

**For Joint Forces Headquarters – Coonskin and Camp  
Dawson**

**Date Submitted: August 31, 2016**

**CEOI ADJ1700000004**



**Submitted to:**

**Bid Clerk**

**Department of the Administration**

**Purchasing Division**

**2019 Washington Street, SE**

**Charleston, WV 25305**

**On Behalf of:**

**Division Engineering & Facilities**

**Adjutant Generals Office**

**1707 Coonskin Drive**

**Charleston, WV 25311**

**Submitted by:**



# L. A. GATES COMPANY

ENGINEERS AND CONSULTANTS

L. A. GATES, P.E.  
PRESIDENT

J.W. CANTLEY, JR., P.E., P.S.  
EXECUTIVE VICE PRESIDENT

GARY J. KEATON, P.E.  
VICE PRESIDENT -  
NATURAL GAS ENGINEERING

DON CRUSAN  
VICE PRESIDENT -  
FACILITY ENGINEERING

NOEL S. RIFFE  
VICE PRESIDENT -  
FINANCE & ADMINISTRATION

August 31, 2016

Bid Clerk

Department of the Administration

Purchasing Division

2019 Washington Street, SE

Charleston, WV 25305

Re: **Redundant Water and Sewer Systems EOI Design  
Services for Joint Forces Headquarters – Coonskin  
and Camp Dawson  
CEOI ADJ1700000004**

Dear Sir/Madam,

Please find enclosed our response to the Expression of Interest for the redundant water and sewer systems EOI for the Coonskin ARNG Headquarters facility and Camp Dawson. Our Project team is familiar with the project sites having been involved in projects in the past.

We understand several important aspects of this project. They are as follows:

- I. The purpose of this project is to identify vulnerability of the existing systems and propose means to mitigate those vulnerabilities.
- II. Survey and Geotechnical engineering may be part of this project.
- III. Construction Administration and Bidding assistance may also be part of the project.
- IV. The consultant will need to coordinate with the entities that supply services to the bases as part of the permitting process.

The following criteria make our team a good choice:

- I. WV Firms with local offices in Saint Albans and Hurricane.
- II. A vast range of experience with this type of project.
- III. We are able to supply all the aspects of technical support that this project may require to include civil engineering, electrical engineering, geotechnical engineering, site design and planning, survey and a strong project management program through diligent QC/QA.

TELEPHONE 304.256.1640

2302 SOUTH FAYETTE STREET

BECKLEY, WV 25801

FAX 304.256.1617

TELEPHONE 304.757.5020

500 PRESTIGE PARK DRIVE, SUITE 500A

HURRICANE, WV 25526

FAX 304.757.5023

Our proposal contains the following elements:

- I. Cover Letter
- II. Project Approach
  - a. Preliminary Project Schedule
- III. Resumes of Key Project Team Members
- IV. Similar Projects
- V. Addendum Receipt Affidavit
- VI. Certification

It should be noted that our team also has experience working on military facilities such as Quantico, Yeager Airfield, Radford Army Arsenal and Camp Dawson. We understand the precision of the Armed Forces. Our large amount of experience within the WV Government and other governmental agencies aids our work by knowing what the expectations of our clients will be.

We look forward to demonstrating these key elements to you. Should you have any questions please call our office at 304-256-1617.

Sincerely,



William B. Keaton, P. E.  
Director – Municipal Services

Enclosure  
WBK/wbk

**Redundant Water and Sewer Systems EOI Design Services  
For Joint Forces Headquarters – Coonskin and Camo Dawson**

**Date Submitted: August 31, 2016**

**CEOI ADJ1700000004**

**Project Goal 4.1 – Complete System Inventory and Vulnerability Assessment**

- **Task 4.1.1 Initial Systems Data Acquisition and Understanding**
  - Hold initial meeting with personnel familiar with the operation of the water and sewer system, Facility Manager/Army.
  - Review operational data for each system
  - Review as-constructed drawings for each system
  - Review operation and maintenance procedures and manuals for each system
- **Task 4.1.2 Assessment of Existing Systems**
  - Use Document Inventory System which will detail system condition, useful life, repair/abandon assessment, criticality assessment and other criteria established by Facility Manager/Army.
- **Task 4.1.3 Guidance Document for Redundant Systems**
  - Prepare document showing prioritized redundancies identifying most critical components.
  - Provide cost estimates using the most recent costing information available through RS Means, current bid market analysis, and historical information. Where possible, work with specific manufacturers of equipment for real time information including specifications and costs.
  - Compile all relevant information into a comprehensive report.
- **Task 4.1.4 Deliverable**
  - Digital and hard copies of report from 4.1.3 above detailing; prioritized redundant system analysis, current condition of existing system, corresponding estimated cost(s) to repair, replace, or abandon particular components, as well as an analysis of the impact of changes on the existing system on operational and maintenance aspects of the existing system.

**Project Goal 4.2 – Catalog and Index Water and Sewer Infrastructure**

- **Task 4.2.1 Perform Site Assessment to Determine Well Site Needs and Infrastructure**
  - Visit well site(s) to review existing conditions
  - Perform 24-hour drawdown test to determine the capacity of well to determine the ability of the well to provide a consistent water supply to meet desired demand. The well capacity will be evaluated on its ability to meet both average daily flow and peak flow demands

- Provide assessment of well pump infrastructure through either review of pump station parameters and/or redundant bench testing of pumps.
- Task 4.2.2 Deliverable
  - Digital and hard copies of report detailing redundant system and current condition of existing system with corresponding estimated cost estimates to include operational and maintenance impact.

