

REQUEST FOR QUALIFICATIONS

Engineering Services for Various Projects and On Call Services

Municipal Association of South Carolina



October 17, 2022

Attention: Jake Broom, Chief Operating Officer
Municipal Association of South Carolina
1411 Gervais Street, Suite 100
Columbia, SC 29201

RE: Engineering Services for Various Projects and On Call Services

Dear Selection Committee:

AECOM Technical Services, Inc. (AECOM) is pleased to submit our qualifications to provide Engineering Services for Various Projects and On Call Services to the Municipal Association of South Carolina (the "Association"). We believe that our qualifications and proposed project team offer the Association a successful combination of technical expertise, similar project experience and unmatched service to municipal clients in South Carolina.

The reasons for selecting the AECOM team include the following:

✓ Unmatched South Carolina Experience

AECOM has been assisting South Carolina municipalities with their engineering needs for over 100 years, completing thousands of water, wastewater, and stormwater projects. We have served and continue to serve municipalities as their "on call engineer", acting as an extension of their staff, helping them solve both simple and complex engineering challenges from water capacity and quality to more efficient wastewater collection to stormwater flood mitigation. Our offices in Columbia, Charleston, Greenville, and Florence allow us to quickly and efficiently serve our clients and provide us with an intimate knowledge of each geographic area and their unique infrastructure systems.

✓ Large Firm Resources, Small Firm Feel

AECOM has an engineering presence all over the world, allowing us to tap into unlimited technical resources. However, our South Carolina offices operate with the same "small town feel" we have had since our legacy company BP Barber and Associates, began work in 1916. Most of our staff have been working in South Carolina for a long time, designing water and sewer mains, distribution/collection lines, pumping stations and utility relocations for numerous clients. South Carolina is "home" and we have a vested interest in making the quality of life the best it can be for all state residents.

✓ Grant Funding Expertise

Our team has experience assisting municipalities in obtaining grant funding and successfully managing their grants. We are well versed in the various funding sources in South Carolina, from the RIA SCIIP program to CDBG, SRF, EDA and more. Our team works seamlessly with municipalities to document project performance, including updated schedules, weekly and monthly reports, Davis Bacon wage decisions, and grant closeouts.

We invite you to review the impressive list of public sector clients in South Carolina whom AECOM is currently providing engineering services on an "on call" and "as needed" basis, as well as the selected project descriptions we have provided. We appreciate this opportunity to offer our qualifications for your evaluation. If you have any questions or need additional information, please contact us at the information below.

Respectfully submitted,

AECOM Technical Services, Inc.

Porter Rivers, III, PE
Associate Vice President
803.463.2194 | porter.rivers@aecom.com



Kevin Krick, PE
Program Manager
803.422.2223 | kevin.krick@aecom.com

Section 1

Technical Approach/ Understanding



1. Technical Approach/Understanding



AECOM understands that the South Carolina Rural Infrastructure Authority (RIA) has developed the South

Carolina Infrastructure Investment Program (SCIIP) as a way to deliver needed funding to local municipalities for water, wastewater, and stormwater infrastructure improvements. The Municipal Association of South Carolina (MASC) has requested this Statement of Qualifications so that they may assist municipalities in the state select qualified engineering firms. Not knowing exactly what projects each municipality will receive grant funding for, AECOM has developed this Technical Approach similar to that of an Indefinite Delivery Contract or an "On Call Engineering" contract.

On Call Engineering Program Approach

As engineers and planners, we are by nature problem solvers – it's that simple. We are constantly developing innovative ways to meet project deadlines, manage our client's allocated budgets, stay abreast of technological advancements, meet the ever-changing requirements of regulatory agencies, and satisfy clients' unique needs, all while performing advanced planning and engineering solutions on challenging project sites. Our methods can't fit into a one-size-fits-all box, but we have developed an efficient approach to managing our projects to help develop and improve our communities. Our experience working with South Carolina municipalities for over 100 years allows us to create an On Call Engineering approach to effectively assist towns and cities in the State with the successful implementation of their SCIIP projects.

Kick-Off and Planning

Once a municipality requests our services, we will begin with a scoping meeting, at the municipality's office or project site, to better understand their needs and objectives, and to review the area to be considered for the project.

This allows our managers and engineers the opportunity to note site-specific issues and other relevant conditions that may play a role in the project's success. From here, we'll utilize available aerial mapping and other online resources to move forward with concept-level sketch plans and conceptual cost estimates, if needed. These will be completed to a level that will assist the municipality in identifying budgetary limits and estimating project completion dates. Next, we'll identify the necessary permits and approvals that will be associated with the project, identify the total amount of planning and design effort needed, and advise the municipality of any third-party information that will be required. All of this will be included in a detailed, project-specific proposal summarizing our consulting services to implement the project to the municipality's satisfaction.

Basis of Design

Once the municipality agrees to a scope of work and compensation, we'll move forward with our Basis of Design phase. Our AECOM team understands the importance of efficiently starting the project with a well-thought-out basis of design. This begins with a detailed investigation of the project area, including topographic and boundary surveys and additional data-gathering exercises that may be necessary. We will work with local utility providers to ensure we have a better understanding of the existing water, wastewater, stormwater, natural gas, electric, and telecommunications systems in the project area that may impact the project.

Preliminary and Final Design

Our project team will work together to develop preliminary design plans necessary to solve the challenges of the project. These plans will be based on detailed surveys and engineering calculations to ensure the design works successfully. Our team uses sophisticated modeling software to determine hydrologic and hydraulic calculations for stormwater systems, pressures and flows in water distribution systems, and cycle times and capacities for wastewater pump stations.



As the design progresses, we'll hold meetings with the municipality at various milestones throughout the project to review our progress, keep you informed of any site-specific challenges, note changes in the scope or project approach, obtain your feedback and input, and review updated construction cost estimates for the project. Once the design is complete, our team will finalize construction plans and develop a specification manual describing the technical requirements of the project and contract documents required for bidding.



Permitting

AECOM will prepare the necessary permit application packages (including application forms, maps, narratives, and calculations) and submit them to the appropriate agencies for review and approval. We have worked with these agencies for many years, including SCDHEC, SCDOT, USACE and others. Through the permitting process, we'll keep the municipality aware of any comments and additional requirements of the regulatory agencies to approve the project. We'll work with those agencies on a daily basis, as needed, to act on the municipality's behalf through project approval.

Bidding and Award

The projects identified in the SCIP Program will be funded using Federal dollars. It is extremely important that a qualified contractor be selected fairly following Federal, State, and local procurement guidelines. Our team will work together to publicly advertise the project for construction bids, host or attend an on-site pre-bid meeting, answer questions from prospective bidders in addendums and hold a public bid opening.

Once all of the bids are received, we will review them to ensure appropriate insurance requirements are met, bonds are received, tabulate the bids, and certify that the process was fair and in accordance with the procurement guidelines. We will then make a recommendation to award the construction contract.

