

**DEPARTMENT OF TRANSPORTATION
COMMISSION ORDER**

Division/Bureau/Office Transportation Development Division
Systems Planning Bureau Order No. _____
 Submitted by Debra Arp Phone No. 515-239-1681 Meeting Date January 9, 2024
 Title Iowa's Clean Air Attainment Program Funding Recommendations

DISCUSSION/BACKGROUND:

Review of the current round of applications for funding from Iowa's Clean Air Attainment Program has been completed. The following funding recommendations will be presented.

North Ankeny Boulevard/U.S. 69 Improvements from 1st Street to 11th Street (Ankeny)	\$1,662,000
Smart Traffic Routing with Efficient and Effective Traffic Signals (STREETS) Phase 2 (Dubuque)	\$1,100,000
Traffic Signal System Improvements (Polk County)	\$ 506,000
Traffic System Vehicle Detection Improvement Phase 3 (West Des Moines)	\$ 732,000
 Total	 \$4,000,000

PROPOSAL/ACTION RECOMMENDATION:

It is recommended the Commission approve Iowa's Clean Air Attainment Program funding recommendations as listed.

COMMISSION ACTION:

Moved by _____ Seconded by _____

	Aye	Vote Nay	Pass
Arnold	_____	_____	_____
Fehrman	_____	_____	_____
Gaesser	_____	_____	_____
Juckette	_____	_____	_____
Rielly	_____	_____	_____
Stutsman	_____	_____	_____
Yanney	_____	_____	_____

Division Director Legal State Director



Iowa's Clean Air Attainment Program
Funding Recommendation



Iowa's Clean Air Attainment Program

- Iowa's Clean Air Attainment Program (ICAAP) was created in 1994.
- Modeled after the federal Congestion Mitigation and Air Quality Improvement Program established in 1991.
- Available to cities, counties, public transit agencies, MPOs, RPAs, and state agencies. Private non-profit or for-profit entities when co-sponsored by an eligible public agency through an annual application program.
- Purpose is to award funds to projects with the highest potential for reducing transportation-related congestion and air pollution.

Project Evaluation Criteria

- **Vehicle traffic flow improvements (25 points)**
- **Vehicle miles of travel (VMT) or single-occupant vehicle (SOV) reduction (25 points)**
- **Estimated vehicle emission reduction (20 points)**
- **Degree of transportation-related air pollution or traffic congestion (15 points)**
- **Project cost effectiveness relative to air quality benefits (30 points)**

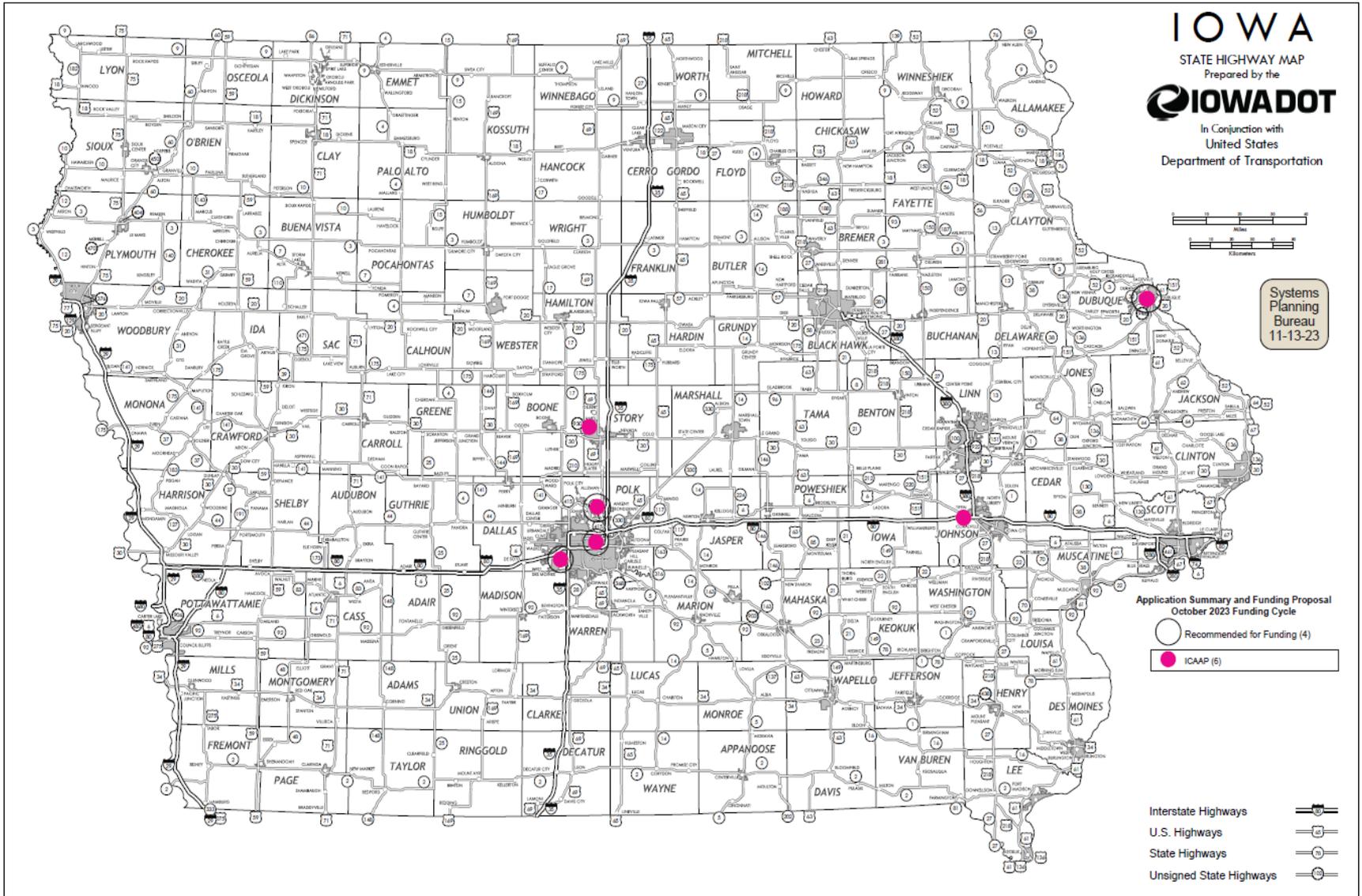
Available Funding and Application Summary

