

PSAP Grant Program Grant Ranker

View Application--145--Parcel Mapping - Conversion / Enhancement

Grant Period: 2010

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: GIS: low priority (refer to GIS-related Grant Request Prioritization Matrix for a description of GIS projects that would have a low funding priority) (**GIS LOW PRIORITY**)

Primary PSAP Applicants: Richmond County

Jurisdictions Served: Richmond, County of
Warsaw, Town of

Project Director:

Christopher H. Jett
Technology Director (E-911 Coordinator)
101 Court Circle, P.O. Box 1000, Warsaw, VA 22572
804-333-1100 (phone)
804-333-3408 (fax)
cjett@co.richmond.va.us

Project Description:

Total Project Cost \$36,347.00

Amount Requested: \$36,347.00

Statement of Need:

Richmond County is a rural county on Virginia's Northern Neck, with a significant number of dwellings that are used as secondary/weekend homes without landline telephone service. This, along with the fact that the county-wide housing density is less than 20 dwellings per square mile, means that there is a large portion of the county (and a significant number of structures) about which the PSAP has no way of knowing the current ownership - information that could be very useful during emergency situations. The needed ownership information is contained within the County's parcel data layer, but this data is currently unavailable to the PSAP for several reasons. The current maintenance of the parcel data is outsourced to MSAG Data Consultants, with a turnaround time of more than a year from the time a new property survey is recorded to the time that the updated parcel boundary is available within the County's GIS. In addition, the parcel data is currently maintained in outdated ArcInfo coverage and shapefile formats and is not able to be adequately displayed by the PSAP's Eagle mapping system. Richmond County was awarded funding from the FY09 PSAP Grant Program for the conversion of its planimetric mapping data (such as road centerlines, address points, structure footprints, and hydrant locations) to a geodatabase format, as well as the hardware and software (including ESRI's ArcEditor and MSAG's OfficeGIS) that will enable the in-house maintenance of that data into the future. This FY09 funding did not, however, allow for the conversion of the County's parcel data to a geodatabase format so that it may be maintained using the same OfficeGIS

software, nor for the integration of this parcel data into the PSAP's Eagle mapping system. The E-911 Wireless Services Board currently provides Richmond County approximately \$45,000 annually, in addition to the FY09 grant award. However, this funding is already being utilized to offset the maintenance costs of the County's E-911 CPE, voice logging recorder, and Eagle mapping software maintenance, as well as personnel costs for dispatchers and IT support staff. Parcels (along with MSAG valid addresses applied) are listed as priority 8 (GIS: low priority) under the FY10 PSAP Grant Enhancement Program. Without this requested funding, Richmond County will be unable to make these desired enhancements to its parcel data maintenance system as well as be unable to make this beneficial information available within the PSAP.

Comprehensive Project Description:

Richmond County wishes to provide parcel data (with associated real estate ownership information and MSAG valid addresses) to its PSAP for use during emergency response. Currently, this information is completely unavailable to the PSAP, which serves a rural county on Virginia's Northern Neck with a county-wide housing density of less than 20 dwellings per square mile, with a significant number of dwellings that are used as secondary/weekend homes without landline telephone service. This results in a large portion of the county (and a significant number of structures) about which the PSAP has no way of knowing the current ownership - information that could be very useful during an emergency. The maintenance of the County's parcel data, in outdated ArcInfo coverage and shapefile formats, is currently outsourced to MSAG Data Consultants. With this grant request, Richmond County wishes to (in addition to making the real estate ownership information available within the PSAP) cease the outsourced maintenance of the parcel data by MSAG Data Consultants and assume the responsibility for maintenance of this data in-house. For this maintenance, the County wishes to utilize the OfficeGIS software package funded through the FY09 PSAP Grant Program - allowing for all of the PSAP's mapping data to be maintained with the same software and support staff. In order for this to take place, however, the County's current parcel data must be converted to a geodatabase format - a cost estimated at \$29,691. As part of this conversion process, the County also wishes to have MSAG Data Consultants add a field to its current parcel data that will be populated with MSAG valid physical addresses where they exist on a parcel. Along with this parcel data conversion, the County also wishes to have modifications made to the PSAP's Eagle mapping system in order to allow the parcel data and associated MSAG valid physical addresses to be easily utilized by the dispatchers - an additional cost estimated at \$5,120. Finally, staff training on the maintenance of the parcel data within OfficeGIS is estimated at an additional \$1,536.

