

March 14, 2025
David Todd
City of Brevard
david.todd@cityofbrevard.com

RE: Engineering Services for Development of a Citywide 2025 Stormwater Master Plan

Dear Mr. Todd,

McAdams is pleased to submit our qualifications for the City of Brevard's Development of a Citywide 2025 Stormwater Master Plan project. For nearly 46 years, McAdams has grown to offer a wide variety of stormwater services that can be applied to any capital project need for our municipal clients, and we have assembled an experienced and talented team for this important stormwater master plan effort for the City.

Why McAdams?

Founded and headquartered in North Carolina, McAdams serves a wide range of municipal clients throughout North and South Carolina, Florida, and Texas with a commitment to protecting public infrastructure and improving our environment and natural systems. With the recent acquisition of TPD Inc. operations in North and South Carolina, McAdams has a stronger presence in the Asheville region, providing us the opportunity to offer even greater service to our Western North Carolina clientele.

We care deeply about the success of each project and the communities in which we work. Our ambition extends beyond design and engineering to enhance our clients' experiences and the City's assets throughout the life cycle of a project. At McAdams, we have a penchant for selecting distinguished individuals who, together, deliver excellence in leadership, innovation, recent technical expertise, stakeholder engagement, and client experience. Our team's experience working with the City of Brevard on various transportation and planning projects, along with our expertise in stormwater management, planning, and design, positions us to deliver best-in-class service for the City.

If selected, we are committed to proactively building upon and further developing a reliable inventory of the City's existing stormwater infrastructure by investigating current system connectivity and ensuring accurate collection of infrastructure data points. This will provide the foundation for a more accurate assessment of high-level system performance. Our team recognizes the importance of a fully integrated, high-quality project ranking system that allows our clients to achieve successful projects and manage their capital outlay. Our priority is to

provide the city with a comprehensive solution that results in an employable tool for Brevard to utilize and prioritize future project implementation with minimal disruption to the surrounding community.

Lastly, our submittal will highlight several stormwater master planning projects and capital improvement projects (CIP) efforts that our team has completed in recent years. These will serve as benchmarks for this project and provide guidance in the decision-making process for the development and refinement of Brevard's own Stormwater CIP. By leveraging our team's practical knowledge of the storm drainage inventory and assessment process, along with our technical expertise in hydrologic and hydraulic modeling, we will integrate urban planning and design, public funding expertise, and environmentally focused improvements to create a meaningful and strategic CIP plan for years to come.

We truly value our firm's relationship with the City of Brevard and are committed to continuing our partnership. We look forward to the opportunity to contribute to your projects and to further strengthen our collaboration. For any additional information or questions, please contact us at the contact information below.

Sincerely,
McAdams

Chris Stanley, PE, CFM, CPESC
Practice Lead, Capital Improvements Projects
919. 801. 5806 | cstanley@mcadamsco.com

Christy Staudt, PE
Practice Lead, Active Transportation
828. 329. 5625 | cstaudt@mcadamsco.com



Pedestrian Bridge over Kings Creek, Railroad Avenue | Brevard, NC



Table of Contents

01 Introduction
PAGE i

02 Firm Information
PAGE 01

03 Management + Team Location
PAGE 03

04 Firm Experience + Qualifications
PAGE 03

05 Project Team + Resources
PAGE 04

06 Project Approach
PAGE 05

07 Schedule + Deliverables
PAGE 11

08 Previous Work with City
PAGE 13

09 Insurance
PAGE 14

10 Additional Information
PAGE 15

11 SF330 Forms
PAGE iv

Meaningful Experiences Through Inspired Design.

About Us

Cultivating planning, design, and engineering expertise since 1979.

McAdams is a full-service civil engineering, land planning, landscape architecture, transportation, and geomatics firm headquartered in Raleigh, North Carolina with offices across Florida, North Carolina, South Carolina, and Texas.

Our People

Comprised of over 500 professionals, the firm includes nearly 200 professional engineers and engineering designers, 30 registered landscape architects, 13 certified planners, 20 professional land surveyors, 10 LEED® certified professionals, eight certified floodplain managers, two certified floodplain surveyors, one certified arborist, one certified professional in erosion and sediment control, and eight FAA sUAS remote pilots.

OUR LOCATIONS
Asheville, NC
80 Charlotte Street
Suite 40
Asheville, NC 28801
919. 361. 5000

Lake Mary, FL
Palm Harbor, FL
Charlotte, NC
Durham, NC
Raleigh, NC (HQ)
Winston-Salem, NC
Greenville, SC
Lewisville, TX

FOUNDED
April 2, 1979

OUR LICENSURE
North Carolina:
NCBELS: #C-0293
NCBOLA: #C-187

TYPE OF OWNERSHIP
C-Corporation

About Our Water Resources Team

Our designs and solutions encourage a more livable, healthy, and inspired community.

Our Water Resources team is uniquely structured to provide full-service stormwater consulting services. Developing sustainable solutions to the problems we face requires a deep attentiveness to the long-term contexts of our current challenges, as well as the will to balance environmental, economic, and social elements in the design process. We work collaboratively to ensure that our solutions comprehensively meet, and often exceed, our clients' stated goals. Specifically, our services include:



- Watershed + Master Planning
- Stormwater System Inventory + Assessment
- Capital Infrastructure Planning
- Storm Drainage System Design
- Stormwater Program Management
- Dam Design
- Riverine Flooding Analysis
- Stormwater Control Measure Design + Retrofits
- Stream Restoration + Stabilization
- Mitigation Bank Planning + Design
- Green Stormwater Infrastructure
- Grant Application Support

Record of Successfully Completed Projects Without Major Legal or Technical Problems

Our commitment to excellence extends beyond the completion of successful construction projects; it encompasses the entire journey, including navigating challenges that may arise along the way. We understand that construction projects can be complex endeavors, often involving numerous stakeholders, intricate timelines, and unforeseen circumstances. As such, we are deeply committed to fostering open communication and collaboration with our clients to address any issues or disputes that may arise, including potential claims. Our approach prioritizes proactive problem-solving, seeking to identify and resolve issues swiftly and effectively to minimize disruptions and ensure project success. By embracing challenges as opportunities for growth and innovation, we demonstrate our unwavering dedication to delivering high-quality outcomes while maintaining trust and transparency with our clients every step of the way. Over the past five years, our firm has worked on over 6,000 projects. The table below represents disputes or claims filed during that time.

Client Type	CLAIM AMOUNT	ISSUE	STATUS
Community College	$30k	Contractor installation dispute	Closed Dispute
Residential Developer	$225k	Retaining and screening wall relocation	Closed Dispute
University	$200k	Sub-consultant performance standard dispute for athletic field foundation support	Closed Dispute
Commercial	$61k	Gas line utility conflict with building pad	Closed Dispute
Municipality	$50k	Existing utility damaged impacting adjacent residence	Closed Dispute

Schedule + Budgets

The McAdams team has the capacity to perform services responsively. McAdams is committed to having the staff, equipment, and resources available for the duration of this master planning effort. When McAdams undertakes a project, our goal is to meet project milestones and deadlines within the defined budgets. Frequent updates will be made by our project manager Max Grogan, PE, to City staff to ensure milestones are being completed on time or if adjustments are needed. McAdams has the resource capacity to handle both short- and long-term work. McAdams has a strong emphasis on meeting project budget and time requirements, evidenced by past projects referenced in the attached SF330 form.

Management + Team Location

This project will be led by project manager Max Grogan, PE and assistant project manager Brie Saur, PE. Max is located in our Charlotte office, approximately two hours from the City of Brevard. Brie is soon to be relocating to our Asheville office early this summer, located approximately 30 minutes from the City. Principal-in-charge Christy Staudt, PE, also leads our Asheville office and will be available throughout the duration of the project to help ensure quality and responsiveness are always met. The proposed project team members are available to begin work immediately upon notice-to-proceed. Remaining team members are located in either our Asheville, Charlotte, or Raleigh offices:

- Asheville, NC: 4
- Charlotte, NC: 6*
- Raleigh, NC: 8*
- Lewisville, TX: 1

*Additional surveying and utility design staff are available to support our Water Resources team.

Firm Experience + Qualifications

McAdams and our Water Resources Capital Projects team is a leader in stormwater master planning, and stormwater asset inventory and analysis (AIA) conditions assessment work. Over the past decade, our team has conducted a number of master planning projects, including stormwater AIAs, hydrologic and hydraulic (H+H) studies, and capital planning efforts for communities all across the State, ranging from the mountains to the coast. Detailed information is included in the SF330 form portion of this submission.

McAdams AIA + Stormwater Master Planning Experience



Project Team + Resources

Max Grogan, PE, will manage the stormwater master plan effort for the City. With over 12 years of progressive stormwater management experience, including a significant focus on municipal stormwater planning and design, Max brings a wealth of knowledge to the City of Brevard to help identify, prioritize, and assess the City's stormwater system. Under Max's guidance, McAdams has completed a number of stormwater CIP master plans, as well as those for the communities of Lillington, Apex, and Wilson, North Carolina, and has led projects in the Asheville area since joining our firm. Max provides the technical and design expertise required to solve the City's complex stormwater problems, while also understanding the constructability and efficiency needed to implement these projects in neighborhood, residential, and urban settings.

Supporting Max from the McAdams Water Resources team is a staff of highly qualified and experienced stormwater practice leaders, project managers, engineers, and designers, each capable of assisting in the analysis and assessment of the City's drainage system. Assistant project manager Brie Saur, PE, also possesses significant stormwater master planning experience, having supported Max on the projects listed above. She is highly skilled in H+H modeling, pipeline assessment, and project prioritization, having recently helped complete CIP development for the City of Greensboro's South Buffalo Creek Watershed, covering over 34 square miles of highly urbanized area.

Our team will also be supported by special advisor Chris Stanley, PE, CFM, CPESC. Chris leads our CIP Practice at McAdams which includes Max, Brie, and a team of 13 other individuals who focus on stormwater AIA work, CIP development, and drainage infrastructure projects daily. With over 20 years of experience in the municipal stormwater industry, Chris has led both public and private sector stormwater teams through numerous capital projects, including master plan studies, neighborhood retrofit projects, and floodplain analyses.

