

PUBLIC

FAULCONER

CONSTRUCTION COMPANY

WITH



JAMES RIVER WATER SUPPLY PROJECT PPEA

JAMES RIVER WATER AUTHORITY

VOLUME I

FEBRUARY 12, 2014



Submitted By:

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February 12, 2014

Mr. Goodman B. Duke, Chair
James River Water Authority
Fluvanna County Office Building
Main Street
Palmyra, VA 22963

Re: PPEA Proposal; James River Water Supply Project

Dear Mr. Duke,

Faulconer Construction Co., Inc. (FCC or Faulconer), Timmons Group, and teaming partner MEB General Contractors (MEB), are pleased to submit our combined credentials, technical approach and pricing for the above referenced project. We are confident that our team's approach provides the least risk, most expeditious solution and best value to meet the County's water supply needs.

As you review our qualifications, please note that FCC, Timmons Group, and MEB are all well known for their esteemed reputation statewide in construction management and civil engineering and are well prepared to take on this assignment.

The Faulconer/Timmons Group/MEB Team's characteristics include:

- Safe and streamline operations; with EMR's consistently well under 1.0.
- Civil design and construction expertise with over 158 years of combined corporate experience.
- Long history of working together; including PPEA projects.
- Leadership that proactively manages risks through careful planning and open communication.
- Ability to meet schedules, with a history of 100% on-time completion of projects.

In accordance with the PPEA Guidelines, we are requesting that Volume II of this proposal, which contains detailed project descriptions, cost and schedule estimates, corporate financial statements and other proprietary information remain proprietary and confidential.

A PPEA proposal and Conceptual Stage review fee for the project components included in this proposal were previously submitted to the County of Louisa; we therefor request that the Authority waive the Conceptual Stage review fee for this project.

We thank you for the opportunity to submit our proposal and qualifications. For your convenience, we have also submitted one copy of Volumes I and II to the County Administrator's Office in Fluvanna and Louisa as well the office of Hefty & Wiley, P.C. Should you have any questions or need additional information, please do not hesitate to contact me at 434-295-0033 or 434-906-5257.

Sincerely,

Mr. Edwin F. Stelter, LEED AP, DBIA
Design-Build Principal
Faulconer Construction Company, Incorporated



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 James River Water Authority Procedures regarding requests made pursuant to the Public-Private Education Facilities and Infrastructure Act of 2002, agreeing to the terms of the Procedures as adopted by the Authority on February 4, 2014. The undersigned also certifies that the information contained in its proposal is accurate and complete.

THE FAULCONER/TIMMONS GROUP/MEB TEAM

By: David H. Galloway
David H. Galloway

Title: Vice President

Date: February 12, 2014



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EXECUTIVE SUMMARY

In conformity with the James River Water Authority (JRWA) Adoption of the guidelines for Private-Public Education Facilities and Infrastructure Act (PPEA) **THE FAULCONER/TIMMONS GROUP/MEB TEAM** is submitting this PPEA proposal for the design and construction of the **James River Water Supply Project** utilizing the James River as a source. In developing this proposal, FCC utilized the Virginia PPEA guidelines as adopted by the Authority on February 4, 2014. The proposal is divided into two volumes. Volume I predominantly addresses the requirements of Section 1, 2 and 4 of the PPEA guidelines and is marked **Public**. **Volume II includes detailed project descriptions, cost and schedule estimates and other proprietary information 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 Authority in terms of reducing risk, cost savings and an accelerated design and construction schedule for these projects.

The primary objective of this PPEA is to provide a comprehensive raw water utility system to serve the James River Water Authority members by providing a reliable and adequate raw water supply from the James River. The proposed PPEA project provides opportunities to enhance the quality of life and promote economic development through the provision of a reliable raw water supply system.

This proposal is based on the design and construction (**Design-Build**) of the **James River Water Supply Project** consisting of a new River Water Intake and Pump Station near the Town of Columbia. Additionally, the project will include the construction of a raw water pipeline segment that will terminate in the vicinity of the Colonial Pipeline easement on the north side of State Route 6. The project will provide a point of connection on the raw water pipeline for continuation of raw water and other water system facilities by each of the Authority member Counties of Fluvanna and Louisa.

System Capacity Assumptions

The raw water withdrawal rates and permit conditions are based on the existing water withdrawal permit #04-0805, dated June 9, 2006. This permit was issued to the Fluvanna County and then transferred to the James River Water Authority for the withdrawal of water 2000 feet downstream of US Route 15 on the James River. This proposal is based on the re-issuance of this permit for an intake located at the Town of Columbia downstream of the confluence of the Rivanna and James Rivers.

Permit #04-0805 was issued with the following conditions:

1. *Maximum Daily Withdrawal = 5.7 (MGD) million gallons per day*
2. *Maximum Annual Withdrawal = 1.1 billion gallons*
3. *The annual withdrawal limit shall be reduced by 54.75 million gallons if the Department of Corrections renews Virginia Water Protection Permit Number 95-0957 to withdraw water from Mechunk Creek.*
4. *The annual withdrawal limit shall be reduced by 460 million gallons if the County of Louisa constructs an alternative water supply system to provide water to the Zion Crossroads with water from Bowlers Mill Reservoir.*

It is understood that the Department of Corrections will not participate in this project therefore, based on the above stated permit condition Item 3, the maximum annual withdrawal will be reduced by 54.75 million gallons resulting in a revised maximum annual withdrawal of 1.04525 billion gallons. This relates to a 2.85 MGD average daily withdrawal rate.



Based on the permit conditions, the **James River Water Supply Project** has been configured as follows:

Raw Water Intake and Pump Station:

Intake, pump station wetwell and piping are sized to withdraw the maximum daily rate of 5.7 MGD.

Pump Station Pump Equipment:

| | |
|----------------------------------|---------|
| Initial Configuration Pump Rate: | 3.0 MGD |
| Future Configuration Pump Rate: | 5.7 MGD |

Raw Water Pipeline Facilities:

| | |
|----------------------------------|---------|
| Initial Configuration Pump Rate: | 3.0 MGD |
| Future Configuration Pump Rate: | 5.7 MGD |

The design of the **James River Water Supply Project** accounts for necessary peaking factors, favorable operation duty cycle and the provision of redundant equipment where applicable. The facilities have been configured to allow expansion to the future configuration without disruption of service.

Pending relocation of the withdrawal permit and conditions set forth in the revised permit, adjustments to the above stated design parameters will be taken into consideration during the Interim (Design) Phase of the project.

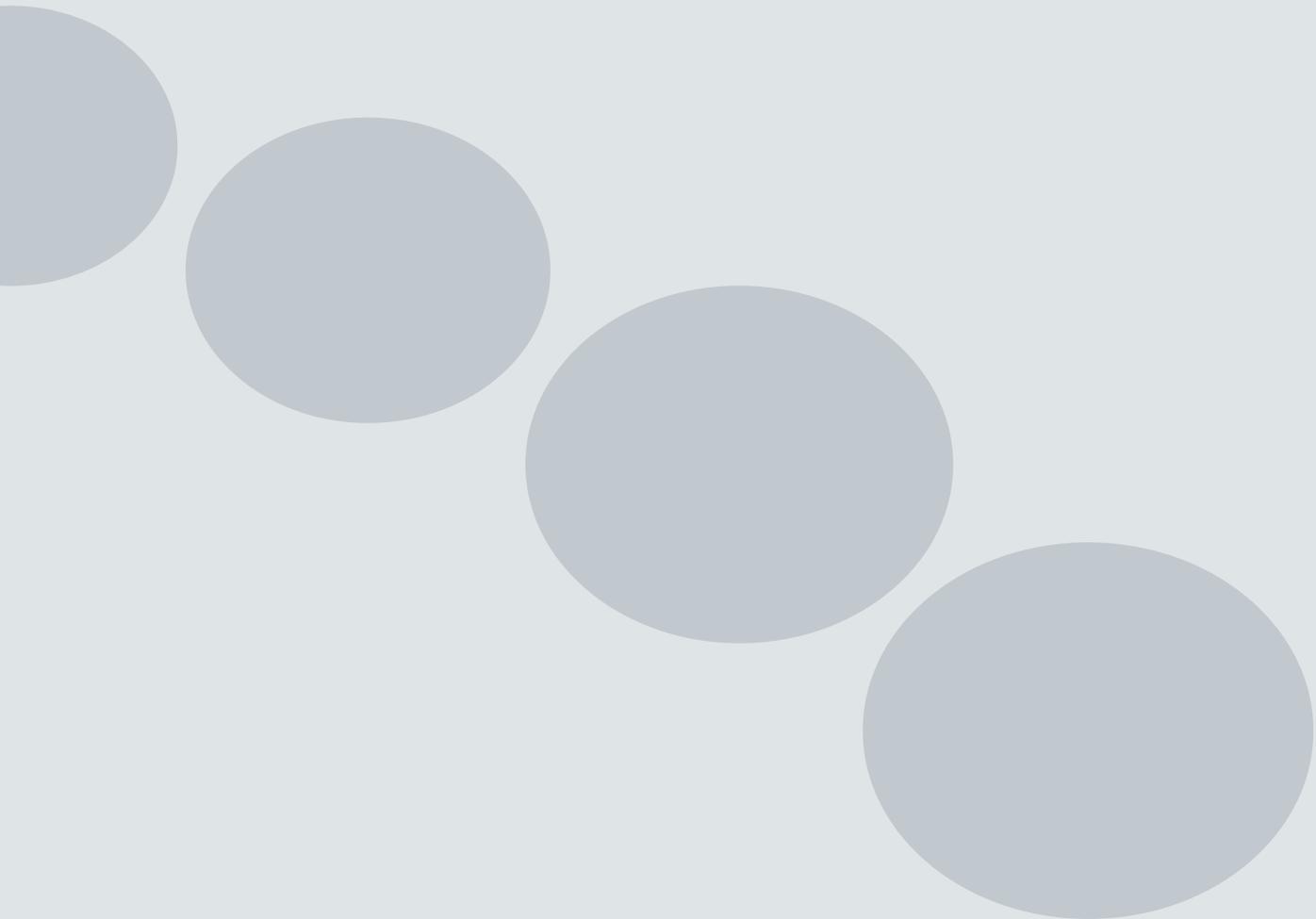
Detailed project descriptions, schedule and cost proposals are contained in Volume II. **Volume II is marked Proprietary and Confidential.**

FCC will act as the sole entity or corporation presenting the PPEA. FCC has assembled a seasoned group of professionals and subcontractors to serve the interests of the Authority and to provide the best possible resources. The Faulconer/Timmons Group/MEB Project Team will consist of FCC 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.

FCC and teaming partner MEB will self-perform the majority of the proposed construction.

FCC is a privately owned company, in operation for 60 years throughout the Mid-Atlantic States with the majority of contracts occurring in Virginia and North Carolina. Timmons Group has been an engineering and survey firm located throughout Virginia for 60 years having completed numerous utilities projects for municipal clients throughout the mid-Atlantic region. MEB General Contractors has enjoyed over 30 years of success in the mid-Atlantic region and has built a diverse portfolio as a Design-Builder and General Contractor. We have also included a property acquisition subconsultant, KDR Real Estate Services (KDR); an underground utility subconsultant, InfraMap Corporation; an electrical/SCADA engineering consultant, William R. Jennings, Consulting Engineering, PC; as well as a structural engineer, Bigoney Engineering. All of these firms are well versed in their respective industries and will be an asset to our team. This combination of local talent, specific PPEA utilities project knowledge and experience will serve to offer the County of Louisa an outstanding PPEA program at the most-cost effective price.

SECTION I





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.

FCC will be the lead with Timmons Group as the Designer, and MEB as the Specialty Mechanical Subcontractor 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 sub-consultants will be engaged directly as a Consultant to FCC. Because of this structure, the JRWA achieves a single point of contact and responsibility to effectively accomplish the needed improvements.

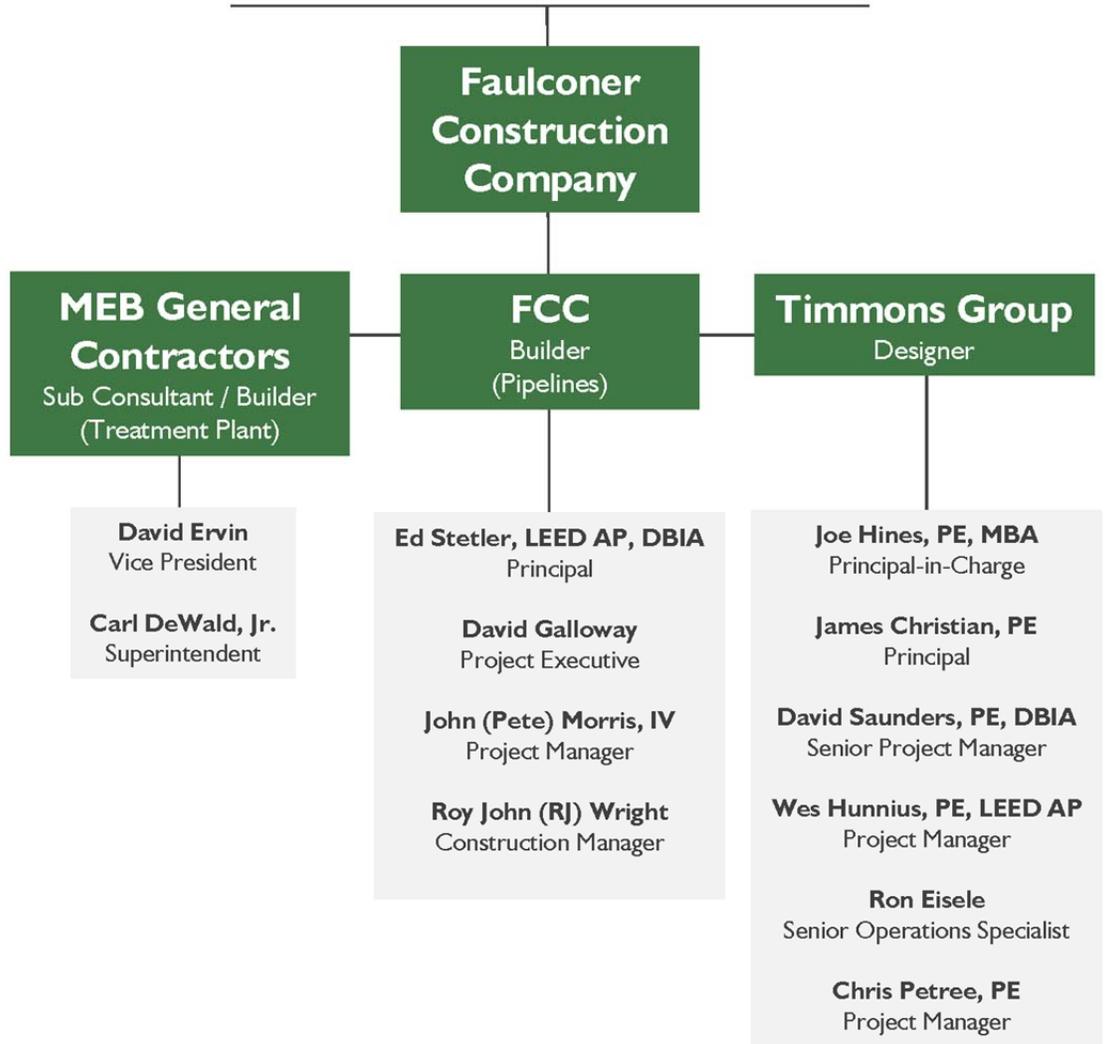
b. PROJECT TEAM EXPERIENCE

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.