- **Available Funding:**
 - Iowa's Clean Air Attainment Program funds available: \$4,000,000
- **Application Summary:**
 - Total number of projects: 6
 - Total project costs: \$20,130,600
 - Total amount requested: \$6,617,560

List of Applications Recommended

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
<u>Traffic System Vehicle Detection Improvement Project Phase 3</u>	West Des Moines	85	\$915,000	\$732,000 (80%)	\$732,000 (80%)
<u>Traffic Signal System Improvements</u>	Polk County	71	\$632,500	\$506,000 (80%)	\$506,000 (80%)
<u>Smart Traffic Routing with Efficient and Effective Traffic Signals (STREETS) Phase 2</u>	Dubuque	61	\$2,323,500	\$1,100,000 (47%)	\$1,100,000 (47%)
<u>North Ankeny Boulevard/U.S. 69 Improvements from 1st Street to 11th Street</u>	Ankeny	49	\$6,186,150	\$1,900,000 (31%)	\$1,662,000 (27%)

Map of Applications Received



Estimated Annual Benefits of Recommended Projects

- Reduction of Vehicle Hours of Travel: 734,442
- Reduction of Vehicle Miles of Travel: 5,488,098
- Improved Air Quality
 - Reduced CO, VOCs, & NOx Emissions: 351,877 lbs.



QUESTIONS?