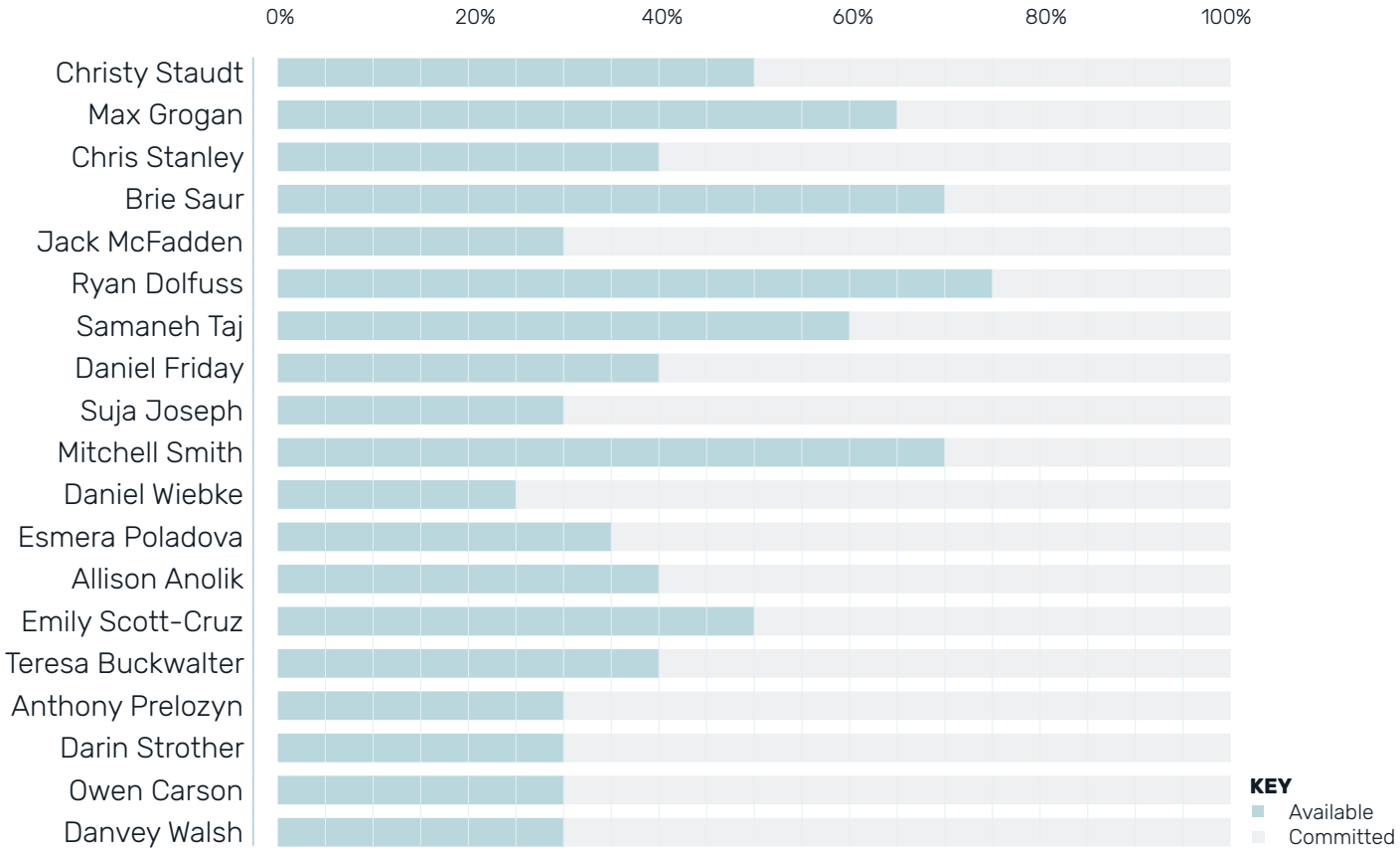
The McAdams CIP team possesses several National Association of Sewer Service Companies (NASSCO) Pipeline Assessment Certification Program (PACP®)-certified engineers, with expertise in pipeline assessments, closed circuit television (CCTV) review and coding, and problem identification. Our team is also trained and certified for confined space entry, should the need arise during field inspections.

Lastly, McAdams owns and maintains the proper and necessary equipment required for field inspections and data collection associated with this project. We utilize a Trimble DA2 GNSS receiver with a tablet data collector. Tablets on hand include either iPads or a ruggedized Archer 4 unit. The Trimble DA2 antenna is connected to an RTK Catalyst on Demand subscription with 10 cm accuracy in optimal conditions. The tablets are loaded with the ArcGIS Field Maps App and are connected to preconfigured data collection maps loaded into our McAdams ArcGIS Online platform.



CIP AIA Field Collection

Workload Chart (Key Team Members)



"The Town of Lillington has been working with McAdams for a little over two years. They have been an asset to the Town while evaluating our aged stormwater infrastructure, most recently completing an H+H Study. McAdams studied our priority areas and provided Lillington with a full assessment. The final report was organized, informational, timely, and provided the Town with a Capital Improvements Plan for the Town's Stormwater Infrastructure. Their team did an remarkable job and kept the Town informed the duration of the project. The Town looks forward to working with McAdams in the future."

Alicia Adams
Town of Lillington

Project Understanding + Background

McAdams and our project team provide a wide variety of capital stormwater project experience and resources to this Stormwater Master Plan development for the City of Brevard. Presented herein is a brief understanding and general approach for this work, as well as a range of municipal stormwater asset inventory and assessment and master plan project examples that show our depth, technical ability, and service to our clients that are very similar to the challenges and vision associated with this important City project.

Through our Asheville office's previous and on-going work with the City of Brevard, McAdams has gained an understanding of the broader trends and potential challenges faced by the City. We understand that the stormwater assessment fits within the context of a City that is quickly becoming a leader in outdoor recreation. Combined with Brevard's arts and cultural attractions, the City is poised for further growth. To do so in a way that maintains a high quality of life for residents, the City must have in place a stormwater system that is both resilient and responsive to unpredictable stormwater events. The McAdams CIP team is fully prepared to assist the City in this endeavor. Supported by leadership that has spent years developing project prioritization models and a support team fully qualified to assess stormwater infrastructure both structurally and hydraulically, McAdams provides the City of Brevard an adaptable and organized approach to help expedite this process and generate a proactive and objective Stormwater CIP plan for years to come.

Finally, our team offers a wide-range of experience in pipeline assessment, featuring staff that are NASSCO certified and trained specifically in the PACP®. We consistently perform work assessing video and photographic footage to diagnose and identify structural deficiencies, followed by ranking, prioritizing, and preparing cost-estimation for future project needs and CIP program planning. Combining this with our technical expertise for H+H modeling, capital planning, and project funding identification, our team can provide immediate depth and support to fuel this master plan effort.

Pipe Inventory, Assessment + GIS Approach

This project will first entail a significant amount of data collection, processing, organization, and assessment capability to help prepare, prioritize, and advise the City for the future of its downtown drainage infrastructure improvements. At McAdams, we have worked with a number of clients in North Carolina performing this exact type of work. Our approach to this involves a combination of field work, geographic information system (GIS) application and geodatabase creation, NASSCO pipe assessment methodology, and strategic CIP plan development. GIS data will give the City the data and information that you can build upon for future use. We will first build upon and leverage the inventory collected as part of the City's 2024 Asset Inventory and Assessment Phase 1 provided by Brevard and assess against the needs of this project. For the field data inventory collection, we will set up collection standards and protocols in ArcGIS field maps for the creation of new (or modified) geodatabases, depending on how data was collected for Phase 1. We will also work with City staff to create meaningful attribute data for features. For condition assessments, we



Pipe Structural Failure

will take detailed pipeline ratings and defect codes to build related tables that can be viewed via a GIS geodatabase. We will also catalogue CCTV inspection video and attach to the pipeline condition rating and records for the applicable features via a video link from an online library. Based on our inspections, we will incorporate findings to help with identification of urgent needs. Our team, including CIP practice leader Chris Stanley, project manager, Max Grogan, assistant project manager, Brie Saur, and Ryan Dolfuss, PE, are all NASSCO PACP® certified. Our team will apply our knowledge of this system to help develop a detailed CIP listing of needs for the City's future usage. Combined with our experience and knowledge of stormwater master planning needs and stormwater pipe conditions assessments, we will help the City to develop a scalable and sustainable plan that will serve your storm water program and drainage infrastructure needs for years to come.

PIPE + STRUCTURAL INSPECTIONS

S&ME will support the McAdams team by conducting pipe and structural inspections, performing CCTV operations, and carrying out general pipe assessments. A consistent partner with McAdams on many projects throughout the state over the years, S&ME will provide local support and boots on the ground for this initial phase of work. This includes:

- **Cleaning / CCTV:** Cleaning and video inspection will be accomplished using traditional equipment. A vacuum / jet truck will be used to clean the storm piping and/or supply water to an off-road, tracked easement machine that will be needed to clean anything located deep in the easement and off-road. Pipes will be video inspected using a self-propelled CCTV system, including a color, pan, and tilt camera; a laptop computer equipped with a digital video recorder; and inspection reporting software. Observations and defects will be logged according to the NASSCO PACP® standards. S&ME has off-road CCTV equipment to access pipes in easements and behind houses. In addition, S&ME has multiple-size camera tractors to navigate small and large-diameter pipes.



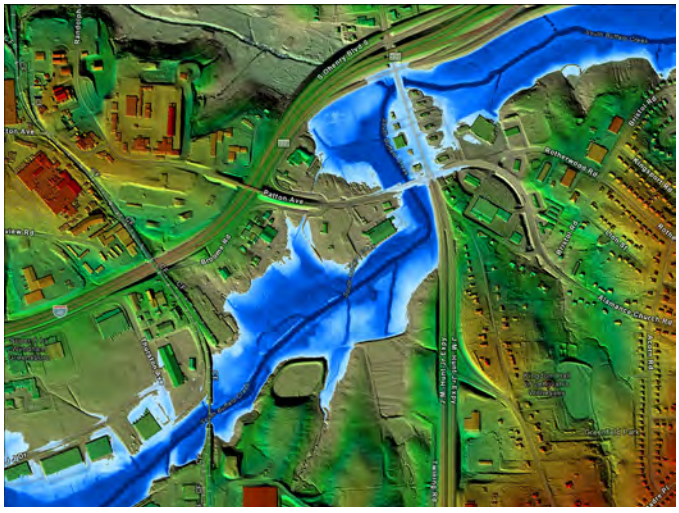
CCTV Storm Pipe Inspections

- **Structure Inspections:** Structure inspections provide a cost-effective way to inventory the stormwater system and identify pipes for additional CCTV inspection. Crews will perform a hybrid NASSCO Manhole Assessment and Certification Program (MACP) Level I storm manhole / structure inspections. S&ME's Level I inspections include pertinent details on the structure components and a scanned image of the interior of all storm structures. This approach provides adequate data for a thorough inventory and condition assessment. Structures will be scanned to inspect the interior. Structure depths and pipe invert depths will also be captured during the field inspection. This inspection system can access both on-road and off-road structures with little disturbance. A certified technician will perform a detailed inspection in the office using the scan data according to the NASSCO MACP methodology.

