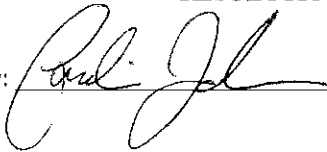


RESOLUTION NO. 83 OF 2017

Moved by: _____



A Resolution authorizing the submission of a grant application for a Dauphin County Local Share Municipal Grant under the Pennsylvania Gaming Act for the purpose of funding GPS emergency vehicle preemption (EVP) equipment for fourteen downtown intersections and six City-owned emergency response vehicles.

WHEREAS, the City of Harrisburg (the "City") Bureau of Traffic and Engineering desires to install emergency vehicle preemption (EVP) equipment at signalized intersections to provide a special green interval to approaching emergency vehicles (EVs) to offset the effects of congestion and reduce risk of crashes and delays of emergency response; and

WHEREAS, pursuant to the Pennsylvania Gaming Act, Dauphin County, Pennsylvania (the "County") receives a portion of the gross terminal revenue generated from the slot machines at the Hollywood Casino at Penn National, for which it is authorized to award as municipal grants; and

WHEREAS, the City intends to submit an application to request \$200,000 in grant funds from the County for the purpose of funding GPS emergency vehicle preemption (EVP) equipment for fourteen downtown intersections and six City-owned emergency response vehicles; and

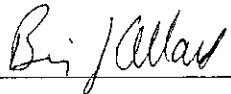
WHEREAS, pursuant to the grant program requirements, the grant application must be submitted to the County no later than September 1, 2017; and

WHEREAS, a copy of the grant application is attached and incorporated as "Exhibit A."

NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED, BY THE COUNCIL OF THE CITY OF HARRISBURG, that the submission of a grant application for a Dauphin County Local Share Municipal Grant under the Pennsylvania Gaming Act for the purpose of funding GPS emergency vehicle preemption (EVP) equipment for fourteen downtown intersections and six City-owned emergency response vehicles is authorized.

BE IT FURTHER RESOLVED that the Mayor, City Controller and other appropriate City officials are authorized and directed to take all steps necessary to further effectuate the purpose of this resolution.

Seconded by: _____



Passed by City Council August 29, 2017

Wanda R. Williams
President of City Council

Attest [Signature]
City Clerk

YEAS		NAYS
	MR. ALLATT	
	MR. BALTIMORE	
	MS. DANIELS	
	MS. HODGES	
	MR. JOHNSON	
	MR. MAJORS	
	MS. WILLIAMS	
Yeas	<u>6</u>	
Nays	<u>0</u>	

Approved

Exhibit A

**DAUPHIN COUNTY
LOCAL SHARE MUNICIPAL GRANT PROGRAM**

FY 2017 APPLICATION COVER PAGE

Applicant Name: City of Harrisburg Bureau of Engineering

Project Name: GPS Emergency Vehicle Preemption Project

Sponsor/Co-Applicant (if applicable): Dauphin County

Sponsor/Co-Applicant Contact: Brooke Echevarria, (717) 780-6251

Brief Project Description: Purchase of GPS Emergency Vehicle

Preemption equipment for fourteen downtown city

intersections and five vehicles

Amount of Funding Request: \$200,000

Contact Person and Title: Jonathan Hicks, MPA, Grants Manager

Address: 10 N. 2nd St., Ste. 301

Harrisburg, PA

17101

Telephone: (717) 255-3068 Fax: (717) 255-7251

Contact E-Mail Address: jrhicks@harrisburgpa.gov

The City of Harrisburg, Bureau of Traffic and Engineering is requesting \$200,000 in Local Share Municipal Grant funds to acquire GPS emergency vehicle preemption (EVP) equipment for fourteen downtown intersections and six City owned vehicles. Traffic signal preemption is the "the transfer of normal operation of a traffic control signal to a special control mode of operation." Preemptive control will be used give right of way to vehicles in an emergency situation (example, fire engines responding to an emergency).

Need:

Emergency vehicles (EVs) operating in higher congestion levels such as downtown City of Harrisburg are at higher risk for involvement in crashes and are subject to unpredictable delays in reaching the scene of a fire or crash. One means to offset the effects of congestion is the installation of emergency vehicle preemption (EVP) equipment at signalized intersections. This ITS technology provides a special green interval to the EV approach while providing a special red interval on conflicting approaches.

