

Cover Page

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**Project Title** MPD Accident Investigation

**Total Grant Funding Requested** \$34,355.00

**Total ERE Percentage** 11

**Agency Name:** Maricopa Police Department  
**Contact Information:** 39675 West Civic Center Plaza South  
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**Governmental Unit:** City of Maricopa  
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**Project Director:** Steve Stahl  
**Contact Information:**

**Project Administrator:** Timothy Hansell  
**Contact Information:**

**Fiscal/Financial Contact:** Timothy Hansell  
**Contact Information:**

Please upload a cover letter addressed to the Director of the Governor's Office of Highway Safety on agency letterhead. This cover letter **must** be signed by a representative of your agency authorized to commit your agency to conduct the grant should it be approved for funding.

Any proposal received without a cover letter will not be considered for funding by GOHS.

**For GOHS Office use only**

Total Proposal

Jurisdiction

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**Select the Type of Jurisdiction:**

City

**Select the Type of Agency:**

Law Enforcement

Fire Department / District

Non-Profit / Other

**Select the County Served:**

Pinal County

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**Proposal Summary**

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**Proposal Summary:**

Please include a summary of funding requested by program area (Alcohol, Aggressive Driving, Occupant Protection etc...).

Maricopa Police Department is seeking funds to help improve its ability to investigate and reconstruct serious vehicle accidents. Due to budgetary constraints, MPD has limited resources in house to provide these services requiring us to seek outside resources which create delays in completing a high quality and timely investigation allowing for roadways to reopen and traffic to get through. To resolve the issue of having to request outside resources, MPD is seeking funds to purchase additional vehicle crash accident investigation equipment, overtime for officers to perform accident investigation reconstruction, and training dollars to cover the fees of attending crash reconstruction courses. The funds will enable MPD to train additional staff and procure the needed equipment to bring accident investigations in house to prevent further complications during an accident if MPD has to wait for outside resources to respond.

Traffic accidents are extremely chaotic, confusing and disruptive events. With trained staff, MPD can ensure proper procedures are carried out to identify the root cause of the accident through scientific, qualitative and quantitative methods. Utilizing MPD decreases the time accidents block and/or delay traffic which can lead to frustrated drivers and additional incidents.

The use of new technology to reconstruct the crash will further identify the root cause that can lead to drastic improvements of blind curves, obstructions in or near roadways, etc. that are the real cause of the crash. It will also identify if additional speed, DUI/impaired driver, and other enforcement details are needed to prevent additional crashes.

MPD through the Accident Investigation proposal is seeking to improve its ability to identify and prevent further accidents from happening that can save lives. Without the funding, MPD will continue to rely on outside agencies to provide this needed resource which can further complication a situation due to longer traffic delays and additional incidents.

**Background/Problem:**

Provide general characteristics of the agency, including information on population, demographics, and a description of streets and highways in the agency's jurisdiction including road mileage.

The City of Maricopa is located in central Arizona within Pinal County, 35 miles south of Phoenix and 20 miles northwest of Casa Grande. The climate varies between 66 and 100 degrees, with low humidity and 90% sunshine. The City is on flat terrain in the Sonoran Desert with native vegetation of the Colorado scrub. A labor study completed by the Economic Development Department in 2009 shows the average household in Maricopa is 2.7 persons with more than 75% having a household income of \$50,000 or higher. Nearly 48.7% of residents have a bachelor's or graduate degree. 2010 Census lists the largest minority groups as Hispanic at 24.7% then 9.7% African Americans, 4.1% Asian and 1.9% Native Americans. Families make up 73% of households in Maricopa City. Within these families, 2,839 students are enrolled at the six (6) through twelve (12) grade levels. 31.7% of the population is under the age of 19, which is more than 50% higher than the State.

The City of Maricopa incorporated in 2003 due to a surge of development, primarily housing, from the year 2000 on. Maricopa's population has grown from 1040 to over 43,000 in 2010. This growth has effectively transformed the area from an agricultural area to a city environment. Maricopa owns and maintains 517 miles of roads. The majority of trips are made on 2 highways and a series of section line roads. The primary road within City limits is John Wayne Parkway (SR347), a 4 lane ADOT maintained road, traversing Maricopa in a north-south alignment. Other major roads include Maricopa-Casa Grande Highway, & SR 238. This rapid

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**Proposal Summary**

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change had presented a number of strategic and logistical challenges, which the City had addressed admirably. Some of those challenges include how to effectively deal with a mounting increase in traffic volume, which logically brings with it increases in traffic congestion and traffic violations (including impaired driving and speed related offenses). Traffic counts shows SR 347 experiences 50,000 trips per day. Prior to July 2007, traffic enforcement in Maricopa was handled by Pinal County Sheriff's Office (PCSO). The rapid growth of the area, however, overwhelmed the amount of law enforcement resources that PCSO had dedicated to the area and the decision was made to form a city police department.