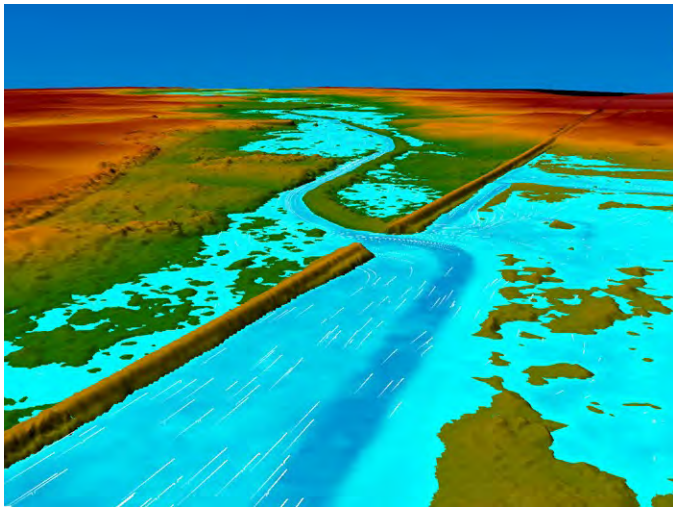
- **Zoom Camera Inspections:** Adding zoom camera inspections to the structure inspections will provide additional data on the pipes. Zoom camera inspections range in distance based upon conditions as inspections are limited by obstructions, poor pipe alignment, diameter, and other variables. However, zoom inspections are usually very effective in larger diameter storm pipes. This information can typically be used to identify immediate issues / defects in the pipes, make condition assumptions, and identify pipes for additional CCTV. This information can also eliminate pipes found in good condition from the CCTV list. This initial zoom camera screening is an efficient way to quickly look at a system and pinpoint areas requiring CCTV, thus maximizing the City's CCTV / cleaning budget. These inspections also allow us to confirm pipe diameters and materials for more accurate mapping and GIS.

H+H Modeling

McAdams' Water Resources staff utilizes a wide-array of hydrologic and hydraulic modeling software to assess complex stormwater issues and perform watershed and floodplain modeling each day. These tools are used daily to aid in better understanding the risks and impacts of potential flooding, as well as to identify future capital stormwater projects for communities to plan and budget for. Our team has expertise in all relevant Hydrologic Education Center (HEC) models, such as HEC-RAS (1D + 2D), HEC-GeoRAS and HEC-HMS. We are also working daily with software, such as PCSWMM, to analyze more complex drainage systems and basins, and provide our clients and customers with the highest level of detail to validate and confirm flooding conditions. Our expertise and skill in this area aids in providing dependable and high-quality information so that our clients can make well-informed decisions that impact their citizens and future infrastructure. We will work with the City of Brevard's staff to identify known flooding areas and hot spots, as well as utilize two-dimensional (2D) rain-on-grid assessments to identify other areas of potential concern. Combining this information with known structural issues and poor asset conditions will help generate a more comprehensive and meaningful CIP plan for future improvements.



1D Unsteady HEC-RAS Modeling Along South Buffalo Creek | Greensboro, NC



2D HEC-RAS Modeling Experience | Bladenboro, NC

Retrofit Opportunities + Green Stormwater Design



Cedar Street Green Infrastructure | Beaufort, NC

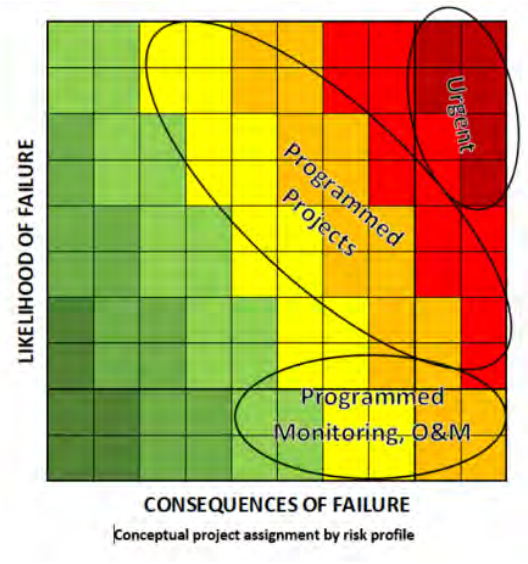
As a vibrant and growing community drawing in people from all walks of life, we understand the City is also committed to improving its drainage systems and waterways through more innovative and environmentally sensitive solutions. McAdams has a dedicated green stormwater infrastructure (GSI) practice specializing in designing nature-based and neighborhood sensitive solutions. Daniel Wiebke, PE, CFM, will lead our team, bringing regionally renowned green infrastructure experience and innovative thought leadership. Our collaboration with over 30 in-house planners and landscape architects, in addition to the comprehensive skills on the rest of our team, enables us to deliver high performing nature-based stormwater strategies, predictive models, visualizations, and planning documents that will set the City up to increase resiliency to all ranges of storm events; reduce flooding; plan for sustainability measures that integrate seamlessly into their surroundings; and provide planning guidance to minimize climate related risks to county infrastructure, private property, and key transportation links. Our resilient, nature-based designs also address water quality impairments; reduce long-term maintenance burdens; and will provide the City of Brevard with effective, equitable, and environmentally conscious improvements. Such practices may include rain gardens, permeable pavement systems, infiltration systems, habitat creation, constructed wetlands, and other nature-based features integrated into open space, pocket parks, and transportation systems.

Stormwater CIP Development

RANK + PRIORITIZE PROJECTS

Upon evaluating critical stormwater systems, the next critical phase of this project is to identify and prioritize all future capital projects. Prioritization of projects should be based on an objective, unique scoring matrix of weighted criteria (actual criteria and relative weight should be fully vetted and agreed upon by multiple stakeholders, including general public and citizen advisory committees, as well as City leadership committees). Our scoring and assessment will be mostly focused on physical characteristics of all infrastructure, and will weigh heavily based on risk and consequence of failure by each asset. Other criteria may include:

- Public health and safety;
- Flood hazard reduction benefits;
- Regulatory mandates and compliance;
- Infrastructure asset management benefits;
- Watershed management benefits; and
- Resource leveraging opportunities.



Likelihood versus Consequence Failure

DEVELOP PLANNING LEVEL COSTS

Based on the highest priority projects identified, the McAdams team will develop planning / conceptual level projects, which are aimed at addressing the City's priority needs as identified above.

For each conceptual level project identified, our team will provide probable construction costs to aid in the prioritization and programming of projects, as well as the future planning of the Stormwater CIP. We have implemented a number of projects across North Carolina and will leverage our knowledge of construction costs and unit price items to provide as accurate as possible budgetary estimates for CIP programming. Highest priority projects identified are aimed at being practical and constructible solutions that make the best use of stormwater funding.

Lastly, McAdams will provide the needed support to help advise and recommended updates to the City's Stormwater Enterprise Fund and Utility. Having worked with other communities to develop fee and rate structures, our team will examine the needs of the City from the Stormwater CIP developed and help guide Brevard on the best solutions to transition to a more equitable rate structure based on enquivalent residential unit (ERU) for all properties. A recent example of this work includes the Town of Lillington, North Carolina, where we are working with a financial partner to help structure a new stormwater utility for the Town, which will generate more capital to maintain and repair the community's highest priority stormwater needs.

DEVELOPMENT OF STORMWATER INFRASTRUCTURE OPERATION + MAINTENANCE PLAN

An important part of this master plan and CIP development effort will be the development of an operation and maintenance (O+M) plan for the existing stormwater system within the City and immediate adjacent areas. This plan will consider future development and that impact on the existing drainage system, and will consist of the following:

- For components of the system that have significant trash and/or sediment accumulation, determine the likely sources of that within the watershed, and develop a plan to minimize those impacts to the drainage system;
- Development of a routine inspection and maintenance schedule to assure the system operates at peak efficiency;
- Identification of any sources of illicit discharge into the drainage system and potential corrective action required;
- Assessment of the existing city drainage system to determine areas of the existing system require significant maintenance, repair or replacement; and
- For areas requiring repair and/or replacement, consideration will be given to future conditions flowrates within that system during design and whether drainage from adjacent overtaxed existing systems can be diverted to the replacement system to extend the existing systems useful life and level of service.

Opportunities for Funding

The McAdams team has experience successfully obtaining competitive stormwater and stream restoration funding from a variety of sources, including North Carolina Land and Water Fund; Water Resources Development Grants; Golden Long-term Economic Advancement Foundation (Golden LEAF) and North Carolina Department of Environmental Quality (NCDEQ) Clean Water Act Section 219. Integral to our approach when developing infrastructure projects is an assessment of funding needs and available funding mechanisms, including competitive grant programs, to meet those needs. A prime example

of our success in obtaining funding for GSI is the Cedar Street project in the Town of Beaufort, North Carolina. To complete this award-winning project, McAdams brought together a partnership between North Carolina Department of Transportation (NCDOT), NCDEQ, the North Carolina Coastal Federation, and the Town to obtain grants that funded 50% of the total project cost to install permeable pavement parking stalls, proposing GSI beyond the standard design guidelines, to better meet project and community goals for sustainability and resilience.

We have established ourselves as a valuable and reliable provider of grant application and administration assistance for our clients. We are familiar with, and regularly track, available Federal, State, and private funding sources, and have a proven track record of aiding our clients in securing these funds by developing grant narratives and other application materials, including maps and infographics; project scopes, schedules, and budgets; and conceptual design activities to support these elements. Once awarded, we support clients to administer funds, including financial tracking and progress reporting. We routinely prepare high-quality grant application packages and have structured our team to ensure that adequate resources are available to assess funding needs and opportunities, prepare grant application packages, and provide additional technical resources and subject matter expertise to ensure applications reflect state and national best practices for project delivery and design.

