

**DEPARTMENT OF TRANSPORTATION  
COMMISSION ORDER**

Division/Bureau/Office Planning, Programming and Modal Division  
Systems Planning Bureau Order No. \_\_\_\_\_  
 Submitted by Craig Markley Phone No. 515-239-1027 Meeting Date January 12, 2022  
 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.

#6 Brown, Night Service – Year 3 (Ames Transit Agency)	\$ 28,258
#11 Cherry, Add Night Service – Year 3 (Ames Transit Agency)	\$ 31,609
#12 Lilac, Midday Service – Year 3 (Ames Transit Agency)	\$ 29,830
Traffic Signal Vehicle Detector Improvement Project (West Des Moines)	\$ 480,000
Merle Hay Road Corridor Traffic Signal Improvements (Johnston)	\$ 621,470
Middle Road and Forest Grove Drive (Bettendorf)	\$ 112,392
Route 17 Extension to Bondurant - Year 2 (Des Moines Area Regional Transit Authority)	\$ 52,392
Traffic Signal Communication Network – Phase 3 (Ames)	\$1,495,280
Iowa 160/SW Oralabor Road and Iowa 415/SW State Street Intersection Improvements (Ankeny)	\$ 529,161
Traffic Signal System Timing Update – Phase 5 (Des Moines)	\$ 232,000
<b>Total</b>	<b>\$4,000,000</b>

**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	_____	_____	_____
Juckette	_____	_____	_____
Maher	_____	_____	_____
Putney	_____	_____	_____
Rielly	_____	_____	_____
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: 13
  - Total project costs: \$41,233,027
  - Total amount requested: \$7,370,839