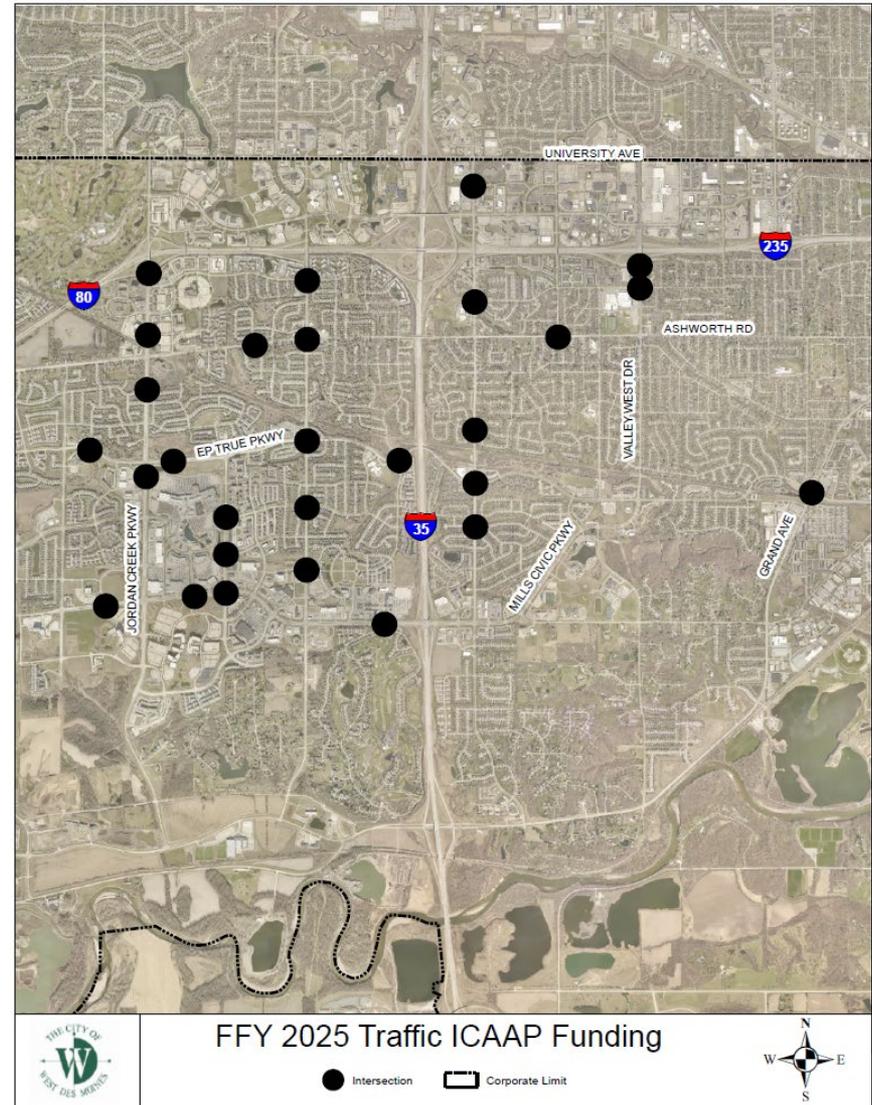


Jared Smith
Iowa's Clean Air Attainment Program Manager
Jared.Smith@iowadot.us

Traffic System Vehicle Detector Improvement Project Phase 3 (West Des Moines)

This project will replace existing vehicle detection methods, such as in-pavement loops, with state-of-the-art single point video detection at 30 intersections.

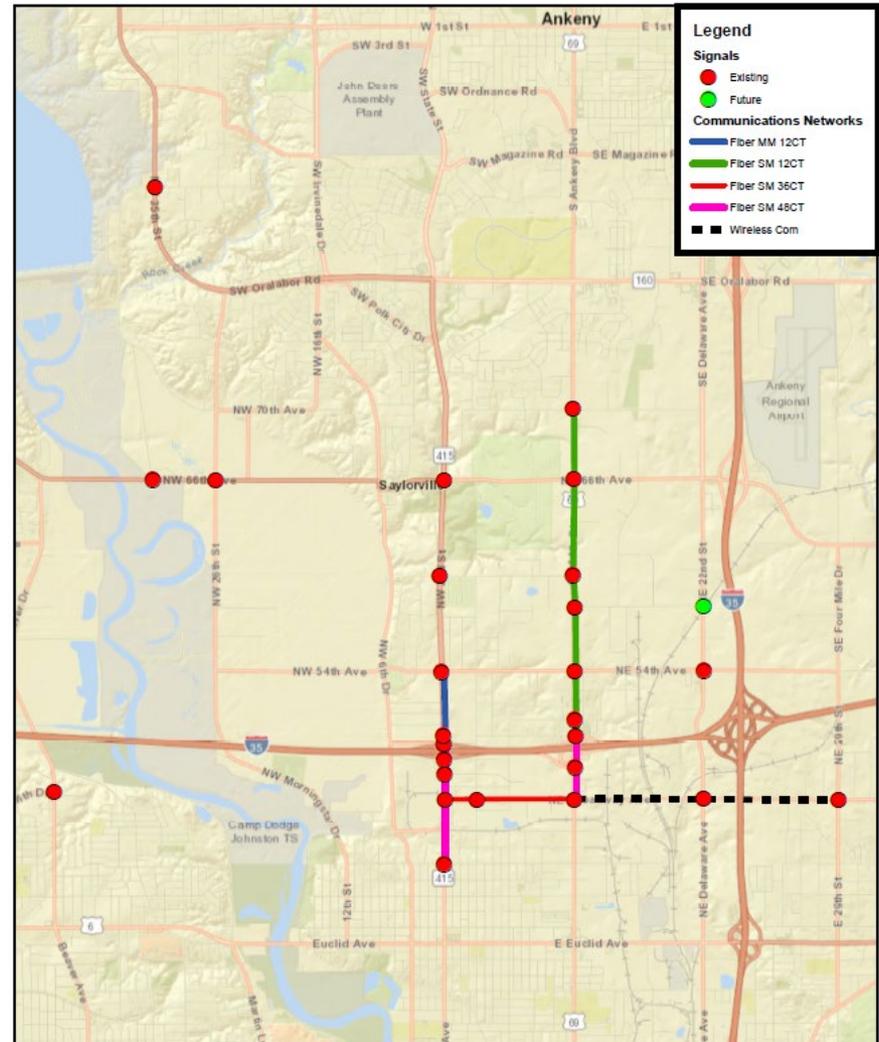
Total Cost: \$915,000
Requested: \$732,000 (80%)



