

**DEPARTMENT OF TRANSPORTATION
COMMISSION ORDER**

Division/Bureau/Office Planning, Programming and Modal Division
Office of Systems Planning Order No. _____
 Submitted by Debra Arp Phone No. 515-239-1681 Meeting Date January 9, 2018
 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.

| | |
|--|-----------------|
| #9 Plum Weekday Route Expansion (Ames Transit Agency) | \$ 212,980 |
| Ashworth Road Adaptive Traffic Signal Control System (West Des Moines) | \$ 263,200 |
| Euclid/Douglas Avenue Crosstown Service (Des Moines Area Regional Transit Authority) | \$ 304,585 |
| South Grand Avenue Extension (Ames) | \$1,800,000 |
| Traffic Signal System Timings Update (Indianola) | \$ 121,600 |
| Traffic Signal System Timings Update - Phase 3 (Des Moines) | \$ 160,000 |
| U.S. Highway 6 & NW 128th Street Intersection Improvements (Clive and Urbandale) | \$1,137,635 |
| 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: | | | Vote |
| | | | Nay |
| | | | Pass |
| | | Fehrman | _____ |
| | | Huber | _____ |
| | | Maher | _____ |
| Moved by _____ | Seconded by _____ | Putney | _____ |
| | | Rielly | _____ |
| | | Rose | _____ |
| | | Yanney | _____ |
| _____ Division Director | _____ Legal | _____ State Director | |

IOWA'S CLEAN AIR ATTAINMENT PROGRAM (ICAAP)

Application Summary and Funding Proposal

October 2017 FUNDING CYCLE

October 2017 Funding Summary

Available Funding

Iowa's Clean Air Attainment Program funds available: \$4,000,000

Application Summary

Total number of projects: 14

Total project costs: \$28,530,516

Total amount requested: \$11,005,671

Recommendation Summary

Total amount awarded: \$4,000,000

Funding Proposal

Staff recommends the following projects be approved for ICAAP funding:

| No. | Project Name | <u>Grant</u> | <u>Cumulative</u> |
|-----|---|--------------|-------------------|
| 1. | #9 Plum Weekday Route Expansion (Ames Transit Agency) | \$ 212,980 | \$ 212,980 |
| 2. | Ashworth Road Adaptive Traffic Signal Control System (West Des Moines) | \$ 263,200 | \$ 476,180 |
| 3. | Euclid/Douglas Avenue Crosstown Service (Des Moines Area Regional Transit Authority) | \$ 304,585 | \$ 780,765 |
| 4. | South Grand Avenue Extension (Ames) | \$1,800,000 | \$ 2,580,765 |
| 5. | Traffic Signal System Timings Update (Indianola) | \$ 121,600 | \$ 2,702,365 |
| 6. | Traffic Signal System Timings Update - Phase 3 (Des Moines) | \$ 160,000 | \$ 2,862,365 |
| 7. | U.S. Highway 6 & NW 128th Street Intersection Improvements (Clive and Urbandale) | \$1,137,635 | \$ 4,000,000 |
| 8. | Ansborough Avenue South Adaptive Signal Control Technology (ASCT) (Waterloo) | | |
| 9. | Broadway Street Fiber Installation and Adaptive Traffic Signalization Conversion (Waterloo) | | |
| 10. | Cedar Rapids Downtown Wayfinding System (Cedar Rapids) | | |
| 11. | Repower Newt Marine Towboat with new EPA Certified Engines (Newt Marine Services and Dubuque) | | |
| 12. | Route 4 Extension to the Iowa DOT Ankeny Driver's License Station (Des Moines Area Regional Transit Authority) | | |
| 13. | Smart Traffic Routing with Efficient and Effective Traffic Signals (STREETs) (Dubuque and East Central Intergovernmental Association) | | |
| 14. | University Avenue Multi-Purpose Transportation Improvement Project (Windsor Heights) | | |

1. Project Name: #9 Plum Weekday Route Expansion

Sponsor: Ames Transit Agency
Contact: Sheri Kyras, Transit Director
601 N. University Blvd.
Ames, IA 50010

Description: CyRide proposes to expand its service along South 16th Street by adding a new bus route - #9 Plum. This route will provide 20-minute service between South 16th Street and the Iowa State University campus with two buses. This request marks the third and final year of ICAAP funding request for this service expansion.