Construction Administration & Observation

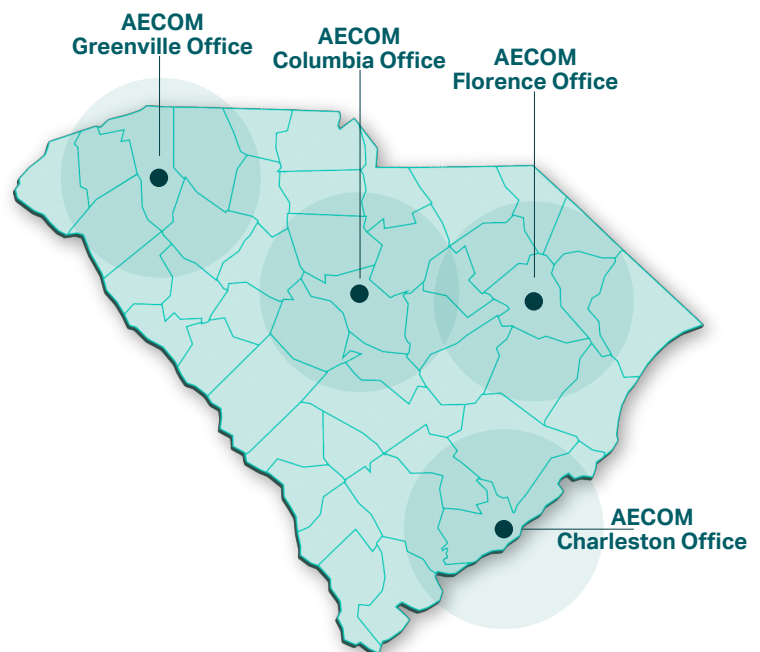
The successful construction of a project depends on many factors, including the quality of the work, cooperation with the selected contractor, favorable scheduling, and clear and concise plans and specifications. To start the construction process on the right foot, we will host a pre-construction meeting with the municipality, contractor, and utility providers to ensure that everyone understands the communication chain of command, schedule, and overall expectations. As construction progresses, we will provide construction administration services, including coordination with the contractor, regular progress meetings, review of material shop drawings, review of pay estimates and change orders, and verification of funding requirements.

We will also provide construction observation throughout the project to ensure that the contractor installs the water, wastewater, or stormwater system with quality materials and labor. As necessary, we will prepare observation reports documenting the construction, including photographs and measurements. Finally, at the completion of construction, we will work with the contractor to develop as-built plans illustrating the final built conditions of the project.

At the end of the project, we'll meet with the municipality to review the project goals and objectives and receive feedback on our performance to allow us to improve our services to you continually.

Location, Location, Location!

AECOM's strategic office locations throughout the state allow our team to be responsive and involved in all aspects of the water, wastewater, and stormwater projects included in the SCIP Program. Our offices in Columbia, Greenville, Charleston, and Florence all have project managers, engineers, and other specialists that can better serve municipalities not only in the success of the project but also in keeping travel time and expense low.



Section 2

Work Management Plan/Experience of Proposed Personnel



2. Work Management Plan/Experience of Proposed Personnel

Unmatched Resources

What makes our team stand out from other firms is our staff. We have specifically structured our team to address each technical area outlined in the RFQ, as well as addressed the ability to manage multiple projects. We have the technical resources and experts to deliver multiple projects simultaneously while also exceeding client expectations.

Understanding Team Roles

We offer the state's 271 incorporated municipalities represented and served by the Association a team that has experience working together, which means our team understands and is aware of the expectations, roles and responsibilities of each member.



Kevin Krick, PE, LEED AP
Program Manager

- Primary point of contact
- Responsive
- Clear and consistent communication

Leadership counts, especially for a contract like this one, nothing is more important than trusting your project team and the key leadership. Our team will be led by Kevin Krick, PE, LEED AP, as Program Manager. The AECOM team has extensive experience working together to provide consulting services on an on call basis to public sector clients in South Carolina. With Kevin leading the team, he will help solve any project issues that arise and will be supported by national experts to deliver a product that is on time, on budget and exceeds expectations.

Kevin will be the primary point of contact and is responsible for project administration, cost, schedule and quality monitoring. Kevin will coordinate communication with the Association, external stakeholders, and internal team members to ensure that any possible issues are adequately addressed.

Program Management Approach

As Program Manager, Kevin will lead and manage our team to meet your goals, quality expectations, schedule and budget. Open and constant communication and collaboration are at the forefront to help drive project success. AECOM has a proprietary project management and quality dashboard system that is required for each project we execute. For every task order, AECOM develops Project Management Plans (PMPs) to establish and communicate the project goals at the inception of the work. PMPs are intended to be living documents that are developed with input and feedback from the entire project team and utilized and updated throughout the project's life.



100+

Years working in the state of South Carolina through our legacy companies.



200+

South Carolina Employees



4

AECOM Offices in South Carolina



651

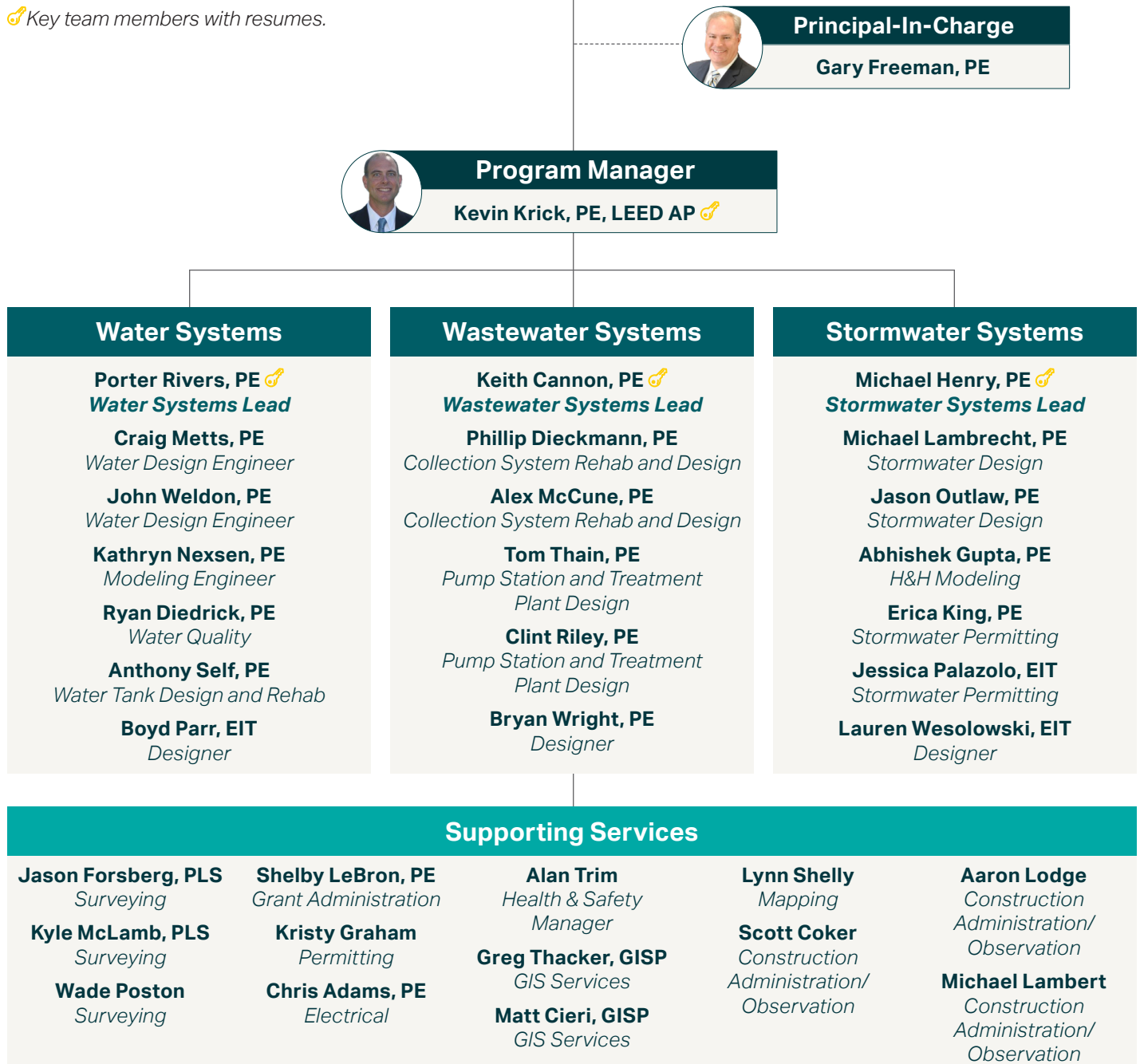
AECOM Offices Worldwide

Organization Chart

We have organized our team to match the scope of work areas. Each specialty area has highly experienced leaders. Supporting them is our team of professionals who bring local and global expertise in their respective fields. Our team members are respected across the industry for their specialized knowledge in planning, design and construction management services.