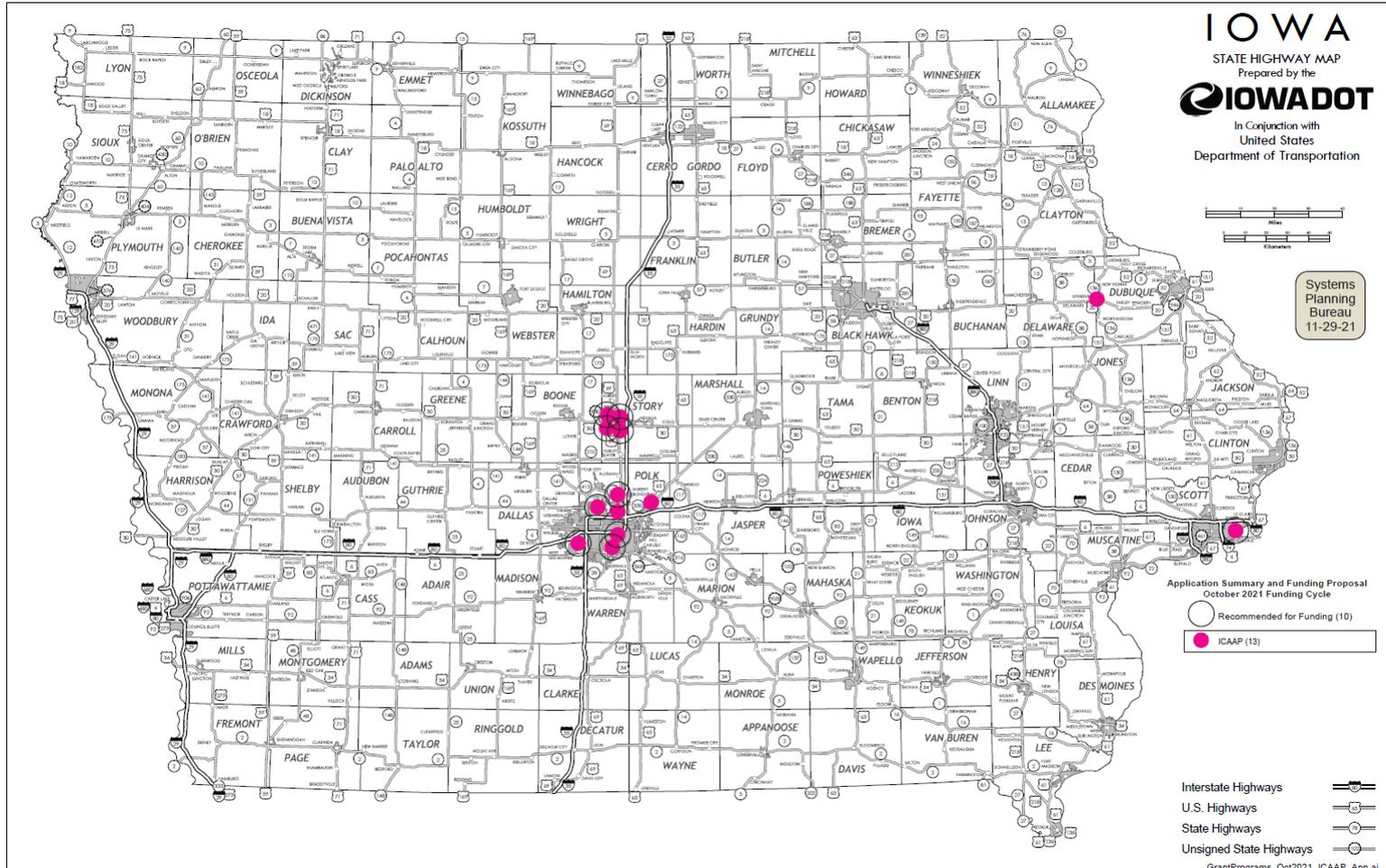
# List of Applications Recommended

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
<a href="#"><u>Traffic Signal Communication Network - Phase 3</u></a>	Ames	77	\$1,869,100	\$1,495,280 (80%)	\$1,495,280 (80%)
<a href="#"><u>Traffic Signal Vehicle Detector Improvement Project</u></a>	West Des Moines	72	\$600,000	\$480,000 (80%)	\$480,000 (80%)
<a href="#"><u>#11 Cherry - Night</u></a>	Ames Transit Agency	69	\$39,512	\$31,609 (80%)	\$31,609 (80%)
<a href="#"><u>Traffic Signal System Timing Update – Phase 5</u></a>	Des Moines	69	\$290,000	\$232,000 (80%)	\$232,000 (80%)
<a href="#"><u>#12 Lilac - Mid-Day</u></a>	Ames Transit Agency	68	\$37,287	\$29,830 (80%)	\$29,830 (80%)
<a href="#"><u>#6 Brown - Night</u></a>	Ames Transit Agency	68	\$35,323	\$28,258 (80%)	\$28,258 (80%)

# List of Applications Recommended

PROJECT NAME	SPONSOR	SCORE	TOTAL PROJECT COST	REQUESTED AMOUNT (% of Total Project Cost)	RECOMMENDED AMOUNT (% of Total Project Cost)
<a href="#"><u>Merle Hay Road Corridor Traffic Signal Improvements</u></a>	Johnston	61	\$776,840	\$621,470 (80%)	\$621,470 (80%)
<a href="#"><u>Middle Road and Forest Grove Drive</u></a>	Bettendorf	59	\$9,371,160	\$500,000 (5%)	\$500,000 (5%)
<a href="#"><u>Route #17 Extension to Bondurant</u></a>	Des Moines Regional Transit Authority (DART)	59	\$65,490	\$52,392 (80%)	\$52,392 (80%)
<a href="#"><u>Iowa 160/SW Oralabor Road and Iowa 415/SW State Street Intersection Improvements</u></a>	Ankeny	58	\$1,955,000	\$1,400,000 (72%)	\$529,161 (27%)

# Map of Applications Received



# **Estimated Annual Benefits of Recommended Projects**

- **Reduction of Vehicle Hours of Travel: 703,949**
- **Reduction of Vehicle Miles of Travel: 5,531,922**
- **Improved Air Quality**
  - **Reduced CO, VOCs, & NOx Emissions: 335,537 lbs.**



QUESTIONS?