Project Schedule

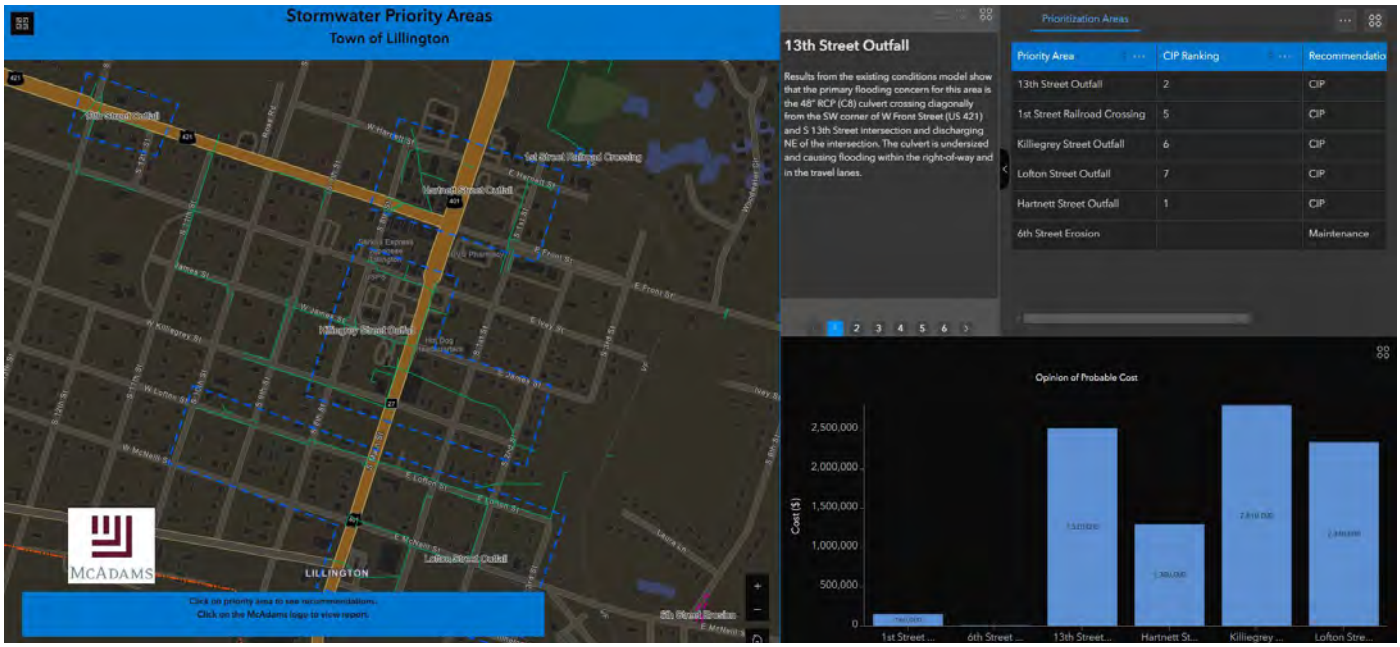
McAdams is prepared to begin work on this stormwater master plan immediately upon notice to proceed. We understand with all City projects, time is of the essence, and the City of Brevard has indicated that this work must be complete by the end of 2025. This schedule also assumes an notice-to-proceed by or before May 2025.

01 Listen + Plan	02 Data Collection	03 Evaluate + Assess	04 Identify + Prioritize
SCOPE / MILESTONES			
Kick-off Meeting Project Work Plan Scheduling Prioritize Locations	Assess Current Inventory Data Assembly Field Data Collection Update GIS Mapping Develop Geodatabase	CCTV Inspection Structural Assessment Camera Inspections Outfall Inspections Review with City H+H Modeling	ID Project Needs Score + Rank Projects Opinion of Probable Construction Costs Downtown Plan Review + Coordination Develop CIP Listing
May ‘25 - June ‘25	June ‘25 - Aug ‘25	Aug ‘25 - Nov ‘25	Nov ‘25 - Dec ‘25

Deliverables

Our final deliverables will extend beyond just a simple report. Based upon our inventory collection and identified CIP projects, McAdams will generate a stormwater AIA and CIP dashboard, accessible

through an ArcGIS webmap, which will house both the City's stormwater asset inventory (complete with conditions assessment, pictures, and reports stored within the geodatabase), as well as an organized listing of recommended stormwater CIP projects, including locations, costs, and priority ranking as determined during the master planning process. Recent examples of stormwater CIP dashboards created for our clients are shown below, including the Towns of Lillington and Apex, North Carolina. In both instances, McAdams prepared detailed pipe and structure inspections, H+H and hot spot analysis flood modeling, project identification and prioritization, cost estimates, and delivery of a full stormwater CIP. As with all of our work and deliverables, this dashboard can be fully customized to meet the needs and desires of the City of Brevard, making it a powerful resource for ongoing and internal communication to both staff and City leadership.



Stormwater CIP Dashboard | Lillington, NC



Stormwater AIA + CIP Dashboard | Apex, NC

Previous Work with the City

TPD staff, now part of McAdams, have been working with the City of Brevard for the past five years on various transportation related projects, including the following:

- **NCDOT Landscape Betterments:** Teresa Buckwalter, RLA, has led the design, construction documents, approval, and coordination with the NCDOT and its contractors to provide landscape betterments on planned and constructed roundabouts.
- **Traffic Calming On-call Services:** Christy Staudt, PE, has led this process and assisted the City of Brevard with coordination, planning, and design of projects in the City identified to alleviate speeding in neighborhoods and on City streets.
- **Review of NCDOT Statewide Transportation Improvement Program (STIP) Project R-5800 for Bicycle + Pedestrian Treatments:** Christy Staudt collaborated with Division 14 and the City of Brevard to review 60% roadway plans for R-5800 bicycle and pedestrian treatments. Christy made implementation recommendations that will better serve trail users along the City of Brevard's greenway system and will facilitate bicycle and pedestrian movement from the future Ecusta Trail to downtown Brevard.

Project Name	Date Awarded	Date Completed	Project Value
NCDOT Landscape Betterments (for roundabouts, including the following):			
STIP Project R-5799 Asheville Hwy. / Pisgah Forest Hwy.	08/2019	06/2020	-
STIP Project R-5605 Ecusta Rd. Connector / Asheville Hwy.	08/2019	06/2020	-
STIP Project R-5605 Landscape Installation Inspection	07/2021	08/2022	-
STIP Project R-5763 Wilson Rd. Roundabout	11/2021	12/2022	-
STIP Project R-5800 Asheville Hwy. (3 roundabouts)	04/2024	On-going	-
Ecusta Rd. Roundabout	04/2024	On-going	-
Total Value for Landscape Betterments			$68,775
Traffic Calming On-call Services	05/2023	On-going	$13,000
Review of R-5800 for Bicycle + Pedestrian Treatments	04/2024	08/2024	$10,500

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 2/6/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Foundation Risk Partners Corp. 8936 N Pointe Executive Park Dr, Suite 180 Huntersville NC 28078-4809	**CONTACT NAME:** Carmen Canady **PHONE (A/C, No, Ext):** 704-799-1600 **FAX (A/C, No):** **E-MAIL ADDRESS:** CertsProRisk@FoundationRP.com
INSURED JOHNRMC-02 The John R. McAdams Company, Inc. 621 Hillsborough St. Suite 500 Raleigh NC 27603	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A :** RLI Insurance Company 13056 **INSURER B :** **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 1456046090 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY CLAIMS-MADE / OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: POLICY / PRO-JECT / LOC OTHER:						EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ $ $ $ $ $
	AUTOMOBILE LIABILITY ANY AUTO OWNED AUTOS ONLY / SCHEDULED AUTOS HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ $ $ $
	UMBRELLA LIAB / OCCUR EXCESS LIAB / CLAIMS-MADE DED / RETENTION $						EACH OCCURRENCE AGGREGATE	$ $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y / N N / A					PER STATUTE / OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $
A	Professional Liability			RDP0057201	2/5/2025	2/5/2026	Each Claim Aggregate	$5,000,000 $5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

Specimen Copy

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2015 ACORD CORPORATION. All rights reserved.

ACORD 25 (2016/03) **The ACORD name and logo are registered marks of ACORD**

Cost Experience

At McAdams, we understand the importance of appropriate cost control measures and believe their successful implementation depends heavily on a high level of project management. With this in mind, McAdams has developed specific measures for cost / budget control procedures as described below. McAdams, in coordination with the City of Brevard, will prepare and review the scope of services at the outset of a project. Once the scope of work and associated fees are agreed upon, McAdams will not request an increase in fees if the negotiated scope of work does not change. Any changes in the scope of work required due to unforeseen circumstances will be discussed with the City and any increase in budget will be approved in writing prior to beginning work on the additional tasks. Any change in scope, and corresponding approval of additional fees, will be treated as an addendum to the original contract. Using addenda to modify the scope and fee for the work allows flexibility within the process and expedites the flow of work, which is especially important when unforeseen obstacles emerge during critical work periods.

Project and task costs will be reviewed on a monthly basis, and more frequently as needed, to ensure that the project is being completed within the approved budget. All staff time is entered electronically by project number and task code. Our accounting and project management software (Vantagepoint) gives the project manager a clear picture of the amount of time it is taking for staff to complete project tasks. Vantagepoint also provides a summary for each project task showing hours expended against the available budget. This feature allows our project managers to quickly review the status of a project. Any cost overruns not associated with a change in scope of work will be the responsibility of McAdams. This approach protects the City from cost overruns.

Schedule Experience

The McAdams team employs several mechanisms to ensure that a project remains on schedule, including:

- Developing and maintaining a project schedule, providing the City with up-to-date expectations, including durations and milestones for tasks;
- Holding regularly scheduled internal meetings, where all projects and associated deliverables are reviewed and staff resources are directed accordingly. We also utilize our internal project management software during these meetings to schedule resources and manage individual engineers' current and anticipated workloads;
- Communicating any scheduling changes, should they occur, in a timely manner. In the event of a delay, the remaining tasks within the project will be accelerated as required to ensure the overall schedule is not compromised;
- Conducting a minimum of one peer review and one administrative review for typographical errors and formatting for all documents produced by McAdams;
- Providing thoughtful design and clear construction documents based on past experience to minimize project delays during construction; and
- Implementing a rigorous quality assurance and quality control (QA/QC) process, where construction drawings are reviewed internally by our construction administration team and senior staff to catch issues before breaking ground.