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

The current Richmond County parcel data is maintained in outdated ArcInfo coverage and shapefile formats and the maintenance process is cumbersome and inefficient. With the award of the requested \$36,347, Richmond County will not only be able to provide needed real estate ownership information to its PSAP, but will also be able to complete the modernization and consolidation of its mapping data maintenance system utilizing up-to-date ESRI data formats and software - specifically ESRI's ArcEditor software (with MSAG's OfficeGIS extension) and a geodatabase format. By having all of the PSAP's mapping data maintained in a geodatabase format, the County will be in a place to easily take advantage of future technologies that may require this format.

Budget and Budget Narrative:

Richmond County is requesting a total of \$36,347 in grant funds to cover services that will be provided by MSAG Data Consultants - specifically to convert the County's parcel data to a geodatabase format while applying MSAG valid addresses (a cost of \$26,691), update the PSAP's Eagle mapping system so that it will properly display the converted parcel data and MSAG valid addresses (a cost of \$5,120), and staff training (a cost of \$1,536) on the maintenance of the converted parcel data utilizing the OfficeGIS software package funded through the FY09 PSAP Grant Program.

Evaluation:

Evaluation of the success of Richmond County's Parcel Mapping Conversion/Enhancement project will include demonstration that the proposed parcel data conversion and application of MSAG valid addresses has been completed and that the data and ownership information is being properly displayed for the dispatchers within the Eagle mapping system. A secondary measure of the success of the project will be the ability to reduce the time between new subdivision plats being recorded with the County and that updated parcel information being provided for display to the dispatchers.

Attachments

Microsoft Word - Richmond VA GIS Parcel Conversion1027081.pdf



October 27, 2008

Chris Jett
Planning Director
101 Court Circle
PO Box 1000
Warsaw, VA 22572

Quotation for full GIS parcel conversion for Richmond County's tax parcels.

Dear Chris:

The following quotation is in response to your request for pricing relating to the full GIS conversion of Richmond County's tax maps for maintenance in conjunction with OfficeGIS.

This conversion will include all parcels, subdivisions, inserts, symbology, and annotation that currently exist in the Richmond County maps. This conversion will include the ability to plot full scale and 11x17 scale insert and main map sheets directly from ArcGIS. This conversion will also include a MSAG validated address field for parcels that contain a 911 address.

This conversion will also include the ability to add and view this data in the Richmond County PSAP using the Eagle Mapped ALI software. MSAG will also provide training for the ongoing maintenance of the tax maps in ArcGIS by Richmond County staff.

SCOPE OF SERVICES:

- Provide GIS data conversion of Richmond County Tax Maps in geodatabase format.
- Provide the ability for Richmond County to print all inserts and full scale maps in both 11x17 and 1:600 scale formats.
- Provide an MSAG validated address field for parcels on which there is an addressed structure.
- Provide Richmond County the ability to view and update the converted parcel map data in Eagle Mapped ALI.
- Provide Tax Map maintenance training.

QUOTED COST:

Description	Cost
GIS Data Conversion	\$29,691.00
Eagle Mapped ALI Integration	\$5,120.00
Parcel Maintenance Training	\$1,536.00
Total	\$36,347.00

A detailed work order will be sent to Richmond County for signature in accordance with the Master Services Agreement between MSAG and Richmond County upon acceptance of this quote. If you have any questions about the above quote, please feel free to contact me at (540) 829-5670 or by email at wanda.ennis@msag.com

Sincerely,



Wanda Ennis
Account Executive