### **Project Goal 4.3 – Assessment Criteria**

- Task 4.3.1 Assessment of Contents and Criteria Including:
  - Condition of Existing Infrastructure to include any pertinent photographs detailing findings and corresponding documentation.
  - Description of current conditions
  - Evaluation of useful life and sustainability of existing system components
  - Evaluation of Water Source, quality, quantity and vulnerability
  - Current regulation analysis and a determination of the applicability of future regulatory conditions that may impact existing and future systems
  - Operational and Maintenance Analysis to include criticality assessment with prioritization of the impact on the existing system
  - Water loss analysis and possible causes/fixes. Analysis will include possible deficiencies in water loss calculations/inventory
  - An evaluation of possible changes to operational procedures to manage water systems to greatest efficiency
  - Sewer System Capacity analysis and comprehensive performance analysis
  - Sanitary Sewer System inventory
  - Impact analysis of sewer system on water conditions

### **Project Goal 4.4 – Provide Design Report and Opinion of Probable Cost (Cost Estimates)**

- Task 4.4.1 Provide Design Report
  - Provide Design Report detailing prioritized water and sewer components for design. This will be the basis for design of any redundant system.
- Task 4.4.2 Design Water and Sewer Improvements as Directed by Facility Managers and HQ Personnel
  - Designs will be based on criteria set forth by the Army as well as applicable federal and state regulatory agencies.
  - Operation and Maintenance Analysis will be included in the design report detailing present and future economic impact
  - A detailed project schedule in Microsoft Project format, or another format as stipulated by the Army, will be provided.
- Task 4.4.2 Deliverable

- Digital and hard copies of design report including cost estimates which will include existing and future operational and maintenance impact.

### **Project Goal 4.5 – Provide Full Preliminary Design Services**

- **Task 4.5.1 Provide Full Design of Project**
  - Provide design documents in the format stipulated by the Facilities Manager and the Army.
  - Designs may consist of civil, mechanical and electrical drawings.
  - Drawings will be formatted for public bid and award according to Federal and State Regulatory requirements.
- **Task 4.5.2 Specialized Services**
  - Surveying services will be provided as part of the prescribed program.
  - Survey documents will tie to existing survey datum where available. If none is available, a certified bench mark will be established and included in the plans.
  - Geotechnical design services that may include water well drawdown testing/evaluation as well as that of existing soil conditions and their suitability for any particular design required.
  - Any other specialized services as may be required to provide an full service design of the project.
- **Task 4.5.3 Deliverable**
  - Project design drawings will be provided that will be suitable for bidding to contractors. Five (5) hard copies and one (1) digital copy will be provided to the Owner for their records.

### **Project Goal 4.6 – Preparation of Documents and Bidding/Award Services**

- **Task 4.6.1 Full Design Services**
  - Will consist of preparation and submittal of preliminary and final working drawings, specifications, design reports, operation and maintenance analysis, detailed cost estimates bidding and proposed construction schedules, survey materials, any geotechnical investigations to include 24-hour pump draw-down as well as any other required documentation, reports, or investigations as may be required by federal and state regulatory agencies.
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- **Task 4.6.2 Bid Phase Services**
  - Services will include:
  - Advertisement for bids to contractors

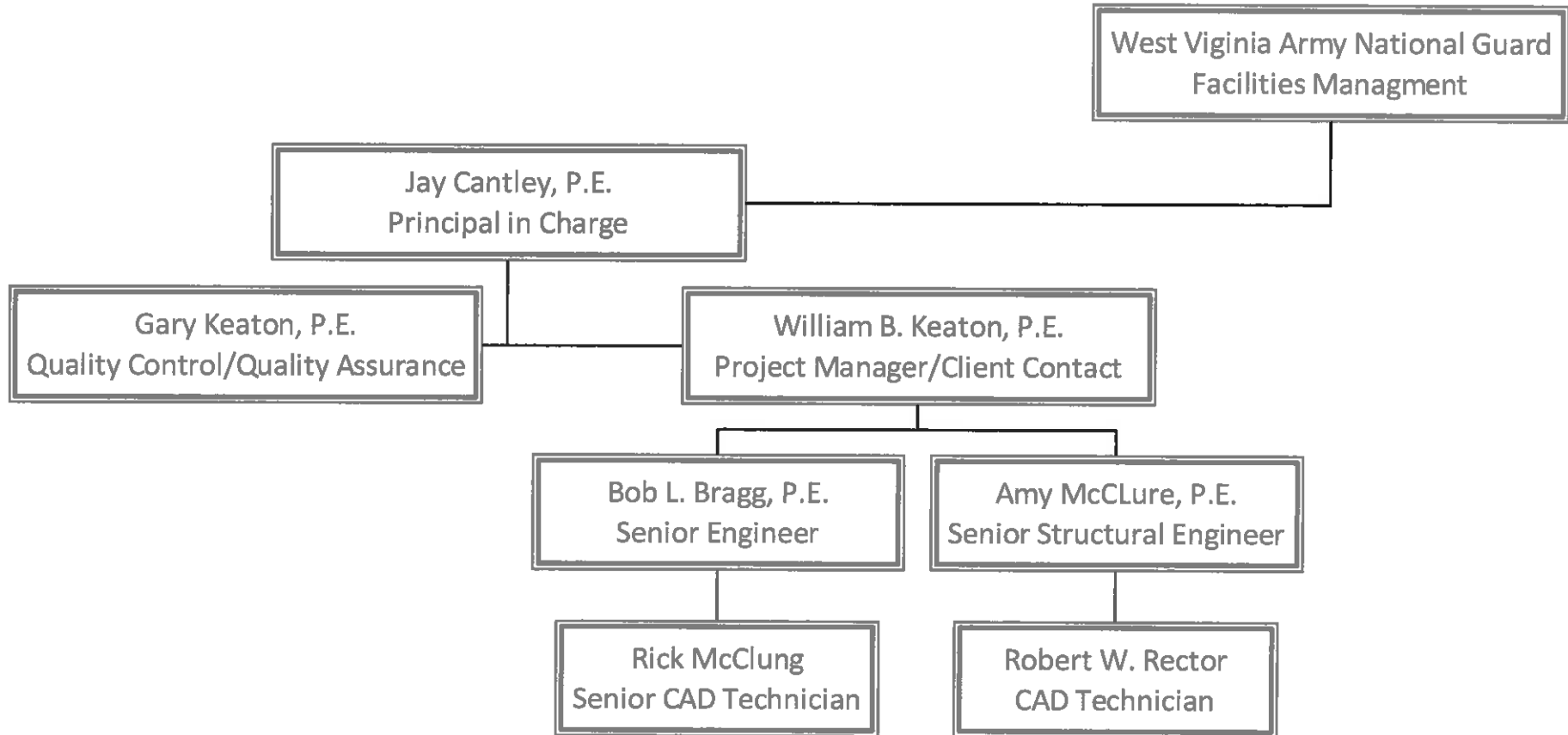
- Pre-Bid Conference
- Pre-Construction Conference
- Preparation of any addenda during the bidding phase
- Analysis and evaluation of construction bids
- Recommendation of award of bid after review of contractor credentials and submittals
- Preparation of a certified bid tabulation.
- Task 4.6.3 Deliverable
  - Bid Phase Documents including RFIs, Addenda, Certified bid tabulation and recommendation for award of contract.

