

Draft Grant Application

Virginia PSAP Grant Program

20 July 2016

Prepared for Powhatan County



Prepared by



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Introduction

This document includes background information on the PSAP grant program, the grant-related services WorldView Solutions proposes to provide, and a draft grant application for review and discussion. The PSAP Grant Program is a multi-million-dollar grant program administered by the Virginia E-911 Services Board. The purpose of the program is to financially assist Virginia primary Public Safety Answering Points (PSAP) with the purchase of equipment and services that support the continuity and enhancement of wireless E-911. Any Virginia primary PSAP that supports wireless E-911 is eligible to apply for and receive these funds either as a standalone applicant or as part of a regional initiative or a consolidation project.

The FY18 PSAP Grant Application Cycle starts July 1, 2016 and concludes on Sept. 30, 2016 at 5:00 p.m.

Grant Program Facts

Grant guideline document link:

https://www.vita.virginia.gov/uploadedFiles/VITA_Main_Public/ISP/E-911/Grants/FY18GLFIN.pdf

- The PSAP Education Program is fully funded *before* Shared Services and Individual grant programs, but awards are capped at \$2k - \$3k per jurisdiction.
- Individual PSAP program grants are capped at \$150k.
- Shared services project grants are capped at \$175k *per participating PSAP*.
- All applications submitted by primary PSAPs for these grant programs must include:
 - a project description
 - project goals and objectives
 - an implementation plan
 - a budget
 - a budget narrative
 - an evaluation plan
- The grant award period for individual PSAP and shared services projects is twenty-four months.
- With the exception of Physical Consolidation Feasibility Study projects, there is no local match requirement. PSAPs are ineligible for other awards until physical consolidation projects have been closed out.
- NG 9-1-1 GIS is second only to call handling equipment in the nine listed priorities for shared services and individual PSAP grants, but tier trumps priority, so the actual ranking system is somewhat complicated. Here is the ordered list of tiers:
 - Out of Service
 - Non-vendor Supported
 - Technically Outdated
 - Strengthen
- GIS project assessment guidelines were modified for the last grant cycle to focus on NG9-1-1 data preparation (NG9-1-1 GIS priority):
 - Items that remain eligible for funding in the GIS Matrix are:
 - data production (enterprise software/hardware, GIS tools, and data)
 - data transfer (map data transfer to/from the PSAP)
 - Data production and data transfer projects are eligible for funding under the 9-1-1 GIS Equipment and Services priority
 - Although 9-1-1 mapping display projects are no longer included in the GIS Matrix, these types of projects are still eligible for funding under the 9-1-1 Mapping System priority

Proposed Services

WorldView Solutions proposes to provide PSAP grant application preparation assistance. Working in collaboration with designated PSAP and locality representatives, WorldView will draft a PSAP grant application that focuses on GIS-related NG9-1-1 data production, reconciliation and transfer tasks. WorldView will provide these grant preparation services at no charge and no obligation to the locality. The locality assumes responsibility for obtaining administrative approvals, submission of the final grant application to the Virginia Information Technology Agency's (VITA) Integrated Services Program (ISP), and in the event of an award, for assuring compliance with all grant terms and conditions.

Prepare GIS Data for NG9-1-1

- Validate centerlines and format for NENA standards compliance
 - Data model
 - Nomenclature
 - Missing attributes
- Reconcile / validate address data
 - Site address vs. centerlines based on fishbone analysis
 - Address ranges based on data reviewer results
 - Reconcile MSAG with centerline address ranges
 - Reconcile (Automatic Location Information) ALI with centerline address ranges
 - Reconcile address points with phone company number listings
- Intra-jurisdictional boundary alignment
- Update / create Emergency Service Number boundaries
- Addressable structure field verification
- Map ancillary thoroughfares (main paths to commercial, residential and institutional structures)
- Establish, automate and document maintenance procedures
 - GIS-ALI-MSAG data maintenance
 - Synchronization
 - Validation

Draft Grant Application

The following PSAP grant application outline was derived from the Virginia Information Technology Agency's (VITA) Integrated Services Program (ISP) PSAP Grant Program FY18 Draft Grant Application document published via the grant program website:

<http://www.vita.virginia.gov/isp/default.aspx?id=8578>

Project Title

Preparation of Public Safety GIS and Location Data for NG911 Support

Grant Applicant Profile / Project Contact

PSAP/HOST PSAP NAME
CONTACT TITLE
CONTACT FIRST NAME
CONTACT LAST NAME
ADDRESS 1
ADDRESS 2
CITY
ZIP CODE
CONTACT EMAIL
CONTACT PHONE NUMBER
CONTACT MOBILE NUMBER
CONTACT FAX NUMBER
REGIONAL COORDINATOR

Host PSAP & Participating PSAPS / Localities

HOST PSAP
PARTICIPATING PSAPS

Grant Type

Individual PSAP *or* Shared Services

Individual PSAP

Tier

Strengthen or Technically Outdated?