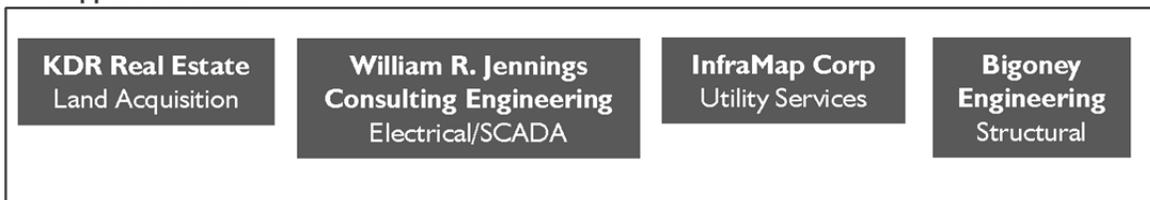
FCC has assembled a team for this PPEA proposal which is capable of providing all the necessary engineering, permitting and construction expertise, including the support services required to complete a project of this nature. FCC will sub-contract property acquisition services to KDR Real Estate Services; all subsurface utility location services to InfraMap Corporation; all electrical/SCADA engineering services to William R. Jennings, Consulting Engineering, PC; and structural engineering services to Bigoney Engineering. MEB will provide specialty sub-contracting services for mechanical components and systems and Timmons Group will provide all the design and support services. FCC will provide the project management, procurement, and construction items. In addition, FCC 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 FCC upon entering into a Comprehensive Agreement with the JRWA.



James River Water Authority



Support Services





TEAM INTRODUCTION

Through the development of a formal teaming agreement, the team of Faulconer Construction Co., Inc., MEB General Contractors, Inc. and Timmons Group, Inc. has the knowledge, experience and resources to fully develop, execute and deliver the goals and objectives of the JRWA by bringing a sufficient and reliable raw water supply from the James River to for use by the member Counties, Fluvanna and Louisa, for their use in developing water supply systems.

With over 158 years of combined corporate experience, our team's history includes the design and construction of countless similar projects throughout the Commonwealth of Virginia and surrounding states.

We offer highly qualified key personnel who have worked on similar projects, many of whom have hands on experience. Our key personnel have developed well established relationships throughout the community and industry that are advantageous to project communication and coordination. Our comprehensive management approach includes well-defined roles and responsibilities, an emphasis on safety, disciplined project controls procedures, clear communications, and responsive customer interactions. We take our commitments to projects seriously, work with integrity, and provide value to our customers.

Our team is no stranger to Design-Build, having worked on numerous infrastructure projects in various capacities such as the prime contractor, dedicated key subcontractor or equity partner. The work has included a wide spectrum of infrastructure work for local, state and federal agencies as well as private owners. Furthermore, all firms have on staff multiple DBIA (Design-Build Institute of America) Designated Design-Build Professionals™ who understand the PPEA design-build process.

Faulconer's extensive experience in management, utilities, excavation, plant work and structural concrete; MEB's broad experience with the management and construction of mechanical, pump and treatment systems; and Timmons' years of experience in the design of utility pipeline delivery and water treatment systems; guarantee that this project will be the beneficiary of the highest standards of performance with regards to safety, quality and schedule.

With proven past performance, Faulconer, MEB and Timmons assure the JRWA that we have the capability to meet the Authority's goals and objectives. The proposed work capitalizes on the team's combined strengths. It's what we do every day.

OUR TEAM offers...

- A pre-established working relationship with and Authority member, the County of Louisa – *Collectively and individually, our team has been and is currently under contract with Louisa County on other projects.*
- Project control through high self-performance – *The FCC/Timmons/MEB team will self-perform in excess of 80% of the proposed work, strengthening our ability to control both quality and schedule.*
- Knowledgeable and reliable employees – *Our employees are professionals who work as a team and go the extra mile to produce quality results.*
- Support of SWaM businesses – *As a former small business, we emphasize opportunities for SWaM companies.*
- Safe and streamlined operations – *Collectively, our team has a consistently outstanding safety record, with EMRs well under 1.0.*
- Expertise in infrastructure construction – *Our team's experience includes numerous projects over the past fifty years that involve the design and construction of critical infrastructure.*
- Ability to meet the schedule – *As a result of careful planning, our team has a history of 100 percent on-time completion.*
- Clear communications – *Our project management staff excels at facilitating communications that support smooth execution.*
- Effective risk mitigation strategies – *Our team's collaborative culture of careful planning and groundwork mitigates the unexpected.*



FAULCONER GROUP FIRM OVERVIEW



Faulconer Construction Company, Inc. FCC has been in business for over 65 years. Following the end of World War II in 1946, Faulconer was named as the successor company to Rhinehart and Dennis, a large construction firm that performed projects nationwide and which had its origin in Charlottesville in the late 1800's. Faulconer was formally incorporated in 1954 and the Sanford family began its current ownership position in 1961.

Faulconer's emphasis on teamwork has made them a valuable partner through the design build process.
- CDM Project Management Staff,
WWTP Upgrade, Stuarts Draft, VA

The company has been one of the most prominent civil contractors in central Virginia for many years. We are currently ranked #249 in Engineering News – Record's Top 600 Specialty Contractors. Our firm's experience is extensive and encompasses all facets of the civil infrastructure spectrum. We have completed large, fast track projects for private, industrial, retail and government based customers and is fortunate to have repeat customers on many of its projects. Our depth of experiences combined with our experience through history has helped shaped a company that can adapt to almost every situation that might arise.

Our headquarters is in Charlottesville, Virginia and we have regional offices located in Raleigh, North Carolina and Culpeper, Virginia. We perform work throughout the Mid-Atlantic States with the majority of contracts occurring in Virginia and North Carolina. Our company holds contracting licenses in Virginia, North Carolina, South Carolina, Tennessee and West Virginia.

We currently employ approximately 300 people. This includes degreed Engineers and Registered Professional Engineers. We own or lease approximately 200 pieces of major construction equipment and an additional 95 smaller vehicles and rolling stock. **Operationally, our company traditionally self performs approximately 80% of our volume of annual revenue.**

We have provided services to a client base which includes universities/colleges, institutions, **local and state agencies**, healthcare providers, non-profit organizations, private corporations, school systems, sports teams and private entities. Through the years, we have established a reputation for progressive, high-quality construction services by possessing a strong set of capabilities and a proven track record for not only meeting project schedules but also assisting owners, general contractors, and construction managers "push" other trades to maintain their performance schedules.

Accountability for the safety of our employees, partners, and customers starts with our Owner and is embraced by all levels within our organization. With our Safety Program Target Zero, we have put **safety above all other aspects of our business, including schedule and production**, even to the extent that we allow each and every individual the authority and responsibility to stop work without fear of reprisal should they question the safety of any given activity. This has led to a consistently outstanding safety record as illustrated by our EMR (Experience Modifier Rate).

| Faulconer Construction's EMR Rate (Experience Modifier Rate) | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|
| 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
| 0.75 | 0.80 | 0.90 | 0.92 | 0.86 | 0.75 | 0.85 | 0.87 | 0.78 | 0.86 |



FCC REPRESENTATIVE EXPERIENCE

Faulconer Construction has performed work in many different sectors and in a variety of capacities, and is especially accustomed to working with, in and around multiple trades and interfacing with other outside participants and interests. Upon further request we are able to present extensive project examples and references. However in an attempt to keep this information succinct and straight forward for easier review, we have included several samples of projects that either are or have included major utility infrastructure upgrades and components, and that show our depth and breadth of capabilities and diversity in projects.

Project: Initial Capital Upgrades for Knox Street and Reilly Road (Two projects)

Location: Fort Bragg, NC

Contact: Todd Kilduff, Old North Utility Services, Inc.; Phone: (910) 495-1311

Construction Contract Value: \$5,431,000

Faulconer Construction is contracted directly with Old North Utility Services, which is the government’s representative that builds and maintains the entire Ft. Bragg water and sewer system. The project consists of predominantly C900 PVC waterline that parallels two of the busiest roads on Ft. Bragg. The two projects include a combine to total 37,000 linear feet of 8”, 12”, and 20” waterline removal and replacement, with approximately 16,000 LF in the Knox Street area and 21,000 LF in the Reilly Road area.



The project also includes directionally drilling fusible C900 waterline for approximately 6,000 LF under roads and several large streams. Additional work we have had approximately 200’ of jack and bore under existing rail road lines. There is also a section of about 4,000 LF paralleling a railroad inter-modal yard used to load and haul the military’s fleet of combat equipment. This in conjunction with maintaining continuous water service on the main line and all associated services to multiple housing and operational buildings has placed a heavy coordination effort on our team.

A difficult challenge that we have been able to overcome is the lack of good as-built information of the existing underground infrastructure. The difficulty has been taking care of the existing infrastructure and safely installing the new line that has to be modified, at some points, from the proposed plans. This coordination effort is done as a team between the owner, the engineering firm, and our field and office staff. We have done a good job to trouble shoot these conflicts and changes in condition by physically locating the proposed path of the new line and interfacing with the other parties involved to minimize cost and schedule impacts.

Customer Feedback/Quotations:

Based on Subcontractor Performance Evaluation dated 01/26/12 by Todd Kilduff with ODUS, Faulconer achieved, without exception, a perfect score of 5 (Exceptional) in all categories. These categories include; quality of work, cost controls, timeliness of performance, effectiveness of subcontract management, and environmental awareness and adherence to regulations. The overall performance assessment was rated “Excellent – Definitely recommend a future award”

Todd Kilduff, PTL



Project: North Anna Power Station - Site Implementation Site Separation Activities

Location: Mineral, Virginia

Contact: Dean Price, Dominion Virginia Power; Phone: (540) 894-2147

Construction Contract Value: \$18,952,000

Falconer Construction was awarded the Site Implementation Site Separation Activities at Dominion's North Anna Power Station in 2010. This project is predominantly the wholesale removal and relocation of existing infrastructure as well as installation of new infrastructure required to separate the existing operating units (North Anna 1 and 2) from the areas that may be utilized to construct a planned new generating unit at North Anna Power Station (North Anna 3) if Dominion chooses to move forward with the new unit.

The project included extensive demolition, clearing and grubbing, erosion control, 210,000 CY of excavation, 110,000 TNS of imported select fill, 5,500 LF of storm sewer and related structures, 4,800 LF of sanitary sewer gravity and force main, six sanitary sewer pump stations, 16,000 LF of water and fire mains, 410 LF of precast box tunnel, 27,000 LF of communication and electrical lines, standby generator, communication compound shelter, outage support shelter, salt-sand storage building, stone base and paving.

All the work takes place inside the secure area of Dominion's North Anna Power Station which requires all of our onsite personnel to pass an extensive background check.





Project: Luray Sewage Treatment System Upgrade

Location: Luray, VA
Contact: Bryan Chrisman, Town of Luray
Phone: 540.743.5511
Construction Contract Value: \$5,986,000



Faulconer was awarded the Sewage Treatment Plant Upgrade Project in early 2009. The work included modifications to the existing oxidation ditch #1 and #2 and existing final clarifier #1 and #2; installation of a new flow splitter tank, new final clarifier #3, new return activated sludge pump station, new tertiary denitrification filtration system, two new equipment buildings and piping; associated site work and yard piping; electrical work and SCADA controls. The existing plant was required to remain online at all times which required multiple phasing of structures and utilities in order not to disrupt service.

Customer Feedback/Quotations:

“In this environment, where blame and finger pointing seems par for the course, Faulconer Construction Company was a pleasure to work with.”

Charles M. Hoke, Utility Director, Town of Luray

“I would highly recommend Faulconer Construction Company due to their professionalism and skilled craftsmanship.”

Bryan T. Chrisman, Assistant Town Manager, Town of Luray

“It has been a pleasure working with the outstanding people at Faulconer Construction on the Town of Luray Sewage Treatment Plant Upgrade. Everyone displayed a “can do” attitude and working as a team to provide the Town with a quality project delivery.”

Wade Tanner, PE, Reid Engineering

Project: Louisa County Zion Crossroads WWTP Effluent Outfall PPEA

Location: Zion Crossroads, VA
Contact: Dean Rodgers (Louisa County Water Authority), General Manager, (540)-967-1122
Construction Contract Value: \$5,847,160

Faulconer Construction and Timmons Group teamed together in response to an unsolicited PPEA submitted to Louisa County. In February 2013 Louisa County and Faulconer entered into an interim agreement to start the process of providing Louisa County with needed infrastructure. The project consists of design and construction of an Effluent (Reclaimed Water) Force Main to relocate the Zion Crossroads Wastewater Treatment Plant Effluent to the South Anna River, and appurtenant facilities to included but not limited to Effluent Pump Station, Chlorination, De-Chlorination and Bulk Storage facilities, Depending of funding and the County’s desires, the project may also include the study, planning, design, permitting and construction of raw water, potable water, reclaimed water and wastewater systems; and other infrastructure in support of the needs of the County of Louisa.



TIMMONS GROUP FIRM OVERVIEW



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 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.

Our Services

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

Timmons Group Staff Experience with Similar Projects

The Timmons Group team members have extensive experience in the design of major water supply, treatment and distribution projects. Among these projects are treatment plants as large as 180 MGD and membrane plants as large as 30 MGD.

In addition to numerous other treatment plants in Virginia, the Design Services Manager, David Saunders has recent experience in the design similar-sized water treatment plants, as proposed in this proposal. These include:

- **3 MGD Membrane Water Treatment Plant; Town of Luray, VA**
Project Manager and Lead Design Engineer for 3 MGD WTP utilizing PALL Aria™ membranes. The project was initiated due to the Towns spring water supply being declared to under the influence of surface water. Project also included SCADA, disinfection, raw and finished pump stations and 2 million gallon storage tank and clearwell.



- **Northern Water Treatment Plant at Clearbrook; Frederick County, VA**
Project Manager and Lead Design Engineer for 6 MGD WTP utilizing US Filter Trident® adsorption clarifier, tri media water treatment plant to treat source water from a rock quarry. Project included SCADA, raw, finished and backwash pump stations, disinfection, 3 million gallon storage tank and clearwell. The raw water pumps were mounted on a floating marina style dock and provided with flexible discharge piping to the shore line. This innovative approach permitted the use of a quarry supply that experiences water surface fluctuations as much as 100 feet.
- **Southern Water Treatment Plant at Stephens City; Frederick County, VA**
Project Manager and Lead Design Engineer for 6 MGD WTP utilizing US Filter Trident® adsorption clarifier, tri media water treatment plant to treat source water from a rock quarry. Project included SCADA, raft mounted floating raw pumps, finished and backwash pump stations, disinfection and 2 million gallon storage tank and clearwell. The raw water intake and pump station was constructed by drilling vertical shafts that intersected a horizontal mine shaft in the quarry. Vertical turbine pumps were then installed to deliver raw water to the WTP.
- **Rapidan Service Authority WTP; Greene County, VA**
Project Manager and Lead Design Engineer for 1.25 MGD WTP utilizing US Filter Aquarius® tube settler, tri media water treatment plant to treat source water from the Rapidan River. Project included SCADA, raw, finished and backwash pump stations, disinfection, 1.25 million gallon storage tank and clearwell and 1 million gallon pre-settling tank.
- **Rapidan Service Authority WTP; Orange County, VA**
Project Manager and Lead Design Engineer for 1.5 MGD WTP utilizing US Filter Aquarius® tube settler, tri media water treatment plant to treat source water from the Rapidan River. Project included SCADA, raw, finished and backwash pump stations, disinfection, 0.5 million gallon storage tank and clearwell and 1.5 million gallon pre-settling basin. Raw water intake consisted of a drum intake screen mounted in the bottom of the Rivanna River.
- **Lake Monticello Water Treatment Plant; Palmyra, VA**
Project Manager and Lead Design Engineer for improvements to existing WTP. A conventional WTP constructed in the early 1970's the WTP was in need for a rehabilitation and capacity uprating by the mid 1990's. Improvements were made in the mid 1990's through 2008, and increased the capacity from 0.9 to 1.3 MGD. Improvements included the construction of a new raw water intake and pump station on the Rivanna River, 3 million gallon presettling basin, 0.15 million gallon clearwell expansion replacement of all process monitoring instrumentation, replacement of finished water pumps and replacement of selected chemical feed equipment.