#### **Project Goal 4.7 – Construction Phase Services**

- Task 4.7.1 Construction Phase Services
  - Evaluation/Approval of shop drawings/materials/samples submitted by the selected Contractor to determine the applicability to the design of the project.
  - Request for Information (RFI) and/or change order preparation generated for owners benefit
  - Evaluation of any change order requests by the Contractor
  - Preparation of As-Constructed drawings (as-builts) for the owners use and records
  - Scheduling and facilitating regular construction progress meetings
  - Preparing construction progress schedules and reports to Facility Manager/Army
  - Providing meeting minutes to Facility Manager/Army during construction
  - Preparation of final punch list upon obtaining 90% completion of project.
  - Any and all required certifications of the completion of the project
- Task 4.7.2 Deliverable
  - Construction documentation
  - As-Constructed Drawings
  - Project Certification Documentation



Redundant Water and Sewer Systems EOI Design  
Services  
For Joint Forces Headquarters – Coonskin and Camp  
Dawson  
CEOI ADJ1700000004





**Jerry (Jay) W. Cantley, Jr., P.E.,  
P.S.**

**Executive Vice President  
28 Years Experience**

**EDUCATION:**

West Virginia Institute of Technology, B.S. Civil  
Engineering, 1987

**REGISTRATION:**

Professional Engineer

West Virginia

Virginia

Professional Surveyor

West Virginia

**MEMBERSHIPS:**

Tau Beta Pi - Alpha Chi Chapter  
President Elect – ACEC WV  
West Virginians for Better Transportation

**SPECIALTIES:**

- Project Management
- Roadway Design and Plan Production
- Stormwater System Design
- R/W Plan Development
- Sediment & Erosion Control Design
- Project Quality Control
- Construction Coordination
- Surveying
- Water and Wastewater Design
- Contract Administration



**L.A. Gates Company**  
Engineers & Consultants

Jay has over 28 years of experience on a wide variety of civil engineering projects. His projects include work on transportation, water and sewer, site development and environmental projects. He has worked for L.A. Gates Company for the past 24 years starting as a design Engineer in 1991. Since 2005, Jay has been promoted to Executive Vice President and Chief Operating Officer and is the principal in charge of all Engineering Design. Jay oversees and manages all work done at L.A. Gates Company. In Jay's 28 years of experience he has managed over 60 roadway and bridge projects, 20 water and sewer projects and 50 civil/site projects. Jay's strongest skill set include; Project Management, Highway Design, and Stormwater Systems Design. Jay currently directs a staff of 38 engineers, technicians, inspectors and surveyors, who design and prepare plans for projects involving bridges, highways, and natural gas.

In recent years Jay has oversaw the design of some of Gates most notable Highway projects including 4 miles of the East Beckley Bypass and 5 miles of the Coalfields Expressway.

**REPRESENTATIVE PROJECTS:**

Highway

- *Allen Creek – Big Ridge (Coalfields Expressway), Raleigh County, WV*
- *East Beckley Bypass, Raleigh County, WV*
- *Slab Fork – Surveyor Creek (Coalfields Expressway), Raleigh County, WV*
- *Stollings-Logan Road, Logan County, WV*
- *White Sulphur Springs Interchange, Greenbrier County, WV*
- *Hurricane Creek Road + 1, Putnam County, WV*
- *Kanawha Street Improvements, Raleigh County, WV*

Bridges

- *State Fair Pedestrian Underpass, Greenbrier County, WV*
- *Henlawson Thru Truss Bridge, Logan County*
- *South Mineral Wells Interchange, Wood County, WV*
- *Bradshaw Bridge, McDowell County, WV*
- *Clear Fork Arch No. 1 Bridge, Wyoming County*
- *Pettry Bottom Bridge, Raleigh County, WV*
- *Huff Creek Bridge, Wyoming County, WV*
- *Pettry Bottom Bridge, Raleigh County, WV*
- *Bruno Bridge, Logan County, WV*
- *Grafton HS Arch Bridge, Taylor County, WV*
- *Main Street Bridget, Wetzel County, WV*
- *Greenbrier Avenue Bridge, Greenbrier County, WV*
- *Shepherd Bridge, Marshall County, WV*
- *Cranberry Creek Bridge, Raleigh County, WV*
- *Russellville Bridge Replacement, Greenbrier County, WV*
- *Airport Bridge Replacement, Greenbrier County, WV*
- *Muddy Creek Bridge Replacement, Greenbrier County, WV*

**Jerry (Jay) W. Cantley, Jr., P.E.,  
P.S.**

**Executive Vice President**

**28 Years Experience**

**- Continued -**

- *Stollings-Logan Road Bridges, Logan County, WV*
- *Clearfork Coatings Bridge, Wyoming County, WV*
- *Camden on Gauley Truss Bridge Replacement, Webster County, WV*
- *Switzer Monty Brothers Bridge Replacement, Logan County, WV*
- *Roach Truss Bridge Replacement, Cabell County, WV*
- *Stringtown Bridge, Hampshire County, WV*
- *Mill Road Bridge, Hardy County, WV*
- *Steinbeck Bridge Replacement, Roane County, WV*
- *Diana Bridge Replacement, Webster County, WV*
- *Little Hurricane Creek Bridge #1813, Putnam County, WV*
- *James Branch Bridge # 4003, Boone County, WV*
- *Cazy Bridge, #4404, Boone County, WV*
- *Rock Lick Bridge, Boone County, WV*