Strengthen



Priority / Project Focus

The focus of this project is to augment, update and remediate public safety GIS and other location-related data to enhance current and anticipated public safety operations and establish ongoing methodologies and procedures to position its public safety datasets for persistent NG911 readiness and alignment with the Commonwealth of Virginia Statewide 9-1-1 Comprehensive Plan.

Financial Data

Amount Requested:	\$142,380.00
Total Project Cost:	\$142,380.00

Project Description

Provide a detailed description of the project for which funding is being sought, including the impact on operational services and consequences of not receiving funding, the relationship to local strategic and capital improvement plans, and sustainability.

NG9-1-1 Data Readiness

This set of proposed tasks is focused on evaluating, standardizing, updating, correcting and synchronizing key public safety datasets, including that of the GIS, MSAG and ALI. To this end, the following work is proposed to be performed:

Data Standardization

Road centerline and site address GIS data models and content will be evaluated and modified for compliance with current *NENA Standard Data Formats for 9-1-1 Data Exchange & GIS Mapping* (NENA-02-010, Version 9, December 16, 2010, or latest available). Where necessary, configuration changes will be made to current PSAP mapping applications to accommodate the new model, or if configuration changes cannot be readily made, extract / transform / load (ETL) operations will be established, automated and tested to retain compatibility with legacy systems. This will ensure that critical GIS data is maintained in a NENA-compliant format for future use—in, for example, a statewide or regional Spatial Database Management System (SDBMS)—even if other PSAP systems currently in operation are not. As part of this task, these datasets will be checked for completeness and accuracy as well as validated and formatted for compliance with the abovementioned NENA standard.

Geospatial Data Validation

Using automated GIS data analysis tools, centerline geospatial data will be analyzed for fundamental geometric and attributional quality. Issues identified by the extension will be investigated, exceptions noted, and valid errors corrected. Validation checks to be performed include, but are not limited to the following:

Address Points	
Attribution	Geometry
<ul style="list-style-type: none">• Unique feature IDs• Non-zero, non-null address / street name• Unique, non-duplicate addresses	<ul style="list-style-type: none">• Valid, non-empty geometry• Unique, non-duplicate features• No multipart features

Centerlines	
Attribution	Geometry
<ul style="list-style-type: none"> • Persistent use of unique IDs • Non-duplicate address ranges • Non-zero / non-null address range values • Address / line directionality agreement • Non-overlapping address ranges • Side of road odd/even address agreement 	<ul style="list-style-type: none"> • Valid, non-empty geometry • No multi-part features • Unique, non-duplicate features • Intersection snapping and segmentation • Gap / dangle validation • Connectivity

Address Data Validation

Various authoritative repositories for public safety addressing information will be compared, reconciled, and synchronized to assure consistency between them. More specifically, the following tasks are proposed to be completed:

- **Site Address / Centerline** – For this validation check, tabular address data derived from the site address GIS feature class will first be geocoded against GIS centerlines with a very high (98-100%) minimum match score threshold, then reviewed. Address instances where that fails to find a match or find multiple matches will be investigated and corrections made to the appropriate feature class, then verified through re-geocoding. Following these fundamental geocoding checks, addresses will be assessed using the results of “fishbone” analysis. Under this method, GIS-sourced site address attribute table values are geocoded against site addresses, then the each “interpolated” address range-based location is connected to its corresponding mapped site address points via a straight line. The length and arrangement of these lines will then be used to identify potential problems such as out-of-sequence addresses, address range irregularities, side-of-road inconsistency, and erroneous geocoder location assignments. Flagged addresses will then be investigated, and where appropriate, corrections made to relevant features. Technically correct, but non-standard or irregular addresses will be referred for review and determination of action by public safety and addressing managers.
- **MSAG / GIS** – Street name and address range information stored in the Master Street Address Guide (MSAG) will be compared with corresponding values in GIS road centerlines. Instances of disagreement between the two will be investigated and inaccuracies corrected in the appropriate dataset.
- **ALI / GIS** – Addresses stored in the Automatic Location Information (ALI) database will be geocoded against GIS site addresses and road centerline address ranges with a very high (98-100%) minimum match score threshold, then reviewed. Disparities between the two will be investigated and inaccuracies corrected within the appropriate database(s).

