

**AAMPO TRANSPORTATION POLICY COMMITTEE ACTION FORM**

**SUBJECT: FY2010 TRANSPORTATION IMPROVEMENT PROGRAM (TIP)  
TRANSIT AMENDMENTS**

**BACKGROUND:**

Last year, the Ames Area Metropolitan Planning Organization (AAMPO) approved the 2010 Transportation Improvement Program (TIP) in May 2009 consisting of planning, capital, and operating projects to be funded during fiscal years 2010-2013. In September 2009, the AAMPO approved amendments to the TIP adding an Ames Intermodal Facility. Since this last approval, the House passed a "Jobs for Main Street Act" in December 2009 leading towards the possibility of a second stimulus bill. The Iowa Department of Transportation (DOT) directed transit systems to identify projects that could be funded with this possible federal program. These TIP amendments would allow grant submission of transit projects to the Federal Transit Administration if this funding is approved by the Senate and signed by the President. These projects are explained below.

**Ten Replacement 40' HD Large Buses (Surveillance):** This project would allow CyRide to replace 40-foot buses, which are between 20-30+ years old with new diesel vehicles and new camera surveillance systems. These funds are being requested at 100% federal funding; \$3,840,000 total.

**Twelve Expansion 40' HD Large Buses (Surveillance):** This project would fund past and present bus expansions as well as achieve a recommended spare allowance of 20% by the Federal Transit Administration. Currently, CyRide only has 3 spare buses for times when vehicles are in an incident/accident or need repair. These funds are being requested at 100% federal funding; \$4,608,000 total.

**Storage Area Air Handling/Piping-Ductwork Relocation/Sprinkler System Upgrade:** The City's insurance carrier, FM Global, has completed risk assessments which evaluated key exposures that could lead to serious loss within the maintenance facility, including in the event of a fire. These projects are contained in CyRide's Capital Improvement Program (CIP). The following projects are recommended to mitigate these risks:

- Storage Area Air Handling – This project would increase the ventilation rates throughout the old storage area to decrease diesel particulate exposures and concentrations by a factor of four. Ventilation would involve bringing in fresh air while the bad air is extracted outside.
- Piping-Ductwork Relocation – CyRide's maintenance facility was built in the 1980's when facilities were designed with low ceilings in order to conserve energy. When the 12 hybrid buses arrive in 2010, those buses will not be able to

circulate through lanes 5-8 due to low ductwork and piping and will hit the ceiling structure if operated through this older section of the facility. This project will raise the pipes and ductwork to allow circulation of buses throughout the entire facility regardless of vehicle type.

- **Sprinkler System Upgrade** – CyRide currently parks 75 vehicles extremely close within the facility in order to park as many vehicles as possible inside. If a fire occurred in one of the buses at night when all the buses are within the facility, severe damage could occur due to lightly designed sprinklers. FM Global has recommended an upgrade to the sprinkler system with more gallons of water per minute to provide better deterrence from fire spreading into, under, and through adjacent buses parked within the facility.

These funds are being requested at 100% federal funding; \$792,000 total.

**Fuel Pump Improvements** - During the 2003-04 fuel/wash lane construction, the submersible pumps, variable frequency motor drives, and related electronic controllers were not upgraded due to budget concerns. These vital, unseen components are now antiquated and need to be replaced to ensure that service to Ames continues without disruption. Two petroleum equipment companies have explained that parts for the equipment are no longer available and if one of the drives fails, CyRide will no longer be able to fuel buses (1,000 gallons daily) on-site until the system is replaced. These funds are being requested at 100% federal funding; \$29,000 total.

**AVL/CAD technology, Web/Bus Stop Planner, Scheduling Software** – This project would implement ITS technology to enhance dispatch's ability to track where buses are located throughout Ames and will give its over five million passengers the ability to get "next bus" information in real-time. With a majority of its riders under 25 years of age, this technology will be fully utilized and encourage additional ridership. The first phase of ITS technology would include the following:

- **CAD/AVL** – Computer-Aided Dispatch and Automatic Vehicle Location system to monitor location of buses in real-time.
- **ATIS** – Advanced Traveler Information Systems (web/stop) to help passengers make decisions about their trips providing information including transit service/routes, scheduled vehicle departure times, projected vehicle arrival/departure times, service disruptions/delays, fares, transfers, etc. This would be provided on the web and at kiosks at bus stops.
- **Scheduling Software** – Automates the daily scheduling process of 850 trips, 57 buses, and 120 driver assignments as opposed to creating run assignments by hand.

These funds are being requested at 100% federal funding; \$1,705,450 total.

## **ALTERNATIVES:**

1. Approve the aforementioned amendments to the 2010 TIP in order for consideration of additional federal transit funding opportunities.

2. Approve the amendments into the 2010 TIP with modifications from the AAMPO Policy committee.
3. Do not approve the amendments.

