



November 1, 2012

Mr. William E. Johnson III  
City Manager  
City of Petersburg, VA  
135 North Union Street  
Petersburg, VA 23803

**Re: Rehabilitation of the Poor Creek Pump Station Force Main under PPEA**

Dear Mr. Johnson:

Versar, Inc. in association with Timmons Group is pleased to present our combined credentials, technical approach and pricing for the rehabilitation of the Poor Creek Pump Station Force Main in accordance with the Virginia's Public-Private Education Facilities Infrastructure Act of 2002.

We respectfully request that Volume II of this proposal, which contains the Corporate Financial Statements, be considered "Confidential Proprietary Information - Exempt from FOIA Release."

We respectfully request the City of Petersburg to waive the submission and review fee for this PPEA unsolicited proposal. However, as required we have submitted a check for the initial submission until the waiver can be granted.

With this proposal, we offer to initiate services immediately as we are aware of the City's immediate need for rehabilitation of the Poor Creek Pump Station Force Main. Our team is poised to offer unprecedented service for a superior product all the way from design to construction.

Thank you for the opportunity to submit our proposal. If you should have any questions, or need any additional information, please do not hesitate to call me at 703.589.0477. I look forward to hearing from you soon.

Sincerely,



Anthony Campbell, PMP, LEED AP  
Division Manager



**PPEA  
PROPOSAL SUBMISSION  
CERTIFICATION**

The undersigned certifies that the signatory below has the authority to submit this PPEA proposal and that this proposal is made pursuant to the City of Petersburg's Guidelines Act of 2002 (Guidelines), agreeing to the terms of the Guidelines. The undersigned also certifies that the information contained in its proposal is accurate and complete and tenders to the City of Petersburg a cashier's check in the amount required by the Guidelines.

A handwritten signature in black ink, appearing to read "Anthony Campbell", written over a horizontal line.

By: Anthony Campbell, PMP, LEED AP

Title: Division Manager

Date: November 1, 2012



## EXECUTIVE SUMMARY

In conformity with the City of Petersburg adoption of the guidelines for Private-Public Education Facilities and Infrastructure Act (PPEA) and, in response to known condition deficiencies of the existing Poor Creek Pump Station Force Main, Versar has prepared this PPEA proposal for rehabilitation of the force main. In developing this proposal, Versar utilized the latest revision of the Virginia PPEA guidelines dated January 17, 2008 and as adopted by the City of Petersburg dated January 8, 2008. The proposal is divided into two volumes. Volume 1 addresses the requirements of Section 1, 2 and 4 of the PPEA guidelines and is marked **Public**. Volume 2 includes detailed project descriptions, cost and schedule estimates and is therefore marked as **Proprietary and Confidential**.

In contrast with a conventional Design-Bid-Build process, the PPEA approach will offer substantial value to the City of Petersburg in terms of reducing risk, cost savings and an accelerated design and construction schedule for these projects.

In order to provide adequate sanitary sewer service the City of Petersburg as well as the neighboring Prince George County, the City through the PPEA process, has constructed improvements to the existing Poor Creek Pump Station. These improvements included the upgrade of the pumping capacity to 12 MGD (million gallons per day), the installation of a 1.4 million gallon retention tank and improvements to pump controls and appurtenances. The existing force main was constructed in the early 1970's, and serves the Poor Creek Pump Station which serves the corridor encompassing South Crater Road and County Drive, located at 950 Winfield Road.

***The primary objective of the proposed PPEA project is to provide reliable sewer service to the Poor Creek Pump Station service area.***

This proposal, developed in cooperation with the City of Petersburg staff, addresses the proposed improvements; summarized as follows:

**Force Main Improvements:** Rehabilitation of the existing Poor Creek Force Main generally from the east edge of East Washington Street (Route 36) to the North edge of US Route 460. Rehabilitated force main segments will have acceptable serviceability for the City's planning horizon of the Poor Creek Pump Station service area.

Versar, Inc. detailed project descriptions, schedule and cost proposal are contained in Volume 2 of this proposal. **Volume 2 is marked Proprietary and Confidential.**

Versar will act as the sole entity or corporation presenting the PPEA. Versar has assembled a seasoned group of professionals and subcontractors to serve the interests of the City and to provide the best possible resources. The Versar PPEA Project Team will consist of Versar who will function as the PPEA Entity and will complete all of the construction work. Engineering and Support Services will be accomplished by Timmons Group with assistance from specialty area subconsultants as necessary.

Versar is a publicly traded company operating out of Virginia since 1969. Since then, Versar has offered professional services to government, private and non-profit entities throughout the world. This success has hinged on tailored services offered to each and every customer. Timmons Group has been an engineering and survey consultant in the Richmond and Petersburg region for almost 60 years having completed numerous utilities projects for municipal clients throughout the mid-Atlantic region. This combination of local talent, specific PPEA utilities project knowledge and experience will serve to offer the City of Petersburg an outstanding PPEA program at the most-cost effective price.



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## 1.0 QUALIFICATION AND EXPERIENCE

### a. PROJECT TEAM STRUCTURE

***Identify the legal structure of the firm or consortium of firms making the proposal. Identify the organizational structure for the project, the management approach and how each partner and major subcontractor in the structure fits into the overall team.***

Versar, Inc. will be the lead with Timmons Group as the Engineer for the program presenting this PPEA proposal. No other firms are included as partners in the consortium. The organizational and subcontractor structure for this PPEA Team is shown on the following page. Timmons along with their subconsultants will be engaged directly as a Consultant to Versar, Inc. Because of this structure, the City of Petersburg achieves a single point of contact and responsibly to effectively accomplish the needed improvements.

### b. PROJECT TEAM EXPERIENCE

***Describe the experience of the firm or consortium of firms making the proposal and the key principals involved in the proposed project including experience with projects of comparable size and complexity. Describe the length of time in business, business experience, public sector experience and other engagements of the firm or consortium of firms. Include the identity of any firms that will provide design, construction and completion guarantees and warranties, and a description of such guarantees and warranties.***

Versar, Inc. has assembled a team for this PPEA proposal which is capable of providing all the necessary engineering, permitting and construction expertise, including the support services required to complete a project of this nature. Timmons Group will provide all the engineering and support services. Versar, Inc will provide the project management, procurement, and construction items. In addition, Versar, Inc will also be providing the bonding, guarantee and warranties associated with this project. An Organizational Chart and detailed qualifications and experience information can be found on the following pages of this section (Section 1.0). A Payment and Performance Bond will be obtained by Versar, Inc. upon entering into a Comprehensive Agreement with the City of Petersburg.

**PPEA Team Organization  
 Rehabilitation of the Poor Creek Pump  
 Station Force Main**



In association with



Design-Build Project Manager  
 Anthony Campbell, PMP  
*Versar, Inc.*

Consolidated Program Management  
 David Saunders, PE  
 Wes Hunnius, PE, LEED AP  
*Timmons Group*

Engineering and Support Services  
 James Christian, PE  
*Timmons Group*

Project Construction

**Project Manager**  
 Brian Murer  
 Pamela Diggs  
*Versar, Inc.*

**Assistant Project Manager**  
 Jacob Dalton  
*Versar, Inc.*

**Construction QA/QC and Superintendent**  
 Gregory Haaser, PMP  
*Versar, Inc.*

**Utility Construction**  
 Coleman Lytle, PE  
*Lytle Utilities, Inc.*

**Senior Project Manager**  
 David Saunders, PE  
*Timmons Group*

**Civil/Site Engineer**  
 Wes Hunnius, PE, LEED AP  
 Cecil McNair, EIT  
 Chris Petree, PE  
*Timmons Group*



Versar, Inc. (Versar) was founded in 1969 and provides services to federal, state, and local government agencies and industry related to project management, construction, engineering consulting, environmental management and facility infrastructure design. Since then, Versar has grown to become an international, publicly-traded +\$100M, full-service construction, engineering and environmental firm with 15 offices and a staff of approximately over 700 technical and management professionals. Our history of more than 43 years of service and financial stability provides our customers with a high level of assurance of our commitment to quality and customer care. The call letters of our ticker symbol on the American Stock Exchange – **VSR** – are representative of our commitment to **Value, Solutions, and Responsiveness**. We help our customers achieve their design and construction objectives on time and on budget.

Versar has grown to a large business under North American Industrial Classification System (NAICS) 562910 (greater than 500 employees), and Versar maintains a Class A general contractor license (No. 045212A) and is fully capable of constructing the infrastructure that we design. In the Commonwealth of Virginia, we have various staff members with professional registrations in engineering, architecture, landscape architecture, engineering, geology, project management, LEED®, and related technical and scientific fields.

Versar is a nationally-recognized firm in the recycling/reuse of water for domestic and recreational use. These facilities have included simple spray pads for small communities like the Edison Park Sprayground in New Mexico and building renovations design consultations for the AZ Department of Emergency and Military Affairs (DEMA) and Luke Air Force Base (AFB); phased projects like the design and construction management (CM) of a wastewater treatment plant (WWTP) for DEMA and the subsequent addition of an “Class A+” effluent treatment system upgrade and tie-in line; and complex multi-function, multi-use projects like the Pecos Park Maintenance Facility and Aquatic Center (\$10M) and the Town of Gilbert Perry and Williams Field High School Aquatic Facilities (\$8.8M). Versar has provided these services under a variety of project delivery methods, including Design/Build (DB), Design/Bid/Build (DBB), and Construction Manager at Risk (CM@Risk) and is frequently contracted to provide Construction Administration (CA)/CM services as the Owner’s Representative (if we’re not already the builder) to ensure that their projects are constructed to our exacting design standards. When Versar oversees the construction of your facility – or constructs your facility as the Design-Builder – you get what we designed. The integration of a strong team of professionals undoubtedly creates a better project environment, as proven by our long history of successful projects.

Few firms offer the longstanding engineering design and proven construction expertise as well as the professional credentials that Versar offers to our customers. This is one of the elements that set us apart from other companies. The diversity of our professional services, in many cases, enables us to provide our clients with “one-stop” shopping. As a team, we consistently provide our clients with high quality yet cost-effective services that are based on controlling and developing unique design solutions. Versar backs each project with a full range of professional capabilities and staff – approximately 65 percent of Versar’s personnel have degrees in science, engineering or other technical fields, and our employees have decades of construction and engineering experience.

We also understand Risk Management related to design and construction projects. We work closely with our customers to prevent problems or issues from adversely affecting the outcome of their projects, particularly for municipal Capital Improvement Projects with fixed budgets and tight schedules. Project Risk Management is simply the process of consciously and aggressively identifying these surprises and making pro-active plans to do something about them while reasonable options for resolution are within reach. The management of change and the ability to rise to such challenge is another factor that has allowed Versar to have many years of proven success.