Total Cost: \$266,225
Requested Amount: \$212,980 (80%)

2. Project Name: Ashworth Road Adaptive Traffic Signal Control System

Sponsor: City of West Des Moines
Contact: Jim Dickinson, PE, Principal Traffic Engineer
560 South 16th Street
West Des Moines, IA 50265

Description: The purchase and installation of adaptive traffic signal control systems equipment for seven intersections along Ashworth Road from 19th Street to 72nd Street (approximately 3.9 miles).

Total Cost: \$329,000
Requested Amount: \$263,200 (80%)

3. Project Name: Euclid/Douglas Avenue Crosstown Service

Sponsor: Des Moines Area Regional Transit Authority (DART)
Contact: Debra Meyer, Financial Analyst
620 Cherry Street
Des Moines, IA 50309

Description: DART plans to implement a new hourly, all-day crosstown service that will travel along Euclid/Douglas Avenue from East 42nd Street to Merle Hay Road. The crosstown service is expected to reduce travel times along the corridor and improve the connectivity of the transit system as a whole, encouraging over 183,000 in new ridership.

Total Cost: \$380,731
Requested Amount: \$304,585 (80%)

4. Project Name: South Grand Avenue Extension

Sponsor: City of Ames
Contact: Tracy Warner, Municipal Engineer
515 Clark Avenue
Ames, IA 50010

Description: The proposed project involves constructing South Grand Avenue from South 5th Street to just north of South 16th Street, including construction of a 10-foot wide shared use path on the westside and a 5-foot wide sidewalk on the eastside of the roadway.

Total Cost: \$12,500,000
Requested Amount: \$ 1,800,000 (14%)

5. Project Name: Traffic Signal System Timings Update

Sponsor: City of Indianola
Contact: Kelly Shaw, Mayor of Indianola
110 N. 1st Street
Indianola, IA 50125

Description: The project includes the comprehensive review and updating of traffic signal timings including coordination timings of traffic signals along U.S. 65/69 from Willowcrest Avenue to Iowa 92 and on Iowa 92 from South Buxton Street to South 15th Street. The project will also include fiber optic repair, vehicle detection replacement, and traffic signal cabinet and controller upgrades.

Total Cost: \$152,000
Requested Amount: \$121,600 (80%)

6. Project Name: Traffic Signal System Timings Update - Phase 3

Sponsor: City of Des Moines
Contact: Calvin Miller, Civil Engineer 1
400 Robert D Ray Drive
Des Moines, IA 50309

Description: Review and update basic signal timing and coordination phasing plans of the traffic signal systems in Des Moines. This project is the third phase of a multi-phase project and includes 71 signalized intersections along five major corridors. SYNCHRO traffic models will be used to help optimize signal cycle lengths, basic timing plans, split times, offsets, and time of day periods for coordination plans.

Total Cost: \$200,000
Requested Amount: \$160,000 (80%)

7. Project Name: U.S. Highway 6 & NW 128th Street Intersection Improvements

Sponsor: City of Clive
Contact: Jeff May, Public Works Director
2123 NW 111th Street
Clive, IA 50325

Description: This project includes widening both U.S. Highway 6 and NW 128th Street at the intersection to include three through lanes along U.S. Highway 6 and dual left-turn lanes and single right-turn lanes on all four approaches. The project will also include replacement of the traffic signal and a review for potential inclusion of pedestrian/bicycle facilities. Improvements to the east will be coordinated with proposed U.S. Highway 6 and I-35/80 interchange reconstruction.

