

PSAP Grant Program Grant Ranker

View Application--83--Bath County Mapping Project

Grant Period: 2009

Tier: Strengthen current equipment and service delivery capability by upgrading existing wireless E-911 related equipment or services (**STRENGTHEN**)

Grant Program: Enhancement **Grant Type:** Individual PSAP

Priority: Parcel mapping (**PARCEL**)

Primary PSAP Applicants: Bath County

Jurisdictions Served: Bath

Project Director:

Bonnie Johnson
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Project Description:

Bath County has identified GIS mapping needs that will be crucial for proper service and response to wireless callers in an emergency. The County's plan of action to improve response consist of creating address structures and updating parcel maps along with purchasing the required hardware and/or software needed for the project. Since the County is extremely rural, accurate parcel mapping is more advantageous than in an urban area. Bath County is 540 square miles with approximately 89% of this area comprised of forest and mountainous terrain. The County attracts thousands of visitors each year due to well known resort and recreational facilities. Accurate parcel mapping with proper attributes will offer valuable assistance during emergency situations.

Total Project Cost \$141,275.49

Amount Requested: \$113,020.39

Matching Funds: \$28,255.10

Additional Local Funds: \$0.00

Statement of Need:

Bath County is requesting grant funding to improve GIS related services that will assist 911 dispatchers accurately locate wireless callers. The County is in the process of implementing an E-911 facility with modern equipment and technology. The County has performed a thorough review of current map data to evaluate the need for updates and features that will adequately provide emergency response within our rural county. This review has identified several key elements that will improve response and offer its citizens and visitors the same level of service and assistance that other localities provide. The County needs

to update parcel mapping in order to accurately build upon the current and future data layers needed for proper call processing. Since Bath County is very rural with mountainous terrain, parcels are relied upon for call processing more than urban localities. The County also needs to identify and create building structures and contours. The development of this mapping data will greatly improve response for locating wireless callers within its jurisdiction.

Project Impact:

This project will improve the public safety welfare for all citizens and visitors during an emergency. Accurate and crucial map data and maintenance will allow the 911 dispatcher to locate and respond to wireless calls for assistance.

Consequence of Not Receiving:

Bath County has limited revenue to allocate toward this project. The plan to improve operational services will be delayed if this project is not funded by the Wireless Board.

Part of Long Term or Strategic Plan?: Yes

Likelihood of Completion Unfunded?: 0%

Other Available Funding Sources?: No

Percent of Grant Funding Requested To Total Funding Cost?: 80%

Is Project Locally Sustainable?: Yes

Comprehensive Project Description:

Bath County is currently working with Timmons Group and the Central Shenandoah Planning District Commission (CSPDC) to identify and prioritize GIS needs and plan for future maintenance of all mapping data. Since Bath County is a very rural area, responding to wireless emergency calls for help can be challenging. Therefore, each project item requested is part of the overall plan to continue effective response to wireless emergency calls. The County is taking every step to increase the effectiveness of the wireless E-911 services. The County is working in partnership with the CSPDC and Timmons to assess and make recommendations for proper GIS updates to current data. This assessment has identified key components required to facilitate proper response within a rural county. Parcel updates and clean up will be the first step toward developing a system that is reliable and promotes new technology. A new GIS server will need to be purchased to store the mapping data and continue with ongoing maintenance. Bath County will also be join efforts and utilize valuable resources within the CSPDC for proper data collection and retrieval. The partnership between the two will protect the County's investment and continue to plan for future needs. Many additional layers have been recognized by the workgroup to aid and improve emergency services response. Upon notification of funding approval, the County will proceed to obtain formal budget quotes and coordinate purchase and development immediately after July 1, 2008. The local match requirement will be available in the County's budget on July 1, 2008.

What type of interface or compatibility solution will be used between existing equipment and/or software and that which you intend to purchase?:

Bath County has thoroughly reviewed and planned for the updates and future mapping needs. Part of this project request consist of purchasing adequate hardware and software that will allow for timely updates and ongoing maintenance for addressing and parcels. Since the CSPDC will be working with Bath County to perform these services, a reliable high speed connection is required to relay updates and offer technical assistance as needed for the County. The initial connection and first year cost is part of the cost analysis for the success of this project.

What is the overall relationship of your project to your PSAP or locality's established long-range future plans?:

This project will set a precedent for Bath County working in collaboration with other entities to improve services now and in the future. It has identified areas where Bath County can continue to upgrade services while keeping yearly cost to a minimum with proper partnerships and communication.