Construction Administration Capabilities

Through our proactive Construction Administration department, if requested, the team can be involved as the City of Brevard's representative to ensure that all warranties related to site construction are fulfilled. With years of on-the-job contracting experience in our Construction Administration department, each of our plan sets is scrutinized from a contractor's perspective before going out to bid. As a member of the team, our Construction Administration department strives to add valuable engineering ideas throughout the process to create a finished product that meets or exceeds our client's expectations.

Proximity + Familiarity

Our team possesses a deep familiarity with the City of Brevard and a thorough understanding of the traffic and transportation needs that a city of this size may have. The McAdams team understands municipal processes, the importance of engaging citizens, and how downtown activities, such as festivals, seasonal tourism, and community events, can affect transportation and construction schedules. This familiarity has been garnered through past work with the City of Brevard, as well as through our local presence, which has afforded us a view from the position of a user of the transportation network.

Required Form

In compliance with solicitation, and subject to all conditions, thereof, the undersigned offers and agrees to, if this response is accepted.

Below listed Addenda (if applicable) is hereby acknowledged:

1. N/A
2. _____
3. _____
4. _____
5. _____
6. _____

Company Name: The John R. McAdams Company, Inc. (dba McAdams)

Phone: 919. 361. 5000 Fax: N/A

Address: 80 Charlotte Street, Suite 40, Asheville, NC 28801

Response signed in writing by:

Signature: _____

Printed Name: Christy Staudt, PE

Title: Practice Lead, Transportation

Response Date: 03/14/2025

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(CITY AND STATE)*

Engineering Services for Development of a Citywide 2025 Stormwater Master Plan

2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER
February 14, 2025	N/A

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Chrisy Staudt, PE
Practice Lead, Transportation

5. NAME OF FIRM

MCADAMS

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS
828. 329. 5625	919. 361. 2269	cstaudt@mcadamsco.com

C. PROPOSED TEAM
(Complete this section for the prime contractor and all key subcontractors)

	(Check) PRIME	(Check) J.V. PARTNER	(Check) SUB CONSULTANT	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	✓			MCADAMS ☑ CHECK IF BRANCH OFFICE	80 Charlotte Street, Suite 40 Asheville, NC 28801 919. 361. 5000	**Prime Consultant:** Stormwater Transportation Funding Advisory Services Urban Planning
b.			✓	**S&ME, Inc.** ☐ CHECK IF BRANCH OFFICE	3201 Spring Forest Road, Suite 120 Raleigh, NC 27616 919. 872. 2660	**Sub Consultant:** CCTV Services
c.			✓	**Equinox Environmental Consultation & Design, Inc.** ☑ CHECK IF BRANCH OFFICE	14 O'Henry Ave, Suite 206 Asheville, NC 28801 828. 253. 6856 x202	**Sub Consultant:** Environmental Assessment + GSI Support

D. ORGANIZATIONAL CHART OF PROPOSED TEAM ✔ *(Attached)*

City of Brevard

PROJECT LEADERSHIP

Principal-in-Charge



Christy Staudt
PE *(Asheville, NC)*

Project Manager



Max Grogan*
PE *(Charlotte, NC)*

Special Advisor



Chris Stanley*
PE, CFM, CPESC *(Raleigh, NC)*

PRIME CONSULTANT

Assistant Project Manager



Brie Saur*
PE *(Raleigh, NC)*

H+H Modeling



Samaneh Taj
(Charlotte, NC)

- Daniel Friday *(Raleigh, NC)*

GIS Mapping + Support



Suja Joseph
(Lewisville, TX)

- Mitchell Smith *(Raleigh, NC)*

Asset Inventory + Inspection Team



Jack McFadden
PE *(Charlotte, NC)*

- Ryan Dolfuss PE* *(Charlotte, NC)*
- Brie Saur PE* *(Raleigh, NC)*

Retrofit + GSI Support



Daniel Wiebke
PE, CFM *(Raleigh, NC)*

- Esmera Poladova *(Charlotte, NC)*

CIP Prioritization + Cost Estimating



Ryan Dolfuss
PE* *(Charlotte, NC)*

Transportation Planning Support



Christy Staudt
PE *(Asheville, NC)*

Funding Advisory Services



Allison Anolik
(Raleigh, NC)

- Emily Scott-Cruz AICP *(Charlotte, NC)*

Urban Planning Support



Teresa Buckwalter
RLA *(Asheville, NC)*

SUB-CONSULTANTS

CCTV Services (S&ME)



Anthony Prelozny
(Raleigh, NC)

- Darin Strother *(Raleigh, NC)*

Environmental Assessment + GSI Support (Equinox)



Owen Carson
(Asheville, NC)

- Danvey Walsh *(Asheville, NC)*

*NASSCO PACP® CERTIFIED

- Chris Stanley
- Brie Saur
- Max Grogan
- Ryan Dolfuss

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
CHRISTY STAUDT PE Practice Lead, Transportation	Principal-in-Charge	26	<1

15. FIRM NAME AND LOCATION *(City and State)*

McAdams: Asheville, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
B.S. in Civil Engineering Systems, University of Pennsylvania	Professional Engineer (PE): NC #045387; SC #35566

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

ITE; Association of Pedestrian and Bicycle Professionals; Women's Transportation Seminar (WTS)

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*

1st St. E. + W. Corridor Study + Design Project (C-5624)
Conover, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Project Manager	6 miles	$2.654 M

As the prime consultant project manager, Christy assisted the City of Conover with a Locally Administered Projects Program (LAPP) project to design roadway modifications for improved safety and reduced congestion in the downtown corridor.

b.

(1) TITLE AND LOCATION *(City and State)*

Ecusta Rail-to-Trail, Phase 1 (BL-0007)
Henderson County, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	2025

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Traffic Lead	6 miles	$175,000

Christy led the traffic design for a six-mile segment of the Ecusta Rail-to-Trail project, overseeing tasks from planning to final PS+E, including roadway assessments, signal designs, and community engagement.

c.

(1) TITLE AND LOCATION *(City and State)*

Patton Avenue, Corridor Study
Asheville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2024	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Deputy Project Manager	1.2 miles	$220,000

Christy led the land use and transportation study as deputy project manager and TPD lead, focusing on corridor analysis, intersection improvements, and multimodal recommendations.

d.

(1) TITLE AND LOCATION *(City and State)*

Charlotte Street, Road Diet + Spot Safety Improvements
Asheville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2020

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Project Manager	3,000 feet	$168,000

Christy led the design to convert a four-lane road to three lanes with bike lanes and improved pedestrian access, focusing on safety and traffic analysis, signage, and pedestrian upgrades along a 3,000-foot corridor.

e.

(1) TITLE AND LOCATION *(City and State)*

South Main Street, Protected Bike Lane
Hendersonville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2024	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Project Manager	1,500 feet	$44,500

Completed plans for South Main Street's resurfacing, adding a road diet and two-way cycle track to link downtown with the future Ecusta Trail, including bicycle facilities, parking, Americans with Disabilities Act (ADA), and signal modifications.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
MAX GROGAN PE Project Manager, Water Resources	Project Manager	12	2

15. FIRM NAME AND LOCATION *(City and State)*

McAdams: Charlotte, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
B.S. in Civil Engineering, University of South Carolina, Columbia	PE: NC #047333; SC #35802 NASSCO Cert. P0041950-032023

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*

Townwide Hydrologic + Hydraulic Analysis
Lillington, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Project Manager	2 square miles	$225,000

McAdams conducted a comprehensive H+H analysis for the Town of Lillington, funded by the Golden LEAF Foundation, to evaluate and prioritize stormwater issues and develop a capital improvement program in collaboration with Town staff and stakeholders.

b.

(1) TITLE AND LOCATION *(City and State)*

Municipal Golf Course, Stormwater Assessment
Asheville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	2024

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Project Engineer	18-hole course	$27,300

The Asheville Parks and Recreation department engaged McAdams to assess and prioritize repairs for the failing storm drainage infrastructure at the historic 18-hole Donald Ross course, which included drainage inventory, video assessment, and NAASCO PACP® scoring.

c.

(1) TITLE AND LOCATION *(City and State)*

Magnolia-Winthrop, Storm Drainage Improvements
Charlotte, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2020	2025 (est.)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Project Manager	50-acre watershed	$499,000

McAdams collaborated with the City of Charlotte to conduct a basin analysis addressing flooding and roadway drainage issues along Winthrop Avenue, just south of its intersection with Magnolia Avenue.

d.

(1) TITLE AND LOCATION *(City and State)*

Stormwater AIA
Wilson, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Project Manager	0.7 square mile	$400,000

McAdams has partnered with the City of Wilson to conduct a stormwater asset and condition assessment within the Downtown Management Area, focusing on approximately 780 structures and 66,000 linear feet of pipe whose conditions and specifications are largely unknown.

e.

(1) TITLE AND LOCATION *(City and State)*

Carter-Ann-Patton Street, Storm Drainage Improvements
Asheville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2019	2025 (est.)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Project Engineer	1,200 linear feet	$270,000

Localized flooding at Carter Street, Patton Avenue, and North Ann Street was due to a failed storm drainage outfall, which McAdams addressed by enhancing the system and collaborating with the City on construction solutions.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
CHRIS STANLEY PE, CFM, CPESC Practice Lead, CIP	Special Advisor	21	8

15. FIRM NAME AND LOCATION *(City and State)*

McAdams: Raleigh, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
B.S. in Civil Engineering, NC State University M.C.E., NC State University	PE: NC #033735 | CFM: NC #09-0340 | CPESC: #00006453 | NASSCO Cert.: U-0420-70309323

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

NC APWA, Stormwater Division, Past-President; North Carolina Association of Floodplain Managers

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*

Townwide Hydrologic + Hydraulic Analysis
Lillington, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2023 | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Principal-in-Charge	2 square miles	$225,000

McAdams conducted a comprehensive hydrologic and hydraulic analysis for the Town of Lillington, funded by the Golden LEAF Foundation, to evaluate and prioritize stormwater issues and develop a capital improvement program in collaboration with Town staff and stakeholders.

b.

(1) TITLE AND LOCATION *(City and State)*

Bladen County Storm Drainage Analysis
Bladen County, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2023 | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Project Manager	Varies by Municipality	$524,000

McAdams conducted a watershed study and storm drainage analysis for several municipalities in Bladen County, including Bladenboro, Elizabethtown, Dublin, Clarkton, and White Lake, to assess drainage systems, identify deficiencies, and develop stormwater CIP by leading the H+H modeling process.

c.