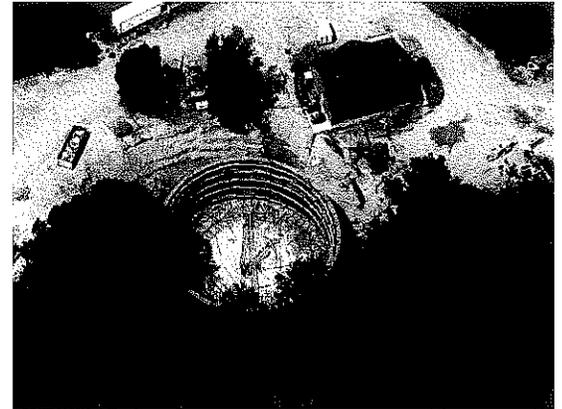




**Project:** Poor Creek Wastewater Pump Station Upgrades  
**Location:** Petersburg, Virginia  
**Original Completion Date:** Ongoing  
**Owner:** City of Petersburg  
**Contact:** Steven Hicks; (804) 733-2353

**Project Description:**

Versar constructed the Poor Creek Wastewater Pump Station Upgrade. This project included an upgrade to an existing 40 year old wet well/dry well pump station to increase the capacity to 12 MGD. The upgrade included four new 40 horsepower pumps on VFD drives, dual channel grinders rated for 12 MGD each, wet well modifications to add a ramp inlet, lighting upgrades and replacement of all valves and mechanical equipment. The project also included the construction of an 87' diameter, 34' tall, 1.4 million gallon equalization basin onsite to retain flows during peak flow events. Throughout the rehabilitation of the pump station Versar maintained and operated a bypass pumping system, which allowed the pump station to be taken completely off line for the pump station upgrade. We worked closely with the City of Petersburg and Timmons Group to meet the goals of the project.





**Project:** Multi-Functional Facility Defense Evaluation, programming, Engineering and  
and  
Design-Build, "Project Blue"  
**Location:** Classified Location - Metro-DC Area  
**Original Completion Date:** 2006  
**Owner:** Lease Project Management Division, Real Estate Acquisition (WP11PRME), General Services Administration- NCR  
**Contact:** Falah Alugaily, Project Manager; 202.708.5539

### Project Description:

Versar was responsible for this three-phase project. Phase 1 was the design of this mission-critical facility. Phase 2 was the design and construction of a temporary isolation facility to protect personnel, equipment and facilities from the potential threat from weapons of mass destruction. Phase 2 was required because of the 24x7 nature of this mission-critical facility. Phase 3 was the construction of the permanent facility. Versar has recently achieved substantial completion of Phase 3 the design/build of a 75,000+ ft<sup>2</sup> renovation for the client at a confidential location in the Metro DC area. Versar provided architectural, mechanical, electrical, and structural building design. The facility contained roughly 60,000 ft<sup>2</sup> of warehouse/process area and about 10,000 ft<sup>2</sup> of office space. The project objective was to redesign the building incorporating emerging technology into threat detection and reduction for the safety of personnel and protection of resources. The terrorists' threats considered were explosives, radiological, chemical, and biological. During the incorporation of this detection technology, it was desired to upgrade the office area and to design the building to optimize process flow. Versar integrated architecture, mechanical engineering, electrical engineering, structural engineering, civil engineering, anti-terrorism force protection engineers, and expertise in chemical/biological threats into the success of this project.

A threat and vulnerability assessment, including on-site surveys, personnel interviews, and research to support recommendations that would address vulnerabilities, was conducted. Versar provided scientific and engineering support for the client in addressing potential assaults by use of explosive devices, biological agents, chemical agents, and radiological "dirty" bombs. Versar provided construction drawings, cost estimates, value engineering, space situation summaries, space requirements reports, performance specifications, space plans and layouts, interior design, special forced entry, and security system engineering.

Versar established a materials screening protocol to detect weapons of mass destruction in the processing stream of all materials from outside sources. In addition, to prevent mixing screened and unscreened materials, cross contamination, or the bypassing of safeguards, Versar established buffer zones and isolation rooms. The isolation rooms are capable of containing and controlling any contaminants detected. The isolation rooms include complete HVAC systems, which provide ventilation, while providing a negative pressure in the controlled space. The controlled space was designed with access control and provisions for environmental sensors and alarms. These renovations provide isolation of the controlled space to provide containment of the microbiological organisms and chemical contaminants. An emergency 150KW power system was incorporated into the design for fail-safe operations. Potential hazards are detected by state-of-the-art equipment

### Key Project Elements:

- Design/Build of mission critical facility with a value of \$8.5 Million
- FE/BR gate systems and guard house were installed conforming to client FE resistance standard SD-STD-01.01
- Highly sensitive project required cleared Versar personnel
- Project required multi-discipline engineering and design/build expertise including architectural, mechanical, electrical, and structural and civil engineering
- Integrated Anti-Terrorism/Force Protection (AT/FP) criteria into the design
- Integrated chemical, biological, low-level radiation and explosive detection systems into construction
- Project required coordinated multiple submittals including a detailed cost estimate and schedule, workplans, health & safety and quality control plans



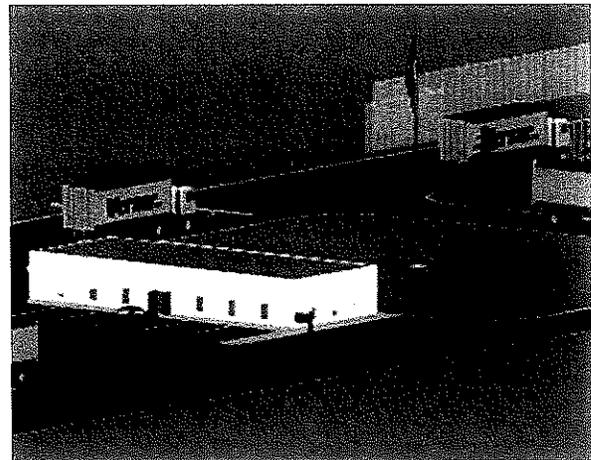
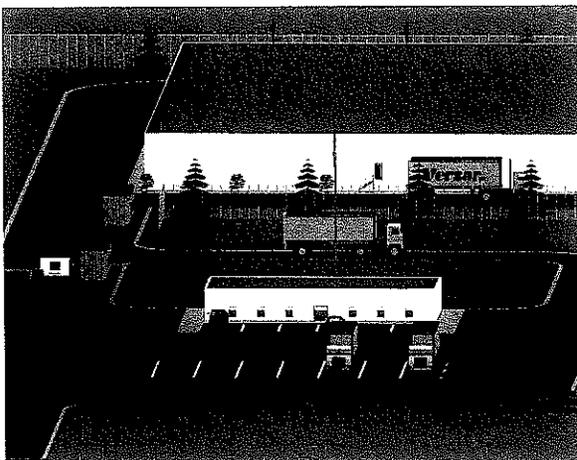
designed for specific tasks. Detection equipment utilized includes X-Ray screeners/scanners; chemical weapons detectors, biological detectors, and radiation detection equipment.

The screening protocols used by Versar established the placement and use of this equipment to maximize its capabilities, and the safety to personnel. Versar Homeland Defense experts reduced the threat to the facility and personnel to a level comparable to a facility where no threat of attack or contamination from outside sources exists. Versar performed the following specific elements of the scope of work:

- Design of the facility
- Vulnerability Analysis
- Construction Management
- Subcontractor Administration
- Project Management
- Preparation of all plans to include work plans, health & safety, quality control, site security, etc.
- Completion of all punch list items prior to Certificate of Occupancy
- Project Closeout

Versar considers the following scopes of work to be extremely relevant to the scopes of work anticipated under this procurement and are clear discriminators as to the value Versar adds to this effort especially in the areas of CBRNE detection systems:

- Integration of explosive, radiological, biological and chemical detection systems into the design and construction phases of the project
- Technical design included the design of positive pressure isolation facilities to enable screening of materials for low level radiation, chemical and biological warfare agents and explosives
- Design included duplicity of systems to ensure 24 X 7 mission critical operations without interruption
- Renovation and upscale of existing facilities





**Project:** 49<sup>th</sup> Quartermaster Group, POL Tactical Equipment Maintenance Facility  
**Location:** Fort Lee, Virginia  
**Original Completion Date:** Ongoing  
**Owner:** U.S. Army Corps of Engineers  
**Contact:** Candace Filak, 804.734.4041

**Project Description:**

Design/Build of a new single-story facility for maintaining and repairing vehicles, complete with equipment and parts storage and administrative offices. Repair and maintenance areas are garage areas used for service and repair of the full range of Army tactical equipment. Support facilities included utilities, electric service, exterior and security lighting, fire protection and alarm systems, security fencing and gates, water, gas, sewer, oil water separators, storm drainage, concealed underground storm detention basins, 7.5 acres concrete hardstand, and site improvements. It is intended to be similar to heavy equipment or motor pool facilities in the private sector community.



AT/FP features and sustainable design criteria were incorporated in the design and construction. The facility incorporated LEED Silver requirements in the design and construction. This project was a Joint Venture, with Versar, Inc. providing all onsite management, superintendence, quality control, and safety. Versar also directed all contract and project management functions.



**VERSAR, INC. ADDITIONAL EXPERIENCE**



**Project:** Heating Plant-Underground Storage Tanks Replacement Project  
 Virginia State University

**Location:** Petersburg, Virginia

**Contract Value:** \$1.5M

**Specific Applicable Experience:** The work effort is generally described as the closure (removal) of three existing No. 6 Fuel-oil underground storage tanks, the removal of remaining coal from the site, demolition and removal of all coal handling equipment, the refurbishment of the coal bunker for use as a containment area; and the subsequent installation of four (4) above ground tanks, and piping, valves, controls, etc. related work.

**Completion Date:** Completion Date September 2009

**Project:** Aboveground Storage Tank Program Support-Cannon AFB, NM- USACE  
 Omaha District

**Location:** Cannon AFB, NM

**Contract Value:** \$33K

**Description-** Review previous tank inspection reports and provide the regulatory references or industry standards to validate findings and provide design/repair recommendations, modifications or removal services to ensure Federal Regulation that apply to aboveground storage tanks containing petroleum products follows current laws and regulations. 64 tanks were inventoried and full external inspections were previously performed, of which Versar evaluated the 4-tanks which had deficiencies. The tank capacities range from 50 to 20,000-gallons. The tanks contain diesel fuel, JP-8, gasoline, used oil, and lubricating oil.

**Firm Fixed Price**

**POP:** 08/01/2008-09/30/2009

**Project:** Replacement Hydrant Fuel System-Tank 2 Investigation-MacDill AFB, FL-  
 USACE Omaha District

**Location:** MacDill AFB, FL

**Contract Value:** \$53K

**Description:** The objective if this work effort will be to investigate the occurrence of water infiltration under a bulk fuel AST at the West end of the North Apron at MacDill AFB, Florida. The primary goals of this effort are to evaluate site conditions, the condition of the Hydrant Fuel System and the integrity of its various components to determine if a breach is present that allows water to infiltrate, and the likely source of water as well as its pathway(s) into the system. Recommendations to mitigate the problem should be developed, with nominal efforts taken to rectify the problem, if possible. The 2-AST's identified as tank #1 and tank #2 each have a 25,000BBL storage capacity and are located in bermed containment areas.

Work to be performed has been divided into the following tasks:

- Conduct preliminary investigation activities, including TTD inspection
- Install and sample groundwater wells
- Submit a letter workplan and submit a technical memorandum to summarize findings
- (Optional) Conduct further investigations, possibly including installation and sampling of a horizontal well below the AST, as necessary.