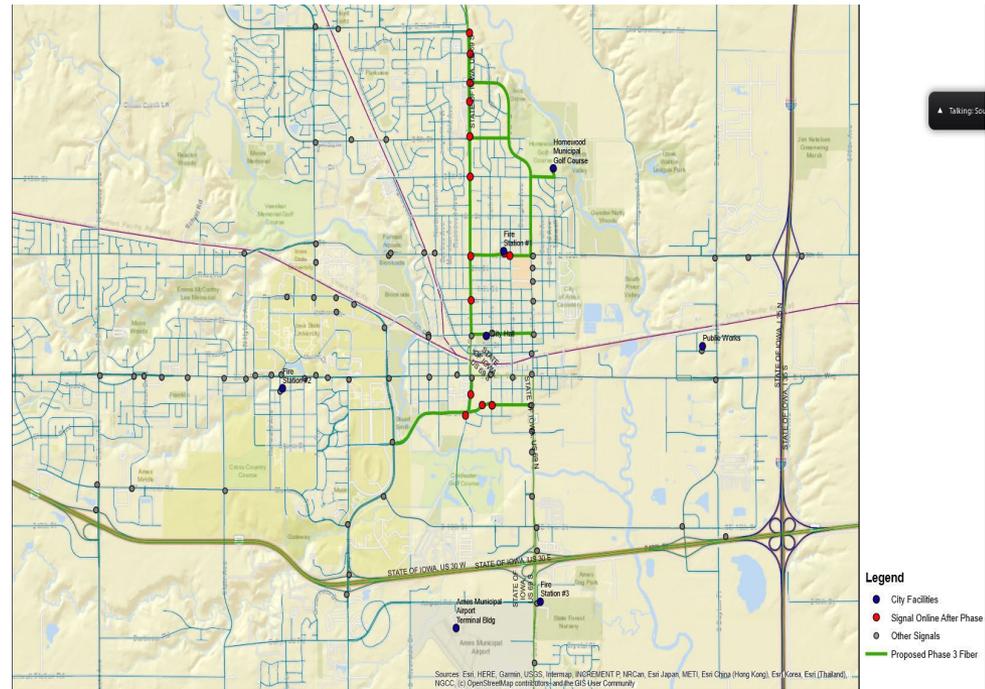


Jared Smith  
Iowa's Clean Air Attainment program manager  
[Jared.Smith@iowadot.us](mailto:Jared.Smith@iowadot.us)

## Traffic Signal Communication Network – Phase 3 (Ames)

Install fiber optic cable and network switching equipment, traffic signal cabinets, Advanced Traffic Controllers, Advanced Traffic Management System, and software to provide communication and traffic management capabilities along a portion of South 3rd Street, Grand Avenue, Bloomington Road, Duff Avenue and connecting Homewood Golf Course to Duff Avenue at 24th Street.

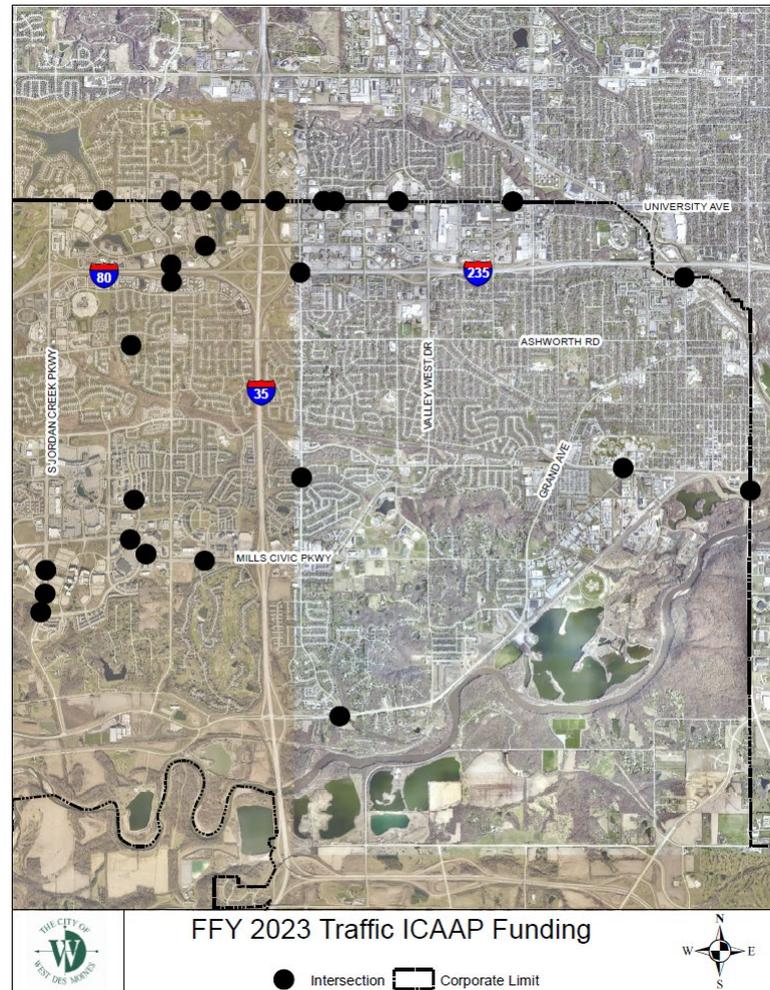
**Total Cost: \$1,869,100**  
**Requested: \$1,495,280 (80%)**