(1) TITLE AND LOCATION *(City and State)*

South Buffalo Creek, Watershed Master Plan Study
Greensboro, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2025 | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Project Manager	33 square miles	$1,621,191

McAdams is finalizing a watershed master plan for South Buffalo Creek's basin, analyzing tributaries and FEMA-regulated streams with updated models to assess conditions and climate-change scenarios, resulting in a planning document for Greensboro's stormwater infrastructure.

d.

(1) TITLE AND LOCATION *(City and State)*

Stormwater AIA
Wilson, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: On-going | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Principal-in-Charge	0.7 square mile	$400,000

McAdams has partnered with the City of Wilson to conduct a stormwater asset and condition assessment within the Downtown Management Area, focusing on approximately 780 structures and 66,000 linear feet of pipe whose conditions and specifications are largely unknown.

e.

(1) TITLE AND LOCATION *(City and State)*

13th Street Culvert Replacement
Lillington, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2024 | CONSTRUCTION *(if applicable)*: 2026 (est.)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Project Manager	1-square mile basin	$124,400

In September 2023, McAdams completed an H+H assessment for Lillington, leading to a 10-year CIP plan that includes replacing a failing 60-inch CMP culvert at a private reservoir, with construction expected in second 2025.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
BRIE SAUR PE Project Engineer	Assistant Project Manager	6	6

15. FIRM NAME AND LOCATION *(City and State)*

McAdams: Raleigh, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
B.S. in Biological + Agricultural Engineering, NC State University	PE: NC #058343 | NASSCO PACP® Cert.: #P0041951-032023

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

APWA Young Professionals

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*

13th Street Culvert Replacement
Lillington, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2024	2026 (est.)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Engineer	1-square mile basin	$124,400

In September 2023, McAdams completed an H+H assessment for Lillington, leading to a 10-year CIP plan that includes replacing a failing 60-inch CMP culvert at a private reservoir, with construction expected in second 2025.

b.

(1) TITLE AND LOCATION *(City and State)*

Townwide Hydrologic + Hydraulic Analysis
Lillington, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Engineer	2 square miles	$225,000

McAdams conducted a comprehensive H+H analysis for the Town of Lillington, funded by the Golden LEAF Foundation, to evaluate and prioritize stormwater issues and develop a capital improvement program in collaboration with Town staff and stakeholders.

c.

(1) TITLE AND LOCATION *(City and State)*

Bladen County Storm Drainage Analysis
Bladen County, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Engineer	Varies by Municipality	$524,000

McAdams conducted a watershed study and storm drainage analysis for several municipalities in Bladen County, including Bladenboro, Elizabethtown, Dublin, Clarkton, and White Lake, to assess drainage systems, identify deficiencies, and develop stormwater CIP by leading the H+H modeling process.

d.

(1) TITLE AND LOCATION *(City and State)*

South Buffalo Creek, Watershed Master Plan Study
Greensboro, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2025	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Engineer	33 square miles	$1,621,191

McAdams is finalizing a watershed master plan for South Buffalo Creek's basin, analyzing tributaries and FEMA-regulated streams with updated models to assess conditions and climate-change scenarios, resulting in a planning document for Greensboro's stormwater infrastructure.

e.

(1) TITLE AND LOCATION *(City and State)*

Magnolia-Winthrop, Storm Drainage Improvements
Charlotte, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2020	2025 (est.)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Designer	50-acre watershed	$499,000

McAdams collaborated with the City of Charlotte to conduct a basin analysis addressing flooding and roadway drainage issues along Winthrop Avenue, just south of its intersection with Magnolia Avenue.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
JACK MCFADDEN PE Project Manager	Asset Inventory + Insepction TeamLead	12	1

15. FIRM NAME AND LOCATION *(City and State)*

McAdams: Charlotte, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
M.S. in Environmental Science in Hydrology + Water Security, University of Oklahoma (in-progress)	PE: NC #49941

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*

Townwide Hydrologic + Hydraulic Analysis
Lillington, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Engineer	2 square miles	$225,000

McAdams conducted a comprehensive hydrologic and hydraulic analysis for the Town of Lillington, funded by the Golden LEAF Foundation, to evaluate and prioritize stormwater issues and develop a capital improvement program in collaboration with Town staff and stakeholders.

b.

(1) TITLE AND LOCATION *(City and State)*

Stormwater AIA
Hamlett, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Manager	+/- 5 square miles	$270,000

McAdams and LKC Engineering are gathering data for the City of Hamlet's downtown storm drainage network, funded by the LASII Program. The project includes H+H evaluations, NASCCO PACP® pipe assessments, public outreach, and infrastructure planning.

c.

(1) TITLE AND LOCATION *(City and State)*

Stormwater AIA
Mount Gilead, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Manager	Citywide	$238,000

McAdams collaborated on locating and collecting data for the Town's downtown storm drainage network, funded by the North Carolina LASII Program. We will assess the network's condition and capacity and assist the Town in developing a CIP program for future infrastructure upgrades.

d.

(1) TITLE AND LOCATION *(City and State)*

AIA + Utility Study
Lillington, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Manager	4 square miles	$500,000

McAdams has been chosen by the Town of Lillington to conduct a stormwater inventory and condition assessment, and implement a utility fee. Funded by a Division of Water Infrastructure grant, the project includes asset inventory, updating capital projects, a feasibility study, and implementation assistance.

e.

(1) TITLE AND LOCATION *(City and State)*

Stormwater Master Plan
Huntersville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Manager	0.5 square mile	$225,000

McAdams is preparing a stormwater asset inventory, conditions assessment, and master plan for a portion of downtown Huntersville, including regional SCM planning.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
RYAN DOLFUSS PE Project Engineer	Asset Inventory + Inspection Team Support	5	3

15. FIRM NAME AND LOCATION *(City and State)*
McAdams: Charlotte, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
B.S. in Civil Engineering, Purdue University	PE: NC #059050 | NASSCO Certification: P0041952-032023

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Stormwater AIA
Hamlett, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Project Engineer	+/- 5 square miles	$270,000

McAdams and LKC Engineering are gathering data for the City of Hamlet's downtown storm drainage network, funded by the LASII Program. The project includes hydrologic and hydraulic evaluations, NASCCO PACP® pipe assessments, public outreach, and infrastructure planning.

b.

(1) TITLE AND LOCATION *(City and State)*
Municipal Golf Course, Stormwater Assessment
Asheville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2024	2024

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Designer	18-hole course	$27,300

The Asheville Parks and Recreation department engaged McAdams to assess and prioritize repairs for the failing storm drainage infrastructure at the historic 18-hole Donald Ross course, which included drainage inventory, video assessment, and NAASCO PACP® scoring.

c.

(1) TITLE AND LOCATION *(City and State)*
Carter-Ann-Patton Street, Storm Drainage Improvements
Asheville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2024	2025 (est.)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Designer	1,200 linear feet	$270,000

Localized flooding at Carter Street, Patton Avenue, and North Ann Street was due to a failed storm drainage outfall, which McAdams addressed by enhancing the system and collaborating with the City on construction solutions.

d.

(1) TITLE AND LOCATION *(City and State)*
Stormwater Systems Condition
Apex, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Designer	4.4 square miles	$461,300

McAdams is leading this effort for the Town by providing a detailed asset inventory and inspection of the Town's stormwater system, as well as creating an O+M plan for public works staff and generating a prioritized ranking system to identify the Town's most critical capital stormwater needs.

e.

(1) TITLE AND LOCATION *(City and State)*
Magnolia-Winthrop, Storm Drainage Improvements
Charlotte, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2020	2025 (est.)

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Designer	50-acre watershed	$499,000

McAdams collaborated with the City of Charlotte to conduct a basin analysis addressing flooding and roadway drainage issues along Winthrop Avenue, just south of its intersection with Magnolia Avenue.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
SAMANEH TAJ Designer III	H+H Modeling Lead	10	<1

15. FIRM NAME AND LOCATION *(City and State)*
McAdams: Charlotte, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
M.S. in Civil + Environmental Engineering, UNC Charlotte	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Stormwater AIA
Hamlett, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☐ Check if project performed with current firm

Role	Size	Cost
Designer	+/- 5 square miles	$270,000

McAdams and LKC Engineering are gathering data for the City of Hamlet's downtown storm drainage network, funded by the LASII Program. The project includes H+H evaluations, NASCCO PACP® pipe assessments, public outreach, and infrastructure planning.

b.

(1) TITLE AND LOCATION *(City and State)*
AIA + Utility Study
Lillington, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Designer	4 square miles	$500,000

McAdams has been chosen by the Town of Lillington to conduct a stormwater inventory and condition assessment, and implement a utility fee. Funded by a Division of Water Infrastructure grant, the project includes asset inventory, updating capital projects, a feasibility study, and implementation assistance.

c.

(1) TITLE AND LOCATION *(City and State)*
GIS Stormwater Update + On-going Database
Hope Mills, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2025 (est.)	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Project Engineer	Varies	$14,000

McAdams is providing on-going GIS support services to the Town of Hope Mills for stormwater inventory updates, based on recent as-built submittals, as well as online mapping maintenance.

d.

(1) TITLE AND LOCATION *(City and State)*
Stormwater Master Plan
Huntersville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Project Engineer	0.5 square mile	$225,000

McAdams is preparing a stormwater asset inventory, conditions assessment, and master plan for a portion of downtown Huntersville, including regional SCM planning.

e.

(1) TITLE AND LOCATION *(City and State)*
Stormwater AIA
Mount Gilead, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

☑ Check if project performed with current firm

Role	Size	Cost
Project Manager	Citywide	$238,000

McAdams collaborated on locating and collecting data for the Town's downtown storm drainage network, funded by the North Carolina LASII Program. We will assess the network's condition and capacity and assist the Town in developing a CIP program for future infrastructure upgrades.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
DANIEL WIEBKE PE, CFM GSI, Practice Lead	Retrofit + GSI Support	13	6

15. FIRM NAME AND LOCATION *(City and State)*

McAdams: Raleigh, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Master of Biological + Agricultural Engineering, NC State University	PE: NC #043300 | CFM: #14-0542 | Stormwater SCM Inspection + Maintenance Cert.: #2507

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

ACEC 2024 Water + Environment Project Grand Award

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*

NCDOT, Hydraulics Unit Strategic Plan
Raleigh, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Project Manager	Size	N/A	Cost	N/A

McAdams developed a Strategic Plan for NCDOT's Hydraulics Unit to enhance efficiency, recruit talent, modernize workflows, and maintain a strong workplace culture by analyzing their current structure and gathering team feedback.

b.