**Firm Fixed Price**

**POP:** 02/02/09-02/01/10





**Project:** Qimonda Semiconductor Facility  
 FAB-1 & FAB-2 Tool Alterations  
**Location:** Sandston, Virginia  
**Contract Value:** T&M since September 2009

**Specific Applicable Experience:** The work effort involves tool removal coordination and specialty chemical and gases piping and vessels (LOX/GOX) purging and decontamination. The work effort required the supervision of a work crew of over 40 personnel in close-coordination with on-going plant operations in a 1.5 million square foot manufacturing facility.

**Completion Date:** PAT-1 January 2009  
**Reference:** Mr. Dave Robey, V.P. and Plant Manager of Qimonda North American Production Facility located in Sandston, VA, ph. 804-357-4724

**Project:** Asset Recovery Project  
 Ft. Meade-Special Projects Laboratory  
 Semiconductor Facility  
**Location:** Ft. Meade, MD  
**Contract Value:** \$2.4M

**Specific Applicable Experience:** Versar was the design/build contractor to retrofit an existing manufacturing plant. Work involved LOX/GOX and LN/GN high purity piping installation/purging, safety, protection and cleaning of SS piping, safety of oxygen and nitrogen lines, instrumentation and controls modifications, as well as overall EH&S plan development to synchronize work efforts with plant operations in an active microelectronics specialty production facility.

**Completion Date:** February 2009  
**Reference:** Mr. Jack Leek, Project Manager, National Semiconductor, Columbia, MD, ph. 443-812-6391, fax: 301-621-0900

**Project:** Oxygen Supply Assurance Program  
**Location:** Tinker Air Force Base, OK  
**Contract Value:** \$2.7M (for the last task order/single project completed 2006-2008)

**Specific Applicable Experience:** Versar was the prime contractor for installing, sterilizing and testing liquid oxygen supply systems over a multi-million dollar 11 year IDIQ contract period from **1997-2008**. The US Air Force depends upon reliable oxygen containing and supply systems to ensure the safety of their pilots, who routinely breathe oxygen environments when on flight duty. The effectiveness of cleaning oxygen supply equipment, including liquid oxygen (LOX) and compressed oxygen holding tanks/vessels, and stainless steel plumbing/valving systems, that were built and tested as a pilot plant at Tinker Air Force Base, OK and other locations for the USAF. Recognizing that the conventional methods of cleaning such systems involved dismantling oxygen equipment and vessels, and cleaning it with volatile organic solvents that were ozone depleting compounds (ODSs), led Versar to **develop and patent a** highly unique methodology for cleaning such systems. The oxygen equipment cleaning system (OECS) that Versar developed used non-ODS solvents that are distilled after use, and continuously reused – hence essentially no net solvent consumption. No oxygen delivery system dismantling is required, and cleaning takes hours rather than days, cutting cleaning time by over 90%. Further, conventional dismantling and reassembly introduced additional contaminants back into the “cleaned” systems. The Versar system does not reintroduce any new contaminants, because essentially no dismantling takes place. Additionally, the OECS was built on a trailer-mounted platform designed to move easily from one site to another other. The system was built with stainless steel piping, and specialty valving was installed as well. The OECS was tested on numerous aircraft oxygen systems (including installing LOX plants at various USAF bases) and their related support equipment, such as LOX and compressed oxygen containers, valves, and piping. Miles of oxygen pipes and tubing were installed and cleaned by the OECS, in addition to hundreds of oxygen containing vessels. All work was coordinated around active flight lines and/or mission critical operations. **Completion Date:** December 2008

**Reference:** Jerry Gore, Chief Oxygen Engineer; ph. 405-737-6298





<b>Current Ongoing Versar Projects</b>				
<b>No.</b>	<b>Project Name</b>	<b>Project Location</b>	<b>Cost</b>	<b>Estimated Date of Completion</b>
1	Gates 22/24 Infrastructure, Road, Gate and Utility Improvements	Aberdeen Proving Grounds, MD	\$9M	12/2010
2	Ft. Eustis Barracks	Ft. Eustis, Virginia	\$27.5M	01/2011
3	Ft. Lee Building 1109	Ft. Lee, Virginia	\$11.3M	12/2010
4	Ft. Lee Building 3000	Ft. Lee, Virginia	\$13.5M	03/2011
5	Ft. Lee Building 2300	Ft. Lee, Virginia	\$4.9M	05/2011
6	Ft. Lee USMC Collocated Training Facility	Ft. Lee, Virginia	\$11M	12/2010
7	49th Quartermaster Group, POL Truck Company, Tactical Equipment Maintenance Facility	Ft. Lee, VA	\$10M	2010
8	Sarnia Parking Structure	Springfield, Virginia	\$36M	2010
9	Construction Management Services for Air Force Center for Engineering and the Environment (AFCEE) Reconstruction Projects in Afghanistan	Kabul, Afghanistan-wide	\$517M	TBD
10	Program Management Support and Construction Management Services for AFCEE Reconstruction Projects	Baghdad, Iraq and Iraq-wide	\$1B	TBD
11	Program Management Services for Royal Group on Palace Completion Project	Abu Dhabi, United Arab Emirates	\$360M	02/2012
12	Project Management Services for Royal Group on Al Ain Palace completion	AL AIN, United Arab Emirates	\$14M	06/2010



**TIMMONS GROUP FIRM OVERVIEW**



**Who We Are**

Timmons Group is a multi-disciplined engineering and technology firm recognized for nearly twenty years as one of Engineering News Record's (ENR) Top 500 Design Firms in the country. We provide civil engineering, environmental, GIS/geospatial technology, landscape architecture and surveying services to a diverse client base. Founded in 1953, we are a well-established firm with a pioneering spirit. Decades of experience allow us to lead our industry with an unwavering commitment to forward thinking, innovative design and complete solutions that help our clients be successful.

At Timmons Group, environmental stewardship is more than a trend; it is a philosophy that begins at home with our corporate culture and is exemplified in our expert application of sustainable design principles. An active member of the US Green Building Council since 2000, Timmons Group's Leadership in Energy and Environmental Design (LEED®) Accredited Professionals have been involved with numerous certified and registered projects, including the first LEED Gold certified elementary school and the first LEED certified Federal Prison.

A firm is defined by its people. Timmons Group continues to attract and retain leading professionals in all areas of expertise, in addition to the best and brightest young talent. Timmons Group professionals are challenged with exciting projects that shape their careers as well as the communities we serve. We invite you to experience a culture where knowledge and imagination foster a steadfast commitment to accomplishing your goals – your vision achieved through ours.

**What We Do**

Timmons Group's mission is "to achieve unparalleled understanding of our clients, their businesses and their visions resulting in unrivaled customer service and shared success." Our market-focused organization is structured to help fulfill that mission. It allows us to provide our clients with more than just the best engineering and professional services available, but specialized market sector expertise that enables us to be trusted advisors and valuable consultants to our clients from the conception of a project through its completion.

Our clients are as diverse as the services we offer, and we continually evolve to better meet their needs. From small town infrastructure to federal design-build projects, and from large mixed-use communities to urban in-fill projects, Timmons Group has built a reputation of excellence. Unrivaled client service and a passionate commitment to shared success are taking us places; we are excited to see where our clients will take us next.

**PROFESSIONAL SERVICES WE PROVIDE**

- Landscape Architecture
- Environmental Services
- Stormwater Management
- Geographic Information Systems
- Geotechnical Materials Testing
- Survey
- Transportation & Highway Design and Engineering
- Site Planning and Engineering
- Leadership in Energy & Environmental Design
- Economic Development
- Water and Wastewater Facilities Design





## TIMMONS GROUP DESIGN-BUILD EXPERIENCE

Design-build is a convenient, one-stop approach to completing commercial, educational, industrial, and institutional buildings of all kinds. Unlike the traditional design/bid/build process, the Owner has a single contract with the builder to provide architectural and engineering design services in addition to construction. Today's design-build process offers reassurance that the design and construction industry can deliver comprehensive services. This valued assurance is routinely provided by a singular source.

Design-builders insist on full accountability for architecture, engineering and construction. By knowledgeably pursuing design quality, and by effectively controlling costs and schedule, a successful design-builder embraces the concept-to-completion vision.

When Timmons Group contracts with a design-builder, potential conflicts between the civil engineer and builder are eliminated. The design and construction processes are integrated from the outset, saving both time and money. Responsibilities and risk are allocated to those on the team who are best able to manage them. Consequently, Owners are assured that the project will meet both project needs and budget parameters from concept plans to final punch-list.

Timmons Group's project experience types include: utility design, industrial buildings, federal facilities, correctional institutions and educational facilities. We have the knowledge, reputation, experience and resources to manage a project any scope.

**Timmons Group employees numerous Design Build Professionals as designated by the Design Build Institute of America, including project the Program Manager, David Saunders.**

### REPRESENTATIVE DESIGN-BUILD PROJECTS:

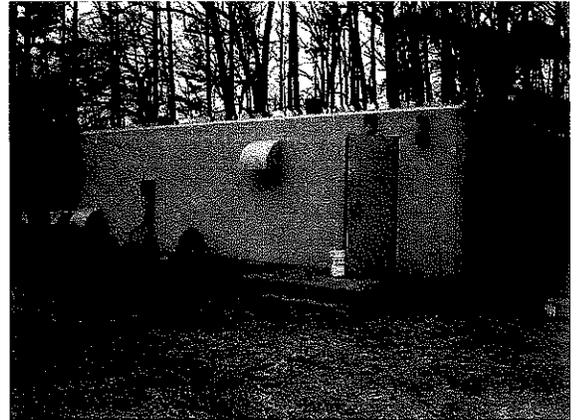
- PPEA: Prince George Wastewater Pump Station Upgrade, Petersburg, VA
- PPEA: Poor Creek Wastewater Pump Station Upgrades, Petersburg, VA
- PPEA: Riverside Elevated Water Tank, Williamsburg, VA
- PPEA: Courtland Water Reclamation Facility, Southampton Co, VA
- PPEA: Meherrin River Regional Jail and Support Utilities, Brunswick County, VA
- PPEA: Renovation of Three Wastewater Pump Stations, Fredericksburg, VA
- Design-Build for the Federal Bureau of Prisons, FCI Petersburg, VA
- Design-Build for the Federal Bureau of Prisons, FCI, Butner, NC
- Design-Build for Cost Plus, Isle of Wight, VA
- Confidential Design-Build with KBS and King George Industrial Park, King George, VA
- Confidential Design-Build Project, NAVFAC, Quantico, VA
- Defense Information System Agency (DISA) Headquarters, Fort Meade, MD
- Joint-Use Intelligence Analysis Facility (JUJIAF), Rivanna Station, VA
- Crosspointe Centre Development, Prince George, VA
- PPEA: James Monroe High School, Fredericksburg, VA



## TIMMONS GROUP REPRESENTATIVE EXPERIENCE

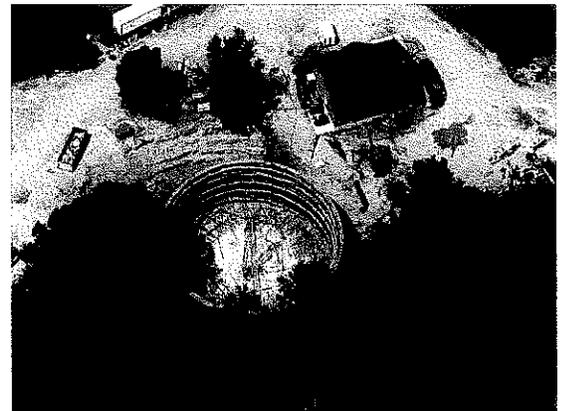
**Project:** Prince George Wastewater Pump Station Upgrade  
**Location:** City of Petersburg, VA  
**Contact:** Steven Hicks; (804) 733-2353

Timmons Group provided design and construction administration services for the Prince George Wastewater Pump Station Upgrade. This project included an upgrade to an existing wet well/dry well pump station to increase the capacity to 4.2 MGD. The upgrade included three new 75 horsepower, suction lift pumps on VFD drives, a new control building with recessed pump room and 5,000' of 16" diameter force main, which included a 400' bore under a swamp.