#### **Water and Sewer Design**

- *SSPSD Cool Ridge/Flat Top WWTP Improvements*
- *Water System Improvements for Pocahontas County High School, Pocahontas County, WV*
- *SSPSD Ward Park Sewer Line Improvements*
- *SSPSD Mont Phillips Road Extension*
- *SSPSD Lamplighter Road Extension*
- *SSPSD Sky Line Drive Extension*
- *Georgia Pacific OSB Plant Water and Sewer Line Extensions*
- *Treatment Plant for Twin Falls State Park, Wyoming County, WV*
- *Treatment Plant for Pipestem State Park, Mercer County, WV*
- *Treatment Plant and Collection System for Babcock State Park, Fayette County, WV*
- *Treatment Plant and Collection System for Watoga State Park, Pocahontas County, WV*
- *Treatment Plant and Collection System for Bluestone State Park, Summers County, WV*

#### **Site Development**

- *Somar Telecommunications, Raleigh County, WV*
- *CWV Residence Halls, Raleigh County, WV*
- *Springwood Subdivision Roanoke County, Virginia*
- *Limestone Woods Subdivision Greenbrier County, WV*
- *Anthony Woods Subdivision Greenbrier County, WV*
- *Tealwood Subdivision York County, South Carolina*



**L.A. Gates Company**  
**Engineers & Consultants**

**Gary Keaton, P.E.**  
**Vice President – Natural Gas**  
**22 Years Experience**

**EDUCATION:**

West Virginia Institute of Technology, B.S. Civil Engineering, 1993

**REGISTRATION:**

**Professional Engineer**

West Virginia  
Virginia  
Pennsylvania  
Kentucky  
Ohio  
Mississippi  
North Carolina  
New York  
Louisiana  
Tennessee

**MEMBERSHIPS:**

American Society of Civil Engineers  
Association for the Advancement of Cost Engineering  
American Concrete Institute  
West Virginian Oil & Natural Gas Association

**SPECIALTIES:**

- Project Management
- SPCC Plans
- Pipeline Integrity Management
- Pipeline Design
- Cost Estimating
- Construction Inspection
- Construction Coordination
- Environmental Permitting



As Vice President – Natural Gas, Gary is responsible for the overall management of natural gas projects for L.A. Gates Company. Gary has over 22 years of experience in the oil and gas, construction, highway, and environmental engineering industry.

Gary has extensive experience in the design, permitting, management, and monitoring of natural gas and highway construction projects. Gary is also an industry expert in the field of cost estimating and risk analysis, with over \$8 billion worth of capital cost estimating experience covering hundreds of projects from the Gulf of Mexico to the New England states, with an emphasis on natural gas. Gary has also engineered and designed numerous natural gas pipeline facilities.

Past experience includes the following positions: Field Engineer, Environmental Assurance Specialist, Construction Implementation Specialist, Chief Inspector, Cost Engineer, Civil Engineer, and Senior Mechanical Design Engineer.

**PAST PROJECTS:**

- Scope review, shop fabrication, and construction drawing review for (14) launcher/receiver integrity management projects for natural gas pipeline client.
- Spill Containment, Control, and Countermeasure (SPCC) plan development and Professional Engineer certification for natural gas transmission facilities.
- Detailed engineering design of (12) launcher/receiver integrity management projects for natural gas pipeline company. Included cost estimate, design, material procurement, and drawing reviews. Project costs ranged from \$900,000 to \$3,500,000.
- Detailed engineering design of (8) natural gas pipeline replacements ranging from 250ft to 16,000ft in length. Included cost estimate, design, material procurement, drawing reviews, and construction support. Project costs ranged from \$300,000 to \$7,500,000.
- Cost estimate for relocation of gas distribution pipeline in downtown Beckley, WV.

**Gary Keaton, P.E.**

**Vice President – Natural Gas**

**21 Years Experience**

**- Continued -**

- Detailed engineering design of (9) launcher/receiver integrity management projects for natural gas pipeline company. Included cost estimate, design, material procurement, and drawing reviews. Project costs ranged from \$750,000 to \$4,500,000.
- Detailed engineering design of (5) natural gas pipeline replacement projects ranging from 800ft to 6,000ft in length. Included cost estimate, design, material procurement, drawing reviews, and construction support. Project costs ranged from \$200,000 to \$4,000,000.
- Managed scope and cost estimating for 5-year Integrity Management Program for major natural gas pipeline.
- Developed (20) cost estimates for natural gas transmission pipelines and compression facilities ranging in size from \$200,000 to \$1,500,000,000.
- Detailed engineering design of (3) natural gas liquids tanks between 4000 and 8000 gallons in size. Included cost estimate, design, material procurement, and drawing reviews.
- Developed standard launcher/receiver designs for major natural gas transmission company. Included stakeholder meetings, detailed engineering, and drawing approvals.
- Developed cost estimate for over 1,800 natural gas pipelines, compressor stations, measurement, and other related facilities. Value of estimates totaled over \$7,000,000,000.
- Developed cost estimating standards for natural gas pipeline company.
- Developed design standards in launcher/receiver design.
- Developed design standards for cable tray and supports.
- Chief Inspector on (3) natural gas pipeline projects.
- Permitting coordinator on (6) natural gas pipeline and facility project.



**L.A. Gates Company**  
**Engineers & Consultants**

**William B. Keaton, P.E.**  
**Director – Municipal Services**  
**25 Years of Experience**

**EDUCATION:**

West Virginia Institute of Technology, B.A. 1986  
West Virginia Institute of Technology, B.S. Civil  
Engineering, 1993  
Webster University, M.A., Management, 1992

**REGISTRATION:**

Professional Engineer  
West Virginia  
Virginia  
North Carolina  
New York  
Tennessee

**MEMBERSHIPS:**

American Society of Civil Engineers  
WEF/AWWA  
NSPE  
American Society of Military Engineers

**SPECIALTIES:**

- Project Management
- Water Conveyance Systems/Pump Stations
- Wastewater Collection/Lift Stations
- Pipeline Rehabilitation
- Plan Review
- Site Utility Design
- Water Treatment
- Wastewater Treatment
- Funding Applications
- Water System Capacity Evaluations
- Sewer System Capacity Analysis
- SSES/CSO Evaluations
- Risk Assessment for Water Systems
- Risk Assessment for Wastewater Systems
- Stormwater Management/MS4
- Cost Estimating
- Construction Inspection
- Construction Coordination
- Environmental Permitting

As Director – Municipal Services, Bill is responsible for the overall management of municipal services projects for L.A. Gates Company. Bill has over 25 years of experience in the site development, parks, federal facility utilities/site design, water and wastewater treatment design, and capacity analysis of water and wastewater systems, permitting, and environmental engineering.