Traffic Signal System Improvements (Polk County)

Signal system improvements will include ATMS management and control software, fiber optic connection to the Public Works facility, wireless communications, controller upgrades, flashing yellow arrow signal head upgrades, battery back-up systems, and traffic monitoring cameras.

Total Cost: \$632,500
Requested: \$506,000 (80%)



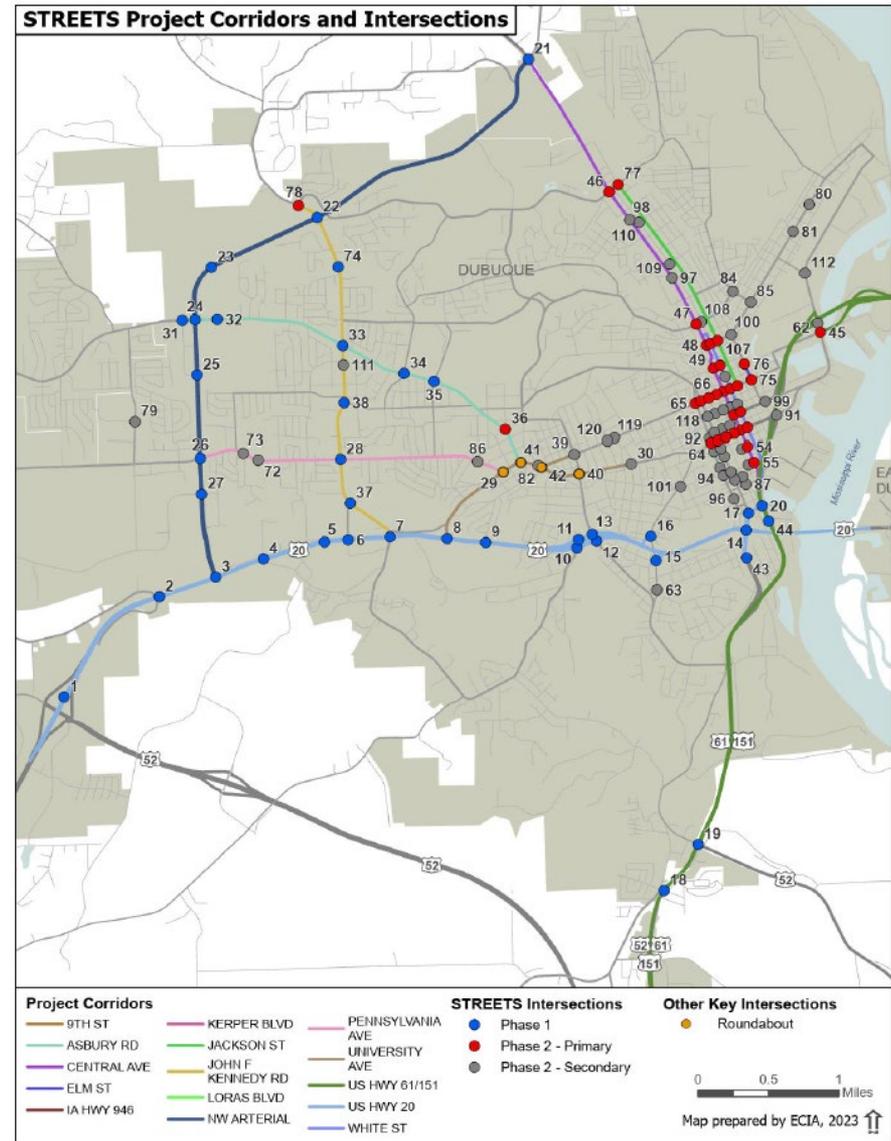
Sec. B: Signalized Intersections & Network Map

ICAAP Application Polk County 2023

Smart Traffic Routing with Efficient and Effective Traffic Signals (STREETS) Phase 2 (Dubuque)

Utilize advanced traffic control strategies to create an adaptive traffic control system. Project will procure and install adaptive traffic signal equipment and ITS infrastructure at 78 intersections.