**Project:** Poor Creek Wastewater Pump Station Upgrades  
**Location:** City of Petersburg, VA  
**Contact:** Steven Hicks; (804) 733-2353

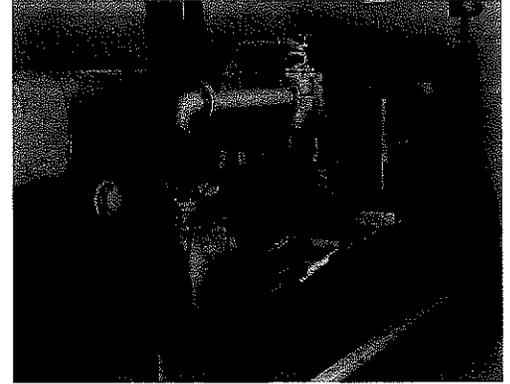
Timmons Group provided design and construction administration services for the Poor Creek Wastewater Pump Station Upgrade. This project included an upgrade to an existing 40 year old wet well/dry well pump station to increase the capacity to 12 MGD. The upgrade included four new 40 horsepower pumps on VFD drives, dual channel grinders rated for 12 MGD each, wet well modifications to add a ramp inlet, lighting upgrades and replacement of all valves and mechanical equipment. The project also included the construction of an 87' diameter, 34' tall, 1.4 million gallon equalization basin onsite to retain flows during peak flow events. Timmons Group assessed the various components of the building and recommended improvements such as cleaning and lining the existing wetwell and headworks with Raven Coating. Timmons Group also assisted with the coordination of the bypass pumping system, which was used during the pump station upgrade.





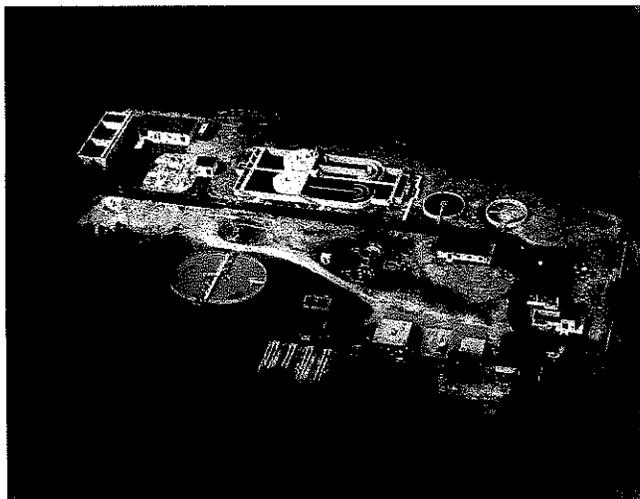
**Project:** Meherrin River Regional Jail Utilities  
**Location:** Brunswick County, VA  
**Contact:** Joan Moore, 434.848.0248

Timmons Group assisted with the preparation of a Community-Based Corrections Plan and Planning Study for the potential design and construction of two regional jail facilities to serve Brunswick, Dinwiddie and Mecklenburg Counties, Virginia and began advising the new Jail Authority on issues relative to the opening of the facilities. Following the completion of the jail planning study effort, Timmons Group was again contracted to provide civil engineering design services for construction of the new jail facility in Brunswick County using a design-build contract under Virginia's Public Private Education Act (PPEA) process. This design scope included: complete on and off-site water and sewer design, including the design of an upgrade to an existing water booster pump station to 250 GPM, a new 265 GPM suction lift pump station, which is upgradeable to 530 GPM, a new 250,000 gallon elevated storage tank and linework consisting of 40,000 LF of 8" PVC force main, 35,000 LF of 8-10" Waterline and 3,000 LF of 8-15" Gravity Sewer.



**Project:** Courtland Water Reclamation Facility  
**Location:** Southampton County, VA  
**Contact:** Michael Johnson, 757.653.3015

Timmons Group teamed with Mid-Eastern Builders (MEB) on this design/build project to construct this multifaceted \$30 million project utilizing Virginia's Public Private Education & Infrastructure Act. Timmons Group and MEB worked closely with the Owner during the design and construction period to ensure that the end product met everyone's criteria for an operator friendly, yet financially reasonable construction. As part of the overall project, Timmons Group also provided design and construction administration services for the 3.2 MGD Interceptor Wastewater Pump Station, 11,000' of 18-24" Gravity Sewer, 10,000' of 16" Force Main, and 5,000' of 12" Waterline. These project components consisted of numerous road and stream crossings, coordination with environmentally sensitive areas, and easement acquisition.





Lyttle Utilities, Inc. is a proud member of the Lyttle Companies, a group of water and sewer infrastructure companies. A second generation family company founded in 1947, Lyttle began as a local plumbing company which today includes all facets of the water and sewer infrastructure industry. From simple domestic

service to the largest of municipal wastewater projects, the company maintains its local community-based values as it builds influence to cover the entire Atlantic seaboard.

As the oldest company of its kind in the Metro-Richmond area, Lyttle has developed partnerships with individuals, businesses, and municipalities in a cross-disciplined manner which has not only grown the company, but its community partners at the same time.

Unique to Lyttle is its customer service focus combined with heavy construction capabilities. No matter how large a project may be, the Lyttle Companies will serve its client with the focus and intimacy as if the project were its own. Our parent company has been accredited by the Better Business Bureau for over 13 years and currently holds an A+ rating for unparalleled customer service within our industry.

Lyttle has continued to diversify its portfolio of capabilities. One of the first to use proprietary trenchless technologies to remotely rehabilitate existing infrastructure, Lyttle has come to represent the highest quality trenchless products on the market today. With projects located along the entire Atlantic seaboard, the Lyttle trenchless division is its fastest growing division to date. Coming full circle, Lyttle can now maintain the quality product it originally installed to protect stakeholder investment long into the foreseeable future.

The Lyttle Companies are Lyttle Utilities, Inc. and Lyttle Service Co., LLC (Formally known as Starnie E. Lyttle Company).

Currently, the Lyttle Companies portfolio includes the following: Septic service, maintenance, and installation; Utility construction – public, commercial, industrial, and residential, Pump Station installation and maintenance, Structure rehabilitation – sanitary, storm, water, chemical, Pipeline rehabilitation – cured in place pipe, point repair, lateral repair; concrete products; CCTV services.



**Representative Project Experience:**

PROJECT NAME	OWNER/GC	ENGINEER	AMOUNT	COMPLETION DATE
Prince George Pump Station and Force Main	City of Petersburg	Timmons Group	\$1,789,172	March-12
West Broad Village	Unicorp	Timmons Group	\$7,700,000	April-10
Eastern Elko Trunk Sewer	Henrico County DPU	Dewberry & Davis	\$1,952,000	March-08
Lake Monticello Pump Station Rep	AquaSource	Various	\$1,775,000	December-04
The Meadows Force Main and Pump Station	Dickens Creek Siteworks	Timmons Group	\$765,570	July-07
Kentland Off-Site Sanitary Sewer and Pump Station	Kentland Investments	Koontz-Bryant	\$1,551,476	July-07
Greenville County WSA Gravity Sewer and Pump Station	Greenville County	Timmons Group	\$553,353	September-07
West Cary Pump Station	Town of Cary, NC		\$181,700	January-07
Harry Daniel Park Pump Station	Chesterfield Parks and Recreation	Hankins & Anderson	\$114,700	March-09





### **VERSAR TEAM INTRODUCTION**

Versar will execute all work for the Poor Creek Pump Station Force Main project from our area Virginia offices. We have assembled a highly qualified group of professionals with the capabilities, practical experience, and local knowledge to complete the project tasks on time and on budget. Our understanding of how to timely execute the Poor Creek Force Main project is also tied to the skills and resources of our key team members Timmons Group and Lytle Utilities, Inc. Our proposed project staff that will lead the project for Versar are very experienced in equally or greater complex projects for other municipalities, industrial customers and U.S. Government agencies. Our guiding principles for successful project management are simplicity of organization to ensure project accountability, clear lines of authority, and effectiveness of communication. Accountability starts with an experienced project staff dedicated to performing high quality work, supported by a strong corporate commitment to quality. Please review our team's key personnel resumes and qualifications on the following pages.



## KEY PERSONNEL RESUME

**Name:** Brian Murer  
**Title:** Senior Program/Project Manager  
**Name of Firm:** Versar, Inc.  
**Assignment:** Corporate Support and Guide

**Years' Experience:** 46

### Education/Degree(s)/Year/Specialization:

MBA, Cleveland State University  
BS, Electrical Engineering, Chicago Technical College, 1966  
BS, Mechanical Engineering, Chicago Technical College, 1966  
BS, Metallurgical Engineering, Purdue University, 1968

### Qualifications Relevant to this Project:

Brian Murer has over 40 years experience in diversified and progressively responsible administrative roles in the areas of general, electrical and mechanical construction both as an engineer and as a contractor in industrial, commercial, government and institutional markets. He has practical working knowledge in mechanical, electrical and instrumentation engineering as a designer and extensive construction management experience, coordination of multi-project activities, determination of policies and effective procedural implementation of operating controls and reporting. Brian is also qualified in the areas of Construction Management, Facility Engineering, Energy Management, Cost Estimation, Value Engineering, Process Controls and Instrumentation, Power Generation and Basic Metals.

### Relevant Project Experience (Partial List):

#### Various Projects, Richmond, VA

Brief Description: Brian has acted in both the capacity of Program Manager and Project Manager including the oversight of an \$18 million cogeneration plant in Suffolk, VA.

#### The Greenbrier, Federal Special Project\*

The \$66.3 million project will encompass more than 200,000 square feet. The project includes all power and lighting as well as a portion of the security work. As Project Executive, responsibilities include maintaining an open line of communication with the General Contractor, budget management, Project Team management and assurance of timely completion. Unique responsibilities of this project include working with the General Services Administration to ensure proper recording and security of the construction documents and drawings. Further a sewer and water pumping station was constructed with over 8000 GPM capacity.