The Maricopa Police Department (MPD) began taking calls for service on July 1, 2007. The staffing at this point included a Chief, Assistant Chief, four sergeants, one detective, eight patrol officers and two traffic officers. The Department grew rapidly and began covering swing shift on October 1, 2007, and graveyard shift on Jan 1, 2008. Currently the Department has 66 sworn employees.

**Problem Statement:**

What problem is your agency looking to solve with this grant? Provide appropriate data to support funding. As Maricopa has grown, so have the needs of MPD. This has resulted in the dedicated traffic unit at MPD being absorbed into patrol which limits the ability of MPD to fully equip officers with the knowledge, skills and equipment needed to complete proper accident investigations. When serious accidents occur in Maricopa, MPD has to routinely call in outside resources to assist with the investigation or complete it utilizing subpar methods. This leads to potential mistakes, miscalculations, and assumptions versus facts to what was the root cause of the accident. The lack of facts leading to a conclusion denies MPD from extremely and essential information that could prevent additional incidents in the future.

In 2010, a serious collision occurred involving several teenage individuals. The crash involved high speeds, alcohol, and resulted in serious brain injuries to both teens involved. Outside resources had to be called in that resulted in one of the major east-west thoroughfares being shut down for over six hours. In 2011, MPD had to complete an investigation into a fatal car-bicycle collision with manual measurements which resulted in the investigation taking longer and resulted in less than optimal measurements. MPD was assisted in the investigation by another agency, but that agency responded the day after to complete the investigation. This is suboptimal as evidence and ground disturbances that could have been vital to concluding the root cause had been disturbed and potentially completely destroyed. In 2014, MPD had a hit-and-run accident that took five hours to investigate and a DUI fatality that took seven hours. In 2015, MPD had a DUI accident/water rescue that took eight hours to investigate. Those are just five instances where MPD had significant time delays in investigating a major accident scene due to the lack of trained staff and lack of proper equipment.

Speeding is a major factor nationwide in motor vehicle fatalities contributing to 1/3 of all fatalities. Last year, MPD issued over 700 speeding citations. Fortunately, Maricopa was able to avoid any speeding related fatalities. However, another leading cause of motor vehicle fatalities is alcohol related. Maricopa experienced three alcohol related fatalities. Understanding that alcohol or speed was a contributing factor to a fatality can lead to more DUI/Speed enforcement details to prevent additional fatalities. Having more information could also lead to improvements of the roadways to prevent even further fatalities.

With the budgetary constraints MPD has been under for additional resources that are considered non-essential, the GOHS funding is a vital resource in securing the needed resources to improve MPD's ability to investigate and find the root cause of accidents which can lead to various traffic improvements that could prevent lives from being lost in the future.

**If you have additional information, please upload:**

Proposal Summary

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**Attempts to Solve Problem**

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**Attempts to Solve Problem:**

Identify past attempts to solve the problem identified in your proposal.

- MPD continuously works with the traffic engineer to analyze and evaluate traffic control devices, to help detect areas needing improvement.
- In 2011, MPD began the process of implementing a DDACTS model to help reduce traffic collisions and crime in identified "Hot Spot" areas within the community. MPD is still in the process of revising collision location information in the Spillman database, so locations can be properly geobased to create accurate pin-mapping, or isolating "Hot Spots".
- In 2008, the Department began the development of a Collision Response Team. At this point, due to team staffing levels and experience levels, team members are not required to be on call at any given time. As team staffing and experience increase, this will likely change.
- In 2009, one officer completed the Accident Reconstruction I & II courses, while 6 officers completed the Advanced Accident Investigation course.
- In 2010, two officers completed a train-the-trainer course to become certified to teach an advanced collision investigation course. This will assist the Department in being able to train its own officers more conveniently.
- In 2011, two officers completed IPTM's 2-week Advanced Collision Investigation course.
- In 2012, two officers completed IPTM's 1-week course on Pedestrian and Bicycle Collision Investigations. (Both officers have since left the department)

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Project Objectives, Methods of Procedure, Performance Measures: Project 1

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**Title:** Project 1

Objectives of the projects in your proposal should follow the SMART method. They should be:

**S = Specific**

**M = Measurable**

**A = Action-Oriented**

**R = Realistic**

**T = Time-Framed**

**Project Objectives:**

The project objectives should be stated in measurable terms directly related to the identified problem, concise and deal with a specific item, realistic, with a reasonable probability of achievement and related to a specific time frame.

The goal of MPD is to train staff and acquire the needed equipment to have a functional accident investigation team that can complete a high quality and timely accident investigation.

The first objective is to provide MPD personnel with Crash Reconstruction training to understand what is needed and how to accurately complete an accident investigation.

The second objective is to increase MPD's ability to complete accident investigations through thoroughly and more effectively through the use of technology.

The third objective is to reduce most accident investigations to one hour or less.

**Method of Procedure:**

Detail how your agency will solve the problem and meet the objectives you have set.

Enhance fatality and serious injury collision investigations capabilities by training MPD on crash reconstruction techniques and procedures.

Enhance the ability of MPD to target in on problematic areas for DUI and Speed related fatalities to deploy additional details through the use of better and more capable technology.