 Key team members with resumes.



Summary Resumes of Key Personnel



Kevin Krick, PE, LEED AP | Program Manager

Kevin is a Program Manager in our Florence and Columbia, SC, offices. His responsibilities include designing and managing site engineering for industrial parks, schools, commercial shopping centers, restaurants, apartment complexes, and residential subdivisions. Projects have included all facets of civil engineering, including concept plans, site layout, grading, and stormwater management, such as detention pond design, water, wastewater, and other utility design.



Florence, SC



25 Years of experience



BS, Civil Engineering,
Clemson University



Professional
Engineer: SC, NC,
GA, FL

LEED Accredited
Professional

2022 SC Civil
Engineer of the Year
by the American
Society of Civil
Engineers

City of Sumter, Stormwater On Call Services, Sumter, SC: Program Manager/Project Engineer. Conducted a hydrologic and hydraulic analysis of the area and designed stormwater improvements, including new storm drain inlets, widened stormwater ditches, and a new detention pond. AECOM prepared construction plans, specifications, cost estimates, permit applications, scheduling and implementation plan.

City of Florence, Stormwater Capital Improvements Projects, Florence, SC: Project Manager/Project Engineer. Responsible for the design and permitting of storm drainage system improvements in 5 residential neighborhoods throughout the City. Work included stormwater calculations and the preparation of plans and specifications for new pipes, catch basins and ditches.

South Carolina Office of Resilience (SCOR), Lake City Highway 52 Stormwater Improvements, Lake City, SC: Project Manager. Responsible for project management and quality assurance during construction. Work included conducting Hydrologic and Hydraulic (H&H) analysis using AutoCAD Storm and Sanitary Analysis, designed improvements including new drain inlets, pipes and widened stormwater ditches.

City of Charleston Department of Stormwater Management, Program Management and Related Services, Charleston, SC: Project Engineer. Responsible for the development of a city-wide Stormwater Master Plan, including infrastructure assessment, hydrologic and hydraulic modeling, design recommendations, and conceptual cost estimating.



Porter Rivers, PE | Water Systems Lead

Porter has 38 years of experience in the fields of environmental and water resources engineering. He serves as AECOM's Mid-Southeast Area Drinking Water Lead. His responsibilities include performing and managing a wide variety of water and wastewater field studies and facilities evaluations. His experience includes analysis and design for water conservation and supply and water and wastewater treatment plants.



Columbia, SC



38 Years of experience



MS, Civil
Engineering,
Colorado State
University

BS, Chemical
Engineering,
University of South
Carolina



Professional
Engineer: SC, NC,
GA, FL, TN

City of Florence, On Call Services for Utilities Engineering, Florence, SC: Program Manager. Responsibilities include assignment and coordination of project teams for completing City utility projects and coordination with client regarding satisfactory completion of projects within schedule and budget. Under this program, AECOM has completed 12 tank rehabilitation projects (repair and repainting), construction of 1 new elevated storage tank, demolition and removal of 2 existing elevated storage facilities, and provided annual inspection services for SC DHEC compliance, covering the City's 14 elevated storage tanks. Services have also included assistance during disaster response using the City's hydraulic model to manage system pressures and refilling of tanks due to water loss resulting from extensive freeze in January 2018.

City of North Augusta, Phase I Water Treatment Plant Improvements, North Augusta, SC: Project Manager/Client Services Manager for the design of a 30 MG raw water storage tank with associated raw water pump station improvements, improvements to the existing raw water pump station modifications including new VFDs, a new chlorine dioxide contact chamber, a new rapid mix facility, along with associated yard piping, site improvements, instrumentation and control improvements, and SCADA modifications.

Orange County, Water and Wastewater System Evaluation, Orlando, FL: Project Manager for the development of engineers report for water and wastewater systems of Orange County, Florida. The report evaluated the ability of the County's water and wastewater systems to meet the system demands, the operation, maintenance and management of the systems, and the financial operation of the utilities.



Keith Cannon, PE | Wastewater Systems Lead

Keith has 21 years of engineering experience with a wide range of water and wastewater treatment plant projects, including project management, design, coordination of construction drawings and specifications for projects, budget and construction cost estimates and construction administration.



Columbia, SC



21 Years of experience



BS, Civil Engineering,
University of South
Carolina

BS, Architectural
Engineering,
Clemson University



Professional
Engineer: SC, NC

Chester Sewer District, Sandy River Wastewater Treatment Plant Influent Pump Station Upgrade, Chester, SC:

Project Manager responsible for the design of a new 5-mgd influent pump station for the existing wastewater treatment plant. The project included a new mechanical bar screen and pump station with four submersible pumps. Responsibilities also included permitting and construction administration.

City of Camden, New Wastewater Treatment Plant, Camden, SC:

Project Manager responsible for the design of Camden wastewater treatment plant expansion from 3 mgd to 4 mgd. Project included designing a new conventional activated sludge plant to replace the existing aerated lagoon plant. Responsibilities also included permitting and construction administration.

City of Florence, Florence New 18 MGD Wastewater Treatment Plant, Florence, SC: Project Engineer responsible for the design and preparation of plans and specifications of improvements to the Florence Regional Wastewater Management Facility.

Hilton Head Public Service District, Wastewater Treatment Plant Improvements

(Headworks Improvements), Hilton Head, SC: Project Engineer responsible for the design and preparation of plans and specifications for a new combination fine screen and grinder system at the existing wastewater treatment plant headworks.

City of Barnwell, Regional Pump Station, Barnwell, SC: Project Engineer responsible for designing and preparing plans and specifications for the new 150 gpm regional pump station. Other duties included permitting and construction observation.



Michael Henry, PE | Stormwater Systems Lead

Michael is a Water Resources Engineer in our Florence office. His responsibilities include the design of water, wastewater and stormwater infrastructure design for municipal clients. Projects have encompassed all facets of civil engineering, including scope definition, funding pursuit, concept plans, site layout, grading, drainage, well design, water treatment, water line, wastewater treatment, pump station, force main, gravity sewer and other utility design.



Florence, SC



9 Years of experience



BS, Civil Engineering,
Clemson University



Professional
Engineer: SC

City of Darlington, Darlington Southwest Drainage Improvements, Darlington, SC: Project Task Lead. Completed the constructability and technical review of the stormwater design, specifications and construction plans for approximately 5,000 linear feet of various sized 15-inch to 60-inch storm drain lines, 500 linear feet of open channel improvements and the associated catch basins, and drop inlets. Consisted of the survey, design, geotechnical investigation and permitting for the linear work associated with the drainage improvements.

City of Florence, Stormwater Capital Improvements, 2021, Florence, SC: Project Task Lead. Responsible for the content development of a comprehensive watershed study for the PeeDee and Santee Watersheds after several years of flood damage due to tropical systems. The study included a hydrology study, identification of potential flood mitigation project ideas, benefit-cost analysis, and prioritization of the project ideas.

City of Dillon and Dillon County, Flood Management Study and Stormwater Master Plan, Dillon, SC: Project Task Lead. Project included developing a detailed Standard Operating Manual, locating and mapping all major stormwater infrastructure within the watershed, including inlets, outlets, manholes, pipes, culverts, open channels and ponds. Information regarding the type, shape, and dimensions will be measured.

City of Florence, Cedar and McQueen Street Engineering, Florence, SC: Project Engineer responsible for the design of a CDBG-MIT grant-funded project to address flooding in a historic area of the City. This project is currently in design. Work will include public meetings, field investigations with CCTV crews, GIS data collection, survey, watershed delineation, sub-basin delineation, H&H analysis of the existing and proposed conditions, detailed cost estimates, project manuals, bidding and construction administration and observation.