EVP systems are designed to give emergency response vehicles a green light on their approach to a signalized intersection while providing a red light to conflicting approaches. The most commonly reported benefits of using EVP include improved response time, improved safety, and cost savings. These benefits have been realized since the early deployments of EVP and have been documented since the 1970s.

While most of the neighboring municipalities have successfully used Infrared EVP systems for years, the City of Harrisburg has not yet deployed an EVP system. One of the reasons an Infrared EVP has not been deployed in Harrisburg is the inherent limitation with Infrared systems. Infrared systems are line of site systems and obstacles in the line of site between the vehicle and the intersection, such as signs, buildings, and trees will reduce or block the light intensity resulting in a late activation. A late activation means that other vehicles do not have time to clear the intersection ahead of the emergency vehicle. Pedestrians may still be crossing the road when the emergency vehicle reaches the stop bar, or the traffic light may not have had time to cycle to green. In these cases, the emergency vehicle will be required to slow down or stop before proceeding through the intersection. This has a direct impact on emergency response performance. Many of the limitations with the Infrared systems were eliminate in early 2000's with the introduction of the GPS systems.

Both Infrared and GPS systems operate under the same basic principle. As the emergency vehicle approaches a signalized intersection, it communicates with that intersection to modify the signal timing and activate a green phase in the direction of travel of the emergency vehicle. Unlike Infrared systems, the GPS system utilizes satellite-derived GPS coordinates to determine precisely where the emergency vehicle is located relative to the intersection. This is combined with a bi-directional purpose-built radio that communicates between the vehicle and the intersection. This bi-directional radio allows the vehicle to "handshake" constantly (once per second) with the intersection to ensure EVP is only activated precisely when required, even during transient conditions such as rush hour traffic. Because the radio no longer requires a direct line-of-site to the intersection, it is not subject to aging or degradation and it does not need to be cleaned. Therefore, all of the factors impacting IR above are eliminated with GPS.

Objective:

Outfitting the mainline fire trucks and completing the installation of the downtown signals is just the beginning. Pinnacle Health desires to install EVP equipment in its LifeTeam EMS vehicles. This grant allows Pinnacle Health to proceed with that project. The City of Harrisburg intends to apply to PennDOT for the next round of Green-Light Go grant to install the necessary equipment on the remaining traffic signals in the City. The proposed GPS emergency vehicle preemption equipment can also be used for transit signal prioritization (TSP). Federally funding is available to install equipment on CAT buses in 2020 (MPMS No. 106549), but the City's traffic signals will need to have the associated equipment installed to make TSP a reality. Recent success of this same equipment for TSP in urban environments, such as Philadelphia, has resulted in reduced transit delays at intersections by up to 40 percent, minimize fuel costs by up to 19 percent, increase ridership by as much as 10 percent (due to reliability of arrival time and schedules), and cutting gas emissions by up to 30 percent.

Outcome:

Since 2015, the City of Harrisburg spent approximately \$397,000 to upgrade its traffic controllers at twenty five signalized intersections located downtown in an effort to facilitate traffic signal preemption and transit signal priority. In 2016, the City of Harrisburg was awarded a Green-Light Go grant from the Pennsylvania Department of Transportation to upgrade eleven of the twenty five signalized intersections. This grant request is to cover the labor and material equipment necessary to upgrade the remaining fourteen downtown signals and to cover the cost of procuring and installing the equipment on all five of the City's mainline fire trucks and one for the traffic manager vehicle for installation and troubleshooting purposes. This grant will breach a current funding gap and allow the City to stay on track with its goal of having a City GPS emergency vehicle preemption/transit priority equipment on all traffic signals.

Timeline:

If awarded local share gaming funds, the City of Harrisburg Bureau of Traffic and Engineering will be able to procure the traffic signal and associated vehicle equipment within six weeks after the date of the award. City labor will be used to install the traffic signal equipment and an outside firm will be used to install the vehicle equipment. Install will occur within eight weeks after delivery of the equipment.

Budget:

Revenue:

2018 Dauphin County Gaming Grant = \$200,000

TOTAL: \$200,000

Expenses:

GPS emergency vehicle preemption equipment per intersection = \$12,000 per intersection

14 intersections x \$11,700 = \$163,800

GPS emergency vehicle preemption equipment per vehicle = \$6,000 per vehicle

5 vehicles x \$6,000 = \$30,000

Contingency = \$6,200

Total = \$200,000

The intersection work will vary based upon the field wiring and need for split phase wiring. These numbers are based upon a vendor's (General Highway Services) budget estimate.