Timmons Group Design-Build Experience

Design-build is a convenient, one-stop approach to completing municipal, 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 includes utility design, industrial buildings, federal facilities, correctional institutions and educational facilities. We have the knowledge, reputation, experience and resources to manage this project.

Timmons Group employees numerous Design Build Professionals as designated by the Design Build Institute of America, including Design Services Manager, David J. Saunders, PE, DBIA.

Representative Design-Build Projects:

- PPEA: Courtland Water Reclamation Facility, Southampton Co, VA – *Won Rural Water System of the Year Award*
- PPEA: Zion Crossroads WWTP Effluent Relocation, Louisa County, VA
- PPEA: Riverside Elevated Water Tank, Williamsburg, VA
- PPEA: Prince George Wastewater Pump Station Upgrade, Petersburg, VA
- PPEA: Poor Creek Wastewater Pump Station Upgrades, Petersburg, VA
- PPEA: Meherrin River Regional Jail and Support Utilities, Brunswick County, VA
- PPEA: Renovation of Three Wastewater Pump Stations, Fredericksburg, VA
- PPEA: James Monroe High School, Fredericksburg, VA

MEB and Timmons Group Performance on Courtland Reclamation Facility for Southampton County, VA:

"From the start, we had design (Timmons Group), construction (MEB) and operating personnel, working and communicating as a team, evaluating and discussing materials, methods and equipment collectively and collaboratively. It doesn't get any better than that."

Michael W. Johnson
County Administrator
Southampton County





TIMMONS GROUP REPRESENTATIVE EXPERIENCE

Southampton Water Reclamation Facility Southampton County, Virginia



Owner
Southampton County

Timmons Group teamed with MEB General Contractors to construct this 2012/2013 Virginia Rural Redevelopment System Award winning \$30 million project using Virginia's Public Private Education & Infrastructure Act (PPEA) process.

Owner Contact
Mr. Michael W. Johnson
(757) 653-3015
mikejohnson@
co.southampton.state.va.us

While reduction of metals like copper and zinc was not an explicit objective in design and construction of the Courtland WWTP, consideration was given to the possibility that permitted discharge limits on copper and zinc would become more stringent, thus creating an issue of concern for Southampton County staff. To address these potential concerns, Timmons Group designed the WWRP to be capable of handling such metals removal requirements with only basic equipment upgrades.

Role of Respondent:
MEB: Construction
Timmons Group:
Design and Construction
Administration

Project Benefits:

Contract Value:
\$27,400,000.00

- Selection of the most qualified design-build team
- Guaranteed Maximum Price Contract
- Saved approximately 12 months on the overall project schedule
- Owner involvement in design, operation and construction issues
- Ability for the Owner to influence design changes without additional costs
- Single point of contact for project delivery and accountability, minimizing "finger-pointing"
- The Contractor has a vested interest in solving construction issues quickly, inexpensively, and in accordance with the overall project deadline and goals.

Start Date:
June 2008

Completion Date:
August 2011

Project Details

Key Personnel:
MEB:
David Ervin
Carl Dewald
Timmons Group:
Joe Hines
Jim Christian
Ron Eisele
Wes Hunnius
Jeff Coyne
Chris Petree

- 1.25 MGD Tertiary Wastewater Treatment Plant
- 3.2 MGD Wet well/Dry Well Pump Station
- 11,000 ft. of 24" & 18" Gravity Sewer
- 10,000 ft. of 16" Force Main
- 5,000 ft. of 12" Waterline



Won the 2012/2013 Rural Redevelopment System of the Year Award



Zion Crossroads Wastewater Plant Effluent Relocation - PPEA County of Louisa, Virginia



Owner

County of Louisa

Owner Contact

Mr. Robert C. Dubé,
County Administrator
1 Woolfolk Avenue
PO Box 160
Louisa, Virginia 23093

Role of Respondent:

Faulconer Construction:
Construction
Timmons Group:
Design and Construction
Administration

Contract Value:

Approximately \$8.0M
Including
Contract Alternates

Start Date:

March 2013

Completion Date:

Ongoing

Key Personnel:

Joe Hines
David Saunders
Wes Hunnius

Timmons Group teamed with Faulconer Construction Company (FCC/Timmons team) to design and construct (Design-Build) the Zion Crossroads Wastewater Plant Effluent Relocation project. This project has been contracted through the Virginia Public Private Education & Infrastructure Act (PPEA) process.

The existing Zion Crossroads Wastewater Treatment Plant (WWTP) discharges into the adjacent Camp Creek. Due to relatively low stream flows in Camp Creek, the WWTP has difficulty meeting discharge limits for Zinc and Copper. After considering many alternatives, the County of Louisa and the Virginia Department of Environmental Quality (VDEQ) determined that an acceptable alternative to meeting the discharge limits would be to relocate the discharge location to the South Anna River.

Since the WWTP produces effluent that meets the standards for Level 1 Reclaimed Water, the County decided to construct the new effluent relocation to permit the distribution of reclaimed water along the pipeline alignment. Additionally, the County identified the desire to take advantage of potential cost savings in concurrently constructing water and wastewater facilities eastward to the Ferncliff service area.

In response to the County's RFP, the FCC/Timmons team evaluated many alignment alternatives for constructing the effluent main. Through these efforts, an alignment utilizing an existing electrical transmission right-of-way owned by the Central Virginia Electric Cooperative (CVEC) that extends from Zion Crossroads to Ferncliff was proposed. Due to its shorter length and increased installation production, this alignment proved to be far more cost effective than an alignment utilizing a Virginia Department of Transportation (VDOT) US Route 250 alignment as proposed by others. The CVEC alignment is approximately 51,000 LF 12" main versus 61,900 LF utilizing US Route 250.

As an alternative to extending approximately 7 miles of water main from Zion Crossroads to Ferncliff, the FCC/Timmons team proposed a standalone water system at Ferncliff consisting of wells and a 500,000 gallon elevated water tank. This alternative resulted in approximately \$1.4 million in savings.

The proposed wastewater service for Ferncliff consists of a pump station at Ferncliff and a 37,000 LF 8" force main that utilizes the CVEC easement.

By using the CVEC easement rather than US Route 250 as a pipeline alignment and proposing a standalone water system at Ferncliff, the FCC/Timmons team proposed a total project for the Effluent Relocation plus the Water and Wastewater service to Ferncliff for approximately \$8 million versus \$11.7 million. This represents a savings of \$3.7 million or 32% to the County of Louisa.



Meherrin River Regional Jail Utilities Brunswick County, Virginia



Owner
Brunswick County

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.

Owner Contact
Joan Moore
116 W. Hicks Street
Lawrenceville, VA
434.848.0248

During the Planning Phase, Timmons Group provided engineering services to determine how to best provide water and sewer service to the new jail. Water service alternatives included constructing on-site wells with treatment versus connection to the Town of Lawrenceville system approximately five miles away. Sewer alternatives were evaluated including the construction of an on-site 100,000 gpd wastewater treatment plant versus conveyance of sewer to the Town of Lawrenceville approximately eight miles away.

Role of Respondent:
Design and Construction Administration

Contract Value:
\$7,200,000.00

Numerous off-site utility routes were considered for water and sewer alternatives. Routes were evaluated for ease of construction, life-cycle cost, availability of right-of-way, environmental and Department of Transportation permitting, comprehensive land use planning and other potential customers that could benefit from the utilities. Evaluation of alternatives for connection of utilities to the Town of Lawrenceville included assistance in drafting and negotiation of water and sewer service contracts between the Town of Lawrenceville and Brunswick County.

Start Date:
March 2010

Completion Date:
June 2012

Key Personnel:
David Saunders
Bob Roop
Ron Eisele
Wes Hunnius

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.





Goochland Pump Station and Force Main Goochland County, Virginia



Owner
Goochland County

Owner Contact
Mr. Todd Kilduff, PE
Post Office Box 119
Goochland, VA 23063
804.556.5869

Role of Respondent:
Design and Construction
Administration

Contract Value:
\$7,500,000.00

Start Date:
March 1998

Completion Date:
June 2002

Key Personnel:
Wes Hunnius
Bob Roop

This project consisted of a 33 MGD wastewater pump station located adjacent to West Creek Industrial Park in Goochland County and 50,000' of 48" force main to the City of Richmond's collection system. This regional project was designed to handle 20 MGD of flow from Goochland County and 13 MGD of capacity for Henrico County to off-load wet weather flows from the existing 42" gravity line along Tuckahoe Creek. This regional project required the coordination of three jurisdictions (Goochland and Henrico Counties along with the City of Richmond). In order to meet the scheduled opening of the Motorola semiconductor manufacturing facility, an existing pump station was upgraded and 2,500' of parallel 12" force main was designed to meet the initial wastewater flows. Timmons Group joined forces with R. Stuart Royer to complete this project on a fast-track timeline. Timmons Group designed the 33 MGD pump station, performed hydraulic analysis for station and overall watershed.

Timmons Group and Royer jointly selected the force main alignment with Timmons Group performing all survey, environmental and geotechnical work required for the project.





Bottoms Bridge Pump Station Henrico County, Virginia



Owner

Henrico County

Owner Contact

Marchelle Sossong, PE
Post Office Box 27032
Richmond, VA 23273
804.501.7341

Role of Respondent:

Design
Construction Administration

Contract Value:

\$ 4,200,000.00

Start Date:

January 2006

Completion Date:

October 2008

Key Personnel:

Jim Christian
Wes Hunnius

The Bottoms Bridge Pump Station project was part of the East Area Utilities, Phase 2 and was completed during the Fall of 2009. It serves two new county schools, as well as existing and future development along an unnamed tributary of the Chickahominy River. The pump station conveys wastewater via a 12" force main and 15"-36" outfall gravity sewer to the existing Elko Pump Station. The project consists of the construction of the pump station, associated site work, access road, force main and gravity sewer.

Project Highlights

This drywell/wetwell style pump station has a rated capacity of approximately 2.5 MGD. The station was designed to initially serve the East Area Middle School which will generate flows considerably less than the stations ultimate capacity, and will ultimately serve over 1,500 acres of mixed uses. The configuration of the station allows, through variable frequency drives the operation of the station at low initial flows while not requiring upgrades to meet ultimate flows. During design, special attention was given to site selection to minimize the number of easements and property acquisition required while at the same time minimizing environmental impacts to wetlands and other environmentally sensitive areas. Timmons Group assisted the County with several public meetings and helped address individual property owner concerns and requirements. Timmons Group provided field survey, preliminary alignment selection, hydraulic analysis, final design, environmental permitting, regulatory review and approval, construction period services and record drawings.





MEB FIRM OVERVIEW



MEB General Contractors, Inc. was founded in 1982 by George B. Clarke IV with a dedication to delivering value through service, teamwork and integrity. MEB enjoys a 30+ year history of successfully completing work throughout the Commonwealth of Virginia and has built a diverse portfolio of projects across a wide range of market segments. With annual revenues approaching \$200M, MEB consistently ranks among the nation's "Top 400" general contractors as recognized by *Engineering News Record* (ENR) magazine. Our significant experience in the heavy utility market has led to our recognition nationally as a "Top 25" Water/Wastewater contractor. Completing more than \$100M of design-build work in the past three years has also resulted in MEB's ranking as a "Top 100" Design-Build contractor nationally. These achievements are the product of a management team that is focused on superior customer service and a teamwork approach to problem solving in the field.

With corporate headquarters in Chesapeake, Virginia and a regional office in the Richmond, Virginia area, MEB currently employs more 300 people. MEB maintains the necessary skills, crews and equipment to self-perform significant aspects of the work including earthmoving, pile driving, shoring, utility installation, cast-in-place concrete, steel erection, rigging, process equipment installation, process piping and mechanical work. Our ability to self-perform these critical aspects of large utility projects frequently sets us apart from our competition and helps guarantee project quality, safety and on-time delivery.

As a leader throughout the Mid-Atlantic in the construction of water and wastewater treatment plants, MEB has experience completing projects in excess of \$50M. Our treatment project portfolio includes dozens of large projects for a variety of clients incorporating numerous treatment technologies. We have successfully completed these projects with multiple contracting methods, ranging from design-bid-build to design-build to PPEA and others. Our membrane filtration experience is significant, having completed nearly 10 such projects of varying size in recent years. MEB also has a solid relationship with nearly all the industry designers, both local and national, as well as all Commonwealth of Virginia approval departments and agencies.

Our management staff is well versed in a variety of technological project management tools. Our recent conversion to Viewpoint Construction Software has integrated the field and management staff, allowing for a seamless sharing of data, timely reporting, advanced projects reporting better subcontractor management. This substantially reduces risks for both the design-builder and the owner. MEB is committed to Building Information Modeling (BIM) and these efforts are led in-house by a full time virtual construction manager. Field supervision is often equipped with digital devices (iPads) allowing for immediate access to virtual models and the ability for real-time project team coordination. We are also a leader regarding sustainable construction and our construction management staff includes numerous LEED Accredited Professionals. Our recent portfolio includes a number of LEED certified and certifiable projects including a recently completed facility that awaits LEED Platinum certification.



Carolina County Regional WWTP Expansion and Upgrade Ruther Glen, Virginia



Owner:
Caroline County DPU

Owner Name & Contact: Joey Schiebel
(804) 633-4390

Role of Respondent:
Design/Build Contractor

Construction Value:
\$16,452,060.00

Start Date:
March 2011

Completion Date:
July 2013

Key Personnel:
David Erwin – Senior
Project Manager

This Design/Build contract was awarded under the Commonwealth of Virginia PPEA Guidelines. The expansion and upgrade will comply with NPDES and General Permit limits for Nitrogen and Phosphorus discharge while increasing capacity from 0.5 MGD to 1.5 MGD. The improved plant is designed to support planned residential and commercial growth through 2015, and facilitate a cost effective future expansion to 3.0 MGD.

MEB is teamed with Reid Engineering Company based in Fredericksburg, Virginia. The contract culminates an 18-month effort beginning with submission of an unsolicited PPEA proposal in January 2010 followed by months of negotiation and value engineering before MEB General Contractors, Inc. was selected as the best value over a competing proposal. The project included the following:

- Construction of new Septage Receiving Station
- Headworks
- Flow Equalization
- 5 Stage Bardenpho Activated Sludge Process
- Secondary Clarifiers
- Denitrification
- Administration Building
- Reuse System
- SCADA
- Modifications to existing Influent Pump Station
- Sludge Storage
- Sludge Dewatering equipment.





Crystal Spring Water Treatment Plant Roanoke, Virginia



Owner:
City of Roanoke

Owner Name & Contact:
Ms. Ellen S. Evans
215 Church Ave Room 350
Roanoke, VA 24011
540-853-2731

Construction Value:
\$4,744,681.00

Role of Respondent:
Prime Contractor

Start Date:
November 2001

Completion Date:
January 2003

Key Personnel:
David Ervin – Senior Project
Manager

Project consisted of the construction of a water treatment plant to treat 5 million gallons per day of ground water with a microfiltration membrane treatment system. The **membrane treatment system** will be a U.S. Filter Continuous Microfiltration System (CMF) consisting of five microfiltration units and all ancillary equipment. The water treatment plant building will be a brick and block masonry building that will house the treatment plant equipment and also office space for the city utilities and water departments. The projects also includes a below ground raw water pumping station, parking lot, and site utilities.