Our Project Team

People – not firms – deliver projects. Our team is committed to this program and will be available throughout the program's lifespan as needed. The following pages introduce the rest of our project team, their relevant experience and qualifications that will bring value to you and this contract. Upon request, we can provide detailed resumes for all our team members.

AECOM Personnel Qualifications		
Water Systems		
	Gary Freeman, PE <i>Principal-In-Charge</i> Total Years of Experience: 29 Office Location: Charleston, SC	Gary will serve as your Principal-in-Charge for the upcoming projects. Gary is a Vice President and the South Carolina Water Business Practice Leader. He has 29 years of experience in water distribution, wastewater collection and treatment. His experience includes project management, regulatory negotiation, due diligence and regulatory compliance.
	Craig Metts, PE <i>Water Design Engineer</i> Total Years of Experience: 27 Office Location: Columbia, SC	Craig is a Senior Project Manager in the Columbia office with experience in a broad range of water and wastewater engineering projects, including water and wastewater treatment, water distribution and wastewater collection. In addition to his project management duties, Craig is the Columbia office water group manager.
	John Weldon, PE <i>Water Design Engineer</i> Total Years of Experience: 24 Office Location: Charleston, SC	John is a local Senior Project Manager and the AECOM Charleston Department Lead. He has 24 years of experience with a strong background in wastewater collection and water distribution projects, including pumping stations, gravity sewer and force mains.
	Kathryn Nexsen, PE <i>Modeling Engineer</i> Total Years of Experience: 11 Office Location: Columbia, SC	Kathryn has extensive experience in hydraulic modeling, force main and PS modeling, pressure surge analysis, water distribution system evaluations, and water distribution planning, including demand projections. She has several years of experience within the City of Columbia and is currently assisting with the Capacity Assurance Program for the City.
	Ryan Diedrick, PE <i>Water Quality</i> Total Years of Experience: 13 Office Location: Columbia, SC	Ryan has 13 years of engineering experience in water, wastewater, and stormwater projects, from conception and planning to design, and construction administration and observation. Additionally, Ryan is an expert in field/laboratory analysis, including research, sample collection and laboratory and field analysis of water, wastewater, soil and solid waste.
	Anthony Self, PE <i>Water Tank Design and Rehab</i> Total Years of Experience: 10 Office Location: Columbia, SC	Anthony is a leading expert on tank design. His expertise includes all phases of tank design and rehabilitation projects, including site assessment, site layout, tank design, permitting, preparing detailed specifications and drawings, performing inspections, conducting evaluations and overseeing construction administration. Responsibilities also include the design of water and wastewater infrastructure, stormwater management and site engineering for municipal clients.
	Boyd Parr, EIT <i>Designer</i> Total Years of Experience: 2 Office Location: Columbia, SC	Boyd is responsible for assisting in the design of wastewater and water treatment works and wastewater collection systems, including gravity sewers, force mains, pump stations, and water distribution systems. His duties include sewer modeling, design calculations, permitting, plan preparations, specifications, and construction administration/observation.
Wastewater Systems		
	Phillip Dieckmann, PE <i>Collection System Rehab and Design</i> Total Years of Experience: 17 Office Location: Columbia, SC	Phillip has 17 years of experience, with a strong emphasis on wastewater collection and water distribution projects. His responsibilities include wastewater collection and water distribution planning, sanitary sewer evaluation surveys, wastewater collection and water distribution design, wastewater collection and water distribution plan and specification preparation, permitting applications including SCDHEC, SCDOT, and railway permits, project cost estimating, construction administration, field data collection and construction observation.

 <p>Alex McCune, PE Collection System Rehab and Design Total Years of Experience: 17 Office Location: Columbia, SC</p>	<p>Alex has 17 years of experience and a broad background in civil engineering, including water and sewer conveyance, solid waste, industrial site remediation, and municipal infrastructure design. He is proficient at managing design schedules, performing site visits, attending meetings, and reviewing submittals.</p>
 <p>Tom Thain, PE Pump Station and Treatment Plant Design Total Years of Experience: 43 Office Location: Columbia, SC</p>	<p>Tom is a senior project manager with experience in municipal and industrial water treatment, pumping, storage, distribution, and wastewater collection, pumping, equalization, and treatment. Throughout his 43 years of experience, he has worked on many water and wastewater projects throughout South Carolina.</p>
 <p>Clint Riley, PE Pump Station and Treatment Plant Design Total Years of Experience: 16 Office Location: Columbia, SC</p>	<p>Clint has many years of experience in various phases of wastewater and water-related municipal projects, from conception and planning through construction. Clint's duties include design, generating engineering drawings, writing and reviewing specifications, and construction observation. He also assists in water tank rehabilitation projects and conducting hydraulic studies within the water and wastewater treatment processes.</p>
 <p>Bryan Wright, PE Designer Total Years of Experience: 46 Office Location: Greenville, SC</p>	<p>Bryan is a Senior Project Manager with experience in design, permitting, and implementation related to the remediation of soils and groundwater, wastewater treatment and transportation facilities, water distribution, stormwater improvements, impoundment closures, sludge stabilization, land application, and municipal, industrial, and hazardous wastes landfills. His responsibilities have included project management, lead project engineer, and construction oversight.</p>
Stormwater Systems	
 <p>Michael Lambrecht, PE Stormwater Design Total Years of Experience: 26 Office Location: Columbia, SC</p>	<p>Michael has 26 years of civil/site engineering experience in a wide range of project types, including the design and management of site engineering for industrial parks, landfills, subdivisions, roadways, and commercial developments. In addition, he has designed and managed water and wastewater projects for water tanks, waterline distribution, wastewater collection and conveyance, and utility relocations.</p>
 <p>Jason Outlaw, PE Stormwater Design Total Years of Experience: 10 Office Location: Columbia, SC</p>	<p>Jason is a talented engineer within the Water Group in South Carolina, which encompasses a wide range of civil/site engineering services. His responsibilities include lead design engineer and construction administration on large complex site civil design projects, roadways, parking lots and related infrastructure systems, including water, wastewater, grading, storm drainage, permitting and mentoring junior-level engineers.</p>
 <p>Abhishek Gupta, PE H&H Modeling Total Years of Experience: 21 Office Location: Greenville, SC</p>	<p>Abhishek brings 21 years of experience in industrial wastewater, sanitary wastewater, drinking water, and soil and groundwater assessment, treatment and remediation. Abhishek has also performed extensive hydraulic calculations for treatment plants, large pump stations, and large-diameter transmission lines. He has extensive experience in the design and operation of skid-mounted treatment and dosing systems, hydraulic design of pump stations, drinking water treatment, industrial wastewater treatment, sanitary wastewater treatment, and soil and groundwater assessment, treatment and remediation.</p>
 <p>Erica King, PE Stormwater Permitting Total Years of Experience: 26 Office Location: Charleston, SC</p>	<p>Erica is a Senior Project Manager and the Charleston Stormwater Team Leader. Erica has 26 years of engineering experience, including significant experience providing stormwater management consulting services and NPDES permitting assistance to MS4 clients across the state of South Carolina. In addition to her stormwater management consulting, she is responsible for various phases of water and wastewater-related municipal projects, from conception and planning to design, specializing in water quality and regulatory compliance.</p>