ESN / ESZ Reconciliation

Emergency Service Number (ESN) information stored in the MSAG will be compared against mapped service areas and first due emergency service zone assignments. Discrepancies will be noted, investigated and corrected within the appropriate dataset(s).

Addressable Structure Field Verification

In order to ensure that the site address GIS feature class is up-to-date and accurate, all addressable structures will be visually field verified. During the verification process, instances where mapped data deviates from observed real-world conditions will be noted, investigated if necessary, and corrections applied to the data.

Ancillary Thoroughfares

As a supplemental navigational aid to public safety personnel with access to GIS mapping resources, centerlines representing key ancillary roadways will be reviewed, and where necessary, mapped. These key pathways will consist primarily of the most direct privately or publicly maintained thoroughfares that lead to the entrances and loading docks of major retail and commercial buildings, industrial facilities and institutions.

Intra-jurisdictional Boundaries

Geospatial data pertaining to jurisdictional boundaries, and emergency service zones will be evaluated for compliance with geometric and topological rules (e.g., complete coverage; slivers, overlaps, or duplicate features), as well as for consistency with MSAG and road centerline address ranges. Geometric and topological errors will be corrected and discrepancies between adjacent boundaries will be investigated and corrected to ensure accurate representations of boundaries.

Maintenance Processes & Procedures

To guarantee the continued value of the investment made in the abovementioned data improvements and dataset synchronization efforts, it is essential to implement sustainable practices for their ongoing maintenance. To this end, a set of workflows, policies and procedures will be established and documented to enable ongoing system maintenance. Wherever practical, these procedures will employ automation through scripting and models, as well as data review tools, to simplify maintenance tasks, minimize manual effort and ensure the quality and consistency of relevant public safety datasets.

Impact & Consequences

*Provide a detailed description of the project for which funding is being sought, including **the impact on operational services and consequences of not receiving funding**, the relationship to local strategic and capital improvement plans, and sustainability.*

Impact

This project will have an immediate and enduring positive impact on the public safety operations of the PSAP by:

- improving accuracy and consistency within and between public safety datasets, including GIS, MSAG and ALI
- enhancing analytical capabilities
- designing, automating and documenting data maintenance methodologies
- sustainably preparing key PSAP datasets for eventual transition to NG9-1-1

Consequences

While there is no anticipated worsening of critical public safety services, if this project is not funded, it would represent a missed opportunity to make meaningful improvements to current PSAP operations and sustainably to prepare the PSAP for integration into a statewide NG9-1-1 system, an expenditure that will, in all likelihood, need to be made eventually. Completing this work now will allow the PSAP to reap the rewards of an improved dataset sooner rather than later.

Local Plans & Sustainability

*Provide a detailed description of the project for which funding is being sought, including the impact on operational services and consequences of not receiving funding, **the relationship to local strategic and capital improvement plans, and sustainability.***

Local Plans

<PSAP REPRESENTATIVE SUPPLIED INFORMATION>

Sustainability

The plan for this project includes tasks associated with the establishment of data maintenance procedures and automated processes designed to minimize labor and support a persistently high degree of dataset currency and accuracy. Furthermore, funds have been requested to provide for five (5) years of system maintenance and support, which will allow the PSAP time to plan and budget for the assumption of system maintenance financial obligations thereafter.

Justification

Describe how this project addresses locally identified need(s) and supports the Virginia 9-1-1 Comprehensive Plan:

This project meets current locality needs by improving the accuracy and analytical capabilities of its public safety datasets, with immediate consequent enhancement of its capability to protect human lives and property. At the same time, these improvements better integrate GIS into PSAP operations and position it to more smoothly transition into a statewide Next Generation 9-1-1 system. These outcomes are consistent with Goals 3 and 7 of the Commonwealth of Virginia's *Statewide 9-1-1 Comprehensive Plan* and findings of the Statewide NG9-1-1 Feasibility Study.

Project Goals & Objectives

Describe the objectives that will support the goals identified above.