**Replacement of the Water Distribution System Defense Supply Center (DSCR)
City of Richmond, Virginia**



Owner:
USACE
Central Virginia Area Office

Owner Name & Contact:
Mr. Kevin Arthur
930 20th St.
Ft. Lee, VA 23801
804-279-4571
804-704-7309
Kevin.D.Arthur@usace.army.mil

Role of Respondent:
Design/Build Contractor

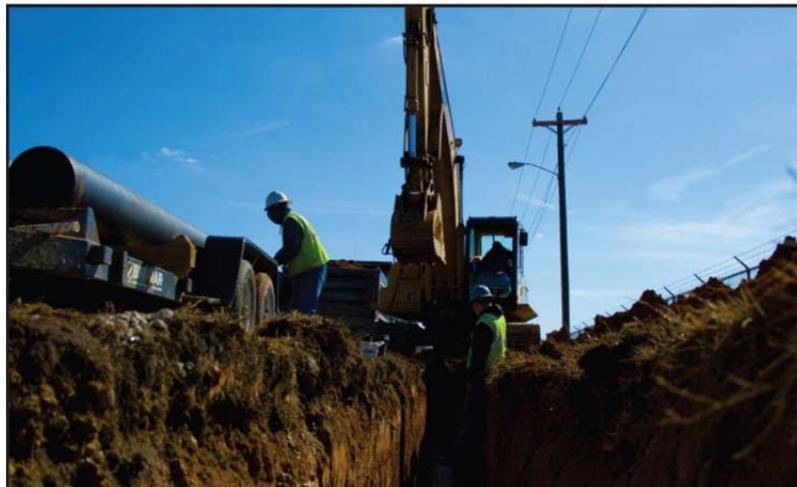
Construction Value:
\$31,955,746.00

Start Date:
September 26, 2008

Completion Date:
November 2010

Key Personnel:
David Ervin – Senior Project Manager

Design/Build project consists of open cut replacement of 60,000 LF cast iron water mains. Existing sprinkler lines were brought into a combined potable/fire system. Over 300 tie-ins were performed in a facility with over 2,500 personnel. Existing sprinkler lines/connections required flushing and disinfecting prior to bringing the new system online. Demolition of two circa 1942 750,000 gallon water tanks and soil remediation at those sites, a second connection to the municipal water supply, new switchgear for new fire pumps to use primary power and alternate backup generators, pump control modifications and repairs, increased general fuel supply, upgraded power supply to the water plant as needed, new fire hydrants, valve controls for proper maintenance of the system, repair and upgrade to valve houses, and a SCADA system for operation and monitoring of the system.





Five Forks Water Treatment Facility James City County, Virginia



Owner:
JCC Service Authority

Owner Contact:
Mr. Bernie Farmer
101 Mounts Bay Road,
Ste. E
Williamsburg, VA 23285
757-259-4117

Role of Respondent:
Prime Contractor

Construction Value:
\$10,100,000.00

Start Date:
May 2003

Completion Date:
July 2005

Key Personnel:
David Ervin – Senior Project
Manager

Construction of the James City Service Authority Five Forks Water Treatment Facility to include manufacturing, furnishing & installing a 5.0-MGD Brackish Groundwater **Reverse Osmosis System**. Work includes excavation, grading, site work, drainage, erosion & sediment control, land restoration, & testing.





Lake Gaston Water Treatment Plant
City of Chesapeake, Virginia



Owner:
City of Chesapeake Dept. of
Public Utilities

Owner Contact:
Mr. William Meyer, 306
Cedar Rd
Chesapeake, VA
23322
(757)382-6101

Role of Respondent:
Prime

Contract Value:
\$27,755,230.49

Start Date:
August 2003

Completion Date:
March 2006

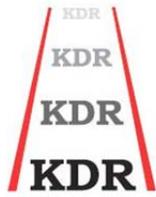
Key Personnel:
David Ervin – Senior
Project Manager

Construction of multiple buildings, including Administration Buildings, Water Treatment Buildings, Effluent Aeration Building, sludge thickener, plant waste basin, and effluent pump station. Generator and Switchgear Building and surge tank area; propane storage tanks facility; rapid mix area; flocculation basin area; membrane basins and associated accessories; chemical storage and feed facilities; manganese removal contactors and accessories; disinfection contact pipeline; finished water storage tank; contactor backwash and finished water pump station; miscellaneous site grading, pile foundation, site piping and site electrical work.





Additional Engineering and Support Subconsultants



KDR Real Estate Services – Land Acquisition Services

KDR Real Estate Services is a full service right of way and easement acquisition company. Our services include ownership verification that can range from a current owner rundown to a 60-year title search, appraisal of property rights to be acquired, conveyance document preparation and compilation of related paperwork for the presentation of an offer to the affected landowners, negotiations with the landowners, clearance of title, closing and settlement procedures, and overall project administration to complete the transfer of title from the property owner to the acquiring authority. We work closely with the client, which is most often either an engineering company that has been awarded the contract to design and build a public facility or the public agency itself that will own the facility, and representative legal counsel to insure that proper acquisition procedures are followed in accordance with the requirements of the Virginia Code relating to rights acquired through the eminent domain process.



InfraMap Corporation – Subsurface Utility Locating

Founded in 1987, InfraMap has performed some of the largest utility mapping and test hole projects ever undertaken by any firm. InfraMap is a leading provider of Subsurface Utility Engineering (S.U.E.) and Utility Infrastructure Mapping services. We collect utility infrastructure data in the field using sophisticated geophysical techniques and instrumentation (including Ground Penetrating Radar, GPR), with automated data collection gear and state of the art survey equipment. We collect and present this data to aid our clients in reducing the design and construction cost of major infrastructure projects.

We have the resources to perform and deliver multiple large scale projects on time throughout the United States. This is substantiated by our recent and past performance.



William R. Jennings, Jr. – Consulting Engineering, PC ; Electrical Engineering

Established in 2002, William R. Jennings, Jr. - Consulting Engineering, PC is a professional services company that provides high-quality technology in electrical engineering design for industrial, commercial, municipal, and environmental clientele. With a staff that has over sixty years of combined design experience, William R. Jennings, Jr., Consulting Engineering, PC is committed to providing services throughout the Commonwealth of Virginia including: Charlottesville, Richmond, Roanoke, Staunton, Blacksburg, and surrounding areas. Located in Forest, Virginia, our proximity allows us to be accessible and responsive to the specific needs of public and private clients.



Bigoney Engineering – Structural Engineering

Bigoney Engineering is a structural engineering firm established in 1982 by Burton F. Bigoney, Jr., PE. Located in Downtown Fredericksburg, VA we specialize in the design of water and wastewater treatment facilities, industrial and commercial facilities, and residential repairs. In recent years the most common type of project for us has been water and wastewater treatment facilities for both municipal plants and the food industry (i.e. poultry and rendering plants).



KEY PERSONNEL RESUME



Name: Ed Stelter, LEED AP, DBIA
Title: Principal
Name of Firm: Falconer Construction Company
Assignment: Design-Build Principal
Years' Experience: 25

Education/Degree(s)/Year/Specialization:

BS, Community & Regional Planning, Appalachian State University, 1993
 AA, Building Construction, Palm Beach State College, 1990

Professional Certifications:

Designated Design Build Professional by the Design Build Institute of America
 LEED Accredited Professional

Qualifications Relevant to this Project:

Mr. Stelter has over 25 years of experience working in the construction industry. He possesses a well-rounded background that includes everything from hands-on experience in the field to direct negotiations with owners and designers on a variety of civil, utility and transportation projects. He currently leads the company in the pursuit and execution of alternative construction delivery methods including design-build, PPTA and PPEA projects.

Representative Experience:

1996–Present, Falconer Construction Co., Inc., Charlottesville, Virginia: Mr. Stelter started with Falconer as an assistant superintendent / project engineer and quickly worked his way through the ranks and has worked the last seven years as a Chief Estimator and now as the Director of Innovative Pursuits. Earlier in his career at Falconer, he was involved with the estimating and project management of a wide range of site construction, utility and highway projects.

In his current role he is responsible for everything from business development through post award negotiations and project execution strategies. He plays a key leadership role in identifying and developing pursuits; bringing together key partners and teams; reviewing and fully executing qualifications and proposals; leading negotiations with owners, contractors and other stakeholders; and staying engaged through post award as necessary to guarantee a successful project for the client. Having championed the lead on several design-build projects, Mr. Stelter is keenly cognizant of the importance of team collaboration and communication to ensure that all quality metrics, safety standards and client goals will all be met.

1994-1996, McRaven Restorations, Free Union, VA: Mr. Stelter oversaw the restoration of a variety of historical structures. He regularly dealt with complex problems while ensuring historical integrity, quality and cost effectiveness of the final restored product.



KEY PERSONNEL RESUME



Name: David Galloway
Title: Vice President
Name of Firm: Falconer Construction Company
Assignment: Design-Build Principal

Years' Experience: 24

Education/Degree(s)/Year/Specialization:
BS, Finance, Virginia Tech, 1988

Specialized Training
OSHA 30 Hour

Qualifications Relevant to this Project:

With over 24 years of construction experience, Mr. Galloway has a wide range of experience on many different types of heavy highway, utility and site construction. He has worked on major infrastructures, industrial, commercial, private, transportation and healthcare construction projects, and has an extensive background on railway improvement projects. He routinely manages some of Falconer's most challenging and high profile projects. His leadership, attention to detail and commitment to each project has enabled Falconer to gain countless repeat clients.

Representative Experience:

1995–Present, Falconer Construction Co., Inc., Charlottesville, Virginia: As Vice President over Virginia Operations, Mr. Galloway oversees and is accountable for the day-to-day operations of the Virginia business unit. His oversight responsibilities include monitoring and projecting project costs and forecasts, reviewing CPM schedules using (Primavera P6), resource management and forecasting, contractual negotiations with owners and key subcontractors and management of overall company-wide operational logistics.

Within Falconer Construction, Mr. Galloway is considered the resident expert on railroad improvement projects. He has managed in excess of 20 railroad projects since joining Falconer Construction. The projects have been scattered throughout the southeast and have ranged from \$100K to \$14M in value. He recently served as Project Executive for the \$14.8 million dollar Meadow Creek Parkway Project for VDOT (2008 -2011). This project included a new wider bridge on Rio Road over the Norfolk Southern railroad, another bridge over Meadow Creek and a third pedestrian bridge over Meadow Creek connecting into the existing Rivanna trail. The infrastructure improvements include over 18,700 lineal feet of new utilities including a bore under the existing Norfolk Southern railroad line. The project included a heightened amount of attention to be focused on environmental protections with seven (7) permitted streams crossing the project.

In addition to railroad improvement projects, he often serves as the Project Executive multiple transportation and utility infrastructure projects.



KEY PERSONNEL RESUME



Name: John (Pete) Morris, IV
Title: Project Manager
Name of Firm: Falconer Construction Company
Assignment: Design-Build Project Manager

Years' Experience: 13

Education/Degree(s)/Year/Specialization:
MFA in Illustration, Savannah College of Art and Design, 2005
BA, Art, Washington College, 2001

Specialized Training
OSHA 30 Hour, 2012

Qualifications Relevant to this Project:
Mr. Morris has 13 years of experience working in the construction field, having begun his career with a private home contractor. After working in the residential sector for several years, he moved into civil construction in 2003. He has worked in Virginia, South Carolina and Texas while furthering both his classroom and job site education. Mr. Morris made Falconer his home in 2007 and is delighted with his role as a Project Manager.

Representative Experience:
2007–Present, Falconer Construction Co., Inc., Charlottesville, Virginia: Mr. Morris's duties as a Project Manager include administration and monitoring of all of his current Projects. Overall goals include keeping projects on time and on budget while placing emphasis on quality and accuracy of the overall project. Coordination between owners, subcontractors and upper management at Falconer are one of Mr. Morris's strengths. Other responsibilities include: production and maintenance of project schedules, submittals, RFI's, change orders, material orders, understanding and executing work plans according to contract, making requests for payment, and maintaining logs and reports for the project. Falconer maintains a safety program, Target Zero, and Mr. Morris upholds all safety program requirements in addition to ensuring that his projects comply with local, state and Federal standards. Mr. Morris has worked on military, educational, private and residential projects with contract values ranging up to \$14 million. His understanding of coordination and communication between parties has made him one of Falconer's most valuable project managers.



KEY PERSONNEL RESUME



Name: Roy John (RJ) Wright
Title: **Construction Manager**
Name of Firm: Falconer Construction Company
Assignment: Construction Manager

Years' Experience: 24

Education/Degree(s)/Year/Specialization:

Orange Town High School, 1987
Piedmont Technical Education School, 1986-1987

Specialized Training:

OSHA 30 Hour, 2011
Explosives and Seismograph Training and Safety, 2008

Professional Certification:

VDOT VA Erosion & Sediment Control – Contractor Certification #4512C, 2008
Leadership in Construction (AGC), 2006
Confined Space Training, 1997

Qualifications Relevant to this Project:

Mr. Wright has 24 years of experience working in the construction field, having started in the field as an equipment operator and quickly transitioning into the role of a pipe foreman and holding that position for over five years. Having proven himself as an effective leader, great communicator and team player, he moved easily into and has excelled in his role as a superintendent and now as a Construction Manager. His job satisfaction working with Falconer is such that this is the only company for which he has worked throughout his career. During these 24 years he has worked on various projects in locations throughout Virginia.

Representative Experience

1990–Present, Falconer Construction Co., Inc., Charlottesville, Virginia: Mr. Wright’s duties as a senior construction manager are to handle the day-to-day operations of projects. He works with estimators, upper management and the owner of Falconer as the direct communications link between the company and the customer. Duties of his position include supervising and directing the assigned crews (including subcontractor personnel), comprehensive and accurate project layout, assisting Superintendents and Foremen with management of materials, equipment, and subcontractors, coordinating and communicating with the client’s on-site representatives, setting expectations for production and overall schedule adherence, ensuring that Look-ahead schedules are completed accurately and on time (using Primavera), complying with quality standards and promoting a safe work environment by following all regulations (US Government, OSHA, state and Town), developing risk management and mitigation plans, security oversight, subcontractor management, quality control, employee site training and safety training, and participating in Kick-off, Exit Strategy, and Post Project Review Meetings. Additionally, Mr. Wright assists in preparing RFI’s and project documentation and in estimating new projects. Falconer’s estimating staff has found him to be one of the company’s most valuable asset in assessing constructability and field production issues.



KEY PERSONNEL RESUME



Name: Joe Hines, MBA, PE
Title: Principal
Name of Firm: Timmons Group

Assignment: Principal-in-Charge – Economic Development Services

Years' Experience: 23

Education/Degree(s)/Year/Specialization:
MBA, Duke University, 2003
BS, Civil Engineering, North Carolina State University, 1991

Professional Certification:
Professional Engineer: Virginia, North Carolina

Qualifications Relevant to this Project:

Joe Hines is a Principal with the Infrastructure and Economic Development Group and has over 23 years of experience in the design, funding, construction administration, construction inspection and supervision of several large and small municipal projects. His projects have ranged from \$100,000 to over \$45 million in construction costs. His expertise includes all aspects of water, wastewater and water storage facilities design and construction in addition to infrastructure and site development issues related to developing Economic Development parks and relevant stormwater related experience.

His combined engineering background with a Master's in Business Administration provides him the capability to understand the engineering fundamentals while maintaining a strong business perspective, with an eye towards the bottom line during the development of projects.