 <p>Jessica Palazolo, EIT Stormwater Permitting Total Years of Experience: 6 Office Location: Charleston, SC</p>	<p>Jessica is a Water Resource Engineer with six years of experience in civil engineering and water resources. The range of Jessica's background includes watershed planning, NPDES permitting, stormwater design, hydraulic and hydraulic studies, and hydraulic and hydrologic modeling.</p>
 <p>Lauren Wesolowski, EIT Designer Total Years of Experience: 4 Office Location: Charleston, SC</p>	<p>Lauren has four years of experience related to the field of civil engineering. The range of her experience includes design engineering, construction, drainage permitting, H&H modeling, inspection services, cost estimating, and technical writing.</p>
Supporting Services	
 <p>Jason Forsberg, PLS Surveying Total Years of Experience: 20 Office Location: Columbia, SC</p>	<p>Jason is a Survey Manager in the AECOM Columbia, SC office who directly manages our Columbia survey crew members. Jason has extensive experience providing surveying services supporting a wide range of infrastructure improvement projects, including water and wastewater utilities, site development and gas transmission. As a Survey Manager, his responsibilities include oversight from project initiation through project execution and managing and developing the efficient use of practice group resources.</p>
 <p>Kyle McLamb, PLS Surveying Total Years of Experience: 45 Office Location: Florence, SC</p>	<p>Kyle is a Surveyor/Project Representative in our Florence office, providing survey management, construction administration and observation services. He is experienced in the planning, coordinating and implementation of surveying services required for the design and construction of water and wastewater treatment plants, pumping stations, storage tanks, pipelines, hazardous waste remediation sites, streetscape design, floodplain management, transportation and environmental projects.</p>
 <p>Wade Poston Surveying Total Years of Experience: 27 Office Location: Florence, SC</p>	<p>Wade is a Project Representative in our Florence, SC, office. He is responsible for construction observation of projects such as water and wastewater treatment plants, large utility lines (water, sanitary sewer collection systems, storm sewers), and elevated storage tanks and wells. Wade provides detailed computer-generated construction observation reports and photo exhibits, as well as recording the technical observations of testing conducted during construction.</p>
 <p>Shelby LeBron, PE Grant Administration Total Years of Experience: 25 Office Location: Columbia, SC</p>	<p>Shelby is a Senior Project Engineer with 25 years of experience and a broad background in water resources planning, environmental compliance, and permitting. Shelby's environmental compliance and permitting experience includes a wide range of environmental compliance programs for both public utilities and private industry. In addition, she has been involved with a number of preliminary engineering reports for wastewater treatment facilities, including several which led to either plant expansions or the design of entirely new treatment plants.</p>
 <p>Kristy Graham Permitting Total Years of Experience: 20 Office Location: Columbia, SC</p>	<p>Kristy is a Design Technician responsible for permitting, construction observation, creating easement exhibits and maps in CAD, stormwater and erosion inspections, construction administration, and shop drawing reviews. She is a Certified Erosion Prevention and Sediment Control Inspector and a Licensed General Contractor.</p>
 <p>Chris Adams, PE Electrical Total Years of Experience: 27 Office Location: Bossier City, LA</p>	<p>Chris is a Senior Electrical Engineer. He has 27 years of electrical design experience at water and wastewater facilities and water supply systems. His responsibilities include managing electrical staff and electrical design for lighting, power distribution, emergency generation, controls, and special systems design and specifications.</p>

 <p>Alan Trim Health & Safety Manager Total Years of Experience: 42 Office Location: Columbia, SC</p>	<p>Trim is a Senior Environmental, Health & Safety Manager in our Columbia office with 42 years of professional consulting experience. He has significant experience developing health and safety plans, conducting safety audits and inspections, developing written safety programs, performing job safety analyses, providing technical reviews for OSHA compliance, and developing and conducting safety training.</p>
 <p>Greg Thacker, GISP GIS Services Total Years of Experience: 39 Office Location: Columbia, SC</p>	<p>Greg leads our Columbia, SC, Geographic Information Systems team. He oversees the application of technology in developing innovative solutions, including the integration of business systems and asset management support solutions. His technical specialties are focused on computerized maintenance management system configurations, program development for Esri products and integration of business processes for utility and data schema development. Greg provides expertise in GIS workflow development that maximizes system utilization. Along with his project management duties, he provides the overall enterprise GIS design and vision for our offices in South Carolina.</p>
 <p>Matt Cieri, GISP GIS Services Total Years of Experience: 22 Office Location: Columbia, SC</p>	<p>Matt is a GIS Analyst/Programmer in our Columbia office with 22 years of experience in GIS data development, analysis, enterprise implementation and integration. His current focus is on ArcGIS Server/ArcSDE enterprise system design and implementation, web application development, relational database development, and server hardware configuration that facilitate municipal and county GIS systems. Matt is fully skilled with Esri Suite of Products (ArcGIS Desktop ArcInfo, ArcGIS Server, ArcSDE, ArcGIS Pro, ArcGIS Portal), SQL Server, Crystal Reports, SQL Server Reporting Services (SSRS), SQL Server Data Tools (SSDT), Python, SQL and has a strong knowledge of VB.Net, Visual Studio, VBA, HTML and XML.</p>
 <p>Lynn Shelly Mapping Total Years of Experience: 44 Office Location: Columbia, SC</p>	<p>Lynn is an experienced GIS Technician in our Columbia office. She has 44 years of experience in the engineering industry, including 25 years of CAD and GIS mapping experience working with utility projects. Her responsibilities include data editing, conversion and quality control. She is also responsible for all aspects of GIS map production.</p>
 <p>Scott Coker Construction Administration/ Observation Total Years of Experience: 31 Office Location: Florence, SC</p>	<p>Scott is responsible for construction observation of projects such as water and wastewater treatment plants and large utility lines (water, sanitary sewer collection systems, storm sewers). Scott provides detailed computer-generated construction observation reports and photo exhibits, as well as recording the technical observations of testing conducted during construction. He also checks working specifications, reviews and approves shop drawings/construction drawings and monitors the preparation of record drawings.</p>
 <p>Aaron Lodge Construction Administration/ Observation Total Years of Experience: 9 Office Location: Columbia, SC</p>	<p>Aaron is a Project Representative with nine years of experience in the engineering industry. His duties include construction observation and administration on many of our large water and wastewater treatment plant upgrades, water distribution, and wastewater collection lines.</p>
 <p>Michael Lambert Construction Administration/ Observation Total Years of Experience: 25 Office Location: Columbia, SC</p>	<p>Michael has 25 years of experience conducting field visits to job sites to observe and evaluate construction work. He oversees and performs general and advanced construction and field observation on various water and wastewater projects throughout the state.</p>

Section 3

Experience of the Firm



3. Experience of the Firm

Summary

AECOM, one of the nation's premier engineering, design, environmental and planning firms, combines technical expertise and creative excellence to provide fully integrated planning, design, engineering, environmental and program management capabilities to a broad range of markets. Our adaptable and flexible approach to projects delivers consistency, longevity, high quality, and cost and time efficiencies. As a member of the Fortune 500 list, AECOM is one of the most respected professional service providers in the world. We have brought together the expertise of our legacy companies to create distinct capabilities that offer clients access to integrated services and seamless delivery. Our 47,000+ employees enable us to deliver global expertise and an understanding of local cultures.



OVERALL **ENR 2022**
TOP DESIGN FIRM

South Carolina Presence

Our South Carolina offices began serving clients more than 100 years ago. Today, AECOM has offices in Charleston, Columbia, Greenville and Florence, South Carolina.

AECOM's water and wastewater practice is supported by dedicated staff in the Carolinas, which includes more than 600 professionals. Leveraging an industry-recognized combination of abilities, skills, and capacity, our water and wastewater practice can dedicate unlimited resources to successfully advance a client's project, regardless of location or scope.

On Call Engineering Experience

Our team's qualifications and experience include all of the required scope of services and project elements listed in the RFQ. We have extensive experience working on projects including water line extensions, sewer system repairs, water and wastewater system rehabilitations, pump stations, stormwater infrastructure, regulatory compliance, transportation and site development.