Priority of Projects

The City is submitting three (3) applications for funding. The City considers all three projects to be equally important, and thus does not have a ranking of projects.



Office of Mayor Eric Papenfuse
MLK Government Center
10 N. Second St.
Harrisburg, PA 17101

July 25, 2017

Dauphin County Gaming Advisory Board
c/o Brooke Miller
Dauphin County Dept. of Community & Economic Development
112 Market Street, 7th Floor
Harrisburg, PA 17101

Re: Request for County Sponsorship of Local Share
Municipal Grant Application

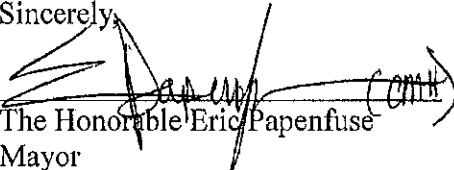
Dear Ms. Miller:

On behalf of the City of Harrisburg, I am writing to request that the Dauphin County Board of Commissioners sponsor the Local Share Municipal Grant Application the City of Harrisburg intends to submit for the 2016-2017 grant cycle. We are seeking County sponsorship based on our status as a non-contiguous municipality located within Dauphin County.

The City of Harrisburg intends to apply for local share funding to upgrade select traffic signals and emergency vehicles for emergency vehicle preemption. Preemptive control will be used at signalized intersections to give right of way to vehicles in an emergency situation (example, fire engines responding to a fire or an ambulance headed to the hospital). This project is important to our community and will benefit the City of Harrisburg by reducing average response times. A successful deployment of a GPS-based preemption system in Savannah, Georgia reduced average response times by five to seven minutes, which can be the difference between life and death. To advance the project, the City of Harrisburg intends to apply for a grant of up to \$200,000.

Thank you for your consideration of this request. Please advise if additional information is required to support the sponsorship of our Local Share Municipal Grant Application.

Sincerely,


The Honorable Eric Papenfuse
Mayor

**City of Harrisburg
Disclosure Statement
for
Local Share Municipal Grant Application
Dauphin County**

Disclose any instances of fraud or theft of applicant funds in the last five (5) years and measures taken by applicant to prevent future theft and fraudulent events.

The city has fully cooperated in each of the below-cited matters and has initiated the investigation in four (4) of the matters.

Disclosure #1 - In March 2013, the City of Harrisburg entered into a consent decree with the United States Securities and Exchange Commission agreeing to a finding that it had violated certain regulations regarding public disclosures and other public statements by elected officials. The finding was an acknowledgment that the City failed to provide timely and accurate financial disclosures over a limited window of time. **This should have no material effect on the City's current abilities to comply with the obligations of this grant.**

Disclosure #2 - In August 2014, the Treasurer of the City of Harrisburg, John Campbell, was charged with felony theft and a misdemeanor charge of unfair or deceptive acts or fraudulent conduct stemming from his alleged misappropriation of funds from the Historic Harrisburg Association, a charity where he served as Executive Director. The charity is not related to the City of Harrisburg. In September 2014, Mr. Campbell was also charged with a second theft charge in connection with his alleged misuse of funds from Capital Regional Stonewall Democrats, a political action committee where he served as Treasurer. Mr. Campbell resigned his position as Treasurer of the City of Harrisburg effective September 2, 2014. A review of the accounts of the City of Harrisburg showed no breaches. The above charges are unrelated to the duties of Mr. Campbell's position as City Treasurer and have no effect on the City's finances or its financial dealings. Mr. Campbell later pled guilty under a plea agreement, made restitution, and was placed in an Accelerated Rehabilitation Disposition program by the Court. **This should have no material effect on the City's current abilities to comply with the obligations of this grant.**