#### Broad Run Waste Water Treatment Plant Expansion, Williamsburg, VA\*

Brian was the overall Electrical Project Executive for this project for a new 10 MGD advanced wastewater treatment plant, 15 MGD water booster pumping station with associated appurtenances, piping, valves, controls, and site improvements, and influent pumping station.

#### Henrico Waste Water treatment Plant Expansion, Henrico, VA\*

Brian was the MEP Contracting Project Executive for a 25 MGD expansion of this facility. Responsibilities included oversight of installed systems, QA/QC, and contract oversight.



### KEY PERSONNEL RESUME

**Name:** Anthony Campbell, PMP  
**Title:** Division Manager  
**Name of Firm:** Versar, Inc.  
**Assignment:** Program Manager

**Years' Experience:** 13

**Education/Degree(s)/Year/Specialization:**

MS, International Construction Management Planned 2013  
BS, Technical Management  
AAS, Mechanical Engineering Technology

**Qualifications Relevant to this Project:**

Anthony Campbell served as the Assistant Project Manager for an over \$100M design build project for a chemical processing facility. He oversaw all daily activities at the site. This project contained over \$10M in site civil works. Anthony was also the Project Manager, \$9M controlled access control point project for Langely Air Force Base. He is very familiar with AFCEE, AFCEA and USACE requirements and has been the project manager on many projects for both FOA's—over \$20M in the last fiscal year. Anthony also holds an Active Secret Clearance. Anthony also holds Versar's Virginia and Florida General Contractor's Licenses.

**Relevant Project Experience (Partial list):**

**Poor Creek Pump Station, Petersburg, VA**

Anthony is responsible for Project Management of the Poor Creek Pump Station Upgrade. This project included an upgrade to an existing 40 year old wet well/dry well pump station to increase the capacity to 12 MGD from 8MGD. The upgrade included complete overhaul of mechanical and electrical systems for pumping. The project also constructed a 3 story 87' diameter, 1.4 million gallon waste water tank. During construction of the systems inside the station a bypass pumping was maintained and operated to allow the pump station to be taken completely off line.

**49<sup>th</sup> Quartermaster Group, POL Tactical Equipment Maintenance Facility, Fort Lee, VA**

Anthony is responsible for Project Management of the Ft. Lee TEMF Design/Build of a new single-story facility for maintaining and repairing vehicles, complete with equipment and parts storage and administrative offices. This project also includes repair and maintenance areas are garage areas used for service and repair of the full range of Army tactical equipment.; support facilities included utilities, electric service, exterior and security lighting, fire protection and alarm systems, security fencing and gates, water, gas, sewer, oil water separators, storm drainage, concealed underground storm detention basins, 7.5 acres concrete hardstand, and site improvements.

**Multi-Functional Facility Defense Evaluation, Classified Location in the Metro-DC Area**

Anthony served as Project Site Manager for this \$8.5 Million Design/Build Project for a Confidential Client. The project involved the design/build of a 75,000 SF warehouse facility into a specialized containment area for processing mail and diplomatic documents at a confidential government facility. This project included 5000 SF office space, 60,000 SF warehouse space, 10,000 SF of lab space and a ballistic resistant Security Guard Station. Project involved special security and air handling equipment necessary to detect potential CBR warfare agents and protect the workers of the facility against chemical and biological threats. Additional detection systems included the installation and commissioning of radiological detection and explosives precursor detection systems.



### KEY PERSONNEL RESUME

**Name:** Pamela Diggs  
**Title:** SR Project Manager  
**Name of Firm:** Versar, Inc.  
**Assignment:** Project Manager

**Years' Experience:** 20

**Education/Degree(s)/Year/Specialization:**

BS, Technical Management  
AAS, Mechanical Engineering Technology

**Qualifications Relevant to this Project:**

Pamel Diggs has more than 20 years of experience in education, municipal, commercial, and government projects as well as site and utility projects. Specifically and most recently she has been responsible for Project Controls Program Management for U.S. Army Corps Engineers at Ft. Lee, Langley AFB, Ft. Pickett, DSGS Richmond, Ft. Lee, and Craney Island, VA: Indefinite delivery/indefinite quantity (IDIQ) contract issued by USACE Norfolk District and North Atlantic Division for construction management services including scheduling, cost control, estimating, change order evaluation, and claim evaluation. As Senior Consultant, provided constructability reviews of various design packages, General Contractor's cost estimates and schedules in order to assess constructability and progress including cost and resource loading, monthly schedule update analysis, evaluated time and costs impacts, provided Independent Government Estimates, various onsite inspection and safety services, and provided project controls oversight. Work included project controls training, coordination of end user government contractors for all private utilities and various building certifications and accreditations including LEEDS and security.

**Relevant Project Experience (Partial list):**

**Western Tidewater Regional Jail Addition, Suffolk, VA:** Project Manager responsible for submittal review, procurement and scheduling, as well as all project management support. This project was a large addition to the existing jail, including all security equipment required for the facility.

**Edward E. Brickell Library, Eastern Virginia Medical School, Norfolk, VA:** Project Manager responsible for submittal review, procurement and scheduling, as well as all project management support. This project was a four-story, 65,000 square foot addition to an existing building, using cast in place concrete, pre-cast concrete, and a limestone exterior. The building was a showcase for the reference library, with specialty finishes throughout such as granite flooring and extensive wood paneling. A circular steel staircase at the rotunda entry was the central feature of the building.

**Pet Dairy Addition & Renovation, Portsmouth, VA:** Project Manager and Scheduler responsible for all project correspondence; preparation, pricing and negotiation of change orders; review and approval of all subcontractor change orders, contractor's time impact analysis for delays and impact costs; permit delays, and site access issues. Prepared preliminary and final base line schedules, including all monthly updates in accordance with specifications requiring a computerized network CPM schedule. Also responsible for all project administration work including RFI's, review of submittals, as well as review of all daily reports. This project was an addition to the processing facility for Pet Dairy, including production line areas, milk processing areas including all piping and equipment, refrigerated storage areas and a new outbuilding for loading trucks with the processed milk for delivery.



### KEY PERSONNEL RESUME

**Name:** Jacob Dalton  
**Title:** Assistant Project Manager  
**Name of Firm:** Versar, Inc.  
**Assignment:** Assistant Project Manager

**Years' Experience:** 12

**Education/Degree(s)/Year/Specialization:**

BS, Building Construction  
AAS, Engineering Technology

**Qualifications Relevant to this Project:**

Mr. Dalton have gained valuable experience in developing the cost information for bids, helped develop construction designs with the clients, and negotiated contracts with subcontractors, while in the project estimating position with Versar. He was promoted to an assistant project manager where he have helped manage government projects for the last 1+ year's improving skills such as safety protocol, time management, subcontractor supervision and document organization for multiple projects simultaneously. He has also become proficient in quality control management, budgeting, construction planning, scheduling subcontractors for projects and various government regulations and policies.

**Relevant Project Experience (Partial list):**

**Poor Creek Pump Station, City of Petersburg - Petersburg , United States:** Design/build project to rehabilitate the pump station and increase the capacity to 8300 gallons per minute (gpm) to the SCWWA without retention. Jacob tracked and invoiced work in progress to the Client . Jacob reviewed all invoices from the subcontractors and made recommendations for approval based on work in place. Assisted with writing all contracts for the subcontractors. Jacob maintained all submittals from multiple contractors to allow enough time for the review, approval, procurement, delivery and installation. He kept a detailed schedule in order to coordinate contractors to finish the job on time and in budget. Helped developed quality control management skills while directing and supervising workers onsite.

**Andrews Air Force Base Parking Lots, AFCESA:** The project was to provide the government with a complete engineering design, construction and warranty for the design and construction of two additional parking lots for Andrews Air Force Base. Jacob prepared and submitted budget estimates and cost tracking reports and assisted with changes to contractual agreements with clients and subcontractors. Jacob was responsible for field oversight and project close out.

**Westover Air Force Base Parking Lot Project, AFCESA - Chicopee, Massachusetts, United States:** Under this contract, the Design/Build process will be used to design and construct project Repair Visiting Officers Quarters Parking, at Building 2200 and 2201 at the Westover ARB, Massachusetts. Invoiced the Client and reviewed and processed all invoices from the subcontractors. Assisted with writing all contracts for the subcontractors. Maintained all submittals from multiple contractors to allow enough time for the review, approval, procurement, delivery and installation. Kept a detailed schedule in order to coordinate contractors to finish the job on time and in budget. Prepared and submitted budget estimates and cost tracking reports.



### KEY PERSONNEL RESUME

**Name:** Gregory Haaser, PMP  
**Title:** Construction QA/QC and Superintendent  
**Name of Firm:** Versar, Inc.  
**Assignment:** Construction QA/QC and Superintendent

**Years' Experience:** 41

**Education/Degree(s)/Year/Specialization:**  
Master Electrician, Maryland, Virginia and District of Columbia  
AA, Business Management

#### Qualifications Relevant to this Project:

Gregory Haaser taught for seven years as a part-time evening instructor at NECA/JATC Training Center in Washington, D.C., teaching beginning AutoCAD and Fire-Alarm Systems, Taught National Electrical Code for two semesters at John Tyler Community College, Chester, VA. Mr. Haaser is very capable and adept in communications and labor management. Mr. Haaser presently holds U.S. Patents for his ingenuity and has another patent in the works.

#### Relevant Project Experience (Partial list):

##### Various Projects, Richmond, VA

Gregory Haaser oversaw companywide estimating efforts and developed concept documents in on multiple design-build projects. He has further written and supervised QA/QC efforts for a multi-site telecommunications build-out program.

##### Various Projects, Richmond, VA\*

Gregory Haaser was the lead designer on several large projects in the Richmond, VA office of Truland Systems Corp. He developed Construction drawings on projects including: Logistics University for U. S. Corp of Engineers, Ft Lee, VA., Richmond Federal Courthouse, 701 East Broad St., Richmond, VA 23219, and Virginia State Capital Renovation.

##### Various Projects, Washington DC, Metro Area

Gregory Haaser hired as lead coordinator for the power and communications infrastructure at the Ronald Reagan Building, Washington, DC., 1993-1997, Lead/Senior MEP Coordinator on-site of the U.O.S.A.-54-mgd WWTP up grade, Centerville, VA., responsible for all control and power coordination/interface 1997-2000. Oversaw coordination efforts for Alexandria Sanitation Authority including various upgrades 1998-2001, WASA's Bryant ST. Pumping Station, 25-mg overflow, Washington, DC., WSSC Potomac WTP-2000 various projects at WASA's Blue Plains WWTP, Washington, DC. 2001. Senior MEP Coordinator, on site FCWA's Raw Water Pump Station, 2000-2001, and the Frederick P. Griffith, WTP., both located in Lorton, VA. And where ground-up projects on new sites

*\* Denotes work completed prior to joining Versar*



### KEY PERSONNEL RESUME

**Name:** James Christian, PE  
**Title:** Principal  
**Name of Firm:** Timmons Group  
**Assignment:** A/E Principal in Charge  
**Years' Experience:** 31

**Education/Degree(s)/Year/Specialization:**

BS, Mechanical Engineering with a concentration in Civil Engineering, Brigham Young University, 1987

**Active Registrations:**

Professional Engineer, Virginia, 2005 (#041575)  
Professional Engineer (Civil and Mechanical) Utah, 1987  
Professional Engineer, Arizona, 1988 (#22858)

**Qualifications Relevant to this Project:**

Jim Christian has experience specializing in feasibility studies, master plans, project development, design, design management, value engineering, QA/QC, process troubleshooting, Federal and State permitting (water, wastewater, reuse, aquifer protection and biosolids), bid period services, construction engineering, construction management and observation, and facility start-up of projects in the fields of water and wastewater treatment and transmission and industrial facilities. Jim's municipal experience consists of several water treatment plants ranging size from 35,000 GPD to 180 MGD; several wastewater treatment plants ranging in size from 35,000 GPD to 450 (biological)/950 (hydraulic) MGD; over 60 miles of sewer interceptors (12 to 108 inch); 60 miles of transmission mains (12 to 48 inch); over 6,000 feet of jacked pipe casings (36 to 72 inch); and over 30 pumping stations (50 GPM to 42 MGD).