Total Cost: \$2,900,000
Requested Amount: \$1,500,000 (52%)
Awarded Amount: \$1,137,635 (39%)

8. Project Name: Ansborough Avenue South Adaptive Signal Control Technology (ASCT)

Sponsor: City of Waterloo
Contact: Mohammad Elahi
625 Glenwood Street
Waterloo, IA 50613

Description: The proposed project involves replacing the 1980's closed loop traffic control system with an ASCT system, including upgrading the interconnect from copper wiring to fiber optics. This traffic control system includes seven intersections from Ridgeway Avenue to Downing Street (approximately 1.7 miles).

Total Cost: \$491,250
Requested Amount: \$393,000 (80%)

9. **Project Name:** **Broadway Street Fiber Installation and Adaptive Traffic Signalization Conversion**
- Sponsor:** City of Waterloo
Contact: Mohammad Elahi
625 Glenwood Street
Waterloo, IA 50613
- Description:** The project will include the addition of traffic adaptive software and hardware, upgrades to the existing detection system, if necessary, installation of fiber interconnect, and the development of updated signal timing plans on Broadway Street from Airport Boulevard to Park Road (about 3.6 miles and 10 signalized intersections).
- Total Cost:** \$1,134,162
Requested Amount: \$ 907,330 (80%)
10. **Project Name:** **Cedar Rapids Downtown Wayfinding System**
- Sponsor:** City of Cedar Rapids
Contact: Matt Myers, City Traffic Engineer
500 15th Avenue SW
Cedar Rapids, IA 52404
- Description:** Develop a unified wayfinding and signage program to promote and connect the wayfinding districts of Downtown, MedQuarter, Czech Village, New Bohemia, and the neighborhood of Kingston Village. The system will be scalable to incorporate additional future districts and areas beyond the initial downtown as a separate project in the future.
- Total Cost:** \$935,000
Requested Amount: \$748,000 (80%)

- 11. Project Name:** Repower Newt Marine Towboat with new EPA Certified Engines
- Sponsor:** City of Dubuque
Contact: Teri Goodman
50 West 13th Street
Dubuque, IA 52001
- Sponsor:** Newt Marine Services
Contact: Jared Gevock
5 Jones Street
Dubuque, IA 52001
- Description:** Reduce diesel exhaust emissions by replacing unregulated diesel engines with new EPA Tier 3 engines on a 1300 hp Marine vessel operating in the Dubuque Metro Area.
- Total Cost:** \$807,651
Requested Amount: \$495,978 (61%)
- 12. Project Name:** Route 4 Extension to the Iowa DOT Ankeny Driver's License Station
- Sponsor:** Des Moines Area Regional Transit Authority (DART)
Contact: Debra Meyer, Financial Analyst
620 Cherry Street
Des Moines, IA 50309
- Description:** DART proposes to extend local Route #4 - East 14th north to the Iowa DOT Ankeny Driver's License Station in southeast Ankeny, which is currently inaccessible via existing transit service.
- Total Cost:** \$310,497
Requested Amount: \$248,398 (80%)

13. Project Name: Smart Traffic Routing with Efficient and Effective Traffic Signals (STREETS)

Sponsor: City of Dubuque
Contact: Dave Ness, Traffic Engineer
50 W. 13th Street
Dubuque, IA 52001

Description: This project includes creating an Adaptive Traffic Control System (ATCS), installation of equipment at intersections and connecting to ATCS (57 intersections), connecting ATCS to Micosimulation model, updating public with information from ATCS and testing the system. This project will help to reduce delay on 10 corridors within the metro area and help to improve traffic flow through the metro area during peak hour.

Total Cost: \$2,724,000
Requested Amount: \$1,181,600 (43%)

14. Project Name: University Avenue Multi-Purpose Transportation Improvement Project

Sponsor: City of Windsor Heights
Contact: Elizabeth A. Hansen
1145 66th Street, Suite 1
Windsor Heights, IA 50324

Description: The proposed improvement consists of complete streets design concepts that will include reducing vehicle travel lanes, creating a continuous left turn lane, adding bicycle lanes, and improving intersections on University Avenue from 63rd Street to 73rd Street.

Total Cost: \$5,400,000
Requested Amount: \$2,669,000 (49%)