Relevant Project Experience:

- Rockingham County Center for Research and Technology Master Plan, VA
- Georgia Pacific Redevelopment, Halifax IDA, Halifax County, VA
- Program Consultant for Mid-Atlantic Advanced Manufacturing Center "MAMaC", Greensville County, VA
- James River Water Project, Fluvanna and Louisa Counties/James River Water Authority
- Water System Upgrades PER, Town of Mineral, Town of Mineral, VA
- Turner Tract Development, Southampton County, VA
- Courtland Sewer and Infrastructure Upgrade, Southampton County, VA
- Southampton Engineering Term Contract, Southampton County, VA
- Meadowville Technology Park Development, Chesterfield County Economic Development Authority, VA
- Stafford Department of Utilities Term Contract, Stafford County, VA
- Violet Street Water Tank Installation and Pump Station Modifications, City of Chesapeake, VA
- Sewer PER and Master Plan, Fluvanna County, VA
- Fluvanna County Courthouse Water System, Fluvanna County, VA
- Prince George Economic Development Term Contract, Prince George County, VA
- Isle of Wight County On-call Engineering Services, Isle of Wight County, VA
- Crosspointe Centre Development for Rolls Royce, Prince George County, VA
- Cumberland County Term Contract, Cumberland County, VA



KEY PERSONNEL RESUME



Name: James Christian, PE
Title: Principal
Name of Firm: Timmons Group
Assignment: Quality Control/Reuse Engineer

Years' Experience: 35

Education/Degree(s)/Year/Specialization:
BS, Mechanical Engineering, Brigham Young University, 1987

Professional Certification:

Civil Engineer, Virginia, (#041575)
Civil Engineer, Utah, (#07908)
Civil Engineer, Arizona, (#22858)

Qualifications Relevant to this Project:

Mr. 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. Mr. Christian'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; hundreds of miles of sewer interceptors (12 to 108-inch) transmission mains (12 to 48-inch); over 10,000 feet of jacked pipe casings (36 to 72-inch); and over 50 pumping stations (50 gpm to 42 mgd).

Relevant Project Experience:

- 180.0 mgd Squaw Peak Water Treatment Plant, transmission main, and pumping stations
- 150.0 mgd Deer Valley Water Treatment Plant
- 220.0 mgd Val Vista Water Treatment Plant
- 40.0 mgd Verde Water Treatment Plant
- 15.0 (staged for 90.0) mgd Pyramid Peak Water Treatment Plant, transmission main, and pumping stations
- 15.0 (staged for 90.0) mgd Scottsdale Water Treatment Plant, transmission main, and pumping stations
- 10.0 mgd Weber Basin Conservancy District Water Treatment Plant
- 7.0 mgd Fletcher Challenge Water Treatment Plant, transmission main, and pumping stations
- 6.0 mgd Price River Water Improvement District Water Treatment Plant, transmission main, and pumping stations
- 4.0 mgd Town of Culpeper Water Treatment Plant
- 4.0 mgd Marine Corps Air Station Water Treatment Plant, transmission main, and pumping stations
- 4.0 mgd Lake Mary Water Treatment Plant
- 2.0 mgd Williams Water Treatment Plant, Williams, Arizona
- 2.0 mgd Williams Water Treatment Plant Disinfection Profiling Program
- 1.0 mgd East Carbon Water Treatment Plant
- 24,000 Foot 48-Inch Glendale Water Transmission Main
- Granger-Hunter City-Wide (43 Remote Sites) Water SCADA System

Select Membrane Experience Targeted on DPB Control

- 30.0 mgd Membrane Cholla Water Treatment Plant
- 30.0 mgd Membrane Chaparral Water Treatment Plant



- 4.32 mgd Membrane Bingham Canyon Water Treatment Plant
- 24.0 mgd Membrane Agua Viva Water Treatment Facility

Select Technical Papers Given

- "Sludge Management Optimization: A Worldwide Issue", AWWA Annual Conference. Paper centered on optimizing the sludge collection process within a water treatment plant.
- "Cost Effective WWTP Evaluation and Design Techniques to Achieve Nitrogen and Phosphorous Reduction", WEF.
- "BNR and You", WEF. Paper and presentation focused on biological nutrient removal design techniques for wastewater prior to surface water discharge.
- "Toxic Concerns of Water Treatment Plant Residual Disposal", AWWA Annual Conference.
- "Recommended Maintenance for Water Distribution Systems", AWWA Annual Conference.
- "Granular Activated Carbon Filtration", AWWA Annual Conference.
- "Field Investigation of a Water Treatment Plant Filter", AWWA Annual Conference.

Seminars Given

- Four part technical series on water sludge dewatering. The four, half-day, technical seminar topics included: Mechanical Dewatering; Passive Dewatering; Sludge Conveyance; and Regulatory Issues.
- Several half-day and full-day technical seminars in the fields of water treatment. Topics included: water quality; water treatment design; and water transmission.
- Half-day seminar on the treatment processes of water treatment plants at the Rural Water Association.
- "Water System Vulnerability and Assessment (VA) and Emergency Response Planning (ERP)" for several confidential clients. These seminars were utilized as lead-in's to formal VA and ERP staff training and USEPA VA and ERP report generation and certification requirements.



KEY PERSONNEL RESUME



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

Years' Experience: 32

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

Professional Certification:
Professional Engineer: Virginia, Maryland, North Carolina, West Virginia, Pennsylvania, District of Columbia, South Carolina
Designated Design Build Professional by the Design Build Institute of America

Qualifications Relevant to this Project:
David Saunders is a Senior Project Manager for our water/wastewater team. He has extensive experience in the preparation of plans and specifications, cost estimates and reports for numerous project types and clients. David's experience includes the planning and design of new and upgrading of existing water and wastewater treatment plants, pipelines, pumping stations and storage tanks.

During his career, he has prepared numerous county-wide and city utility master plans. An example of this is his experience is with the Frederick County Sanitation Authority (FCSA). During a period of 1990 to 2009, he prepared a county-wide water model and master plan that has resulted in his design of two treatment plants with a treatment capacity of 12MGD, three ground storage tanks (2,3 and 4.5 million gallon), a .5 million gallons elevated storage tank, several water booster and PRV stations and over 50 miles of pipelines ranging size from 12 to 30 inch. He has similar project experience with the FCSA wastewater system

Relevant Project Experience (Partial list):

- 3 MGD Membrane Water Treatment Plant; Town of Luray, VA**
Project Manager and Lead Design Engineer for 3 MGD WTP utilizing PALL Aria™ membranes. The project was initiated due to the Towns spring water supply being declared to under the influence of surface water. Project also included SCADA, disinfection, raw and finished pump stations and 2 million gallon storage tank and clearwell.
- Northern Water Treatment Plant at Clearbrook; Frederick County, VA**
Project Manager and Lead Design Engineer for 6 MGD WTP utilizing US Filter Trident® adsorption clarifier, tri media water treatment plant to treat source water from a rock quarry. Project included SCADA, raw, finished and backwash pump stations, disinfection, 3 million gallon storage tank and clearwell. The raw water pumps were mounted on a floating marina style dock and provided with flexible discharge piping to the shore line. This innovative approach permitted the use of a quarry supply that experiences water surface fluctuations as much as 100 feet.
- Southern Water Treatment Plant at Stephens City; Frederick County, VA**
Project Manager and Lead Design Engineer for 6 MGD WTP utilizing US Filter Trident® adsorption clarifier, tri media water treatment plant to treat source water from a rock quarry. Project included SCADA, raft mounted floating raw pumps, finished and backwash pump stations, disinfection and 2 million gallon storage tank and clearwell. The raw water intake and pump station was constructed by drilling vertical shafts that intersected a horizontal mine shaft in the quarry. Vertical turbine pumps were then installed to deliver raw water to the WTP.



- **Rapidan Service Authority WTP; Greene County, VA**
Project Manager and Lead Design Engineer for 1.25 MGD WTP utilizing US Filter Aquarius® tube settler, tri media water treatment plant to treat source water from the Rapidan River. Project included SCADA, raw, finished and backwash pump stations, disinfection, 1.25 million gallon storage tank and clearwell and 1 million gallon pre-settling tank.
- **Rapidan Service Authority WTP; Orange County, VA**
Project Manager and Lead Design Engineer for 1.5 MGD WTP utilizing US Filter Aquarius® tube settler, tri media water treatment plant to treat source water from the Rapidan River. Project included SCADA, raw, finished and backwash pump stations, disinfection, 0.5 million gallon storage tank and clearwell and 1.5 million gallon pre-settling basin. Raw water intake consisted of a drum intake screen mounted in the bottom of the Rivanna River.
- **Lake Monticello Water Treatment Plant; Palmyra, VA**
Project Manager and Lead Design Engineer for improvements to existing WTP. A conventional WTP constructed in the early 1970's the WTP was in need for a rehabilitation and capacity uprating by the mid 1990's. Improvements were made in the mid 1990's through 2008, and increased the capacity from 0.9 to 1.3 MGD. Improvements included the construction of a new raw water intake and pump station on the Rivanna River, 3 million gallon presettleing basin, 0.15 million gallon clearwell expansion replacement of all process monitoring instrumentation, replacement of finished water pumps and replacement of selected chemical feed equipment.



KEY PERSONNEL RESUME



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

Assignment: Civil/Site Engineer

Years' Experience: 15

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

Professional Certification:

- Professional Engineer, Virginia, 2006, (# 40151)
- Professional Engineer, North Carolina, 2010 (#36987)
- Professional Engineer, Maryland, 2010, (#39342)
- LEED Accreditation, 2009

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:

- Prince George Pump Station Design Build PPEA, City of Petersburg, VA
- Poor Creek Pump Station Design Build PPEA, City of Petersburg, VA
- Courtland Interceptor Pump Station, Southampton County, 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: Ron Eisele
Title: Senior Operations Specialist
Name of Firm: Timmons Group

Assignment: Operator Services

Years' Experience: 31

Specialized Training:

Biosolids, Diagnosing Activated Sludge Process Problems, Water Environment Federation
Pavement Preservation and Maintenance, National Highway Institute, American Water Works Association
Microbiology and Process Control, Sampling and Monitoring, Associate Faculty Member for Water/Wastewater Technology
Emergency Operation Plan Implementation, Arizona Water Pollution Control Association
Arizona Water Pollution Control Association-Life Member

Education/Degree(s)/Year/Specialization:

AS, Criminal Justice, Northland Pioneer College, 1982
AA, Social and Behavioral Science, Northland Pioneer College, 1984

Qualifications Relevant to this Project:

Ron Eisele is a Utilities Manager in Timmons Group's Water/Wastewater Group. He has over 30 years of experience in the operations and maintenance of water and wastewater collection, treatment and distribution as well as public infrastructure projects. Prior to joining Timmons Group, Ron was the Water/Wastewater Manager and subsequently Public Works Director for the City of Holbrook, Arizona. He has successfully managed and implemented capital improvement projects on time and within budget and is adept at coordinating and communicating with various contractors, state and local government officials, the regulatory community and citizen stakeholder groups.

Ron has been responsible for design, permitting and preparation of operations and maintenance manuals for numerous projects across the nation. Additional tasks have included traffic counts, preplanning of street upgrades and replacements as well as bid specs for all pavement treatment. He also has extensive experience with the overlaying and chip sealing of streets and roadways.

Relevant Project Experience:

- Boykins WWTP Rehabilitation and Upgrades, Southampton County, VA
- Boykins WWTP Copper and Zinc Removal, Southampton County, VA
- Boykins Virginia Pollution Discharge Elimination System (VPDES) Permit Reissuance, Southampton County, VA
- Courtland Wastewater Treatment Plant Design-Build Project, Southampton County, VA
- Courtland Interceptor Pump Station, Southampton County, VA
- Three Creek WWTP Upgrade, Greenville County VA
- 1.25 MGD Southampton Water Reclamation, Southampton County, VA
- Three Creek WWTP Copper and Zinc Removal, Greenville County, VA
- Three Creek Operational and Technical Assistance, Greenville County, VA
- Hubbard Industrial Discharge Draft Agreements, Southampton County, VA



KEY PERSONNEL RESUME



Name: Chris Petree, PE
Title: Project Manager
Name of Firm: Timmons Group

Assignment: Civil/Site Engineer

Years' Experience: 7

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

Professional Certification:
Professional Engineer: Virginia

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:**
- Prince George Pump Station Design Build PPEA, City of Petersburg, VA
 - Poor Creek Pump Station Design Build PPEA, City of Petersburg, VA
 - Courtland Wastewater Treatment Plant Design-Build Project, Southampton County, 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: David M. Ervin
Title: Vice President/Senior Project Manager
Name of Firm: MEB General Contractors
Assignment: Design-Build Project Manager
Years' Experience: 20



Education/Degree(s)/Year/Specialization:

BS in Building Construction, Virginia Polytechnic Institute and State University, 1993

Specialized Training

OSHA 30 Hour, 2012

Qualifications Relevant to this Project:

David graduated from the Building Construction Program at Virginia Tech in 1993 and began with MEB upon graduation. He specializes in water and wastewater treatment plants and complex industrial and food processing projects. David has significant experience as a project executive Fast Track Design/Build projects. Previous projects have been completed for Smithfield Foods, Norfolk Southern, Philip Morris, BFI Industries, Carter/CAT Machinery, HRSD, United States Navy, and the Army Corps of Engineers.

Representative Experience:

Smithfield Kinston Plant Expansion, Kinston, NC: Design/Build construction of an addition to an existing plant. The main plant area is approximately 131,600 sf, with a 6,300 sf dry storage addition and a 9,000 sf new shipping addition. Main plant consists of raw material receiving, work in process cooler, mixing and blending area, stuffing area, smokehouses and chill cabinets, tempering coolers, slicing halls, packaging, and automated palletizing. All process equipment to be provided by the owner with all mechanical/electrical equipment connections are included (air, high pressure water, steam, condensate, domestic, gas piping, power wiring, and control wiring). Fast track schedule of 14 months from NTP to startup of the processing lines. \$40M.

DCSR Waterline Replacement, DSCR, Richmond, VA: Design/Build project to replace the circa 1942 cast iron water mains and appurtenances, demolition of two circa 1942 750,000 gallon water tanks and soil remediation at those sites, possible new 500,000 gallon water tank based on final design requirements, a second connection to the municipal water supply, new switchgear for the fire pumps to use primary power and alternate backup generators, pump control modifications and repairs, increase generator fuel supply, upgraded power supply to the water plant (as needed), new fire hydrants, valve controls for proper maintenance of the system, repair and upgrade to valve houses, and a SCADA system for operation and monitoring of the system. \$30M.

Southampton County WWTP & Infrastructure PPEA Project, Southampton County, VA: Fast Track Design/Build project procured through the PPEA Guidelines for a new 1.25 MGD ENR treatment plant, 1.8 MGD pump station, 11,000' of 24" gravity sewer 9000' of 16" force main and 5000' of 20" outfall pipe to the Nottoway River. Design includes all permitting and approval with DEQ and VDH. Design has been phased to allow early completion of the pump station and pipelines to service a new elementary school. Construction consists of the following: 1) New dry pit submersible pump station 2) Headworks with strip screen, bypass channel, and grit removal process 3) Oxidation ditch 4) 2-50' diameter clarifiers 5) Disc filter and UV disinfection system 6) Post-aeration 7) RAS/WAS pump station 8) 2 digesters with centrifuge for dewatering 9) Complete plant controls with emergency generator backup. \$27M.