Project Goals

- Prepare public safety datasets for future NG9-1-1 integration
- Improve the overall accuracy and consistency of public safety data
- Enhance the analytical capabilities of the PSAP
- Provide for ongoing maintenance and quality of public safety datasets

Project Objectives

The following are goals and objectives of this project:

- Establish a NENA standards compliant public safety geospatial dataset
- Create consistency and parity between GIS, MSAG and ALI databases
- Institute sustainable processes for continued data maintenance and synchronization

Implementation Plan

IMPLEMENTATION PLAN SHARED SERVICES & INDIVIDUAL PSAP APPLICATIONS

For each applicable phase of the project, indicate the planned completion date.

PROJECT PHASE	PLANNED COMPLETION DATE
INITIATION – Project concept is documented, local board or governing authority approval or endorsement is received, PSAP grant application is filed, local budgets are obtained, appropriated grant funds are approved, and budgetary estimates are obtained.	05 / 31 / 17
DESIGN/PLANNING – Requirements are documented, components to be purchased are identified, and general design is documented.	06 / 30 / 17
ACQUISITION – RFP (or other bid related processes) is drafted, proposals are evaluated, contract is signed, purchase orders are issued, and quotes are obtained.	08 / 31 / 17
IMPLEMENTATION – Purchased components are delivered and installed and training is performed.	12 / 31 / 18
TESTING/COMPLETION – Performance of system/solution is validated and system/solution goes “live.”	02 / 31 / 18

Budget & Budget Narrative

List the planned expenditures to be made with grant funds. Briefly explain the reason for each requested budget item and provide the basis for its cost. In addition, if contingency cost has been added, please identify the amount.

NOTE: In lieu of a line item breakdown, an itemized cost schedule or detailed vendor prepared quote may be submitted as an attachment, but a narrative is still required. However, budgetary quotes received from a particular vendor(s) during the application process do not commit the PSAP to use that vendor(s) once the grant is awarded.

Evaluation

How will the project as identified in the project description be evaluated and measured for achievement and success?

The success of the project will be defined through the following milestones:

- Use of a geospatial consultant for planning and execution of project tasks
- Review and acceptance of design documents
- Review and acceptance of pilot, draft and final deliverables
- Validation testing of data in existing PSAP systems

Cost Estimate

The following is a non-binding cost estimate for all services proposed to be performed by WorldView Solutions in support of the draft grant application above, and is inclusive of all anticipated travel, time and materials.

Task	Estimated Cost
1. Validate Centerlines and Format for NENA Standards Compliance	\$8,800.00
2. Reconcile / Validate Address Data	\$19,600.00
3. Intra-Jurisdictional Boundary Alignment	\$2,180.00
4. Update / Create Emergency Service Number Boundaries	\$3,800.00
5. Addressable Structure Field Verification	\$41,000.00
6. Map ancillary thoroughfares	\$12,200.00
7. Establish, automate and document update procedures	\$14,800.00
8. Maintenance and Support for 5 years, including addresses, centerlines, ancillary roads, ESNs and ETLs	\$40,000.00



FY18

PSAP GRANT PROGRAM APPLICATION



VIRGINIA INFORMATION
TECHNOLOGIES AGENCY
Integrated Services Division



FY18 PSAP GRANT PROGRAM APPLICATION

HOW TO APPLY/DEADLINE

The grant application is available and accessible from VITA ISP's website (<http://www.vita.virginia.gov/isp/default.aspx?id=8578>). Upon completion of the application, it is to be submitted to the electronic mailbox for grant applications - psapgrants@vita.virginia.gov. Any supporting documentation must also be submitted along with the application when making your grant application submission.

After the close of the grant application cycle, a Grant ID and email receipt notification will be sent to the e-mail address listed on the application received.

All funding requests must be submitted using the grant application. Technical assistance is available from VITA's Public Safety Communications (PSC) staff throughout the grant process. The FY18 PSAP Grant Application Cycle starts July 1, 2016 and concludes on September 30, 2016 at 5:00 pm.

ALL APPLICABLE SECTIONS MUST BE COMPLETED IN ITS ENTIRETY OR THE APPLICATION WILL BE CONSIDERED INCOMPLETE AND NOT ACCEPTED FOR CONSIDERATION.