## Traffic System Vehicle Detector Improvement Project (West Des Moines)

Replace existing vehicle detection method, such as in-pavement loops, with state-of-the-art single point video detection.

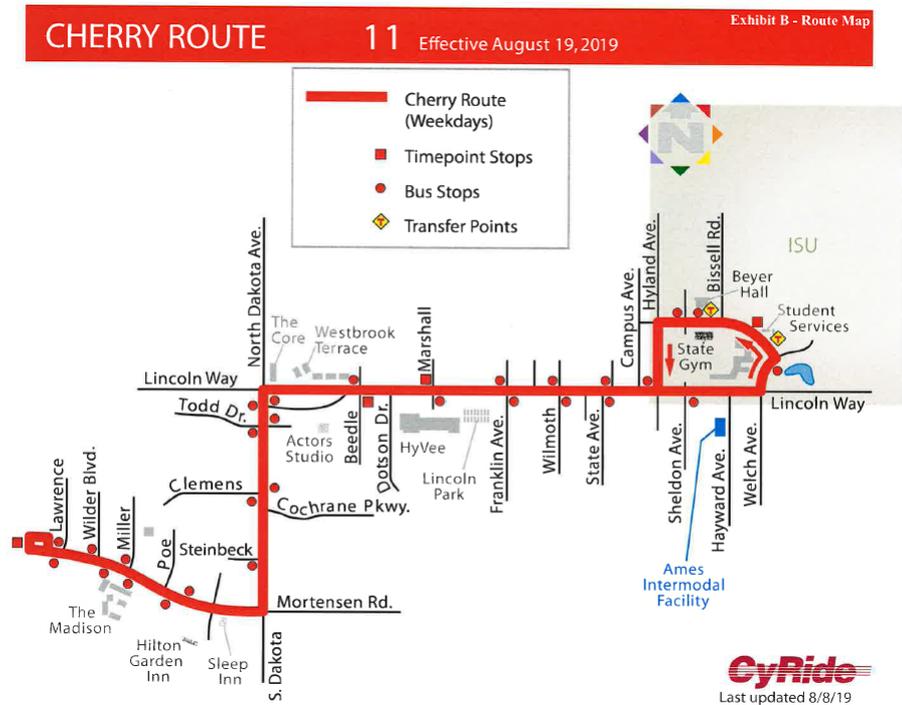
**Total Cost: \$600,000**  
**Requested: \$480,000 (80%)**



# #11 Cherry - Night (Ames Transit Agency)

Adding night service trips to the #11 Cherry route due to additional demand from residents and to improve safety.