**Relevant Project Experience (Partial list):**

- Meadowville Parkway Sewer Improvements, Stafford County, VA
- East Area Middle School Sewers and Bottoms Bridge Pump Station Force Main, Henrico County, VA
- Water Reclamation Facility and Pump Station PPEA Design-Build Project, Southampton County, VA
- St. Brides Correctional Center Water Treatment Plant, Chesapeake, VA
- East Area Middle School Sewers and Bottoms Bridge Pump Station Force Main, Henrico County, VA
- City of Richmond Center Sewer Line and Water Line Project, VA
- Magnolia Green Water Model, Chesterfield County, VA
- St. Francis Medical Center Water Model, Chesterfield County, VA
- Rockett's Landing Water Modeling, City of Richmond, VA
- Fluvanna Courthouse Water System, Fluvanna County, VA
- James River Sewer Design and Evaluation, Chesterfield County, VA
- American States Utility Services, Inc. On-call Civil Engineering Consultant Agreement, Various Military Installations, Nationwide, US
- Three Creeks BNR Wastewater Treatment Plant Expansion, Greensville County, VA
- Cornelius Creek Wastewater Pump Station Force Main, Henrico County, VA



### KEY PERSONNEL RESUME

**Name:** David Saunders, PE  
**Title:** Senior Project Manager  
**Name of Firm:** Timmons Group  
**Assignment:** A/E Project Manager

**Years' Experience:** 31

**Education/Degree(s)/Year/Specialization:**  
BS, Civil Engineering, Virginia Military Institute, 1981

**Active Registrations:**

Professional Engineer, Virginia, 1985 (#15785)  
Professional Engineer, Maryland, 1995, (#31173)  
Professional Engineer, North Carolina, 2005, (#31173)  
Professional Engineer, Washington, D.C., 2008, (#904773)  
Professional Engineer, Pennsylvania, 2008, (#74019)  
Professional Engineer, South Carolina, 2010, (#27992)

**Qualifications Relevant to this Project:**

David Saunders is a Senior Project Manager for Timmons Group's Water and Wastewater Division. He has more than thirty years of experience in the planning and design water and wastewater facilities and infrastructure. David has extensive experience in the preparation of plans and specifications, cost estimates and reports for numerous project types and clients. His experience includes the design, repair and upgrading of utility systems, storm drainage facilities, road systems, site development and water tanks. Prior to joining Timmons Group, David was a principal of the firm, Patton Harris Rust and Associates. He primarily worked on utility projects for county, municipal and service authority clients throughout Virginia, West Virginia and Maryland. This experience includes the design of many miles of water and sewer force mains and gravity sewers, dozens of water and wastewater pump stations, storage tanks, and water and wastewater treatment plants.

**Relevant Project Experience (Partial list):**

- Prince George Pump Station Design Build PPEA, City of Petersburg, VA
- Poor Creek Pump Station Design Build PPEA, City of Petersburg, VA
- Riverside Elevated Water Tank Design Build PPEA, City of Williamsburg, VA
- Meherrin River Regional Design Build, Brunswick and Mecklenburg Counties, VA
- Snowden, Fall Hill and Normandy Village Pumping Stations Design Build PPEA, City of Fredericksburg, VA
- Green County Water Treatment Plant Expansion and Distribution System Improvements, Rapidan Service Authority, Greene County, VA



### KEY PERSONNEL RESUME

**Name:** Wes Hunnius, PE, LEED AP  
**Title:** Project Manager  
**Name of Firm:** Timmons Group

**Assignment:** A/E Project Manager

**Years' Experience:** 14

**Education/Degree(s)/Year/Specialization:**

BS, Civil Engineering, Old Dominion University, 2001  
AS, Mechanical Engineering Technology, John Tyler Community College, 2000  
AS, Architectural Engineering Technology, John Tyler Community College, 1999

**Active Registrations:**

Professional Engineer, Virginia, 2006 (#40151)  
Professional Engineer, North Carolina, 2010, (#36987)  
Professional Engineer, Maryland, 2010, (#39342)  
LEED Accredited Professional

**Qualifications Relevant to this Project:**

Wes Hunnius has more than fourteen years of experience in the design of water, wastewater and natural gas infrastructure, including extensive experience with line work and pumping systems. Wes has extensive experience in the design of large wastewater pumping stations and force mains and is skilled in all aspects of their design from initial planning to construction. In addition, he has extensive experience in water system modeling with extensive experience using water modeling software such as Water CAD and Water GEMS.

**Relevant Project Experience (Partial list):**

- Prince George Pump Station Design Build PPEA, City of Petersburg, VA
- Poor Creek Pump Station Design Build PPEA, City of Petersburg, VA
- Riverside Elevated Water Tank Design Build PPEA, City of Williamsburg, VA
- Meherrin River Regional Design Build, Brunswick and Mecklenburg Counties, VA
- Snowden, Fall Hill and Normandy Village Pumping Stations Design Build PPEA, City of Fredericksburg, VA
- Department of Corrections, Chesterfield Diversion Center Elevated Storage Tank and System Upgrades, Chesterfield County, VA
- Department of Corrections, St. Brides Correctional Center Wastewater Treatment Plant, City of Chesapeake, VA
- Department of Corrections, Indian Creek Wastewater Pump Station, City of Chesapeake, VA
- Department of Corrections, Pocahontas Wastewater Treatment Plant, Chesterfield County, VA
- West Creek Waterline Extension, Goochland County, VA
- Pentagon Wedge 5 Wastewater Pump Station, City of Arlington, VA
- East Area Utilities, Henrico County, VA
- Chapman St. Force Main and Gravity Sewer Extension, Town of Ashland, VA
- Thompson Street Reconstruction, Town of Ashland, VA
- South Center Street Waterline, Town of Ashland, VA



### KEY PERSONNEL RESUME

**Name:** Cecil McNair, EIT  
**Title:** Design Engineer  
**Name of Firm:** Timmons Group  
**Assignment:** A/E Design Engineer

**Years' Experience:** 14

**Education/Degree(s)/Year/Specialization:**

AS, Architectural Engineering Drafting Technology, John Tyler Community College, 1996  
BSCET, Civil Engineering Technology, Old Dominion University, 2000

**Active Registrations:**

Engineer in Training, Virginia

**Qualifications Relevant to this Project:**

Cecil McNair will work closely with the project team to prepare engineering and design documents according to the scope-of-services for your sewer replacement project. Cecil's is highly experienced drafting designs using computer-aided drafting (CAD) system in different aspects of water and wastewater engineering. He is also competent in AutoDesk Land Development and AutoDesk CAD-Overlay.

**Relevant Project Experience (Partial list):**

- Department of Corrections, Chesterfield Diversion Center Sanitary Sewer Replacement, Chesterfield County, VA
- Water and Wastewater Utilities for The Meadow Event Park, Caroline County, VA
- West Chester Commons Water Model, Chesterfield
- Meadowville Tract Waterline, Chesterfield County, VA
- Rockett's Landing, City of Richmond, VA
- Eastern Goochland Pump Station, Goochland County, VA
- Totopotomoy Effluent Force Main, Hanover County, VA
- Wastewater System for the New Fluvanna County High School, Fluvanna County, VA
- St. Brides Correctional Center Water System, City of Chesapeake, VA
- Orange County Middle School Off-Site Utilities, Orange County, VA
- Fluvanna County High School, Fluvanna County, VA
- Mountain Run Farm Water System, Chesterfield County, VA



## KEY PERSONNEL RESUME

**Name:** Christopher R. Petree, PE  
**Title:** Project Engineer  
**Name of Firm:** Timmons Group  
**Assignment:** A/E Project Engineer

**Years of Experience:** 6

**Education/Degree(s)/Year/Specialization:**  
BS, Mechanical Engineering, Virginia Military Institute, 2006

**Active Registrations:**  
Professional Engineer, Virginia, 2011, (#047803)

### Qualifications Relevant to this Project:

Chris Petree is experienced in the design, studies, evaluations and reports as related to wastewater collection, treatment facilities and water systems. Chris routinely joins the project team as a project engineer working closely with the team to create and transform ideas and concepts into a reality. He is highly experienced in computer-aided drafting (CAD) system, hydraulic modeling software and several aspects of water and wastewater engineering.

### Relevant Project Experience (Partial list):

- Prince George Pump Station Design Build PPEA, City of Petersburg, VA
- Poor Creek Pump Station Design Build PPEA, City of Petersburg, VA
- Riverside Elevated Water Tank Design Build PPEA, City of Williamsburg, VA
- Meherrin River Regional Design Build, Brunswick and Mecklenberg Counties, VA
- Snowden, Fall Hill and Normandy Village Pumping Stations Design Build PPEA, City of Fredericksburg, VA
- Artisan WaterWorks Water Model, Statewide, DE
- Augusta Health Sewer System Capacity Analysis, Fishersville, VA
- Sanitary Sewer Hydraulic Modeling, Fort Lee, VA
- Sanitary Sewer System Evaluation and Study, Isle of Wight, VA
- City of Richmond On-call Contract for Sanitary Sewer Inflow and Infiltration Inspection Services, City of Richmond, VA
- Pocahontas Correctional Center, Unit 13, Department of Corrections, Chesterfield County, VA
- Powhite Creek Pump Station, Hanover County, VA
- Courtland Interceptor Pump Station, Southampton County, VA
- Quarterpath Pump Station, Williamsburg, VA
- Lynbrook Pump Station, Baltimore County, MD
- Poplar Springs Pump Station, Henrico County, VA
- Pentagon Wedge 5 Wastewater Pump Station, Arlington, VA



**KEY PERSONNEL RESUME**

**Name:** Coleman Lyttle, PE  
**Title:** President  
**Name of Firm:** Lyttle Utilities, Inc.  
**Assignment:** Utility Project Manager

**Years' Experience:** 35

**Education/Degree(s)/Year/Specialization:**  
 BS, Business Management, Virginia Tech, 1975

**Qualifications Relevant to this Project:**

Experience includes work on plans, bidding, construction coordination, and scheduling of crews; oversee billing; negotiate contracts with developer, general contractors, and customers; project management, involving purchasing of materials, all correspondence, coordination of all functions which keep projects on schedule and within budget.