AECOM has a strong history of partnering with local counties and municipalities across the state as well as with state agencies such as the SCDOT, colleges and universities. We service many of our clients in a variety of disciplines, and we thoroughly understand what it means to provide "on call" engineering services and be an extension of your staff.



We have extensive experience providing "on call" consulting engineering services to public sector clients throughout the state.

We have provided a few brief descriptions of similar on call engineering services contracts for utility infrastructure starting on page 16.

- **City of Bennettsville** - Master Service Agreement
- **City of Dillon** - On Call Engineering Services
- **City of Florence** - On Call Engineering Services
- **City of Florence** - Street Improvements Program
- **City of Johnsonville** - Master Service Agreement
- **City of Lake City** - Capital Projects Program Management
- **City of North Augusta** - On Call Engineering Services
- **City of Sumter** - Master Service Agreement
- **Kershaw County** - On Call Engineering Services
- **Kershaw Co. & Lee Co. Regional Water Authority (dba Cassatt Water)** - Capital Improvements Program
- **City of Charleston** - On Call Stormwater Services
- **Charleston County** - Stormwater Management Services
- **Chester County Wastewater Recovery** - Master Services Agreement for Engineering Services
- **City of Clinton** - On Call Engineering Services
- **City of Columbia** - Major Wastewater Collection System Projects
- **City of Columbia** - Sewer System Evaluation Survey and Sewer Rehabilitation
- **City of Columbia** - Wastewater Collection System Manhole Surveys
- **Department of Public Utilities, City of Orangeburg** - On Call Engineering Services
- **Lexington County** - On Call Engineering Services
- **Richland County** - On Call Storm Drainage
- **SCDOT Various** - On Call Services (Safety Program, Traffic Engineering, Environmental)
- **Spartanburg County** - On Call Engineering Services
- **Sumter County** - C-Funds Road Paving Program
- **University of South Carolina** - Civil and Surveying IDC

Wastewater Treatment

AECOM has more than a century of experience in South Carolina working with wastewater treatment facilities ranging in size from less than 1 MGD to 60 MGD. We have designed new wastewater treatment plants from the ground up and completed numerous upgrades and/or expansions of existing wastewater treatment plants. We also provide consulting services related to plant process optimization, troubleshooting, safety and regulatory compliance.



Our team was part of the design team for a new 22 MGD Wastewater Treatment Plant to replace the City of Florence's existing aging plant.

Water Treatment

AECOM provides design, bidding, construction administration and observation for the rehabilitation of existing water treatment facilities. Hundreds of operating water treatment plant projects throughout the country were designed by AECOM engineers. From advanced to conventional treatment, large to small facilities, and complex to simple constraints, AECOM has a wealth of experience in helping clients meet the public's potable water needs.

Water Distribution

AECOM's water distribution experience includes the planning, design, construction observation, and project administration of numerous local and regional water distribution systems. Locally, our engineers have extensive experience performing these services and the thousands of miles of water distribution line designed by AECOM serve as a testament to our leadership and expertise in this area.

Water Storage

For many years, we have performed numerous evaluations of water storage tanks for many different clients throughout South Carolina. Our evaluations include assessments of foundations, structural members, exterior and interior steel condition of tanks, paint condition, overflow piping, vents, hatches, ladders, safety equipment, level indicators, antenna anchors, cable mounts, etc. Based on our observations, we generate reports with the assessment results and provide recommendations to the client for maintenance items and cost estimates for repairs and painting. Additionally, we provide Repainting and Repair (R&R) design services.

Wastewater Collection

AECOM's wastewater collection experience includes the following; large regional collection systems, small residential collection systems, industrial and commercial collection systems, pump stations, force mains, and gravity sewers.

To address the needs of many of our clients with aging collection systems, AECOM provides expertise in collection system rehabilitation projects. We employ methods that include field and video evaluations, cured-in-place linings, pipe bursting, point repairs, manhole linings, slip liners, epoxy lining, specialty concrete repair and chemical grouts.



Our team recently completed design and construction services for the James Jones Sewer Line project.

Pump Station Rehabilitations

AECOM provides design, bidding, construction administration, and observation services for the rehabilitation to lift stations throughout South Carolina. Rehabilitation efforts include converting dry well stations to submersible pump stations, replacing pumps, piping, valve pits, new pump controls, and modification of yard piping.

Utility Relocation

Our team has extensive experience defining, managing and incorporating necessary utility adjustments as components of transportation projects. We are well aware that determining and resolving utility conflicts is often on the critical path for completing project design. All of our efforts will be closely coordinated with your staff and utility companies, including electric, telephone, cable and gas systems, as well as municipal water and sanitary sewer systems.

Our team has significant experience working with utility owners to identify these conflicts and determine how to eliminate the conflict or coordinate utility system relocation. We will define the anticipated utility conflicts and our plan to mitigate them as soon as they are identified. We can participate in negotiations with utility system owners, and we have the resources to support utility relocation efforts.

Stormwater Management

AECOM has extensive experience helping communities across the country solve a vast array of stormwater issues. From a simple review of municipal stormwater management practices to the development and implementation of stormwater utilities, AECOM's experience encompasses the full spectrum of services.

AECOM has always used advanced technologies to identify and implement innovative, progressive solutions to drainage problems. We keep abreast of water-related rules and regulations at the local, regional, and federal levels. Stormwater is one of the major priorities for communities in South Carolina, and AECOM can provide expertise to clients in the following areas:

- Stormwater Infrastructure Design
- Stormwater Master Plans
- Watershed modeling
- Design of stormwater management and treatment structures, pumps, and piping systems
- Design of stormwater collection systems and engineering analyses of drainage basins
- Preparation of permit applications and reports, and agency coordination
- Rate studies to develop impact and user fees
- Collection and analysis of flow proportionate stormwater runoff samples
- Surface and groundwater level monitoring, sampling, and analysis

AECOM has a staff of highly qualified professionals who perform planning and design for a wide range of stormwater facilities.



Our team designed this water quality structure for Timrod Park in Florence, SC.

Stormwater Master Planning

AECOM has prepared numerous stormwater master plans and drainage studies for various municipal systems. These plans have established the condition of the existing system and then formed the "road map" for future improvements and expansion. Our clients have enjoyed specific recommendations that allow them to plan and budget for identifiable capital improvement projects (CIP).

For growing communities, the plans have also allowed our clients to require new developments to install certain infrastructure that meets the ultimate needs of the stormwater utility rather than simply the needs of the development.

Our experience has shown us that the key to successful master planning is the careful and thoughtful collection and evaluation of existing data and future projections. Another key element of successful master planning is having a variety of design and construction experience in the various areas of utility engineering, including stormwater pump stations, storage, treatment, grants/loans, and permitting.

Floodplain Management

AECOM is a recognized leader in floodplain mapping, water resources modeling and resilience and climate adaptation planning efforts across the country and the world. We offer experience in vulnerability and risk assessment; planning, design, and construction of resilient infrastructure; natural disaster preparedness planning and response; and climate mitigation and adaptation planning. AECOM developed, calibrated, and applied complex hydrologic and hydraulic models for previous analyses. Regionally, AECOM is engaged in floodplain mapping and mitigation work for FEMA as well as many state and local agencies, including the South Carolina Department of Natural Resources (SCDNR).



Collaboration during construction of a new 48-inch water transmission line for the City of Columbia.

Permitting & NPDES Compliance

Perhaps the greatest asset AECOM provides our clients is our rapport with local, state, and federal permitting agencies. Through our history of work on thousands of engineering projects, AECOM has gained extensive experience with all state and federal agencies that hold regulatory authority over our clients' projects.

Our personnel intimately know what is required to prepare complete permit applications the first time around, addressing a wide variety of local, state and federal regulations while reducing the risk of wasting valuable time on resubmittals due to simple errors or inexperience. Our permitting success results from proper initial permit preparation, relationships with regulatory personnel, and regular follow-ups to help ensure permits are issued within the time frames needed to meet our clients' schedules.