**Total Cost: \$39,512**  
**Requested: \$31,609 (80%)**

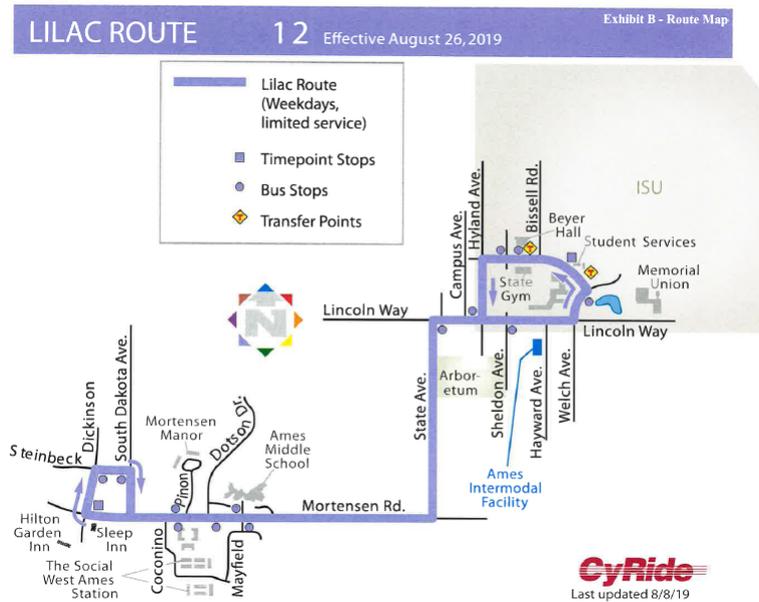




# #12 Lilac – Mid-Day (Ames Transit Agency)

In 2019 mid-day trips were added to the #12 Lilac route due to additional demand from residents. Therefore, this ICAAP request, year 3 request, is for the #12 Lilac mid-day service to support operations.

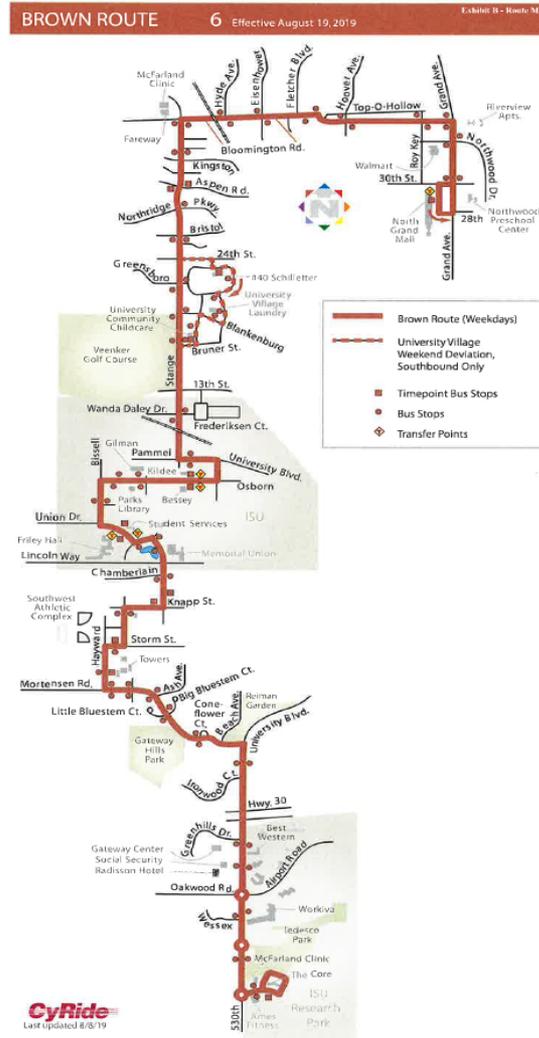
**Total Cost: \$37,287**  
**Requested: \$29,830 (80%)**



## #6 Brown - Night (Ames Transit Authority)

Adding additional night service trips due to additional demand from residents between North Grand Mall and Towers residence halls.

**Total Cost: \$35,323**  
**Requested: \$28,258 (80%)**



## Merle Hay Road Corridor Traffic Signal Improvements (Johnston)

Update controller cabinets at two locations to accommodate 4-section left turn signal heads, replace pedestrian signal heads with MUTCD compliant countdown heads, install pedestrian pushbuttons for ADA compliance and reconstruct pedestrian ramps. Remove two traffic signals and install one new traffic signalized intersection and install GPS time synchronization unit.