**Relevant Project Experience (Partial list)**

PROJECT NAME	OWNER/GC	ENGINEER	AMOUNT	COMPLETION DATE
Prince George Pump Station and Force Main	City of Petersburg	Timmons Group	\$1,789,172	March-12
West Broad Village	Unicorp	Timmons Group	\$7,700,000	April-10
Eastern Elko Trunk Sewer	Henrico County DPU	Dewberry & Davis	\$1,952,000	March-08
Lake Monticello Pump Station Rep	AquaSource	Various	\$1,775,000	December-04
The Meadows Force Main and Pump Station	Dickens Creek Siteworks	Timmons Group	\$765,570	July-07
Kentland Off-Site Sanitary Sewer and Pump Station	Kentland Investments	Koontz-Bryant	\$1,551,476	July-07
Greensville County WSA Gravity Sewer and Pump Station	Greensville County	Timmons Group	\$553,353	September-07
West Cary Pump Station	Town of Cary, NC		\$181,700	January-07
Harry Daniel Park Pump Station	Chesterfield Parks and Recreation	Hankins & Anderson	\$114,700	March-09

All above jobs were completed on time, without any liquidated damage, liens, claims or stop notices.



**KEY PERSONNEL RESUME**

**Name:** Mark O. Burcham  
**Current Position/Title:** Project Manager/Division Manager  
**Years' Experience:** 35

**Education/Degree(s)/Year/Specialization:**  
General Studies, Western Community College, 1986-1988

**Qualifications Relevant to this Project:**  
Manage trenchless department, initiates outreach and technical education to potential customers, responsible for negotiating and/or bidding work, scheduling field crews, and providing on-site technical and procedural guidance

**Relevant Project Experience (Partial list):**

PROJECT NAME	OWNER/GC	ENGINEER	AMOUNT	COMPLETION DATE
Eastern Elko Trunk Sewer	Henrico County DPU	Dewberry & Davis	\$1,952,000	March-08
Lake Monticello Pump Station Rep	AquaSource	Various	\$1,775,000	December-04
The Meadows Force Main and Pump Station	Dickens Creek Siteworks	Timmons Group	\$765,570	July-07
Kentland Off-Site Sanitary Sewer and Pump Station	Kentland Investments	Koontz-Bryant	\$1,551,476	July-07
Greensville County WSA Gravity Sewer and Pump Station	Greensville County	Timmons Group	\$553,353	September-07
West Cary Pump Station	Town of Cary, NC		\$181,700	January-07
Harry Daniel Park Pump Station	Chesterfield Parks and Recreation	Hankins & Anderson	\$114,700	March-09

All above jobs were completed on time, without any liquidated damage, liens, claims or stop notices





**KEY PERSONNEL RESUME**

**Name:** David C. Paulette  
**Current Position/Title:** Supervisor/Vice President of Operations  
**Years' Experience:** 49

**Education/Degree(s)/Year/Specialization:**  
 1960 Graduate of John Marshall High School Richmond, Virginia

**Qualifications Relevant to this Project:**  
 Supervise and assist in planning and coordination between field and office operations; substitute for foremen; assist in production estimates for bid purposes.

**Relevant Project Experience (Partial list):**

PROJECT NAME	OWNER/GC	ENGINEER	AMOUNT	COMPLETION DATE
Prince George Pump Station and Force Main	City of Petersburg	Timmons Group	\$1,789,172	March-12
West Broad Village	Unicorp	Timmons Group	\$7,700,000	April-10
Eastern Elko Trunk Sewer	Henrico County DPU	Dewberry & Davis	\$1,952,000	March-08
Lake Monticello Pump Station Rep	AquaSource	Various	\$1,775,000	December-04
The Meadows Force Main and Pump Station	Dickens Creek Siteworks	Timmons Group	\$765,570	July-07
Kentland Off-Site Sanitary Sewer and Pump Station	Kentland Investments	Koontz-Bryant	\$1,551,476	July-07
Greenville County WSA Gravity Sewer and Pump Station	Greenville County	Timmons Group	\$553,353	September-07
West Cary Pump Station	Town of Cary, NC		\$181,700	January-07
Harry Daniel Park Pump Station	Chesterfield Parks and Recreation	Hankins & Anderson	\$114,700	March-09

All above jobs were completed on time, without any liquidated damage, liens, claims or stop notices.





**KEY PERSONNEL RESUME**

**Name:** G. Stephen Paulini  
**Current Position/Title:** Estimator/Project Manager  
**Year' Experience:** 39

**Education/Degree(s)/Year/Specialization:**  
 B.A. History and Political Science, Virginia Commonwealth University, 1975

**Qualifications Relevant to this Project:**  
 Coordinate/submit commercial estimates, municipal bids, private quotations and other duties associated with estimation; project management of jobs contracted including obtaining permits, purchasing materials, writing correspondence and other management functions.

**Relevant Project Experience (Partial list):**

PROJECT NAME	OWNER/GC	ENGINEER	AMOUNT	COMPLETION DATE
Prince George Pump Station and Force Main	City of Petersburg	Timmons Group	\$1,789,172	March-12
West Broad Village	Unicorp	Timmons Group	\$7,700,000	April-10
Eastern Elko Trunk Sewer	Henrico County DPU	Dewberry & Davis	\$1,952,000	March-08
Lake Monticello Pump Station Rep	AquaSource	Various	\$1,775,000	December-04
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Greenville County WSA Gravity Sewer and Pump Station	Greenville County	Timmons Group	\$553,353	September-07
West Cary Pump Station	Town of Cary, NC		\$181,700	January-07
Harry Daniel Park Pump Station	Chesterfield Parks and Recreation	Hankins & Anderson	\$114,700	March-09



**KEY PERSONNEL RESUME**

**Name:** Benjamin E. Chapin  
**Current Position/Title:** Project Administrator/Project Manager  
**Year' Experience:** 5

**Education/Degree(s)/Year/Specialization:**  
 B.S. Business Management: Entrepreneurship, Innovation, and Technology, Virginia Tech, 2008

**Qualifications Relevant to this Project:**  
 Experience includes work on plans, bidding, and construction coordination; project billing; project management, involving purchasing of materials, all correspondence, coordination of all functions which keep projects on schedule and within budget.

**Relevant Project Experience (Partial List):**

PROJECT NAME	OWNER/GC	ENGINEER	AMOUNT	COMPLETION DATE
Prince George Pump Station and Force Main	City of Petersburg	Timmons Group	\$1,789,172	March-12
Harry Daniel Park Pump Station	Chesterfield Parks & Recreation	Hankins & Anderson	\$114,700	March-09
The Meadows Force Main & Pump Station	Dickens Creek Siteworks	Timmons Group	\$765,570	July-07

All above jobs were completed on time, without any liquidated damage, liens, claims or stop notices.



**c. CONTACT INFORMATION**

*Provide the names, addresses, and telephone numbers of persons within the firm or consortium of firms who may be contacted for further information.*

Versar, Inc.  
6850 Versar Center  
Springfield, VA 22151  
Office: 703.750.3000  
Website: [www.versar.com](http://www.versar.com)

Anthony Campbell, PMP, LEED AP  
Office: 703.589.0477  
Fax: 850.254.1943  
Email: [acampbell@versar.com](mailto:acampbell@versar.com)

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Timmons Group  
1001 Boulders Parkway  
Suite 300  
Richmond, VA 23225  
Office: 804.200.6500  
Fax: 804.560.1016  
Website: [www.timmons.com](http://www.timmons.com)

David Saunders, PE  
Office: 804.200.6388  
Fax: 804.560.1016  
Email: [david.saunders@timmons.com](mailto:david.saunders@timmons.com)

**d. FIRM FINANCIAL STATEMENT**

*Provide a current or most recently audited financial statement of the firm or firms and each partner with an equity interest of twenty percent or greater.*

Given the confidential nature of this document, the 2011 and 2012 Versar, Inc. Financial Statement is contained in Volume 2 and is marked Proprietary and Confidential, . Versar, Inc will be providing the required bonding for this project.

**e. DISQUALIFICATION STATEMENT**

*Identify any persons known to the proposer who would be obligated to disqualify themselves from participation in any transaction arising from or in connection to the project pursuant to the Virginia State and Local Government Conflict of Interest Act, Chapter 31 (§ 2.2-3100 et seq.) of Title 2.2.*

There are no individuals on the Versar, Inc PPEA Team who would be obligated to disqualify themselves from participation.



## 2.0 PROJECT CHARACTERISTICS

### a. PROJECT DESCRIPTION

*Provide a description of the project, including the conceptual design. Describe the proposed project in sufficient detail so that type and intent of the project, the location, and the communities that may be affected are clearly identified.*

This proposal, developed in cooperation with the City of Petersburg staff, addresses the proposed improvements; summarized as follows:

**Force Main Improvements:** Rehabilitation of the existing Poor Creek Force Main generally from the east edge of East Washington Street (Route 36) to the North edge of US Route 460. Rehabilitated force main segments will have acceptable serviceability for the City's planning horizon of the Poor Creek Pump Station service area.

Versar, Inc. detailed project descriptions, schedule and cost proposal are contained in Volume 2 of this proposal. **Volume 2 is marked Proprietary and Confidential.**

The Versar, Inc. PPEA team will provide all the engineering and support services and construction efforts for the **Rehabilitation of the Poor Creek Pump Station Force Main**. Detailed project descriptions and project location exhibits are provided in Volume 2 – Proprietary and Confidential, Section 2.

The project descriptions and overall program approach rely on review of available as-built engineering drawings of the existing pump station and force main, discussions with City staff and visual inspections and field reconnaissance of the project site.

### b. CITY OF PETERSBURG WORK AND RESPONSIBILITIES

*Identify and fully describe any work to be performed by the City or any other public entity.*

The proposed Versar, Inc. Scope of Work for the proposed PPEA effort specifically excludes the following areas of work and financial obligation:

- 1.0 Regulatory Permitting Fees: It is anticipated that permitting fees may be required from those federal and state regulatory agencies listed in Section 2.c. The Versar, Inc. PPEA Team will develop the necessary documentation for permit submittal to include the permit application, engineering plans, technical specifications, reports, etc. Payment of any and all regulatory fees will be the responsibility of the City of Petersburg.
- 2.0 Other Permitting Fees: It is anticipated that other non-regulatory organizations may require permitting and or application review fees. Such organizations include but are not necessarily limited to the City of Petersburg. Payment of any and all fees related to these non-regulatory permits will be the responsibility of the City of Petersburg.
- 3.0 Purchase of Easements or Land: It is proposed that the City will acquire all land and/or easements necessary to complete this project. The Versar, Inc. PPEA team has not included the price of land or easement acquisition in this proposal; however the preparation of plats for these acquisitions are included.



The City of Petersburg Department of Public Utilities and the Versar, Inc. Team will need to coordinate public affairs for and during the proposed PPEA program. These activities will include, as required, but not necessarily be limited to conducting participation in public meetings, presentation of PPEA information to public entities (i.e., City Council), and liaison with City official as necessary.