Chesapeake-Elizabeth Treatment Plant Improvements Phase I, Virginia Beach, VA: The Project or Work consists of a new preliminary treatment facility including bar screens and grit removal facilities; three (3) new secondary clarifiers; two (2) return activated biosolids (RAS) pumping stations; additional odor control facilities; new plant drain pump station; upgrade to existing main switchgear; modifications to the existing incinerator and scum concentrator buildings; and all related structural, architectural, mechanical, electrical, and instrumentation work required for the new or upgraded facilities. \$35M



Appomattox River Water Authority Water Treatment Plant Expansion, City of Petersburg, VA:

Construction of water treatment plant improvements and expansion including 50 MGD raw water intake and pumping station, 54 inch raw water transmission main, 96 MGD rapid mix facility, 50 MGD flocculation/sedimentation basins, 50 MGD filter expansion, chemical storage and feed facilities, 69 MGD finished water pumping station, site piping and instrumentation and control improvements. \$37M

Crystal Spring Water Treatment Plant, Roanoke, VA: Construction of a water treatment plant to treat 5 MGD of ground water with a microfiltration membrane treatment system. The water treatment plant building will be a brick and block masonry building that will house the treatment plant equipment also office space for the city utilities and water departments. The project also includes a below ground raw water pumping station, parking lot, and site utilities. \$4.7M

CSO Project Nos. 4 & 5, Hampton/McCloy Retention Tunnel, Richmond, VA: Construction of Combined Sewer Overflow (CSO) Project Nos. 4 and 5, Hampton/McCloy CSO Retention Tunnel, and Douglasdale Pumping Station improvements. Construct 6,000 LF of tunnel and two shafts along the James River, a new pump station, flushing structure, two regulators, and rehabilitation of an existing pump station, extensive electrical control work and associated site work. \$32M



KEY PERSONNEL RESUME

Name: Carl A. DeWald, Jr.
Title: Superintendent
Name of Firm: MEB General Contractors
Assignment: On-site Superintendent
Years' Experience: 28



Specialized Training

40 hours OSHA Certified
CPR and First Aid Certified

Qualifications Relevant to this Project:

Mr. Dewald will provide on-site project supervision in support of Mr. Ervin/Design Team and also coordinate all project labor and subcontractor work forces. Mr. Dewald will be responsible for coordination with all subcontractors during the construction of the project. He will also ensure safety and quality control are met at all times during the construction phase.

Representative Experience:

Southampton County WWTP & Infrastructure PPEA Project, Southampton County, VA: Fast Track Design/Build project procured through the PPEA Guidelines for a new 1.25 MGD ENR treatment plant, 1.8 MGD pump station, 11,000' of 24" gravity sewer 9000' of 16" force main and 5000' of 20" outfall pipe to the Nottoway River. Design includes all permitting and approval with DEQ and VDH. Design has been phased to allow early completion of the pump station and pipelines to service a new elementary school. Construction consists of the following: 1) New dry pit submersible pump station 2) Headworks with strip screen, bypass channel, and grit removal process 3) Oxidation ditch 4) 2-50' diameter clarifiers 5) Disc filter and UV disinfection system 6) Post-aeration 7) RAS/WAS pump station 8) 2 digesters with centrifuge for dewatering 9) Complete plant controls with emergency generator backup. \$27M.

First Street & Bailey's Creek Pump Station, Hopewell, VA: Civil, structural, mechanical and electrical improvements to the existing site, buildings, controls and appurtenances to replace the existing pump stations at First Street and Baily's Creek. Includes furnishing labor, material, equipment, disposal, and services for the construction of the folling at each site – new submersible pump station, electrical building and emergency generator. \$6M.

Oscar Smith Middle School Replacement, Chesapeake, VA: The comprehensive facility contains school administrative offices, classrooms, large kitchen and lunchroom areas, athletic training facilities and gymnasium, labs, common areas, etc. Built with a variety of construction types, it is primarily constructed of a concrete block and steel frame with a masonry exterior with low slope and standing seam metal roofing. Extensive sitework includes the demolition of existing structures for the construction of athletic fields, parking, and all underground utilities. Sustainability enhancements included the installation of a rainwater harvesting system and related piping connections. \$41.3M.



KEY PERSONNEL RESUME

Name: Jeffery Smith
Title: Project Engineer
Name of Firm: MEB General Contractors
Assignment: Project Engineer
Years' Experience: 8



Specialized Training

30 hours OSHA Certified
CPR and First Aid Certified

Qualifications Relevant to this Project:

Mr. Smith has constructed several highly complex projects on time and to the owners' satisfaction including a \$27 million PPEA Design-Build Wastewater Treatment Plant, \$20 million regional jail with highly complex MEP and specialized systems, and a \$50 million contemporary and technically advanced middle school. Mr. Dewald has served in the capacity as Project Superintendent for over 26 years.

Representative Experience:

Smithfield Kinston Plant Expansion, Kinston, NC: Design/Build construction of an addition to an existing plant. The main plant area is approximately 131,600 sf, with a 6,300 sf dry storage addition and a 9,000 sf new shipping addition. Main plant consists of raw material receiving, work in process cooler, mixing and blending area, stuffing area, smokehouses and chill cabinets, tempering coolers, slicing halls, packaging, and automated palletizing. All process equipment to be provided by the owner with all mechanical/electrical equipment connections are included (air, high pressure water, steam, condensate, domestic, gas piping, power wiring, and control wiring). Fast track schedule of 14 months from NTP to startup of the processing lines. \$33M.

James River Treatment Plant Improvements Phase 1, Newport News, VA: The project consists of modifications to the existing aeration basins numbers 1-9 to provide an integrated fixed-film activated sludge (IFAS) system with odor control, construction of a new blower building with blowers and aeration system, installation of new screens and miscellaneous work in the existing headworks building, construction of a new bypass valve vault and associated bypass piping, modifications to the existing sodium hydroxide facility, installation of a new polymer system in the existing solids handling building, installation of a new boiler/heat exchanger in the existing control building, installation of electrical and instrumentation and control systems, and associated demolition, site work, yard piping, and erosion control work. \$25M

York River Treatment Plant, Expansion Phase I, Seaford, VA: Expansion of an existing WWTP to include deitrification filters, new electrical/generator building, new methanol facility, new Intermediate Pump Station, interconnecting piping, interconnecting wiring and controls, site clearing and preparation for this and future contracts.



KEY PERSONNEL RESUME

Name: Allen Dorin, Jr., MAI, SRA
Title: President
Name of Firm: KDR Real Estate Services
Assignment: Land Acquisition Manager

Years' Experience: 37



Education/Degree(s)/Year/Specialization:

MS, Real Estate and Urban Land Development, Virginia Commonwealth University, 1975
BS, Commerce, University of Virginia, 1972

Professional Certifications:

Certified General Appraiser, Virginia
Licensed Real Estate Broker, Virginia

Qualifications Relevant to this Project:

Allen Dorin is the owner and president of KDR Real Estate Services, Inc. He is responsible for marketing of the company's right-of-way acquisition services, submission of Request for Proposal responses and general overall supervision of company projects. He is actively involved in most projects including the preparation of appraisals, negotiations, project management and invoicing. Allen's primary experience has been as a real estate appraiser for over 35 years. He has appraised a wide variety of property types with a concentration in eminent domain assignments. He has qualified as an expert witness in most of the localities in the Richmond MSA as well as other Virginia counties. He has testified in over 30 condemnation trials. He has managed numerous right-of-way and acquisition projects including conducting negotiations with property owners. He will provide right-of-way acquisition services on your projects.



KEY PERSONNEL RESUME

Name: Steve Armendinger, LS
Title: President
Name of Firm: InfraMap Corporation
Assignment: Subsurface Utility Designation Project Manager



Years' Experience: 33

Education/Degree(s)/Year/Specialization:
AAS, Forestry, Paul Smith's College, 1968

Professional Certification:
Professional Land Surveyor, Virginia, 1983

Qualifications Relevant to this Project:

Steve Armendinger has over 30 years of surveying experience. He actively manages the Department of Transportation contract work for InfraMap. Relevant experience includes several aspects of civil surveying as well as performing utility related survey on numerous construction projects. Steve has extensive survey experience in Subsurface Utility Engineering, boundary survey, topography, subdivisions, horizontal and vertical control, industrial survey, as-built site plans, land planning and utility location..



KEY PERSONNEL RESUME

Name: William R. Jennings, Jr., PE
Title: President, Senior Electrical Engineer
Name of Firm: William R. Jennings Consulting Engineering, PC
Assignment: Electrical Engineering / SCADA



Years' Experience: 27

Education/Degree(s)/Year/Specialization:
BS, Electrical Engineering Technology, Virginia Military Institute, 1982

Professional Certification:
Electrical Engineering; Virginia, West Virginia, North Carolina, Massachusetts, New York, Mississippi, Pennsylvania, Alabama, Maryland, Georgia, Louisiana, Wisconsin, Oklahoma, and the District of Columbia.

Qualifications Relevant to this Project:
Established in 2002, William R. Jennings, Jr. - Consulting Engineering, PC is a professional services company that provides high-quality technology in electrical engineering design for industrial, commercial, municipal, and environmental clientele.

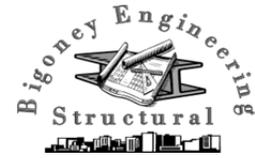
Select Project Experience

- **Luray Water Treatment Plant, Luray, VA**
5.0 MGD Membrane Water Treatment Plant.
- **DuBose Strapping, Clinton, NC**
This project provided electrical design for a new plastic strapping facility. The project included a new 4000 amp service for the new building, lighting, egress lighting and power to the equipment.
- **Freight Car America, Roanoke, VA**
This project provided an Arc Flash and Load Flow study for the existing facility to determine the suitability of the existing electrical system's ability to accommodate expansion for a new rail car line.
- **Liberty University, Lynchburg, VA**
This project provided an electrical design to replace the campus electrical service for the university. The 12.47 KV switchgear incorporated the existing campus underground feeders and provisions for a new campus building and chiller plant. The project also included a coordination study for the switchgear.
- **Lockheed Martin, Manassas, VA**
This project provided control design and interconnection drawing to replace the feeder breaker relays (breaker control) for an existing 15 KV switchgear line-up that served the entire facility. The work include on site assistance for a 48 hour shutdown of the facility to make the modifications. Also included was a coordination study and an arc flash study for the switchgear.



KEY PERSONNEL RESUME

Name: Burt Bigoney, Jr., PE
Title: President, Structural Engineer
Name of Firm: Bigoney Engineering, PC
Assignment: Structural Engineering



Years' Experience: 39

Education/Degree(s)/Year/Specialization:
BS, Civil Engineering, University of Tennessee (Knoxville), 1974

Professional Certifications:
Professional Engineer, Virginia

Qualifications Relevant to this Project:

Founded Bigoney Engineering in 1981 after gaining 8 years of design experience with consulting firms in Virginia and Texas. Bigoney Engineering has since provided structural engineering services for architects, engineers, contractors and industry.

Select Project Experience

- **Luray Water Treatment Plant, Luray. VA**
3.0 MGD Membrane Water Treatment Plant.
- Structural design for numerous water and wastewater treatment facilities throughout the United States.
- Designed commercial buildings and additions including shopping centers, offices, banks, condominiums, nursing homes, medical parks and warehouses.
- Designed municipal buildings including the Spotsylvania County Administration Building
- Designed churches, including multi-million dollar Latter Day Saints churches throughout the region.
- Performed feasibility studies for change in use of existing structures. Performed rehabilitation and retrofit designs.
- Performed failure studies and expert witness testimony.
- Construction engineering experience including design of shoring and jacking systems.
- Structural design, construction administration, and structural consultation for all facets of residential construction.



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.

Falconer Construction Company
2496 Old Ivy Road
Charlottesville, VA 22903
Office: 434.295.0033
Fax: 434.295.0508
Website: www.falconerconstruction.com

Ed Stelter, LEED AP, DBIA
Email: estelter@falconerconstruction.com
Mobile: 434.906.5257

Timmons Group
1001 Boulders Parkway
Suite 300
Richmond, VA 23225
Office: 804.200.6500
Fax: 804.560.1016
Website: www.timmons.com

Joe Hines, PE, MBA
Office: 804.200.6380
Fax: 804.560.1438
Email: joe.hines@timmons.com
Mobile: 804.615.2162

MEB General Contractors, Inc.
4016 Hollane Boulevard
Chesapeake, VA 23323
Office: 757.487.5858
Website: www.mebgc.com

David Ervin
Email: dervin@mebgc.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.

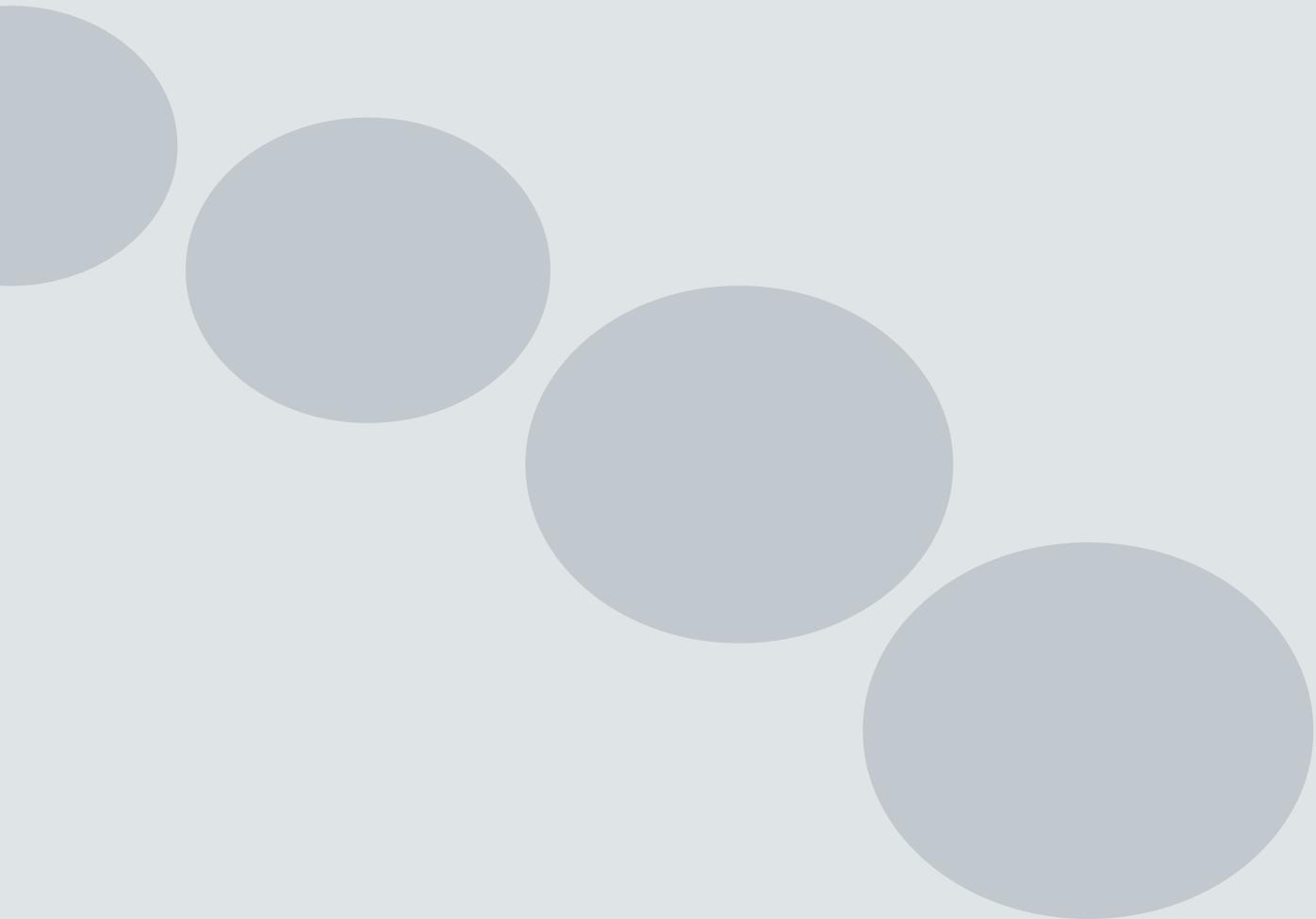
Given the confidential nature of this document, the FCC Financial Statement is contained in Volume II and is marked Proprietary and Confidential. Additionally, FCC will be providing the required bonding for this project.

e. DISQUALIFICATION STATEMENT

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

There are no individuals on the Falconer/Timmons Group/MEB team who would be obligated to disqualify themselves from participation.