**Total Cost:** \$776,840  
**Requested:** \$621,470 (80%)



## Middle Road and Forest Grove Drive (Bettendorf)

This project would reconstruct Forest Grove Drive between Friendship Path and just east of Middle Road, and Middle Road just south of Forest Grove Drive to north of Competition Drive. It would replace the signalized intersection of Forest Grove Drive and Middle Road with a multi-lane roundabout and also construct roundabouts at the intersections of Forest Grove Drive and Championship Drive and the intersection of Middle Road and Competition Drive.

**Total Cost: \$9,371,160**  
**Requested: \$500,000 (5%)**

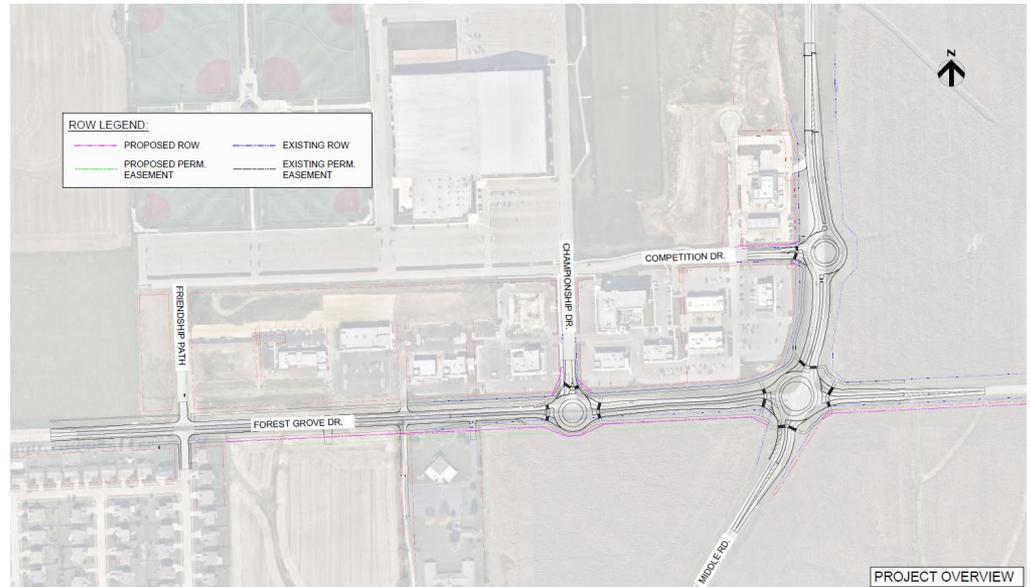
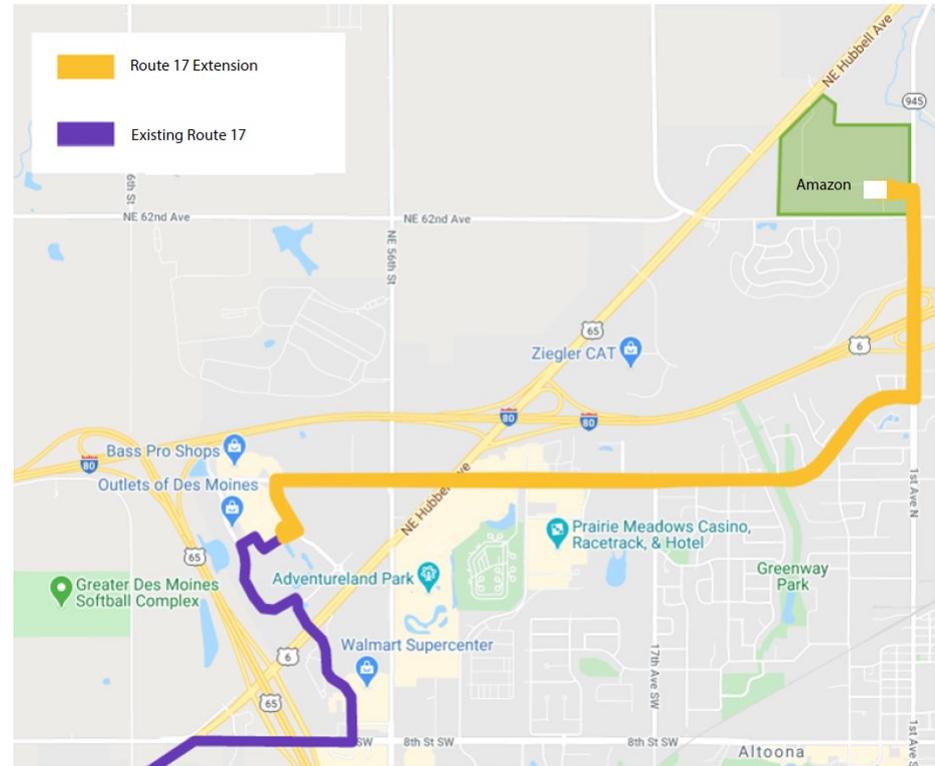