**c. PERMITTING**

***Include a list of all federal, state, and local permits and approvals required for the project and a schedule for obtaining such permits and approvals.***

It is anticipated that at a minimum, permits, coordination and or documentation could be required from the following regulatory agencies and organizations;

- Virginia Department of Environmental Quality (VDEQ) - Wastewater system and Clean Water Act (CWA) permit for stream crossing
- Virginia Department of Transportation (VDOT) - R/W, utilities relocation, etc.
- Virginia Marine Resources Commission (VMRC) – State permit for stream crossing
- US Army Corps of Engineers (COE) - Wetlands delineation, CWA permit for stream crossing, endangered species and cultural resource coordination
- City of Petersburg - Excavation, sedimentation and erosion control, etc.
- City of Petersburg - Building permit
- Virginia Department of Conservation and Recreation (DCR) – Virginia Stormwater Management Program (VSMP) Permit for Construction Activities

The proposed project schedule assumes a three-month review process for the state and federal permits following submittal of the application and appropriate documentation, typically the project engineering plans and technical specifications. A much shorter period of less than two weeks is anticipated for any of the internal City of Petersburg permits.

**d. ADVERSE IMPACTS**

***Identify any anticipated adverse social, economic, and environmental impacts of the project. Specify the strategies or actions to mitigate known impacts of the project.***

Beyond the normal minor disruptions typically encountered during the construction of major capital improvements projects, no adverse social, economical, and/or environmental impacts are anticipated with the proposed projects.

The Versar, Inc. Team's ability to successfully minimize and mitigate the problems normally encountered during construction projects is due to careful planning, coordination and skillful execution by the Team. We are confident that we can minimize or eliminate adverse construction activity impacts during the proposed project.

**e. POSITIVE IMPACTS**

***Identify the projected positive social, economic, and environmental impacts of the project.***

The proposed force main improvements will enable the City to provide a higher level of wastewater service, thus resulting in increased economic development and growth potential.

The sewer service area impacted by this project lies directly adjacent to a major transportation corridor and intersection with Interstates 95 and 295; thus providing for one of



the most critical components in marketing property for economic development, an adequate, safe, and reliable wastewater system.

The health and well-being of the City of Petersburg community, as well as the environment, the economy, and the future, depend on the continued maintenance and support and funding of water and wastewater infrastructure at all levels. The primary benefits of modern water and wastewater infrastructure is to provide the following;

- Protects the public health by controlling and eliminating waterborne diseases.
- Safeguards the environment by maintaining ecosystems that allow many species of plants, animals, and marine life to prosper and provide sustenance for humans.
- Stimulates and maintain economic growth by creating jobs and accommodating new growth in communities.
- Allows the U.S. citizens to enjoy a higher standard of living than that most other countries because we can confidently use our water for drinking, cooking, and recreation.

The citizens of the City and surrounding communities will benefit by enjoying a higher standard of living due to updated wastewater infrastructure. The safe discharge properly treated wastewater is critical to safeguarding our environment and public health.

**f. PROPOSED SCHEDULE**

***Identify the proposed schedule for the work on the project, including the estimated time for completion.***

See Volume 2– Proprietary and Confidential, Section 2 for the proposed preliminary schedule.

**g. RISK ALLOCATION AND LIABILITY**

***Propose allocation of risk and liability for work completed beyond the agreement's completion date, and assurances for timely completion of the project.***

By definition, a partnership contemplates a division of labor and risk allocation between the participants in a common enterprise. In the case of a public-private partnership, the public participant has the ability to set the stage for development in ways and timeframes that might not be achievable by the private sector acting alone. This PPEA proposal is based on the risk allocations and assumptions listed below.

In order to reduce risks with respect to proposed cost and schedule, the Versar, Inc. Team will assume the following risks;

- A Guaranteed Maximum Price (GMP) (Lump Sum basis) will be offered based on final negotiations with the City of Petersburg as defined by the agreed-to Scope of Work.
- Bonding - Versar, Inc. performance obligation will be guaranteed by Payment and Performance Bonds for each project. Alternately, a single Performance Bond for the entire PPEA program may be negotiated.

The City of Petersburg is expected to assume the following risks with respect to the proposed PPEA program;

- Failure to approve and or acquire necessary permits, property and easements. The City will be responsible for delays in acting on permitting and easements that negatively impact project costs.



**h. OPERATIONAL ASSUMPTIONS AND RESTRICTIONS**

***State assumptions related to ownership, legal liability, law enforcement, and operation of the project and the existence of any restrictions on the City's use of the project.***

There are no known operational assumptions and/or restrictions to the city's use of the installed utilities following successful inspection, testing and acceptance of the assets by the City.

**i. PHASED OPERATION**

***Provide information relative to phased or partial openings of the proposed project prior to completion of the entire work.***

No phased operation of the proposed project is anticipated.

**j. OTHER ASSUMPTIONS**

***List any other assumptions relied on for the project to be successful.***

Other key assumptions related to the project approach are listed in Volume2, Section 2.

**k. CONTINGENCIES**

***List any contingencies that must occur for the project to be successful.***

Other key contingency items related to the project approach are listed in Volume 2, Section 2.



### 3.0 PROJECT FINANCING

The Versar, Inc. financial proposal includes detail cost and bid information, technical and contractual assumptions regarding allowances and pricing for various elements of the program. For these reasons, this information is considered Proprietary and Confidential and is therefore included in a separate volume of this proposal not intended for public disclosure. Volume 2, Section 3 - Proprietary and Confidential, Technical and Cost Proposal, is intended solely for the confidential use by the City of Petersburg, per the Virginia PPEA guidelines adopted by the City of Petersburg, Volume 2, Section 3 addresses the following items;

- a. ***Provide a preliminary estimate and estimating methodology of the cost of the work by phase, segment, or both.***
- b. ***Submit a plan for the development, financing, and operation of the project showing the anticipated schedule on which funds will be required. Describe the anticipated costs of and proposed sources and uses for such funds including any anticipated debt service costs. The operational plan should include appropriate staffing levels and associated costs. Include supporting due diligence studies, analyses, or reports.***
- c. ***Include a list and discussion of assumptions underlying all major elements of the plan. Assumptions should include all significant fees associated with financing given the recommended financing approach. In addition complete disclosure of interest rate assumptions should be included. Any ongoing operational fees, if applicable, should also be disclosed as well as any assumptions with regard to increases in such fees.***
- d. ***Identify the proposed risk factors and methods for dealing with these factors.***
- e. ***Identify any local, state, or federal resources that the proposer contemplates requesting for the project. Describe the total commitment, if any, expected from governmental sources and the timing of any anticipated commitment. Such disclosure should include any direct or indirect guarantees or pledges of the City's credit or revenue.***
- f. ***Identify the amounts and the terms and conditions for any revenue sources.***
- g. ***Identify any aspect of the project that could disqualify the project from obtaining tax-exempt financing.***



#### 4.0 PROJECT BENEFIT AND COMPATIBILITY

##### a. BENEFITS

***Identify who will benefit from the project, how they will benefit, and how the project will benefit the City, region, or state.***

The local residents and business owners within the City of Petersburg and surrounding communities and the tax payers in the Commonwealth of Virginia will benefit from this project. The residents and business owners within the City and surrounding communities will benefit by having a safe and reliable sewer system to convey wastewater within the Poor Creek basin to downstream treatment facilities. The tax payers within the City and the Commonwealth of Virginia will benefit by having increased potential for economic growth, development and tax base within the sewer service area served by this project. The City of Petersburg will benefit by having a reliable pumping and force main system constructed of modern materials and equipment, thus reducing maintenance and emergency response costs.

##### b. SUPPORT AND OPPOSITION

***Identify any anticipated public support or opposition, as well as any anticipated government support or opposition, for the project.***

It is anticipated that City officials, local residents, developers and the business community will all support the proposed PPEA program. The proposed improvements being constructed through the PPEA program will provide a safe and reliable sewer system to convey wastewater generated within the Poor Creek drainage basin. As a result of these improvements, increased economic development can occur within the pump station service area. It is anticipated that opposition to the project will be limited to those concerned about capital spending by the City and the resulting impact to the City budget and taxes.

##### c. STRATEGY FOR INVOLVEMENT AND INFORMATION

***Explain the strategy and plans that will be carried out to involve and inform the general public, business community, and governmental agencies in areas affected by the project.***

The Versar, Inc. team recognizes that there are many constituencies beyond those immediately involved in the procurement and construction process. The PPEA process enables the team to be proactive in reaching out to these groups. The Versar, Inc. team will work with the City and others to develop and execute public outreach as necessary to foster support for the project.

As has been done on prior municipal projects, Timmons Group will assist the City in conducting meetings as deemed necessary with business groups, civic organizations, and City officials at the outset of the project. These efforts may be followed by the development of a mutually agreed upon mechanism (newsprint articles, web site content, etc.) for all interested parties to follow the project's status until completion.



**d. SIGNIFICANT BENEFITS TO THE CITY**

***Describe the anticipated significant benefits to the community and the City, region or state, including anticipated benefits to the economic condition of the City and whether the project is critical to attracting or maintaining competitive industries and businesses to the City or the surrounding region.***

The proposed force main improvements will enable the City to provide a higher level of wastewater service, thus resulting in increased economic development and growth potential.

The sewer service area impacted by this project lies directly adjacent to a major transportation corridor and intersection with Interstates 95 and 295; thus providing for one of the most critical components in marketing property for economic development, an adequate, safe, and reliable wastewater system.

The health and well-being of the City of Petersburg community, as well as the environment, the economy, and the future, depend on the continued maintenance and support and funding of water and wastewater infrastructure at all levels. The primary benefits of modern water and wastewater infrastructure is to provide the following;

- Protects the public health by controlling and eliminating waterborne diseases.
- Safeguards the environment by maintaining ecosystems that allow many species of plants, animals, and marine life to prosper and provide sustenance for humans.
- Stimulates and maintain economic growth by creating jobs and accommodating new growth in communities.
- Allows the U.S. citizens to enjoy a higher standard of living than that most other countries because we can confidently use our water for drinking, cooking, and recreation.

The citizens of the City and surrounding communities will benefit by enjoying a higher standard of living due to updated wastewater infrastructure. The safe discharge properly treated wastewater is critical to safeguarding our environment and public health.

**e. COMPATIBILITY WITH CITY'S PLAN**

***Describe compatibility with the City's comprehensive plan, infrastructure development plans, the capital improvements budget, or other government spending plan.***

It is understood that the proposed improvements to the force main are compatible with the City's comprehensive plan, development plans, and capital improvements budget.

Due to Federal and State environmental regulations, it is necessary for the City of Petersburg to maintain utility systems, which do not lead to any form of environmental degradation



**f. PARTICIPATION EFFORTS**

***Provide a statement setting forth participation efforts that are intended to be undertaken in connection with this project with regard to the following types of businesses: (i) minority-owned businesses, (ii) woman-owned businesses, and (iii) small businesses.***

Versar, Inc. is committed to utilize MBE contractors (to include small and woman-owned businesses) where ever feasible. In order to promote as much SBE, MBE and WBE participation as possible, Versar, Inc. will advertise and solicit MBE/WBE participation through their website and/or print ads (newspaper) for each sub project. Versar, Inc. will also investigate all potential SBE/MBE/WBE opportunities with the City of Petersburg.