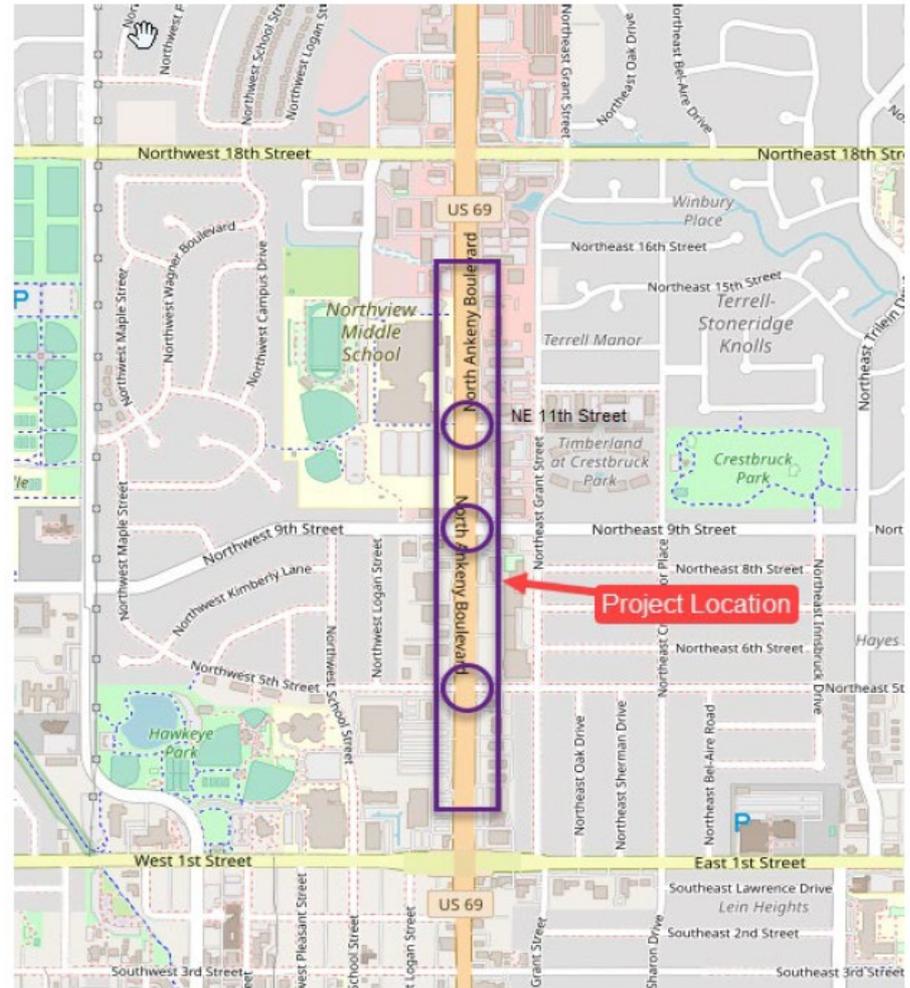
Total Cost: \$2,323,500
Requested: \$1,100,000 (47%)



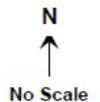
North Ankeny Boulevard/U.S. 69 Improvements from 1st Street to 11th Street (Ankeny)

This project will construct new right-turn lanes at 5th Street, 9th Street, and 11th Street, replace traffic signals and pushbuttons, pedestrian upgrades, median modifications and other improvements.

Total Cost: \$6,186,150
Requested: \$1,900,000 (31%)
Recommended: \$1,662,000 (27%)



Location Map
North Ankeny Boulevard Improvements
Ankeny, Iowa



List of Applications Not Recommended for Award

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
Traffic Signal Master Plan Deployment Phase 5	Ames	47	\$2,349,450	\$1,879,560 (80%)	\$0
North Park Road Improvements	Tiffin	29	\$7,724,000	\$500,000 (6%)	\$0