**ADMINISTRATOR'S RECOMMENDATION:**

AAMPO's TIP must be amended in order to be prepared to take advantage of possible additional stimulus funding for CyRide. Therefore, it is the recommendation of the Administrator that the Transportation Policy Committee adopt Alternative No. 1, thereby approving the aforementioned amendments to the 2010 TIP in order for consideration of additional federal transit funding opportunities.

January 29, 2010

Fund Type	System	Project Description	Vehicle Identification or Remarks	Type Exp	Type Project	Total Cost				Federal Participation				2010 STA
						2010	2011	2012	2013	2010	2011	2012	2013	
5307/STA 5339 STA 5303	CyRide CyRide CyRide AAMPO	General Operations Alternative Analysis Study - Orange Route I35 Ames-Des Moines Corridor Planning Planning		O P P P		7,280,545 200,000 100,000 35,000	7,644,572	8,026,801	8,428,141	1,500,000 160,000 100,000 28,000	1,575,000	1,653,750	1,736,438	523,757 100,000
5316 5316	CyRide CyRide	<b>Job Access &amp; Reverse Commute</b> Brown Route Frequency/Hours Expansion Yellow Route Expansion		O O	Exp Exp	62,617 15,256	65,748 16,019	69,035 16,820	72,487 17,661	31,309 7,628	32,874 8,009	34,518 8,410	36,244 8,830	
5317 5317	CyRide CyRide	<b>New Freedom</b> East 13th/LincolnWay/Dayton Commercial/Industrial Area Operating Service 1 - 40' HD bus (Cameras)		O C	Exp Exp	384,000	329,700	346,185	363,494	318,720	164,850	173,093	181,747	
5310 5310	CyRide CyRide	<b>Elderly &amp; Persons with Disabilities Program</b> Contracted paratransit service Transit Amenities		O C		173,169 50,000	171,141 50,000	177,987 50,000	185,106 50,000	138,535 40,000	136,913 40,000	142,390 40,000	148,085 40,000	
5309 ARRA/TIGGEI	CyRide CyRide	<b>Buses and Bus Equipment</b> 5 - 40' HD Expansion buses (Surveillance) Up to 10 hybrid upgrades		C C	Exp	1,920,000 1,600,000				1,593,600 1,600,000				
5309	CyRide	12 - 40' HD buses (Surveillance)	952, 962, 964, 966, 982, 984, 991, 8913, 8917, 8918	C	Exp	4,608,000				4,608,000				
5309	CyRide	10 - 40' HD buses (Surveillance)		C	Rep	3,840,000				3,840,000				
5309	CyRide	8 - 40' HD buses (Surveillance)	933, 934, 941, 942, 943, 967, 985, 990	C	Rep	3,072,000				2,549,760				
5309	CyRide	2 - 158" Light Duty buses (Diesel, Urban, Surveillance)	978, 979	C	Rep	184,000	3,256,000			152,720				
5309 IG 5309 5309 5309	CyRide CyRide CyRide CyRide CyRide	<b>Security: Human Health/Safety Threats</b> Facility Cameras/Proximity Card Access West Wall EIFS Exterior Replacement Actuated Shutoffs for fuel, oil, hydraulic lines Electric Distribution Rehabilitation Vehicle Surveillance Systems - 38 units	20 Cameras(20*\$1,333) ; 10 Proximity Cards Replace w/ fire resistant metal siding 35@\$8,000; 3@\$4,000	C C C C C	Exp Rep Exp Reh Rep/Exp	56,660 200,000 36,000 30,000 292,000				45,328 160,000 28,800 24,000 233,600				
5309 5309 5309	CyRide CyRide CyRide	Storage area air handling replacements; piping-ductwork relocation; upgrade sprinkler system Fuel Pump Improvements AVL/CAD technology, web/busstop planner, scheduling software		C C C	Rep Rep Exp	792,000 29,000 1,705,450				792,000 29,000 1,705,450				
5309 5309 5309 5309 ARRA-TIGER/PTIG	CyRide CyRide CyRide CyRide CyRide	<b>Direct Earmarks</b> Transit Satellite Maintenance Facility 11 - 40' Hybrid Buses Garage Expansion Phase III (Direct Earmarks) Resurface ISC Commuter Parking Ames Intermodal Facility (39.7M TIGER; 880,000 PTIG)		C C C C C	Exp Exp Exp/Reh Reh Exp	14,000,000 6,500,000 1,107,700 43,666,500	1,000,000 1,000,000	500,000		11,200,000 5,395,000 886,160 40,179,850	800,000 720,000	400,000		
Total Capital					Total Capital	91,939,897 83,489,310	13,569,930 5,306,000	9,225,415 550,000	9,157,406 50,000	77,347,460 74,903,268	3,507,046 1,560,000	2,483,030 440,000	2,183,757 40,000	623,757