Bill has extensive experience in the design, permitting, management, and monitoring of site projects consisting of Stormwater management, waste water system conveyance and treatment and waste water conveyance and treatment. Bill has been responsible for such large projects as the potable, fire and process water system analysis of the Radford Army Ammunition Arsenal in Radford, VA. He was the project manager and lead engineer on several BRAC projects including the new Faith Center at Quantico, VA.

Past experience includes the following positions: Senior Engineer, Lead Construction Engineer, Section Leader, Director and Vice President.

**PAST PROJECTS:**

- Project manager, lead engineer for Radford Army Arsenal potable, fire and process water system inventory and analysis. The project involved the inventory and of over 100 miles of varying size water lines, eleven water storage tanks, booster stations. The project determined the useful live and replacement cost estimates for the entire facility.
- Project Manager/Lead Engineer for the firing range improvements at Camp Dawson, Kingwood, WV.
- Project Manager/Lead Engineer for the new Faith Facility on Quantico, VA.
- Project Engineer for the site development for the Tamarac Arts Facility in Beckley, WV.
- Lead Engineer for the site designs and utilities for fourteen (14) cabins and the lodge at the Stonewall Jackson State Park, Lewis County, WV
- Project Manager/Lead Engineer for twelve wastewater treatment systems in Summit County, OH.



**William B. Keaton, P.E.**  
**Director – Municipal Services**  
**25 Years of Experience**  
*- Continued -*

- Lead Engineer on the Cabell County, WV Project 2000 water report that inventoried all water systems in Putnam County, WV and made recommendations on how to provide potable water to all of Putnam County, WV
- Project Manager/Lead Engineer on the Town of Buffalo, WV Regional Wastewater Treatment Plant that serves the Toyota Motors Manufacturing Company
- Project Manager for the Kanawha County, WV Water systems projects totaling \$12,000,000 in construction over a three year period.
- Project Manager for the Putnam County, WV Water systems projects totaling \$9,800,000 in construction over a two year period. Project included a 300,000 gallon elevated water tank and two booster stations.
- Project Manager for the Cabell County, WV Water systems projects totaling \$8,250,000 in construction over a three year period.
- Project Manager for a \$12.4 million upgrade to the East Greenbush, NY wastewater treatment plant.
- Project Manager for the Decommissioning of the Goshen Correctional Facility water and wastewater treatment plants and the design of connective systems to Orange County, NY.
- Assistant Project Manager for the \$20 million wastewater treatment plant upgrade to the City of Charleston's Wastewater Treatment Plant.
- Project Manager for the City of Salem, WV raw water impoundment improvements project that included a new spillway and intake structure.
- Project Manager for East Pointe Business Park, Clarksburg, WV site development included building pads, entrance roads and utilities.
- Design of the replacement for the Dunlow Truss Bridge in Randolph County, WV. Work included hydraulics, structural design, approach roadways, and permitting for a 180' structure.
- US460/I77 bridge replacement consisting of a new four lane bridge over I-77 in Mercer County, WV. Work effort also included relocation of water and sanitary sewer, water, and storm water lines. Project included a 1.2 mile access road.



**Bob L. Bragg, P.E.**  
**Project Manager – Municipal Services**  
**24 Years of Experience**

**EDUCATION:**

BS, Civil Engineering,  
WV Institute of Technology, 1992  
B.S. Electronic Engineering Technology, 1983  
A.S. Electrical Engineering Technology, 1980

**REGISTRATION:**

Professional Engineer  
West Virginia  
Pennsylvania  
Ohio  
Virginia

**MEMBERSHIPS:**

Project Manager Institute (PMI)  
WEF/AWWA  
American Society of Cost Engineers

**SPECIALTIES:**

- Project Management
- Water Conveyance Systems/Pump Stations
- Wastewater Collection/Lift Stations
- Pipeline Rehabilitation
- Plan Review
- Site Utility Design
- Water Treatment
- Wastewater Treatment
- SSES/CSO Evaluations
- Risk Assessment for Water Systems
- Risk Assessment for Wastewater Systems
- Stormwater Management/MS4
- Cost Estimating
- Construction Inspection
- Construction Coordination



As Project Manager – Municipal Services, Bob is responsible for the management of municipal services projects for L.A. Gates Company. Bob has over 24 years of experience in the water and sewer planning, water and sanitary sewer conveyance systems, water and wastewater treatment design, and capacity analysis of water and wastewater systems, permitting, and construction management.

Bob has extensive experience in the design, permitting, management, and monitoring of wastewater system conveyance and treatment and waste water conveyance and treatment. Bob has master planning experience for Raleigh County, WV, Grant County, WV and Cabell County, WV. He has been the project manager or lead engineer on varied projects throughout his twenty year career.

Past experience includes the following positions: Senior Engineer, Senior Project Manager and Lead Construction Engineer.

**PAST PROJECTS:**

- Project Manager/Engineer responsible for the preparation of the master plan report for Raleigh County, WV which was used to document areas currently served by municipal water and sewer service and to identify areas of potential expansion. Also responsible for the collection of all field data, interviews, map preparation and presentation of the final product to the client and funding agencies.
- Project Manager/Engineer responsible for the preparation of the master plan report for Grant County, WV which was used to document areas currently served by municipal water and sewer service and to identify areas of potential expansion. Also managed and directed the collection of all field data, interviews, map preparation and presentation of final product to the client and funding agencies.
- Project Manager/Engineer responsible for all initial funding applications and engineering reports for the West Virginia Infrastructure and Jobs Development Council, the DEP Abandoned Mine Lands Division, and the USDA Rural Utility Service for Craigsville Public Service District. Prepared design plans and specifications,

contract documents, permitting, and managed contractor bid solicitation. Also responsible for the coordination with contractors, project administrators, and the Craigsville County Public Service District. This project was funded with an AML grant and loan from the USDA Rural Utility Service and consisted of approximately nine miles of various diameter pipelines, a booster station and a 77,000 gallon water storage tank to serve approximately 90 customers in Nicholas County.