FY18 PSAP GRANT APPLICATION

PROJECT TITLE

2T

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Powhatan County

CONTACT TITLE: E-911 Director

CONTACT FIRST NAME: Thomas

CONTACT LAST NAME: Nolan

ADDRESS 1: 3910 –C Old Buckingham Rd

ADDRESS 2: 2T

CITY: Powhatan

ZIP CODE: 23139

CONTACT EMAIL: tnolan@powhatanva.gov

CONTACT PHONE NUMBER: 804-598-5677

CONTACT MOBILE NUMBER: 804-381-8538

CONTACT FAX NUMBER: 804-598-1739

REGIONAL COORDINATOR: Sam Keys

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

GRANT TYPE

Individual PSAP

Shared Services



TIER

- Out of Service
- Technically Outdated*
- Not Applicable
- Non-Vendor Supported*
- Strengthen

If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.

VERSION: _____ # YEARS of HARDWARE/SOFTWARE: _____

PRIORITY/PROJECT FOCUS

FINANCIAL DATA

Amount Requested: \$ \$142,380.00

Total Project Cost: \$ \$142,380.00



PROJECT DESCRIPTION

Provide a detailed description of the project for which funding is being sought, including the impact on operational services and consequences of not receiving funding; the relationship to local strategic and capital improvement plans; and sustainability:

Powhatan County understands the critical nature of ensuring the GIS data used by the PSAP and public safety responders is accurate and up to date. The County is seeking grant assistance to hire World View Solutions or other qualified geospatial consultant for this project. The consultant will work with County GIS employees to augment, update and remediate public safety GIS and other location-related data to enhance current and anticipated public safety operations and establish ongoing methodologies and procedures to position its public safety datasets for persistent NG911 readiness and alignment with the Commonwealth of Virginia Statewide 9-1-1 Comprehensive Plan.

This set of proposed tasks is focused on evaluating, standardizing, updating, correcting and synchronizing key public safety datasets, including that of the GIS, MSAG and ALI.

Powhatan County is currently in the process to replacing the legacy, antiquated CAD system. Current CAD systems allow functions options such as interactive event dispatch by GIS location. Ensuring the GIS is accurate will provide the County PSAP Communications Officer to dispatch first responders who are in close proximity to the citizen(s) in need of emergency assistance.

This project will prepare the PSAP for integration into a statewide NG9-1-1 system, an expenditure that will, in all likelihood, need to be made eventually. Completing this work now will allow the PSAP to reap the rewards of an improved dataset sooner rather than later.

It is the intent of the County of Powhatan to update the current GIS database and to continue to ensure the GIS system meets the current needs of our communications & emergency response personnel, VITA guidelines and be



A large, empty rectangular box with a thin black border, occupying the majority of the page. This area is typically used for providing detailed information, such as a project description, budget details, or supporting documents, in a grant application.



PROJECT GOAL

Describe how this project addresses locally identified need(s) and supports the Virginia 9-1-1 Comprehensive Plan:

2T

Prepare public safety datasets for future NG9-1-1 integration

- Improve the overall accuracy and consistency of public safety data
- Enhance the analytical capabilities of the PSAP
- Provide for ongoing maintenance and quality of public safety datasets

PROJECT OBJECTIVES

Describe the objectives that will support the goals identified above:

- Establish a NENA standards compliant public safety geospatial dataset
- Create consistency and parity between GIS, MSAG and ALI databases
- Institute sustainable processes for continued data maintenance and synchronization



SHARED SERVICES (if applicable)

Describe the relationship of the project to the participating PSAPs:

2T

Describe the intended collaborative efforts and resource sharing opportunities:

2T



**IMPLEMENTATION PLAN
SHARED SERVICES & INDIVIDUAL PSAP APPLICATIONS:**

For each applicable phase of the project, indicate the planned completion date.

PROJECT PHASE	PLANNED COMPLETION DATE
INITIATION – Project concept is documented, local board or governing authority approval or endorsement is received, PSAP grant application is filed, local budgets are obtained, appropriated grant funds are approved, and budgetary estimates are obtained.	05 / 31 / 17
DESIGN/PLANNING - Requirements are documented, components to be purchased are identified, and general design is documented.	06 / 30 / 17
ACQUISITION - RFP (or other bid related processes) are drafted, proposals are evaluated, contract is signed, purchase orders are issued, and quotes are obtained.	08 / 31 / 17
IMPLEMENTATION - Purchased components are delivered and installed and training is performed	12 / 31 / 18
TESTING/COMPLETION - Performance of system/solution is validated and system/solution goes “live”	02 / 31 / 18



BUDGET AND BUDGET NARRATIVE

List the planned expenditures to be made with grant funds. Briefly explain the reason for each requested budget item and provide the basis for its cost. In addition, if contingency cost has been added, please identify the amount.