Exhibit B - Route 17 Extension

## Route #17 Extension to Bondurant (Des Moines Regional Transit Authority)

DART extended service on Route #17 between the Outlets of Des Moines and the Amazon facility in Bondurant in November 2020. The route extension provides transportation options for the employees of the Amazon facility as well as providing additional connections for the residents of Bondurant to Des Moines.



**Total Cost: \$65,490**  
**Requested: \$52,392 (80%)**

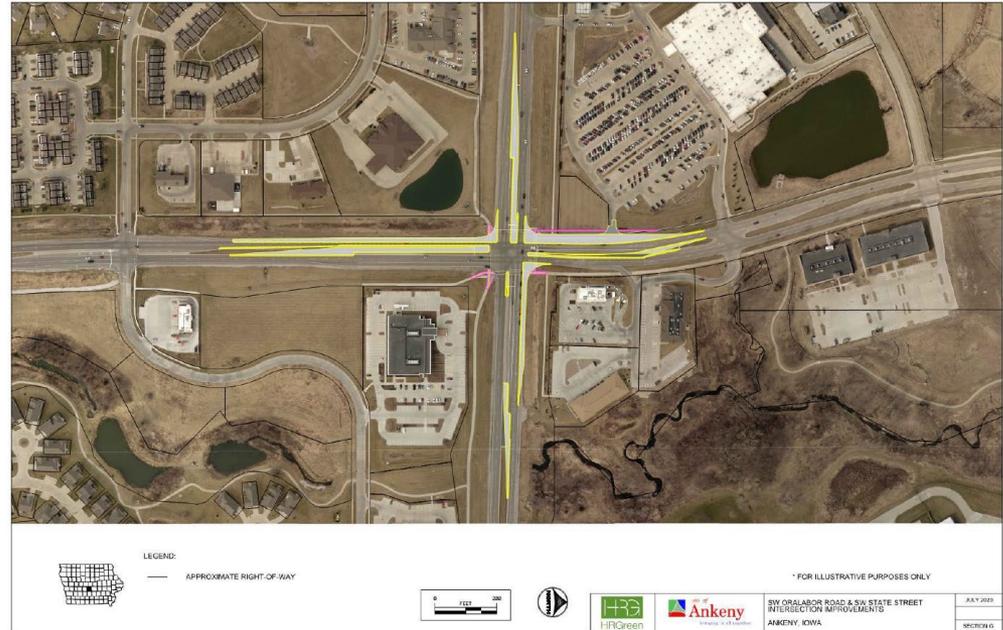
# Iowa 160/SW Oralabor Road and Iowa 415/SW State Street Intersection Improvements (Ankeny)

Intersection improvement design includes the construction of dual left-turn lanes for northbound, eastbound, and southbound approaches as well as the addition of right-turn lanes for the westbound and southbound approaches. Project also includes the replacement of existing traffic signal equipment at the intersection and upgrade of pedestrian ramps and crossings.

**Total Cost: \$1,955,000**  
**Requested: \$529,161 (27%)**

IA 160 / SW Oralabor Road and IA 415 / SW State Street Intersection Improvements  
Ankeny, Iowa

Section B  
Detailed Map



# 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)
NE Broadway Avenue Corridor Improvement Project – Railroad Grade Separation	Polk County Public Works	54	\$10,443,315	\$1,000,000 (10%)	\$0
Grant Street South Realignment	Bondurant	28	\$7,750,000	\$1,000,000 (13%)	\$0
12th Avenue SW to 13th Avenue SE Connector	Dyersville	22	\$8,000,000	\$500,000 (6%)	\$0