Disclosure #3 - In July 2015, a 98-page grand jury presentment was issued regarding the former Mayor of Harrisburg, Stephen R. Reed, which included 17 criminal charges, with 499 separate counts, including theft of City property, bribery, and his operation of a corrupt criminal enterprise while in office. He served as Mayor for 28 years and left office in January 2010. The indictment referred to 7 counts of bribery of former City Council members and County officials. No charges have been brought against other former officials, though the Pennsylvania Office of Attorney General publicly announced that the grand jury has been extended and that a second grand jury is anticipated to be seated. The most recent incidents occurred in 2015, in an effort to sell or consign certain firearms and related items allegedly purchased with public monies or otherwise being the alleged property of the City. In January 2017, in a plea agreement, Mr. Reed pled guilty to 2 felony and 18 misdemeanor counts related to receiving stolen property. The Office of the Attorney General agreed to dismiss the remaining charges. The stolen

property for which he pled guilty was valued at more than \$19,000. Mr. Reed was sentenced to return certain stolen property, two years of supervised probation, and a \$2,000 fine. A formal application for return of seized property that includes the issues of forfeiture and return of City property is pending. **This should have no material effect on the City's current abilities to comply with the obligations of this grant.**

Disclosure #4 - The City is cooperating in an ongoing investigation of an alleged 2013 unauthorized electronic transfer of funds from a financial account allocated for City use secured through another governmental body with whom the City interacts. The cyber breach appears to have occurred in the systems of the outside agency, but a review is ongoing. **This should have no material effect on the City's current abilities to comply with the obligations of this grant.**

Disclosure #5 - The City is cooperating in an investigation of an alleged misappropriation or misuse of 2013 and earlier City funds by a former employee. The City has modified and corrected its cash handling policies to prevent re-occurrence. **This should have no material effect on the City's current abilities to comply with the obligations of this grant.**

Disclosure #6 - A former law enforcement officer entered into a plea arrangement in January 2016 on 2014 criminal charges, wherein the original charges alleged theft of approximately \$7,500 in public and non-profit funds in 2012-2013. The officer has been terminated. **This should have no material effect on the City's current abilities to comply with the obligations of this grant.**

Disclosure #7 - In October 2016, a City police officer was charged with theft of money belonging to a federal agency and removing property to prevent its seizure. The charges resulted from an internal investigation by the Harrisburg Police Dept. The investigation was subsequently referred to the Federal Bureau of Investigation and Pennsylvania State Police. The matter is ongoing. **This should have no material effect on the City's current abilities to comply with the obligations of this grant.**

Describe any pending litigation, administrative proceedings or governmental approval that may cause delay or otherwise impact the project.

The City is not aware of any pending litigation, administrative proceedings or governmental approvals that would likely cause delay of or otherwise adversely impact the project.

CERTIFICATION OF NON-CONTINGENCY

I, _____ (name and title), an authorized representative of _____ (Local Share Municipal Grant Applicant), subject to the penalties of 18 Pa.C.S. § 4904 relating to unsworn falsification to authorities, hereby certify that neither the Local Share Municipal Grant Applicant, nor its affiliated entity or political subdivision, have engaged any person to lobby on its behalf in regard to its Local Share Municipal Grant Application in exchange for compensation contingent in whole or in part upon the approval, award, receipt or denial of funds under Section 1403 of the Pennsylvania Race Horse Development and Gaming Act (the "Gaming Act"), 4 Pa.C.S. § 1101 et seq., and further certify that the Local Share Municipal Grant Applicant, or its affiliated entity, have not engaged in or agreed to lobby for compensation contingent in whole or in part upon the approval, award, receipt or denial of funds under Section 1403 of the Gaming Act.

I understand that a violation of Section 1403(f) of the Gaming Act is considered an intentional violation of 65 Pa.C.S. § 13A09(e) relating to lobbying disclosure and penalties. I further understand that such violation or false certification hereunder shall be cause for the immediate termination and repayment of any Local Share Municipal Grant awarded to the Applicant.

This certification is given in support of the Dauphin County Local Share Municipal Grant Application submitted by the Applicant.

Date

Authorized Representative

INTER

OFFICE

MEMO

To: HARRISBURG CITY COUNCIL
From: Kirk Petroski, City Clerk
LEGISLATIVE APPROVAL FORM

Date:

LEGISLATIVE APPROVAL FORM/CERTIFICATE OF ACCEPTANCE

BILL NO. -2017 RESOLUTION NO. 83 -2017

THE ABOVE LISTED ITEM WAS WRITTEN AND PREPARED FOR FINAL INTRODUCTION AT THE HARRISBURG CITY SOLICITOR'S OFFICE ON:

Rebecca L. Kunkel
Assistant City Solicitor

8/25/17
Date

Requested by Department/Bureau: Grants/Engineering

Department/Bureau Contact Person: Jonathon Hicks

For Action on or before:

The attached was received in the Office of the City Clerk for introduction on

Received by: [Signature]

Date: 8-25-17