How will the equipment purchased will support future technologies for PSAP readiness?:

This map project and updates will allow the County to move forward with the implementation of Enhanced 9-1-1 with the best possible data. The County recognizes the need to utilize accurate data to safeguard the

overall goal for E-911 response.

Budget and Budget Narrative:

Bath County has researched or requested budgetary pricing for all the projects requested. Listed below are each project item and the estimated cost to upgrade or purchase the equipment. Project Item Description - Estimated Cost Parcel mapping conversion, training and GIS server: \$75,760.99 Map Addressing: \$6300.00 Purchase building footprints for structures w/ setup cost: \$5,593.00 Purchase contours to improve response for Bath County terrain: \$24,300.00 Purchase GIS workstations and GPS units for proper addressing and updates, initial DSL connection: \$29,321.50 _____ Total Cost: \$141,275.49 Funding Request (80% of project): \$113,020.39 Bath County Local Match (20%) \$ 28,255.10 BUDGET NARRATIVE Bath County's budget is limited due to several factors. The County is a rural community with little business revenue and an extremely low tax base. Therefore, revenue earnings are low compared to other counties throughout the Commonwealth. The County has also learned it is not receiving the uniform E-911 tax collected by the State due to an oversight in the new tax law. This accounts for a loss of approximately \$40,000 in local funds each year according to the current number of wireline access lines. The County relies heavily upon Federal and State funding to assist with emergency service needs. Therefore, grant funding for the requested projects is extremely helpful for a community with limited revenue opportunities.

Ongoing Expenses:

Any maintenance cost after first year will be absorbed into Bath County Operations Budget. After this fiscal year request, the County will budget for the yearly DSL connection fee.

Evaluation:

This project will clean up current parcel data and create valuable links and data for proper call processing and location identification. It will also create address points from structures to aid in determining a wireless caller's location. The County will work with Timmons and the CSPDC to ensure accurate updates and improve GIS data and services. The project will be maintained and evaluated with a collaborated effort among all entities involved.

What are the short term, intermediate, and/or long-term outcomes desired for this project?:

The main short term goal for this project is parcel clean up in order to input accurate data into the mapping system for Enhanced 911. The purchase of footprints and contours will allow the County to possess all necessary attributes to properly process wireless calls for service. The long-term goal is to perform routine and timely updates and maintenance to keep the County mapping data accurate and compatible with other applications.

What measures will be used to determine outcomes?:

Bath County personnel and the CSPDC will continue to evaluate current and future needs that will enhance the reliability of map data. The two will work closely together to determine any areas that need attention and determine the best solution that will improve services.

How will data be collected and how will evaluations be conducted?:

Data will be collected by generating comparison reports and conducting regular scheduled meetings.

How will data be presented?:

Data will be presented in meetings and through written reports.

Attachments

Copy of 08-09 Budget Items_O.xls
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Budget for Bath County Wireless E-911 PSAP Grant 2008-09

CSPDC Labor and Expenses

Parcel Conversion

GIS Labor				\$29,950.00
Executive Assistance				\$4,158.00
Accounting				\$180.00
Travel				\$1,673.25
Printing				\$8,400.00
Telecomm				\$1,749.83
Admin				\$3,732.96

Customize Map Display

Customization				\$7,487.50
Training (Interact)				\$600.00

Equipment and Training

Server	Dell 2900 III (w/ installation)			\$7,000.00
GIS Software				\$8,679.45
Training	ESRI Training			\$2,150.00
			Sub-total	\$75,760.99

Timmons Group

RCLs			\$1400/per day	
Addressing			\$50/per address	
	Based on last years costs		Sub-total	\$6,300.00

VGIN

Setup Fee				\$3,000.00
Structures				\$2,593.00
Contours				\$24,300.00
			Sub-total	\$29,893.00
Bath County				
3 Workstations w/ monitors	Em. Staff			\$5,100.00
Laptop	Em. Staff			\$1,650.00
2 Printers	Coor. & Dir. Offices			\$857.50
2 GPS Units w/ Training	Addressing			\$14,530.00
DSL	Coor. & Dir. Offices	TDS	1 yr w/ installation	\$2,000.00
Field Address Verification	Field Address Verification			\$5,184.00
			Sub-total	\$29,321.50
			TOTAL	\$141,275.49