Develop comprehensive community traffic safety prevention projects that employ collaborative efforts in the development and execution of strategic information and education campaigns targeting youth and adults, focusing specific attention to those who engage in high risk behaviors.

To work closely with community based organizations to promote traffic safety programs at both neighborhood and community level.

**Performance Measures:**

Establish measurable goals for your proposal. Example: "To decrease alcohol related fatalities 10% from the 2012 base year average of 250 to 225 by September 30, 2017." "To increase DUI arrests 10% above the 2008 base year average of 5,000 to 5,500 by September 30, 2017."

Your agency should enumerate the objectives of the project in this section. Example: "To participate in 4 DUI Task Forces by September 30, 2017." "To participate in 8 speed enforcement details by September 30, 2017."

By September 30, 2017 have six (6) officers trained on Crash Reconstruction utilizing the equipment acquired

Project Objectives, Methods of Procedure, Performance Measures: Project 1

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by MPD to do so.

By September 30, 2017, the Maricopa Police Department will increase or maintain speed citations by 10% from the 2014 calendar base year total of 1,039.

By September 30, 2017 Maricopa Police Department will reduce or maintain the total number of injury speed related collisions by 10% from calendar year 2014 of 44.

By September 30, 2017, provide educational materials to the residents and visitors of Maricopa through various forms to include brochures, earned media and local cable access channel information as measured by number and types of materials distributed.



## Traffic Data Summary - Law Enforcement

Please include the following traffic data to support the identified problem in your proposal:

Description	(If Available)	2014	2013
	2015		
Sober Designated Drivers Contacted		10	128
<b>TOTAL DUI ARRESTS</b>	<b>0</b>	<b>150</b>	<b>179</b>
Aggravated DUI Arrests		32	37
Misdemeanor DUI Arrests		118	142
Extreme DUI Arrests (.15+)		50	82
DUI-Drug Arrests		31	29
DRE Evaluations		32	32
Under 21 DUI Arrests		4	8
Minor Consumption / Possession Arrests		112	96
<b>TOTAL AGENCY CITATIONS</b>		<b>3530</b>	<b>3327</b>
Criminal Speed Citations		9	54
Aggressive Driving Citations		2	13
Civil Speed Citations		1039	1158
Other Citations(Except Speed)		2480	1945
Child Restraint Citations		36	19
Seat Belt Citations		34	43

Personnel Services

Description

Overtime is being requested to support the additional duties of officers to investigate accidents in Maricopa. The amount being requested is estimated by taking the Lead Sergeant's OT rate (\$57.25) times 100 hours.

Overtime:  $\$57.25 * 100 = \$5,725$

The ERE estimate is composed of Social Security (6.20%), Medicare (1.45%) and Workers Compensation (3.35%).

ERE:  $6.20\% + 1.45\% + 3.35\% = 11.00\%$

ERE Total:  $11.00\% * \$5,725 = \$630$

Total Request = OT (\$5,725) + ERE (\$630) = \$6,355

**Personnel Services:**

**Employee Related Expenses:**

Description	Requested Amount	ERE %	ERE Amount	Overtime Amount
Overtime - Officers to Complete Accident Investigations	\$6,355	11%	\$630	\$5,725
		%	\$0	\$0
		%	\$0	\$0
		%	\$0	\$0
		%	\$0	\$0
		%	\$0	\$0
		%	\$0	\$0
		%	\$0	\$0
		%	\$0	\$0
		%	\$0	\$0
<b>Total:</b>	<b>\$6,355</b>		<b>\$630</b>	<b>\$5,725</b>

Professional and Outside Services

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## Description

Funds are being requested for Professional and Outside Services to cover the cost of training fees for six officers. The officers will be trained on Crash HD Reconstruction and the equipment utilized in doing so. Training is estimated at \$500 per officer.

Description	Amount
Crash HD Reconstruction Training - 6 officers	\$3,000

**Total    \$3,000**

Travel

**Description**

No Request for Travel Costs

**Travel In-State:**

Description	Transportation	Lodging	Per Diem	Misc	Amount
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
<b>Total:</b>					<b>\$0</b>

**Travel Out-of-State:**

Description	Transportation	Lodging	Per Diem	Misc	Amount
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
<b>Total:</b>					<b>\$0</b>



Capital Outlay

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**Description**

Funds are being requested to procure the needed Vehicle Accident Investigation equipment. The estimated cost is \$25,000. Estimates include tax and shipping.

Description	Quantity	Price Per Unit	Tax	Shipping	Amount
Vehicle Accident Investigation equipment	1	\$25,000.00	\$0	\$0	\$25,000
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
					\$0
<b>Total</b>					<b>\$25,000</b>

## Total Estimated Cost

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<b>Budget Item</b>	<b>Amount</b>	
Personnel Services	\$5,725	
Employee Related Expenses	\$630	11%
Professional and Outside Services	\$3,000	
Travel In-State	\$0	
Travel Out-of-State	\$0	
Materials and Supplies	\$0	
Capital Outlay	\$25,000	
<b>Total Estimated Cost</b>	<b>\$34,355</b>	