- Project Manager/Engineer for the Leadsville Public Service District for 4.5 miles of water line, a booster station, and a bladder tank system in Randolph County. Responsibilities included initial waterline layout and design, preparation of specifications, contract documents, and design report. Attended client board meetings, Public Service Commission hearings. Delegated permit approvals and existing utility info to subordinates.
- Project Manager/Engineer responsible for the West Virginia Infrastructure and Jobs Council application, coordinating HUD environmental review, assisted in the preparation of engineering reports, design plans, specifications, and contract documents, all permits and funding agency approvals for the 750 gallon per minute water treatment plant located in Wyoming County. The project also included a one mile dedicated 10-inch water and 300,000 gallon water storage tank to allow the Town to maintain their existing pressure gradient. Assisted in contractor bid solicitation and construction management as well as all post construction services.



**Amelia McClure, P.E.**  
**Structural Engineer**  
**17 Years Experience**

**EDUCATION:**

West Virginia Institute of Technology, B.S. Civil Engineering, 1998

Marshall University Graduate College, M.S. Engineering, 2002

**REGISTRATION:**

Professional Engineer

West Virginia [REDACTED]

Virginia [REDACTED]

**MEMBERSHIPS:**

West Virginians for Better Transportation  
Greater Greenbrier Chamber of Commerce  
Tau Beta Pi

**SPECIALTIES:**

- Final bridge design
- Bridge hydraulics & hydraulics for flood analysis
- Permitting necessary for bridges (causeway, cofferdam, and temporary bridge hydraulic analysis)
- Temporary Shoring and Bracing Plans
- Bridge Demolition and Erection plans
- Microstation & HEC-RAS

Amelia is an experienced Structural Engineer having worked on various bridge projects in the private sector as well as at the West Virginia Department of Transportation where she worked as Bridge Design Engineer for District Nine in Lewisburg, WV. Amelia is experienced in plan review, bridge hydraulics, abutment design, foundation design, pile design, retaining wall design and steel beam design. Amelia is experienced in various aspects of bridge construction engineering such as temporary shoring, bracing, decking, demolition and erection plans. She is proficient with Microstation CAD software, HEC-RAS hydraulic analysis software, GawacWin gabion retaining walls design software, GRLWEAP pile driving analysis software, Microsoft Word and Microsoft Excel.

**REPRESENTATIVE PROJECTS:**

Bridges

- *Big Rock Bridge, Mingo County*
- *Kirk Bridge, Mingo County*
- *Teter Creek Slab Bridge, Barbour County*
- *Camp 29 Bridge, Nicholas County, WV-Erection Plan and Decking Plan*
- *Carters Creek Bridge, Nicholas County, WV-Demolition Plan and Temporary Bridge Plan*
- *Chesapeake Bridge, Kanawha County, WV-Decking Plan*
- *Dunloup Bridge #7, Fayette County, WV-Abutment Redesign, Demolition Plan and Erection Plan*
- *East Kingston Arch, Fayette County, WV-Demolition Plan and Erection Plan*
- *Ethel Slab Bridge, Logan County, WV-Decking Plan, Erection Plan, and Temporary Bracing Plan*
- *Fields Creek Bridge, Kanawha County, WV-Temporary Bridge Plan, and Demolition Plan*
- *First Slab Bridge, Randolph County, WV-Demolition Plan, Erection Plan, and Temporary Bracing Plan*
- *Five Mile Road Bridge, Kanawha County, WV- Demolition Plan, and Temporary Bridge Plan*
- *Granny Creek Bridge, Roane County, WV-Demolition Plan, and Erection Plan*
- *Grassy Creek Bridge, Webster County, WV-Temporary Bridge Plan, and Demolition Plan*
- *Gum Bridge, Randolph County, WV-Temporary Bridge Plan*
- *Hampton Truss, Upshur County, WV-Cofferdam Design, Demolition Plan, Erection Plan, and Temporary Bracing Plan*
- *Hemlock Bridge, Jackson County, WV- Demolition Plan and Erection Plan*
- *Huff Creek Bridge, Wyoming County, WV-Demolition Plan, and Temporary Bridge Plan*
- *Lochgelly Road Interchange Bridge, Fayette County, WV-Erection Plan*
- *Little Grassy Creek Bridge, Webster County, WV-Temporary*



**Amelia McClure, P.E.**  
**Structural Engineer**  
**17 Years Experience**

**-Continued-**

***Bridge Plan, and Demolition Plan***

- ***Little Sandy Arch, Preston County, WV -Temporary Shoring Plan***
- ***Peachtree Girder Bridge, Raleigh County, WV-Temporary Bridge Plan, Demolition Plan, and Erection Plan***
- ***Petty Bottom Bridge, Raleigh County, WV-Demolition Plan***
- ***Reader Creek Bridge, Wetzel County, WV-Decking Plan, Wave Equation Analysis, Erection Plan, and Demolition Plan***
- ***Rolfe Arch, Marion County, WV-Demolition Plan***
- ***Rosebud Bridge, Harrison County, WV-Temporary Bridge Plan, Demolition Plan***
- ***Scott Slab Bridge, Harrison County, WV-Temporary Bracing Plan, Decking Plan, and Erection Plan***
- ***Ward Bridge, Kanawha County, WV-Temporary Bridge Plan***
- ***Winifrede Railroad Overpass, Kanawha County, WV-Demolition Plan, Erection Plan, Temporary Bracing Plan, and Temporary Shoring Plan***
- ***Walnut Hill Bridge Replacement, Greenbrier County, WV-Permits, Design and Plans for Construction***
- ***Canterbury Road Bridge Replacement, Fayette County, WV-Permits, Design and Plans for Construction***
- ***Rock Camp Run Bridge Replacement, Nicolas County, WV-Permits, Design and Plans for Construction***
- ***Sawbones Bridge Replacement, Monroe County, WV-Permits, Design and Plans for Construction***
- ***Canvas Bridge Deck Repair, Nicolas County, WV- Design and Plans for Construction***
- ***Harts Run Bridge Deck Repair, Greenbrier County, WV-Design and Plans for Construction***

**Civil/Site**

- ***Greenbrier Summit Village Subdivision Plan Review, Greenbrier County, WV***
- ***Stoney Glen Subdivision Plan Review, Greenbrier County, WV***
- ***Dawson Lake Subdivision Plan Review, Greenbrier County, WV***
- ***River Cliffs Subdivision Plan Review, Greenbrier County, WV***



**L.A. Gates Company**  
**Engineers & Consultants**

**Robert W. Rector**  
**Cad Technician**  
**27 Years Experience**

**EDUCATION:**

Woodrow Wilson High School - Graduated 1986; completed a two-year course in drafting at Raleigh County Vocational School in Beckley, WV.