(1) TITLE AND LOCATION *(City and State)*

Bladen County Storm Drainage Analysis
Bladen County, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Project Manager	Size	Varies by Municipality	Cost	$524,000

McAdams conducted a watershed study and storm drainage analysis for several municipalities in Bladen County, including Bladenboro, Elizabethtown, Dublin, Clarkton, and White Lake, to assess drainage systems, identify deficiencies, and develop stormwater CIP by leading the H+H modeling process.

c.

(1) TITLE AND LOCATION *(City and State)*

South Buffalo Creek, Watershed Master Plan Study
Greensboro, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2025	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Technical Advisor	Size	33 square miles	Cost	$1,621,191

McAdams is finalizing a watershed master plan for South Buffalo Creek's basin, analyzing tributaries and FEMA-regulated streams with updated models to assess conditions and climate-change scenarios, resulting in a planning document for Greensboro's stormwater infrastructure.

d.

(1) TITLE AND LOCATION *(City and State)*

Cedar Street, GSI
Beaufort, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Project Manager	Size	4 Intersections	Cost	$145,000

The new bridge linking Morehead City and Beaufort has revitalized Cedar Street's eastern section. NCDOT upgraded utilities and added GSI to improve water quality and reduce flooding. McAdams designed features like bioretention areas and permeable pavement to minimize surface runoff.

e.

(1) TITLE AND LOCATION *(City and State)*

Winthrop Drive + Windberry Street
Raleigh, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2020	2020

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Project Engineer	Size	Varies	Cost	$65,100

McAdams is conducting flood mitigation analyses and recommendations for the City of Raleigh, focusing on an undersized culvert on Winthrop Drive and a drainage system on Windberry Street, both causing property flooding issues.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
ALLISON ANOLIK Funding Advisory Services Lead	Funding Advisory Services Lead	19	2

15. FIRM NAME AND LOCATION *(City and State)*

McAdams: Raleigh, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
B.A. in Geography, University of Mary Washington	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

ULI Triangle Transportation; Land Use Action Committee Co-chair; ACEC NC Multimodal Committee

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*

Cedar Street, GSI
Beaufort, NC

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	2023

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Funding Specialist	4 Intersections	$145,000

The new bridge linking Morehead City and Beaufort has revitalized Cedar Street's eastern section. NCDOT upgraded utilities and added GSI to improve water quality and reduce flooding. McAdams designed features like bioretention areas and permeable pavement to minimize surface runoff.

b.

(1) TITLE AND LOCATION *(City and State)*

SAND: PROTECT Grant
Dare County, NC

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Project Manager	11 miles	$75,500

The PROTECT grant application seeks funding for a planning and environmental linkages (PEL) study to enhance resiliency and streamline future project development on NC 12 in Dare County, with McAdams providing comprehensive support.

c.

(1) TITLE AND LOCATION *(City and State)*

Equitable + Green Infrastructure Retrofit Project
Durham, NC

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Funding Specialist	Citywide	$1 M

This project involves conducting a basin study to design stormwater retrofits and restorations in designated neighborhoods, including planning, public outreach, assessing drainage networks, and identifying opportunities for SCMs and stream restorations.

d.

(1) TITLE AND LOCATION *(City and State)*

Engineered Wetland
Mount Holly, NC

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2024	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Funding Specialist	1.6 acres	$200 k

The project involves creating an engineered wetland near Ida Ranking Elementary to mitigate flooding, enhance water quality, offer educational opportunities, and includes a funding scan for grants and loans.

e.

(1) TITLE AND LOCATION *(City and State)*

Mahaley Branch Stream Restoration
Salisbury, NC

(2) YEAR COMPLETED	
PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
On-going	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Funding Specialist	39,000 linear feet	$36 k

McAdams conducted a Feasibility Study and provided grant writing services to help the City secure funding for the Mahaley Branch corridor from the North Carolina Land and Water Fund and FEMA.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
SUJA JOSEPH GIS Manager	GIS Mapping + Support	28	4

15. FIRM NAME AND LOCATION *(City and State)*
McAdams: Lewisville, TX

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
B. Envir. Des., Texas A&M University	

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Stormwater AIA
Hamlett, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: On-going | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm: ☐

Role	Size	Cost
GIS Specialist	+/- 5 square miles	$270,000

McAdams and LKC Engineering are gathering data for the City of Hamlet's downtown storm drainage network, funded by the LASII Program. The project includes H+H evaluations, NASCCO PACP® pipe assessments, public outreach, and infrastructure planning.

b.

(1) TITLE AND LOCATION *(City and State)*
Townwide Hydrologic + Hydraulic Analysis
Lillington, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2023 | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm: ☑

Role	Size	Cost
GIS Specialist	2 square miles	$225,000

McAdams conducted a comprehensive H+H analysis for the Town of Lillington, funded by the Golden LEAF Foundation, to evaluate and prioritize stormwater issues and develop a capital improvement program in collaboration with Town staff and stakeholders.

c.

(1) TITLE AND LOCATION *(City and State)*
South Buffalo Creek, Watershed Master Plan Study
Greensboro, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: 2025 | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm: ☑

Role	Size	Cost
GIS Specialist	33 square miles	$1,621,191

McAdams is finalizing a watershed master plan for South Buffalo Creek's basin, analyzing tributaries and FEMA-regulated streams with updated models to assess conditions and climate-change scenarios, resulting in a planning document for Greensboro's stormwater infrastructure.

d.

(1) TITLE AND LOCATION *(City and State)*
Stormwater Systems Condition
Apex, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: On-going | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm: ☐

Role	Size	Cost
GIS Specialist	4.4 square miles	$461,300

McAdams is leading this effort for the Town by providing a detailed asset inventory and inspection of the Town's stormwater system, as well as creating an O+M plan for public works staff and generating a prioritized ranking system to identify the Town's most critical capital stormwater needs.

e.

(1) TITLE AND LOCATION *(City and State)*
Stormwater AIA
Wilson, NC

(2) YEAR COMPLETED — PROFESSIONAL SERVICES: On-going | CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

Check if project performed with current firm: ☑

Role	Size	Cost
GIS Specialist	0.7 square mile	$400,000

McAdams has partnered with the City of Wilson to conduct a stormwater asset and condition assessment within the Downtown Management Area, focusing on approximately 780 structures and 66,000 linear feet of pipe whose conditions and specifications are largely unknown.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
TERESA BUCKWALTER RLA Senior Landscape Architect	Urban Planning Support	21	<1

15. FIRM NAME AND LOCATION *(City and State)*
McAdams: Asheville, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
Masters in Landscape Architecture, The University of Michigan	Registered Landscape Architect (RLA): NC #1702; SC #1709; VA #001969

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Brevard Highway 64 Roundabout Landscape Betterment
Brevard, NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES: On-going; CONSTRUCTION *(if applicable)*: On-going

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ✔ Check if project performed with current firm

Role	Size	Cost
Landscape Architect	2 miles	$1.5 M

Teresa is leading the ongoing landscape betterments and gateway design for US 64 to Brevard, NC, incorporating themes from Pisgah National Forest and Davidson River, with construction anticipated to begin in summer 2025.

b.

(1) TITLE AND LOCATION *(City and State)*
Ecusta Rail-to-Trail, Phase 3 (BF-0002)
Transylvania County, NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES: 2024; CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ✔ Check if project performed with current firm

Role	Size	Cost
Landscape Architect	6 miles	$730,000

Teresa provided landscape architecture and community engagement services for the Ecusta Trail's 30% design phase under the NCDOT Western Division LSC, covering trail development, modeling, analysis, inspections, safety, and public involvement.

c.

(1) TITLE AND LOCATION *(City and State)*
Saluda Grade Trail, Feasibility Study
Various Locations, NC + SC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES: 2024; CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Role	Size	Cost
Project Manager	31 miles	$212,000

As project manager for the 31-mile Saluda Grade Rail Trail feasibility study, Teresa led a team to analyze conditions and develop recommendations, cost estimates, and funding strategies.

d.

(1) TITLE AND LOCATION *(City and State)*
Integrated Mobility Division LSC (2018 + 2020)
Statewide NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES: On-going; CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ✔ Check if project performed with current firm

Role	Size	Cost
Mulitmodal Planner	Statewide	Varies

Since 2018, McAdams, including TPD staff (now part of McAdams), completed 36 NCDOT IMD projects, led content standards creation, conducted nine feasibility studies, assisted with five federal grants, performed two compliance reviews, and developed a mobility hub study, all with positive feedback.

e.

(1) TITLE AND LOCATION *(City and State)*
Connect Catawba Bicycle + Pedestrian Plan
Catawba, NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES: 2022; CONSTRUCTION *(if applicable)*: N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Role	Size	Cost
Mulitmodal Planner	Townwide	$45,000

Teresa led the Town of Catawba's Bicycle and Pedestrian Plan, managing community engagement, mapping, and project development, and directed staff in creating visual renderings and a summary of the plan.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
OWEN CARSON Senior Ecologist, Environ. Prof.	Environmental Assessment + GSI Support	14	14

15. FIRM NAME AND LOCATION *(City and State)*
Equinox: Raleigh, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
B.S. in Environmental Sciences, Minor in Geology, Brevard College	Certified Associate Ecologist, Ecological Society of America; North Carolina Association of Environmental Professionals

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Silverline Park
Woodfin, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2022	2022

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Ecological Assessment	5.4 acres	$310,575

Equinox designed a community park along the French Broad River for resiliency utilizing green infrastructure and innovative SCMs. The project features constructed wetlands, restoration of an existing wetland, and grading to allow natural flood cycles of the river to minumize impacts.

b.

(1) TITLE AND LOCATION *(City and State)*
Willow Pond at the North Carolina Arboretum
Buncombe County, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2020	2020

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Ecological Assessment	12 acres	$78,800

This project located at the North Carolina Arboretum received an award for integrating stormwater design into an experiential outdoor classroom and habitat creation for the rare mole salamander.

c.

(1) TITLE AND LOCATION *(City and State)*
Riverside Park + Whitewater
Woodfin, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2024	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Ecological Assessment	6.7 acres	$543,509

Equinox designed this park project to include nature based and green infrastructure design. Equinox also provided interpretive educational signage and environmental permitting for a whitewater wave that is being constructed in the French Broad River.

d.