NOTE: In lieu of a line item breakdown, an itemized cost schedule or detailed vendor prepared quote may be submitted as an attachment, but a narrative is still required. However, budgetary quotes received from a particular vendor(s) during the application process do not commit the PSAP to use that vendor(s) once the grant is awarded.

See attached World View Solutions Cost Estimate for itemized cost schedule.

Powhatan is seeking grant funding in order to hire World View Solutions or other geospatial consultant to perform the following tasks:

1. Validate Centerlines and Format for NENA Standards Compliance

\$8,800.00

For this validation check, tabular address data derived from the site address GIS feature class will first be geocoded against GIS centerlines with a very high (98-100%) minimum match score threshold, then reviewed.

2. Reconcile / Validate Address Data

\$19,600.00

Emergency Service Number (ESN) information stored in the MSAG will be compared against mapped service areas and first due emergency service zone assignments. Discrepancies will be noted, investigated and corrected within the appropriate dataset(s).

3. Intra-Jurisdictional Boundary Alignment

\$2,180.00

Geospatial data pertaining to jurisdictional boundaries, and emergency service zones will be evaluated for compliance with geometric and topological rules (e.g., complete coverage; slivers, overlaps, or duplicate features), as well as for consistency with MSAG and road centerline address ranges. Geometric and topological errors will be corrected and discrepancies between adjacent boundaries will be investigated and corrected to ensure accurate representations of boundaries.

4. Update / Create Emergency Service Number Boundaries

\$3,800.00

Emergency Service Number (ESN) information stored in the MSAG will be compared against mapped service areas and first due emergency service zone assignments. Discrepancies will be noted,



5. Addressable Structure Field Verification

\$41,000.00

In order to ensure that the site address GIS feature class is up-to-date and accurate, all addressable structures will be visually field verified. During the verification process, instances where mapped data deviates from observed real-world conditions will be noted, investigated if necessary, and corrections applied to the data.

6. Map ancillary thoroughfares

\$12,200.00

As a supplemental navigational aid to public safety personnel with access to GIS mapping resources, centerlines representing key ancillary roadways will be reviewed, and where necessary, mapped. These key pathways will consist primarily of the most direct privately or publicly maintained thoroughfares that lead to the entrances and loading docks of major retail and commercial buildings, industrial facilities and institutions.

7. Establish, automate and document update procedures

\$14,800.00 Emergency Service Number (ESN) information stored in the MSAG will be compared against mapped service areas and first due emergency service zone assignments. Discrepancies will be noted, investigated and corrected within the appropriate dataset(s).

8. Maintenance and Support for 5 years, including addresses, centerlines, ancillary roads, ESNs and ETLs

\$40,000.00

To guarantee the continued value of the investment made in the abovementioned data improvements and dataset synchronization efforts, it is essential to implement sustainable practices for their ongoing maintenance. To this end, a set of workflows, policies and procedures will be established and documented to enable ongoing system maintenance. Wherever practical, these procedures will employ automation through scripting and models, as well as data review tools, to simplify maintenance tasks, minimize manual effort and ensure the quality and consistency of relevant public safety datasets.

Each one of the above tasks is critical to ensure that the GIS data is accurate and current. Each task will ensure that all stated project goals and objectives will be met. The total cost of the project is \$142,380.00. The basis for the requested budget was determined by the cost associated with performing each task as identified by World View Solutions.

EVALUATION



How will the project as identified in the project description be evaluated and measured for achievement and success:

2T

The success of the project will be defined through the following milestones:

- Use of a geospatial consultant for planning and execution of project tasks
- Review and acceptance of design documents
- Review and acceptance of pilot, draft and final deliverables
- Validation testing of data in existing PSAP systems



CONSOLIDATION (Primary or Secondary) - (complete only if applicable)

How would a consolidation take place and provide improved service:

2T

How should it be organized and staffed:

2T

What services should it perform:

2T

How should policies be made and changed:

2T



CONSOLIDATION (Primary or Secondary) - (complete only if applicable) – con't

How should it be funded:

2T

What communication changes or improvements should be made in order to better support operations:

2T