AECOM regularly works with the South Carolina Department of Health and Environmental Control (SCDHEC), the United States Army Corps of Engineers (USACE), the Environmental Protection Agency (EPA), and other local, state and federal agencies to obtain permits for projects throughout the Southeast. Our South Carolina operations also include environmental specialists with extensive experience working with the SCDHEC, the USACE, the U.S. Fish and Wildlife Services (USFWS) and the South Carolina Department of Natural Resources (SCDNR) on a variety of environmentally sensitive projects.



Utility Coordination & Relocation

With a history in public utilities nearly a century strong, AECOM is extremely adept at reconciling the planning and implementation of infrastructure improvements with the uninterrupted operation of public utilities. We understand the importance of investigating and comparing field conditions with site plans in order to minimize or eliminate conflicts between proposed infrastructure facilities with buried and overhead utilities. Our well-versed utility engineering staff has a highly successful reputation for producing sound engineering results, which has been gained through experience in coordinating with counties, municipalities, and local utility providers to mitigate possible construction delays and utility impacts.

When a project requires utility relocation, our engineers work closely with local utility providers and stakeholders involved in the project. Our engineers coordinate with these parties throughout, helping to reduce conflict and minimize errors, and in many cases, meet with utility company representatives to effectively relocate the utilities and complete accurate construction plans for site improvements.

Bidding Phase Services

AECOM has provided bidding assistance and construction administration and observation services for countless projects, and hundreds of on call engineering projects. Our research is thorough, our specifications are prepared to high standards, and our long-standing, amicable relationship with contractors allows us to move through construction in a timely manner. **We have a successful history with, and fully understand South Carolina procurement procedures which allow us to efficiently prepare required documentation and help coordinate the bidding process through selection of a qualified contractor.**

As part of these services, AECOM provides drawings and contract documents for bidders to review, and we fully participate in pre-bid conferences and bid openings. Once work is underway, we evaluate all submissions from contractors and make recommendations in the best interest of our client. Appropriate contract documents are executed, and all required plans and paperwork are submitted to the contractor. Over the course of construction, URS reviews contractor submittals and pay requests, makes scheduled visits to project sites, and provides field reports in accordance with our client's needs.

Construction Phase Services

AECOM believes in using quality assurance to verify that the contractor's work is in accordance with the construction documents. Using the full contract documents as a guide, our inspectors monitor the Contractor activity for compliance with the approved engineering specifications, drawings, and sound construction practices. Our inspectors' firm-wide hold numerous specialty certifications including, NASCO, PACP, OSHA, and many others. As part of the client's inspection team, we will use comprehensive, multi-tiered inspection and verification procedures, which we have used on similar projects in the region.

Construction Administration services typically include contract review, pre-construction meetings, public outreach meetings, schedule review, shop drawing review, pay application review, construction progress meetings, change order management, and project close-out. Construction Observation services typically include periodic on-site observation with the amount of time negotiated during the engineering contract development, field reporting and photographs, and maintaining an avenue of constant communication between the contractor and the City.



Construction observation of a sewer line in Florence, SC

Relevant Projects/References

On the following pages, we have included projects and references for other relevant government agencies that AECOM has provided similar water and wastewater utility services in the last three years. These projects will attest to our work, collaboration, and overall team and project success. We encourage the Association to contact the project references provided to hear firsthand how AECOM has successfully performed all of the services anticipated under this contract. Performing our work to the highest standards is a core value of our team and one that is reflected by our recent and ongoing work within the region.

City of Florence – On Call Engineering Consulting Services

Client Information:

City of Florence
Michael Hemingway
Director of Public Utilities
843.655.2047
mhemingway@
cityofflorence.com

Status:

Ongoing

Relevance to the Association:

- › Stormwater
- › Roadways
- › Sidewalks
- › Water treatment
- › Wastewater treatment
- › Water distribution and storage
- › Wastewater collection
- › Pumping stations
- › Project funding support
- › Design Services
- › Watershed mapping
- › SWPP development
- › GIS
- › NPDES Permitting
- › Grant assistance
- › Permitting

Since 2006, AECOM has served as the “On Call” engineer for the City of Florence, a true testament to the quality of work we have delivered over many years.

The primary function of our role is to provide the City with engineering services related to water and sewer utility infrastructure. Working as an “extension of City staff”, AECOM provides a full range of services from planning through construction in the following areas:

- Water Distribution and Storage
- Wastewater Collection and Pumping Stations
- Stormwater Management
- Water Resources (ground water, planning, treatment)
- Project Funding Support



City of Dillon – On Call Engineering

Client Information:

City of Clinton
Glen Wagner
City Manager
843.774.0040
gwdillon@bellsouth.net

Status:

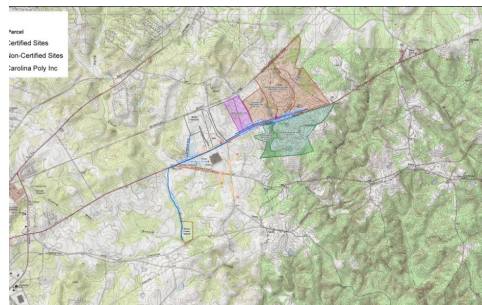
Ongoing

Relevance to the Association:

- › Water System
- › Sewer System
- › WWTPs
- › Stormwater
- › SCADA
- › Development Plan Review
- › Permit Compliance
- › Funding Assistance
- › Studies & Reports

Through the years, AECOM, past legacy firms and current employees have assisted the City of Dillon with their “On Call” engineering needs encompassing all facets of municipal civil engineering services.

Past projects and tasks have included surveying, mapping, investigations, studies and reports, as well as complex water, sewer, WWTP and stormwater design. AECOM is readily accessible to the City’s water, sewer, stormwater and administration staff. AECOM regularly receives requests from the City to assist them with their day-to-day operation. From emergency sewer repairs to grant funding assistance, AECOMs current staff, including team members located in our Florence office, can respond to the City’s needs in the field and at the office at a moment’s notice. Simply put, AECOM has streamlined a process to include responsive communication, itemized task creation and high-quality deliverables at a responsible price.



City of Johnsonville – On Call Engineering

Client Information:

City of Johnsonville
Troy Gaskins
Water Superintendent
843.319.1711
tgaskins@cityofjohnsonville.com

Status:

Ongoing

Relevance to the Association:

- › Water treatment
- › Wastewater treatment
- › Water distribution and storage
- › Wastewater collection
- › Pumping stations
- › Project funding support
- › Design Services
- › GIS
- › Grant assistance
- › Permitting

AECOM is currently serving as the City’s “On Call” engineer and has worked with the City for more than 30 years.

AECOM provides water, wastewater, stormwater, and site development engineering services to the City to support them with a variety of projects. Our services have included surveying, conceptual planning, grant administration, Preliminary Engineering Reports (PERs), detailed design including construction plans and specifications, cost estimating, permitting, bidding and award, and construction administration / observation. Our recent projects have included the following:

- Kingsburg Well Emergency Generator (SRF funded)
- Diamond Branch Road Water and Wastewater Improvements (CDBG funded)
- Oak Hill Water Tank Rehabilitation (RIA funded)
- Pump Station #5 Rehabilitation (CDBG funded)
- WWTP Electrical System Improvements
- Wellman Golf Course Erosion Control Plans
- 2021 Water Loss Audit
- 2021 Annual Water Tank Inspections
- 2021 Source Water Protection Plan



City of Bennettsville – On Call Engineering

Client Information:

City of Bennettsville
Max Alderman
City Administrator
843.479.9001 Ext 329
max.alderman@bennettsvillesc.com

Status:

Ongoing

Relevance to the Association:

- › Water Resources Planning
- › Groundwater Withdraw Permitting
- › Well Design and Construction Services
- › Hydrogeological Services
- › Groundwater Treatment
- › Water Distribution and Storage
- › Environmental Compliance and Permitting
- › NPDES Renewal Permitting
- › Grant Assistance and Project Funding Support
- › Distribution Water Quality
- › Lead and Copper Rule Compliance

For more than 40 years, AECOM and its legacy firms have provided “On Call” engineering services to the City of Bennettsville for a wide variety of needs associated with the City’s water, wastewater, and stormwater systems.