SECTION 2





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 is based on the design and construction (**Design-Build**) of the **James River Water Supply Project** near the Town of Columbia on the north side of the James River.

In addition to the construction of a Raw Water Intake and Pump Station, the project will include the construction of a raw water pipeline segment that will terminate in the vicinity of the Colonial Pipeline easement on the north side of State Route 6. The project will provide a point of connection on the raw water pipeline for continuation of raw water and other water system facilities by each of the Authority member Counties of Fluvanna and Louisa.

System Capacity Assumptions

The raw water withdrawal rates and permit conditions are based on the existing water withdrawal permit #04-0805, dated June 9, 2006. This permit was issued to the Fluvanna County and then transferred to the James River Water Authority for the withdrawal of water 2000 feet downstream of US Route 15 on the James River. This proposal is based on the re-issuance of this permit for an intake located near the Town of Columbia in the vicinity of the confluence of the Rivanna and James Rivers.

Permit #04-0805 was issued with the following conditions:

1. *Maximum Daily Withdrawal = 5.7 (MGD) million gallons per day*
2. *Maximum Annual Withdrawal = 1.1 billion gallons*
3. *The annual withdrawal limit shall be reduced by 54.75 million gallons if the Department of Corrections renews Virginia Water Protection Permit Number 95-0957 to withdraw water from Mechunk Creek.*
4. *The annual withdrawal limit shall be reduced by 460 million gallons if the County of Louisa constructs an alternative water supply system to provide water to the Zion Crossroads with water from Bowlers Mill Reservoir.*

It is understood that the Department of Corrections will not participate in this project therefore, based on the above stated permit condition Item 3, the maximum annual withdrawal will be reduced by 54.75 million gallons resulting in a revised maximum annual withdrawal of 1.04525 billion gallons. This relates to a 2.85 MGD average daily withdrawal rate.

Based on the permit conditions, the **James River Water Supply Project** has been configured as follows:

Raw Water Intake and Pump Station:

Intake, pump station wetwell and piping are sized to withdraw the maximum daily rate of 5.7 MGD.

Pump Station Pump Equipment:

| | |
|----------------------------------|---------|
| Initial Configuration Pump Rate: | 3.0 MGD |
| Future Configuration Pump Rate: | 5.7 MGD |



Raw Water Pipeline Facilities:

| | |
|----------------------------------|---------|
| Initial Configuration Pump Rate: | 3.0 MGD |
| Future Configuration Pump Rate: | 5.7 MGD |

The design of the **James River Water Supply Project** accounts for necessary peaking factors, favorable operation duty cycle and the provision of redundant equipment where applicable.

The facilities have been configured to allow expansion to the future configuration without disruption of service.

Pending relocation of the withdrawal permit and conditions set forth in the revised permit, adjustments to the above stated design parameters will be taken into consideration during the Interim (Design) Phase of the project.

Detailed project descriptions and exhibits Proprietary & Confidential are included in Section 2 Volume II of this proposal.

b. JAMES RIVER WATER AUTHORITY WORK AND RESPONSIBILITIES
Identify and fully describe any work to be performed by the Authority.

The Faulconer/Timmons Group/MBE team lists the following Authority Work and Responsibilities:

1. Project funding.
2. Environmental Phase Assessments if required.
3. Permanent easements and construction easements.
4. Land acquisition.
5. Independent construction inspection.
6. Independent Geotechnical and Materials Inspection/Reporting during construction.
7. Fluvanna County permit fees.
8. New permanent electrical services required to power the new Raw Water Pump Station.
9. Permit fees associated with re-issuance and relocation of the raw water withdrawal and construction permits.
10. Permit fees for railroad crossings.



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.

The Faulconer/Timmons Group/MEB team lists the following Permitting requirements:

Permits and approvals required for the proposed work are as follows:

1. VDEQ Certificate to Construct (CTC); obtain prior to construction.
2. VDEQ Certificate to Operate (CTO); obtain at completion of project.
3. VDEQ withdrawal Permit Modification; obtain prior to construction.
4. USACE Nationwide 12 Permit; obtain prior to construction.
5. USACE construction permit for new intake.
6. VDOT Land Use Permit; obtain prior to construction.
7. VDH Waterworks Construction Permit; obtain prior to construction.
8. VDH Waterworks Operation Permit; obtain at completion of project.
9. Fluvanna County Land Disturbance Permit; obtain prior to construction.
10. Fluvanna County Building Permit(s) ; obtain prior to construction.
11. Railroad Crossing Permit
12. Virginia Stormwater Management Program (VSMP) Permit; obtain prior to construction.

In order to expedite the implementation of the project, the design, permitting and construction of project components will be implemented in a phased approach. Those permits indicated as “obtain prior to construction” must be obtain prior to commencing construction on each project phase.

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 pipe line projects, no adverse social, economic, and/or environmental impacts are anticipated with the proposed project.

The Faulconer/Timmons Group/MEB team will coordinate construction activities with the Fluvanna County and VDOT to assure that traffic inconveniences, noise and dust resulting from construction activities are minimized. Traffic control measures and construction activities within VDOT right-of-ways will be conducted in strict conformance with VDOT standards.

FCC will assign a Responsible Land Disturber to monitor land disturbance activities and assure compliance with the Virginia Soil and Water Conservation regulations. An Erosion and Sediment Control (E&SC) plan will be prepared by the Faulconer/Timmons Group/MEB team and will be strictly adhered to during construction.



All disturbed areas will be stabilized and restored in conformance with the E&SC plan. Restoration of trees and ornamental shrubs within easements on private property will consist of replanting damaged or removed materials with immature trees and plantings. Driveway entrances will be restored to pre-construction conditions. Road and shoulder surfaces on VDOT right-of-ways will be restored based on restoration details approved by the VDOT during project plan approval.

The FCC 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 adverse construction activity impacts during the proposed project.

e. POSITIVE IMPACTS

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

The implementation of a raw water supply project utilizing the James River has been in the making for almost 20 years and will have numerous positive social, economic, and environmental impacts. The primary benefits of the project include specifically the following:

1. It will provide Louisa County with a reliable water source for Zion Crossroads that removes the need for the County to rely solely on the Green Springs wells located in the Green Springs Historic District.
2. Consistent with Louisa County’s designated Growth Areas, it will provide a reliable water source and foster economic development and growth potential in the Zion Crossroads, Ferncliff and Shannon Hill Growth Areas.
3. The shared JRWA infrastructure (intake, pump station and pipeline north of Rte 6) will provide Fluvanna County with a needed raw water supply such that they can potentially construct a water treatment facility to serve the Columbia, Fork Union and Palmyra (and Pleasant Grove) designated growth areas within Fluvanna County.
4. Currently the Fork Union Sanitary District, Palmyra / Pleasant Grove, Central Elementary/Fluvanna High School and Columbia are all reliant on wells. The James River Water Project will provide Fluvanna County with the ability to remove reliance on wells in the near future.
5. The James River Water Project provides a reliable water source to Fluvanna County to reduce the potential reliance on the Rivanna River, which saw significant low flows during the 2002 drought.
6. The James River Water Supply Project provides a reliable raw water source that minimizes the impacts to the James River, and will minimize the stresses on the well systems located throughout both counties, in particular with the various levels of droughts that have taken place since 2002.

Furthermore, the proposed utility infrastructure improvements will enable the JRWA member Counties to provide a higher level of water service, thus resulting in increased economic development and growth potential.

Timmons Group has been involved with this project from its original inception in 1995, until today. As such, we have provided a detailed timeline highlighting Timmons Group involvement with the project in Volume II for your reference.



f. PROPOSED SCHEDULE

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

By utilizing multiple construction crews working concurrently, the Faulconer/Timmons Group/MEB team proposes to complete the base contract portions of the project in an accelerated manner as indicated in the project schedule. The proposed overall schedule and pricing for the design and construction of the proposed improvements is based on selection of the preferred provider of design and construction services by JRWA not later than June 1, 2014. The overall duration and sequencing of the base contract activities with any options, additives and alternates chosen by the Authority can affect the final schedule.

See Volume II – Proprietary and Confidential, Appendix C for the proposed preliminary schedule.

g. RISK ALLOCATION AND LIABILITY

Proposed 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 Faulconer/Timmons Group/MEB Team will assume the following risks;

- A Guaranteed Maximum Price (GMP) (Lump Sum basis) will be offered based on final negotiations with the County of Louisa as defined by the agreed-to Scope of Work.
- Bonding - **FCC** 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 Authority 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 County will be responsible for delays in acting on permitting and easements that negatively impact project costs.

If the Authority wishes to implement incentive/disincentive terms into the comprehensive agreement, FCC would be willing to negotiate such terms.

The Faulconer/Timmons Group/MEB team lists the following Risk Allocation and Liability:



- Under a lump-sum design/build contract, Faulconer/Timmons Group/MEB team bears the risk of design errors and omissions and all factors within the control of Faulconer/Timmons Group team.
- A significant portion of the proposed pipelines will be constructed within existing Gas, Electrical and VDOT right-of-ways. Additional permanent easements must be obtained by the Authority for those portions of the project outside of VDOT right-of-ways. The Authority will be responsible for land acquisition, securing access to existing easements, and obtaining additional construction easements required to complete the project along with any associated costs. Changes to structure location and pipe alignments due to the inability to acquire the necessary land or easements may involve additional cost to the Authority.
- Factors beyond the control of both the Authority and Faulconer/Timmons Group/MEB team that delay or otherwise impact the work (i.e. fires, floods, epidemics, acts of war or terrorism, unusual weather, work stoppages, supply disruptions, or acts of God) will be considered excusable delays entitling Faulconer/Timmons Group team to an equitable adjustment of the contract time.
- Should the Authority, or anyone for whom the Authority is responsible, delay, disrupt, or interfere with the progress of the work, Faulconer/Timmons Group/MEB team will be entitled to an equitable adjustment of the contract price and time. This may include impact costs resulting from unreasonable delays in obtaining the land and easements required for the project.
- Should the Authority order additional work beyond the original contract scope of work, Faulconer/Timmons Group/MEB team will be entitled to an equitable adjustment of the contract price and time.
- Based on many years of experience in the design and construction of water and sewer facilities, the Faulconer/Timmons Group/MEB team believes that the project as proposed can be successfully completed in the time frame outlined in the schedule included in Volume II, Appendix C (**Proprietary & Confidential Information**). FCC as the prime contractor will agree to a reasonable daily liquidated damage penalty for late completion due to factors within its control beyond a mutually agreed-upon contract completion date.
 - The public is not expected to otherwise be adversely affected by delays in completion of construction of the new Raw Water Intake and Pump Station.

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 County's use of the project.

*The **Faulconer/Timmons Group/MEB** team lists the following Operational Assumption and Restrictions:*

1. The Authority will retain ownership of all existing utility improvements affected by the project. Title to all improvements made under the proposed project will transfer to the Authority upon acceptance by the Authority and prior to beneficial use.
2. The Faulconer/Timmons Group/MEB team will provide and maintain appropriate levels of Liability and Builder's Risk insurance covering its operations. The Authority and its agents will be named as an additional insured on all policies. Any indemnification clauses incorporated into the comprehensive agreement will not favor



one party over the other. The Faulconer/Timmons Group/MEB team will also provide and maintain appropriate levels of Errors & Omissions insurance against design errors and omissions.

3. The Authority will be responsible for operating all existing water utility improvements continuously throughout the project and assume responsibility for operating and maintaining the new improvements upon acceptance and beneficial use.
4. FCC will be responsible for protecting the work during construction.
5. It is assumed that local law enforcement will assist with short-duration traffic control or highway safety measures periodically during the Construction Phase. It is also assumed that local law enforcement will assist FCC with loss control by increasing patrols in areas where stored construction materials and equipment are necessarily accessible to the public (primarily rights-of-way and temporary staging areas).
6. All new work will conform to fully applicable state and local regulations.
7. There will be no restrictions on the public's use of the project once the work is complete and accepted by Authority.

i. PHASED OR PARTIAL OPENINGS

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

The Faulconer/Timmons Group/MEB team is ready, willing and able to help the Authority meet desired goals in any sequence as best determined by the Authority. Our team will develop a plan that benefits the Authority as dictated by Authority and as agreed to by logical design and construction practices and sequencing. Phases and/or alternates can be integrated or build individually. The Authority can assume beneficial use of each project phase as they are completed and accepted by the Authority.

j. OTHER ASSUMPTIONS

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

The Faulconer/Timmons Group/MEB team lists the following Other Assumptions:

1. The Faulconer/Timmons Group/MEB team assumes that the Authority's reference files including boundary surveys, GIS Surveys, record document (as-built) drawings and specifications, existing facility design reports, and existing operation and maintenance manual files will be made available by the Authority to serve as baseline information.
2. The Authority will pay all Fluvanna County permit fees.
3. VDOT will permit the construction of the pipelines and appurtenances within the VDOT Rights-of-Way where indicated.
4. The Authority can and will secure all additional land and easements necessary for the proposed intake, pump station, and pipeline alignment without unreasonable delay.



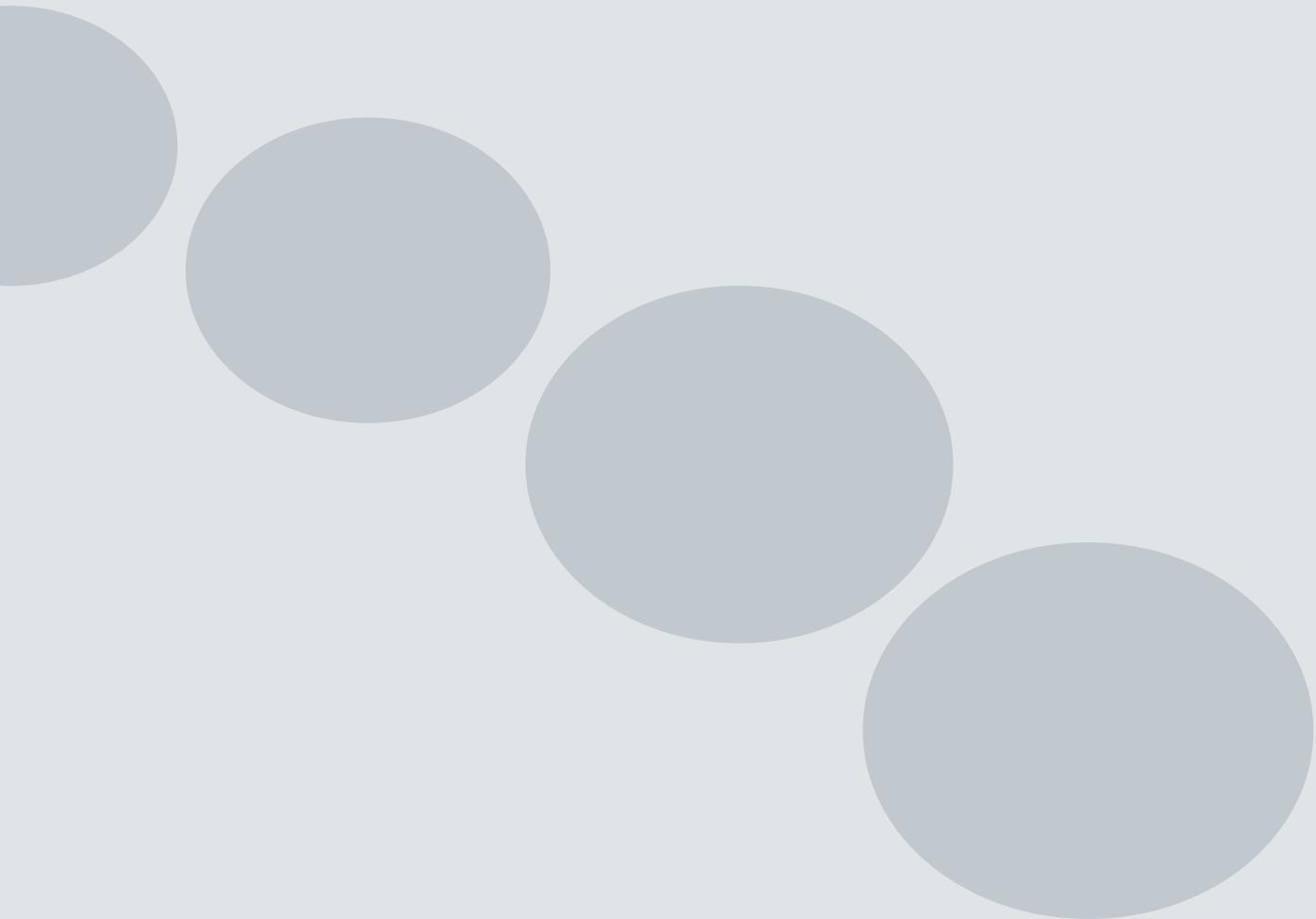
5. Coverage for wetland impacts will be granted under the U.S. Army Corps of Engineers Nationwide 12 Permit.
6. The proposal assumes no additional wetlands permitting or resource protection area (RPA) setbacks will be required for the proposed improvements. The Authority will be responsible for all environmental assessments, perennial flow determinations as well as any Virginia Department of Historic Resources requirements.

k. CONTINGENCIES

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

See Volume II – Proprietary & Confidential, Cost Proposal

SECTION 3





3.0 PROJECT FINANCING

The FCC 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 II, Section 3 - Proprietary and Confidential, Technical and Cost Proposal, is intended solely for the confidential use by the James River Water Authority, per the Virginia PPEA guidelines as stated under Section 2.2-4342. Therefore, Volume II, 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.**

See Volume II –Proprietary and Confidential, Section 3 and Appendix B for this information.