West Virginia Institute of Technology - Graduated 1988; completed a two-year AS degree in Drafting & Design Engineering Technology.

**SPECIALTIES:**

- Proficient Cad Technician
- Develop construction documents for the various disciplines including: Roadway, Bridge, Sewer, & Water,
- Architectural/Structural and Site Development
- Quantities and calculations for Structural projects

Robert's background consists of a wide range of experience in the development of construction documents, both board and CADD practices. With 24 years with Gates, Robert's responsibilities consist of drafting and coordinating with the various disciplines such as civil, architectural and structural projects. His duties also include the production of plans for bridge and roadway projects including calculations and quantity estimates.

**REPRESENTATIVE PROJECTS:**

Highway

- *Coalfields Expressway, Raleigh County, WV*
- *East Beckley Bypass, Raleigh County, WV*
- *Stollings - Logan Road, Logan County, WV*
- *WV Route 10, Man to Logan, Logan County, WV*
- *Sutton-Webster Springs Road, Braxton and Webster Counties, WV*

Bridges

- *Big Rock Bridge, Mingo County*
- *Kirk Bridge, Mingo County*
- *Teter Creek Slab Bridge, Barbour County*
- *State Fair Pedestrian Underpass, Greenbrier County, WV*
- *Pleasant Dale Bridge, Hampshire County, WV*
- *Henlawson Bridge, Logan County, WV*
- *Pettry Bottom Bridge, Raleigh County, WV*
- *Huff Creek Bridge, Wyoming County, WV*
- *South Mineral Wells Interchange, Wood County, WV*
- *Bradshaw Bridge, McDowell County, WV*
- *Bruno Bridge, Logan County, WV*
- *Main Street Bridge, Wetzel County, WV*
- *Shepherd Bridge, Marshall County, WV*
- *Grafton High School Arch Bridge, Taylor County, WV*
- *US 220 Ramp Connector Bridge, Hardy County, WV*
- *Greenbrier Avenue Bridge, Greenbrier County, WV*
- *Russellville Bridge, Greenbrier County, WV*
- *Cranberry Creek Bridge, Raleigh County, WV*
- *Switzer Monty Brothers Bridge, Logan County, WV*
- *Guyandotte River Bridge, Logan County, WV*
- *WV Route 17 Connector Bridge No. 4, Logan County, WV*
- *Muddy Creek Bridge, Greenbrier County, WV*
- *Camden on Gauley Bridge Replacement, Webster County, WV*
- *Steinbeck Bridge Replacement, Roane County, WV*
- *Roach Truss Bridge Replacement, Cabell County, WV*
- *Kenna I/C Bridge #2179, Jackson County, WV*
- *Grass Lick Creek, Bridge #2199, Jackson County, WV*
- *Grass Lick Road, Bridge #2198, Jackson County, WV*
- *Rock Lick Bridge, Boone County, WV*
- *James Branch Bridge, Boone County, WV*
- *Cazy Bridge, Boone County, WV*
- *B&O Railroad Underpass Bridge, Barbour County, WV*



## **Robert W. Rector**

**Cad Technician**

**27 Years Experience**

**- Continued -**

- *Boulder Truss Bridge, Barbour County, WV*

### **Architectural**

- *Beckley State Police and DMV Building, Beckley, WV*
- *Raleigh County Junior High School, Beckley, WV*
- *New River Birthing Center, Scarbro, WV*
- *Clarksburg Center of Fairmont State College, Clarksburg, WV*
- *College of West Virginia Library, Beckley, WV*
- *College of West Virginia building additions, Beckley, WV*
- *Pinecrest Multi-purpose Building, Beckley, WV*
- *Clarksburg Federal Building, Clarksburg, WV*
- *Hospice House of Southern WV, Beckley, WV*

### **Water and Sewer**

- *Wastewater Treatment Plants for Watoga, Bluestone, Babcock, Twin Falls, and Pipestem State Parks.*
- *Cool Ridge/Flat Top Wastewater Collection & Disposal Project*
- *Airport Road/The Oaks Sanitary Sewer Extension Project*
- *Pluto Road Sanitary Sewer Extension Project*
- *Jolo/Paynesville Water System Extension*
- *Little Beaver Interceptor Sewer Pump Station & Force Main Project*

### **Site Development**

- *Petersburg Main Post Office - Site and utility design*
- *Clarksburg GSA Federal Building - Site design*
- *Raleigh County Public Library - Site development for new parking area*
- *Princeton Main Post Office - Site and utility design*
- *Beckley State Police and DMV Building - Site and utility design*



**L.A. Gates Company**  
Engineers & Consultants

**Redundant Water and Sewer Systems EOI Design Services**  
**For Joint Forces Headquarters – Coonskin and Camp Dawson**

**Date Submitted: August 31, 2016**

**CEOI ADJ1700000004**

**National Park Service – Water and Sewer System**

**Cool Ridge – Flat Top Sewer Project**

**Danese Water System**

**Raleigh County Public Service District - Drews Creek Water System**

**Glade Springs Wastewater Treatment Plant**

**McDowell County Public Service District – Sewer Extension Project**

**Shady Spring Public Service District – Little Beaver State Park Interceptor**

**Athens, WV Sewer Study**

**Burnsville Public Service District Sanitary Sewer Improvements Project**

**Logan County Public Service District Sanitary Sewer Project**

**ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.:**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

*(Check the box next to each addendum received)*

- |                                                    |                                          |
|----------------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

L.A. Gates Company

Company

*William B. Kuter*

Authorized Signature

August 31, 2016

Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

William B. Keaton Director Municipal Services  
 (Name, Title)  
 William B. Keaton, P.E., Director Municipal Services  
 (Printed Name and Title)  
 2302 South Fayette Street, Beckley, WV 25801  
 (Address)  
 304-256-1640/304-256-1617  
 (Phone Number) / (Fax Number)  
 wkeaton@lagates.com  
 (email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

