle Hay Road – Hickman Road to I-80/I-35
 - 42nd Street – Grand Avenue to University Avenue

- Phase III of the project includes 71 signalized intersections that generally include the following major corridors in Des Moines:
 - Hubbell Avenue from East 18th Street to East Broadway Avenue
 - East Euclid Avenue from East 14th Street to Hubbell Avenue
 - East University Avenue from I-235 to Williams Street
 - East 30th Street from Dean Avenue to East University Avenue
 - Guthrie Avenue from East 14th Street to Hubbell Avenue

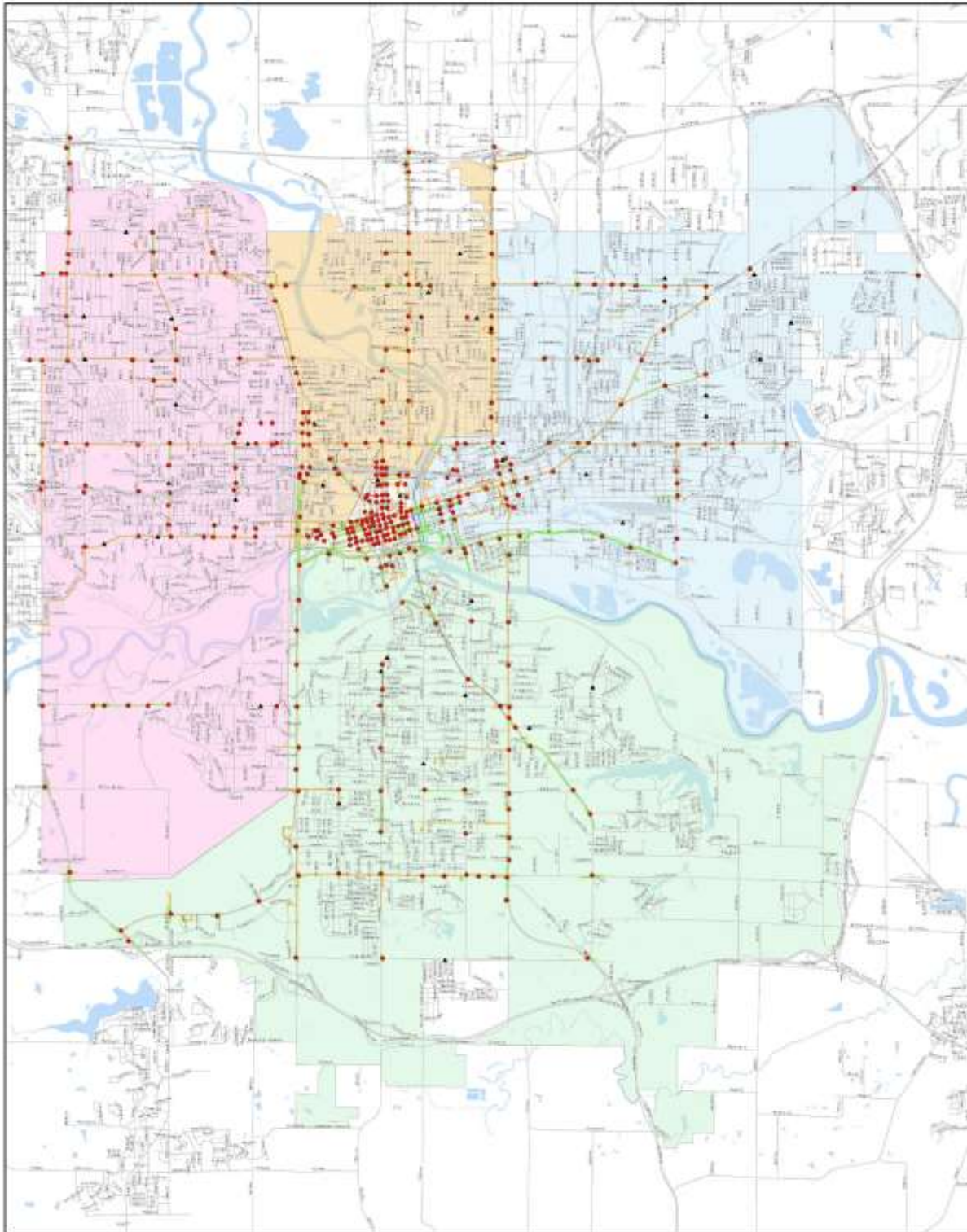
- The majority of the traffic signals in Des Moines are already interconnected and include communication to a central software system. The central software system will be used to help implement the new traffic signal timing and coordination plans as developed through this project.

Exhibit B

Des Moines Traffic Signal Timing Update Program Group Map

Date Revised: August 25, 2015

0 0.5 1 Miles



Legend

- Zone 1 Timing
- Zone 2 Timing
- Zone 3 Timing
- Zone 4 Timing
- Zone 5 Timing

Legend

- Traffic Intersection Control Type
 - ▲ Fixed Meter Timing Control
 - Intersection Control
 - Intersection Control
 - ▲ Metered Intersection
 - ▲ Metered Intersection
 - ▲ Metered Intersection
- Signal, CIRCULTE
- Signal
- City Office Address
- City Office Address
- City
- City
- City
- City
- City
- City



Prepared by the City of Des Moines Engineering Department - Traffic & Transportation Division.

PREVIOUS COUNCIL ACTION(S):

Date: September 25, 2017

Roll Call Number: [17-1632](#)

Action: [Authorizing](#) the City Manager to submit an Iowa Clean Air Attainment Program (ICAAP) Funding Application to the Des Moines Area Metropolitan Planning Organization (MPO) for Iowa Department of Transportation (IDOT) Funding of Traffic Signal System Timing Updates – Phase 3. ([Council Communication No. 17-696](#)) Moved by Hensley to adopt. Motion Carried 6-1. Absent: Cownie.

BOARD/COMMISSION ACTION(S): NONE

ANTICIPATED ACTIONS AND FUTURE COMMITMENTS:

Approval of Consultant Agreement.

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