From water system planning to regulatory compliance for both water and sewer systems, AECOM has supported the operations and management of the City’s utility systems. As a conjunctive water system that uses both groundwater and surface water, we have helped the City optimize these sources for both regulatory compliance and minimization of operational costs. Currently, AECOM is providing guidance to City Management regarding the use of funding from the American Rescue Plan Act (ARPA).



City of Charleston – On Call Stormwater Consulting Services

Client Information:

City of Charleston, SC
Matthew Fountain
Director of Stormwater
Management
843.724.3754
fountainm@charleston-sc.gov

Status:

Ongoing

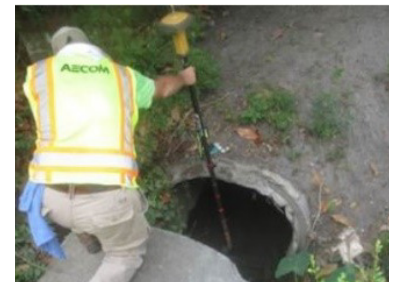
Relevance to the Association:

- › Stormwater
- › Design Services
- › Watershed mapping
- › SWPP development
- › GIS
- › NPDES Permitting
- › Evaluation
- › Water quality
- › Preliminary and final design
- › Grant assistance
- › Permitting

AECOM is providing “On Call” Stormwater services to the City of Charleston, including support services to the City for its second NPDES permitting cycle.

As part of the On Call Stormwater Consulting services, AECOM is assisting the City with its NPDES permit compliance, including the following services:

- Stormwater Ordinance revisions
- Revision of the City’s existing Stormwater Design Standards Manual
- Develop an Enforcement Response Guide
- Develop a comprehensive IDDE Standard Operating Procedures Manual
- Watershed mapping and stormwater and pollutant modeling
- Outfall inspections, dry weather screening and illicit discharge detection
- Develop watershed management plans/TMDLs developed for the City
- Develop development/redevelopment ordinance
- Construction site SWPPP inspections
- Develop a comprehensive GIS geodatabase for asset collection and data management



Orangeburg DPU – On Call Engineering

Client Information:

City of Orangeburg, SC
Department of Public Utilities
Eric Odom
Water Division Director
803.268.4401
eodom@orbegdpu.com

Status:

Ongoing

Relevance to the Association:

- › Preliminary/ final design
- › Water treatment
- › Wastewater treatment
- › Water distribution and storage
- › Wastewater collection
- › Pumping stations
- › Water treatment
- › Project funding support
- › Grant assistance
- › Permitting

AECOM is providing “On Call” services to the City of Orangeburg, including support services to the City for significant water and sewer infrastructure improvement projects.

AECOM and its legacy firms have provided engineering services to the Department of Public Utilities, City of Orangeburg (DPU), on an ongoing basis since the 1940s. Over the years, our firm has played a prominent role in the development and expansion of DPU’s water and sewer infrastructure, including both the John F. Pearson Water Treatment Plant and Orangeburg Wastewater Treatment Plant, numerous water storage facilities and pumping stations, as well as many miles of water distribution and wastewater collection lines.



Section 4

Familiarity with Federal Funding



4. Familiarity with Federal Funding

We have assisted clients with preparing grant applications, concept drawings, conceptual cost estimates and budgets, writing letters of support, photographic documentation and Preliminary Engineering Reports (PERs). We have been successful in securing funding using:

Community Development Block Grants (CDBG) have been utilized to complete hundreds of projects in SC. These projects have included water, wastewater, stormwater and neighborhood revitalizations. We understand the inner workings of the SC Department of Commerce and the Pee Dee Regional Council of Governments and the processes that must be followed to successfully use the funding.

The Rural Infrastructure Authority (RIA) has been funding water, wastewater and stormwater projects throughout South Carolina for a long time. We have assisted clients with securing funding and managing these grants for many years, including several water tank rehabilitation projects in the Pee Dee. The Lake City Church Street Water Tank rehabilitation was recently submitted to RIA for grant approval by AECOM.

AECOM has completed several projects in South Carolina using funding from the **FEMA Hazard Mitigation Grant Program (HMGP)**. These projects require careful attention to detail and the development of a Benefit Cost Analysis (BCA) using their specific software.

AECOM has been working with the **South Carolina Office of Resilience (SCOR)** since 2018, when we first developed the Pee Dee & Santee Watershed Study after the 2015 "1,000-year Flood", Hurricane Matthew in 2016, and Hurricane Florence in 2018. This study allowed us to work with SCOR

to develop prioritization criteria so they would be able to review flood mitigation project applications impartially. We are currently working with SCOR on stormwater infrastructure improvement projects in Lake City, Florence, Manning and Sumter.

American Rescue Plan Act (ARPA) - The federal government required states to request ARPA funding on behalf of local governments with populations less than 50,000. Through South Carolina's share of the Coronavirus Local Fiscal Recovery Fund included in ARPA, SC received \$435M in funding which is available to non-entitlement units. It is anticipated that these funds will be distributed through the SC RIA with the application process beginning in July 2022. AECOM is assisting the City of Bennettsville by providing guidance on premium pay options for ARPA expenditures as well as administrative and financial reporting requirements.

USDA Rural Development (RD) - USDA offer grants and loans through their Rural Development program. USDA can also offer Emergency Community Water Action Grants (ECWAGs) to support emergency water supply needs. These funds were used to assist the City of Florence secure additional well capacity to support the acquisition of the Timmons ville drinking water system.

Economic Development Administration (EDA) - The EDA can provide matching grants to support the development of infrastructure to support economic growth. AECOM has applied this funding to support economic development in Timmons ville (Honda – water supply) and Chester (Giti Tire – water and sewer service).

Grant Funding Experience	CDBG	RIA	EDA	CDBG-Mitigation	FEMA HMGP
Graham Street Pump Station Relocation - City of Lake City, SC	X				
Church Street Water Tank Rehabilitation - City of Lake City, SC		X			
Oak Hill Water Tank Rehabilitation - City of Johnsonville, SC		X			
Pump Station #5 Rehabilitation - City of Johnsonville, SC	X				
Pine Street Revitalization - City of Florence, SC	X				
Timmons ville Utility Acquisition - City of Florence, SC	X	X	X		
MLK Boulevard Sidewalk and Stormwater Improvements - City of Dillon, SC	X				
Little Pee Dee River Force Main Relocation - City of Dillon, SC			X		
Highway 9 Water Tank Rehab - City of Dillon, SC		X			
Hudson Street Water Tank Rehab - City of Dillon, SC		X			
Rosewood Pump Station Replacement - City of Dillon, SC	X				
Lucius Road Pump Station Replacement - City of Dillon, SC	X				
Pee Dee & Santee Watershed Study - South Carolina Office of Resilience, SC				X	
Stormwater Master Plan - City of Dillon, SC				X	X
Flood Management Study - Dillon County, SC				X	X
Highway 52 Stormwater Improvements - City of Lake City, SC				X	X
Independence Ave. Stormwater Improvements - City of Lake City, SC				X	X
Crosswell Neighborhood Stormwater Improvements - City of Sumter, SC				X	X
Pinnacle Court Stormwater Improvements - City of Sumter, SC					X

About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle – from planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical expertise and innovation, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. See how we are delivering sustainable legacies for generations to come at aecom.com and [@AECOM](https://twitter.com/AECOM).