L.A. Gates Company  
 (Company)  
William B. Keaton Director Municipal Services  
 (Authorized Signature) (Representative Name, Title)

William B. Keaton, P.E., Director Municipal Services  
 (Printed Name and Title of Authorized Representative)

August 31, 2016  
 (Date)

304-256-1640/304-256-1617  
 (Phone Number) (Fax Number)

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

**MANDATE:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: L.A. Gates Company

Authorized Signature: *William B. Kurt* Date: 9/30/16

State of West Virginia

County of Raleigh, to-wit:

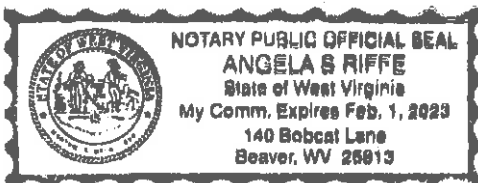
Taken, subscribed, and sworn to before me this 30 day of August, 2016.

My Commission expires February 1, 2023.

**AFFIX SEAL HERE**

**NOTARY PUBLIC**

*Angela S Riffe*  
Purchasing Affidavit (Revised 08/01/2015)





## Redundant Water and Sewer Systems EOI Design Services for Joint Services Headquarters - Coonskin and Camp Dawson CEOI ADJ170000004

ID	Task Name	Duration	Start	Finish	Predecessors	October	November	December	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March
						B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E
1	<b>Project Kickoff Meeting</b>	1 day	Mon 10/3/16	Mon 10/3/16																			
2	<b>1.0 Preliminary Engineering</b>	22 days	Tue 10/4/16	Wed 11/2/16																			
3	Prepare PER for Alternatives	15 days	Tue 10/4/16	Mon 10/24/16	1																		
4	Prepare Alternates cost analysis	5 days	Tue 10/25/16	Mon 10/31/16	3																		
5	Review with USARNG Facilities Manager	2 days	Tue 11/1/16	Wed 11/2/16	4																		
6	<b>2.0 Survey Services</b>	10 days	Tue 10/4/16	Mon 10/17/16																			
7	Topographic Survey	10 days	Tue 10/4/16	Mon 10/17/16	1																		
8	Survey Complete	0 days	Mon 10/17/16	Mon 10/17/16	7																		
9	<b>3.0 Geotechnical Services (If Required)</b>	5 days	Tue 10/18/16	Mon 10/24/16																			
10	Potential Site Borings	5 days	Tue 10/18/16	Mon 10/24/16	8																		
11	Prepare Geotechnical Report	5 days	Tue 10/18/16	Mon 10/24/16	8																		
12	<b>4.0 Permitting</b>	36 days	Thu 12/15/16	Thu 2/2/17	11																		
13	Preparation and Submission of Permit Documents	1 day	Thu 12/15/16	Thu 12/15/16	11																		
14	BPH/DEP Review of Permits	20 days	Fri 12/16/16	Thu 1/12/17	13																		
15	Issuance of Permits	15 days	Fri 1/13/17	Thu 2/2/17	14																		
16	<b>5.0 Technical Documents</b>	70 days	Fri 2/3/17	Thu 5/11/17																			
17	Completion of Drawings	30 days	Fri 2/3/17	Thu 3/16/17	15																		
18	Completions of Specifications	30 days	Fri 3/17/17	Thu 4/27/17	17																		
19	USARNG Facilities Manager Review of Documents	5 days	Fri 4/28/17	Thu 5/4/17	17, 18																		
20	USARNG Facilities Manager Approves Documents	5 days	Fri 5/5/17	Thu 5/11/17	19																		
21	<b>6.0 Opinions of Construction Cost</b>	15 days	Fri 5/5/17	Thu 5/25/17																			
22	50% Design Completion Cost Estimate	5 days	Fri 5/12/17	Thu 5/18/17	20																		
23	USARNG Facilities Manager Review of 50% Cost Estimate	3 days	Fri 5/19/17	Tue 5/23/17	22																		
24	90% Design Completion Cost Estimate	5 days	Fri 5/5/17	Thu 5/11/17	19																		
25	USARNG Facilities Manager Review of 90% Cost Estimate	10 days	Fri 5/12/17	Thu 5/25/17	24																		
26	Final Approval By USARNG Facilities Manager	1 day	Fri 5/12/17	Fri 5/12/17	20																		
27	<b>7.0 Bidding Phase</b>	54 days	Mon 5/15/17	Thu 7/27/17																			
28	Submit Bid Advertisement for Publication	7 days	Mon 5/15/17	Tue 5/23/17	26																		
29	Bid Construction Project	30 days	Wed 5/24/17	Tue 7/4/17	28																		
30	Receive Bids	0 days	Tue 7/4/17	Tue 7/4/17	29																		
31	Evaluate Bids Received	3 days	Wed 7/5/17	Fri 7/7/17	30																		
32	Prepare Resolution	2 days	Mon 7/10/17	Tue 7/11/17	31																		
33	Construction Contract Award	0 days	Tue 7/11/17	Tue 7/11/17	32																		
34	Construction Contract in Place	12 days	Wed 7/12/17	Thu 7/27/17	33																		
35	Start Construction	0 days	Thu 7/27/17	Thu 7/27/17	34																		
36	<b>8.0 Construction</b>	145 days	Fri 7/28/17	Thu 2/15/18																			
37	Submittal Review/Response to RFIs	10 days	Fri 7/28/17	Thu 8/10/17	34																		
38	Preconstruction Meeting	1 day	Fri 7/28/17	Fri 7/28/17	34																		
39	Project Construction	120 days	Fri 7/28/17	Thu 1/11/18	35																		
40	Completion of Construction (Punchlist)	15 days	Fri 1/12/18	Thu 2/1/18	39																		
41	Construction Contract Closeout	10 days	Fri 2/2/18	Thu 2/15/18	40																		

Task		External Tasks		Inactive Summary		Start-only		Deadline	
Split		External Milestone		Manual Task		Finish-only			
Milestone		Inactive Task		Duration-only		External Tasks			
Summary		Inactive Milestone		Manual Summary Rollup		External Milestone			
Project Summary		Inactive Milestone		Manual Summary		Progress			