- 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.**

See Volume II – Proprietary and Confidential, Section 3 for this information.

- 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.**

See Volume II – Proprietary and Confidential, Section 3 for this information.

- d. Identify the proposed risk factors and methods for dealing with these factors.**

The Faulconer/Timmons Group/MEB team lists the following proposed risk factors and methods for dealing with these factors:

Project Risk factors and proposed remedies consist of the following:

1. Design Errors and Omissions

Remedy: By entering into a design-build contract for the work, the Authority significantly reduces its risk by eliminating its exposure to increased construction costs and delays resulting from design errors and omissions.

2. Default by the Contractor

Remedy: FCC will provide surety in the form of Performance and Payment Bonds to guarantee satisfactory completion of the work and payment of all subcontractors and suppliers. Should FCC default on the contract or otherwise fail to pay its subcontractors and suppliers, the Surety will assume the outstanding contractual obligations to the Authority, and the subcontractors and suppliers.



3. Delays Caused by Land and Easement Acquisition

Remedy: Faulconer/Timmons Group/MEB will identify all easement and land acquisition requirements within 60 days of notice to proceed to allow the Authority adequate time to secure the land and easements needed for the project. Faulconer/Timmons Group/MEB will provide technical support to the Authority during the acquisition process and evaluate realignment or other alternatives promptly when easement or land acquisition becomes problematic.

4. Highway Construction Safety

Remedy: Much of the work will be performed on or adjacent to busy secondary roads and highways. Traffic safety and traffic control measures conforming to VDOT standards will be employed at all times when crews are working under or adjacent to active roadways. This will include the use of flagmen, signage, barriers, road plates, markers, flashers and other approved traffic safety devices.

5. Public Safety

Remedy: Any excavations left open overnight will be fenced or barricaded to protect the public. Daily trench excavation will be limited to what can be backfilled during the same day.

6. Surface Wetlands, Waterway, and Roadway Crossing Impacts

Remedy: Directional boring or jack & bores will be employed where feasible to limit disturbance of sensitive areas including wetlands, waterways (streams), and public roads.

7. Differing Site Conditions (Rock, Unsuitable Soils, Wetlands).

Remedy: Ultrasound and geotechnical surveys will be used to identify potential areas where rock or unsuitable soils will be encountered prior to construction. Rock will be removed and undercutting will be performed to remove unsuitable soils. All other existing conditions affecting the work are generally visible which reduces the potential for unanticipated conditions.

8. Adverse Weather

Remedy: Weather forecasts will be monitored closely and construction activity will be suspended during periods of significant rainfall or adverse weather to prevent surface water from entering ditches and excavations, and prevent mud from accumulating on roadways

- 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 County's credit or revenue.***

The Faulconer/Timmons Group/MEB team lists the following local, state and federal resources relevant to the project:



The Authority must:

1. Post public notices and hold public hearings during the PPEA Review and Selection Process and prior to entering into a Comprehensive Agreement with the preferred provider.
2. Acquire land and secure construction easements during the design phase and prior to the start of the Construction Phase.
3. Review the design documents and issue building permits at the conclusion of the Design Phase and prior to the start of the Construction Phase.
4. Periodically inspect the work during the construction phase and issue an Occupancy Certificate upon completion of the Construction Phase.
5. Review the design documents and issue stormwater and land disturbing permits at the conclusion of the design phase and prior to any land disturbing activities.
6. Attend meetings and provide input during the Design and Construction Phases.
7. Attend training sessions and participate in start-up, testing and commissioning activities prior to beneficial use of the improvements.
8. Operate and maintain the improvements upon beneficial use of the improvements.
9. Contract with a local electric utility to provide new permanent electrical service as required to new facilities.

The Virginia Department of Transportation must:

1. Approve the proposed pipeline alignment with VDOT Rights-of-Way prior to the start of the Design Phase.
2. Issue a land use Permit prior to the start of the Construction Phase.

The Virginia Department of Environmental Quality must:

1. Approve the required Water Withdrawal Permit prior to start of construction phase.

The Commonwealth of Virginia must:

1. Issue a Virginia Stormwater Management Program (VSMP) permit prior to the start of any land disturbing activities.

The Virginia Department of Health must:

1. Issue a Waterworks Construction Permit prior to the start of the Construction Phase.
2. Issue a Waterworks Operational Permit upon completion of the Construction Phase and prior to beneficial use.

The Fluvanna County Sheriff's Department and/or the Virginia State Police may be requested to:

1. Assist with short-duration traffic control or highway safety measures periodically during the Construction Phase.



2. Assist Faulconer/Timmons Group/MEB with loss control by increasing patrols in areas where stored construction materials and equipment are necessarily accessible to the public (rights-of-way and temporary staging areas).

The **U.S. Army Corps of Engineers** must:

1. Provide coverage under the Nationwide 12 Permit for wetlands impacts for pipeline construction.
2. Issue a permit to construct a new intake within the Waters of the U.S.

A detailed project schedule is provided in Volume II, Appendix C (Proprietary & Confidential Information).

There are no indirect guarantees or pledges of the Authority's credit or revenue associated with this proposal.

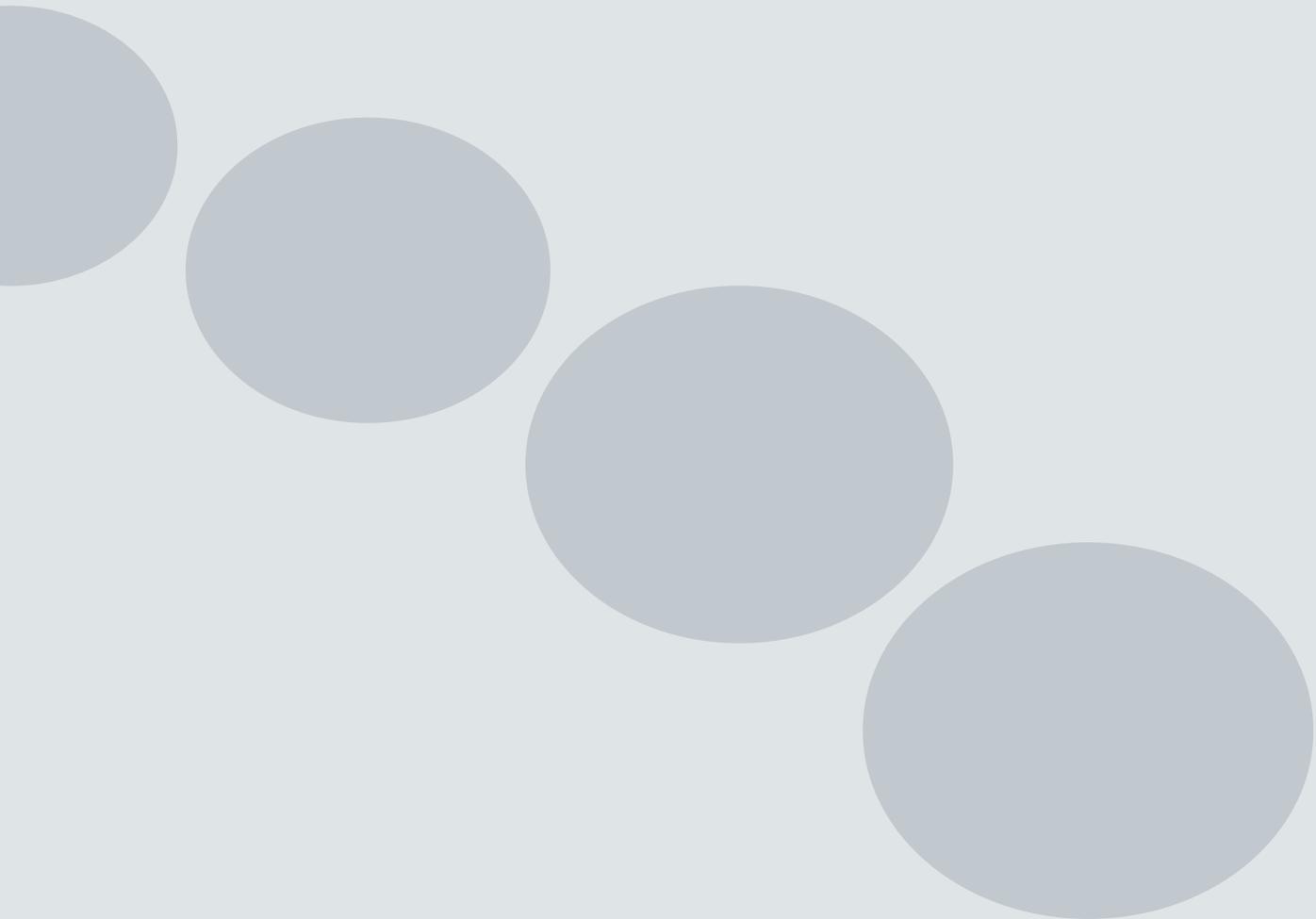
f. Identify the amounts and the terms and conditions for any revenue sources.

There are no direct revenues sources associated with this proposal. The project will allow the Authority to generate revenue through agreements with the member Counties.

g. Identify any aspect of the project that could disqualify the project from obtaining tax exempt financing.

No known aspect of the project will disqualify the project from obtaining tax-exempt financing.

SECTION 4





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 overall community, region, or state.

FCC who is local to the Fluvanna and Louisa area will self-perform the majority of construction of pipe lines. MEB a Virginia based general contractor will self-perform the majority of the water treatment plant and intake facilities. Many of the FCC employees live in the Counties of Fluvanna and Louisa and surrounding communities and support the local tax base. Through Timmons Group, all engineering and survey services will be performed by Virginia based firms. The project will provide many opportunities for employment of local labor resources.

The Faulconer/Timmons Group/MEB team lists the following Benefits:

1. Entering into a design-build contract under the PPEA guidelines offers the Authority significant advantages in the form of a proven team, a fixed price, increased flexibility, limited risk, and an accelerated completion schedule over traditional design-bid-build procurement.
2. The project will support planned future residential and economic development in the designated member Counties' Growth Areas and generate additional tax revenue for those Counties in addition to utility fees to recover the cost of the improvements.
3. FCC will source consumable materials needed for the project including fuel, tools, lumber, crushed stone, ready-mix concrete, etc. from local businesses.
4. The proposed project will generate state sales tax revenue for the Commonwealth of Virginia.

b. SUPPORT AND OPPOSITION

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

This project has been almost 20 years in the making as Fluvanna and Louisa have been planning for a raw water source utilizing the James River since an original study was conducted by Timmons Group in 1995. As such, this project has been the subject of numerous public meetings, with the most recent actions taken in the form of the October 1, 2013 Agreement between Fluvanna and Louisa Counties, the Louisa County Water Authority, and the James River Water Authority.

The Faulconer/Timmons Group/MEB team lists the following anticipated Public Support and Opposition:

It is anticipated that the following entities will support the project:

1. County of Louisa
2. Fluvanna County
3. The James River Water Authority



4. The Louisa County Water Authority.
5. The Virginia Department of Health
6. The Virginia Department of Environmental Quality.
7. The Virginia Department of Transportation.
8. Businesses and residents located along the proposed extended water service corridor.
9. Developers in the targeted growth area.
10. Local environmental activists.

The following entities may offer some opposition to all or parts of the project:

1. Landowners whose property must be crossed by the proposed Raw Water Main where new easements are required.
2. Local anti-development activists.

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 FCC 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 **FCC** team will work with the Authority and others to develop and execute public outreach as necessary to foster support for the project.

As has been done on prior municipal projects, the Faulconer/Timmons Group/MEB Team will assist the Authority in conducting meetings as deemed necessary with business groups, civic organizations, and County 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. ANTICIPATED BENEFITS

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

The proposed utility infrastructure improvements will enable the JRWA member Counties to provide a higher level of water service, thus resulting in increased economic development and growth potential.

The health and well-being of the Fluvanna and Louisa communities, as well as the environment and the economy depend on the continued maintenance and support and funding of infrastructure at all levels. The primary benefits of modern water and 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 citizens to enjoy a higher standard of living.

The citizens of the JRWA member Counties and surrounding communities will benefit by enjoying a higher standard of living due to updated utility infrastructure.

e. COMPATIBILITY WITH AUTHORITY’S PLAN

Describe compatibility with the local comprehensive plan, local infrastructure development plans, the capital improvements budget, or other government spending plan.

The Faulconer/Timmons Group/MEB team lists the following regarding Compatibility with the Authority’s Plan:

It is understood that as proposed, the Project meets the requirements for the Fluvanna County and County of Louisa Comprehensive Plans and provides a safe and reliable raw water supply to each of the Counties for their continuation of facilities to eventually provide finished water to designated Growth Areas.

Furthermore, in accordance with the October 1, 2013 agreement between the Counties and respective water authorities, Fluvanna County voted to amend the Comprehensive Plan on November 20, 2013 after the Planning Commission approved the comprehensive plan text amendment by a 4-1 vote on October 23, 2013.

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.

We pledge to work in total cooperation with you to provide a plan that meets or exceeds all goals of the James River Water Authority. If we find that additional sub-consultants are needed, we will make sure the Authority approves each firm before adding them to our team.

Our firm routinely spends a significant portion of our subcontracting and consulting dollars annually with minority, women-owned and small businesses. We see this as an opportunity to help small, minority, and women-owned businesses expand their business opportunities. Each subconsultant proposed for this project is certified SWaM businesses, as indicated below:

Timmons Group, Inc.
(Certified Small Business, SWaM #684210)

InfraMap, Inc.
(Certified Small Business, SWaM #8924)

KDR Real Estate Services
(Certified Small Business, SWaM #651893)