(1) TITLE AND LOCATION *(City and State)*
New Belgium Brewing, Green Infrastructure Projects
Asheville, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
N/A	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Environmental Assessment	20 acres	$67,450

Equinox led the stream restoration and green infrastructure design for New Belgium Brewing's East Coast Brewery, implementing a model stormwater treatment system with stream restoration, wetlands, and green infrastructure, setting a precedent for Asheville, North Carolina.

e.

(1) TITLE AND LOCATION *(City and State)*
Jones Ridge Conv. Center + Cranberry Bog Nature Park
Burke County, NC

(2) YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION *(if applicable)*
2023	N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE

✔ Check if project performed with current firm

Role	Size	Cost
Ecological Design	9.5 acres	$127,630

Equinox designed this park project to include nature based and green infrastructure design. Equinox also provided interpretive educational signage and environmental permitting for a whitewater wave that is being constructed in the French Broad River.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each person)

12. NAME AND TITLE	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		a. TOTAL	b. WITH CURRENT FIRM
DANVEY WALSH Environmental Scientist	Environmental Assessment + GSI Support	15	9

15. FIRM NAME AND LOCATION *(City and State)*
Equinox: Raleigh, NC

16. EDUCATION *(Degree and Specialization)*	17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*
M.S. in Environmental Chemistry, Western Carolina University	N/A

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

19. RELEVANT PROJECTS

a.

(1) TITLE AND LOCATION *(City and State)*
Scotts Creek Watershed Plan
Sylva, NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2019 | CONSTRUCTION *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ✔ Check if project performed with current firm

Role	Project Manager	Size	53 square miles	Cost	$73,358

Equinox devised a plan to manage stormwater runoff in the Scotts Creek Watershed, targeting improved water quality, and the removal of Scotts Creek from North Carolina's 303(d) list. A major project was the bioretention area at Bridge Park in Sylva, completed in 2024.

b.

(1) TITLE AND LOCATION *(City and State)*
Greenius Way In-fill, LID Green Infrastructure
Asheville, NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2024 | CONSTRUCTION *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ✔ Check if project performed with current firm

Role	GIS	Size	4.3 acres	Cost	$71,587

Equinox planned, designed and permitted a 17 lot, 4.3 acres LID and net-zero carbon in-fill development off of Emma Road in Asheville. The plan utilizes a low profile and curbless road cross-section and diverts all road water and roof water into bioswales and drop pools running along the road.

c.

(1) TITLE AND LOCATION *(City and State)*
Riverside Park + Whitewater
Woodfin, NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2024 | CONSTRUCTION *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ✔ Check if project performed with current firm

Role	GIS + Hydrologic Modeling	Size	6.7 acres	Cost	$543,509

Equinox designed this park project to include nature based and green infrastructure design. Equinox also provided interpretive educational signage and environmental permitting for a whitewater wave that is being constructed in the French Broad River.

d.

(1) TITLE AND LOCATION *(City and State)*
Jones Ridge Conv. Center + Cranberry Bog Nature Park
Burke County, NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2023 | CONSTRUCTION *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Role	GIS + Hydrologic Modeling	Size	9.5 acres	Cost	$127,630

Equinox designed this park project to include nature based and green infrastructure design. Equinox also provided interpretive educational signage and environmental permitting for a whitewater wave that is being constructed in the French Broad River.

e.

(1) TITLE AND LOCATION *(City and State)*
Buncombe County Schools, Stormwater Inspections
Buncombe County, NC

(2) YEAR COMPLETED: PROFESSIONAL SERVICES 2024 | CONSTRUCTION *(if applicable)* N/A

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — ☐ Check if project performed with current firm

Role	Inspections	Size	Countywide	Cost	$11,086

Equinox provides yearly monitoring of stormwater measures throughout the Buncombe County Schools properties. A report includes recommended actions to improve the function of the stormwater systems.

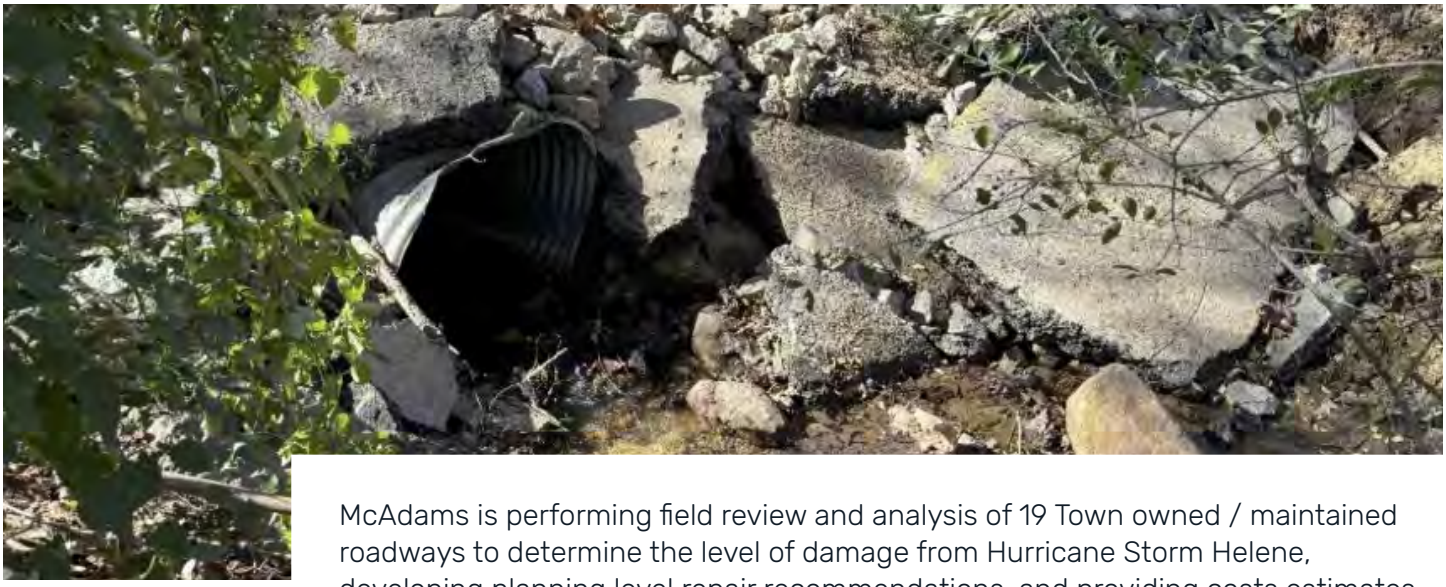
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 1

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Helene Recovery Assistance Black Mountain, NC	On-going	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Black Mountain	Jessica Trotman	828. 419. 9300 x 370

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



McAdams is performing field review and analysis of 19 Town owned / maintained roadways to determine the level of damage from Hurricane Storm Helene, developing planning level repair recommendations, and providing costs estimates. The team observed and categorized three types of storm-related roadway damage. First is Repair Inspection, where the team inspected areas where the Town made repairs to determine if the repairs were sufficient. Second is Field Managed Construction, which captures repairs made by Town staff yet are sill in need of additional repairs to return the roadway to operational service. Lastly, Roadway Design where the severity of damage will require fully engineered design plans to return to full function. The team used NCDOT unit bid price historical data to develop repair cost estimates for each roadway segment to assist the Town in submitting required information to Federal Emergency Management Agency (FEMA) for funding and reimbursement. The project was completed and submitted on time and within budget to the Town.

PROJECT DATES
11/2024 (awarded)
03/2025 (completed)

REFERENCE
Jessica Trotman
828. 419. 9300 x 370
jessica.trotman@tobm.org

PROJECT COSTS
Construction
$2,260,000
McAdams' Fee:
$22,000

PROJECT SIZE
Townwide

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (senior project manager); Max Grogan, PE (project engineer); Ryan Dolfuss, PE (designer); Brie Saur, PE (project engineer)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Asheville, NC	Stormwater Asset Inspection; Emergency Repair Needs Assess.; Const. Cost Est.

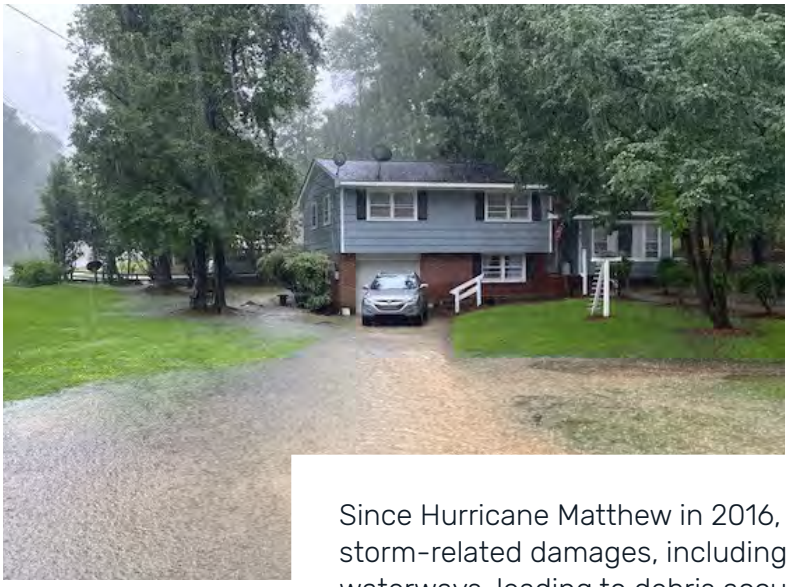
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 2

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Townwide H+H Analysis Lillington, NC	2023	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Lillington	Alicia Adams	910. 893. 2654

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*





Since Hurricane Matthew in 2016, the Town of Lillington has faced significant storm-related damages, including flooding of drainage systems and natural waterways, leading to debris accumulation and erosion. In response, the Town has secured funding to address these issues, focusing on street and structural flooding, infrastructure upgrades, stream erosion, water quality, and innovative stormwater solutions. McAdams has been contracted to conduct a comprehensive H+H analysis to evaluate the drainage system and identify critical problem areas. With funding from the Golden LEAF, McAdams helped develop a stormwater CIP that includes cost estimates, concept improvement plans, and a prioritized project list. Implementation of several high-priority projects is already underway. McAdams completed the project three months ahead of the original schedule of January 2024.

PROJECT DATES
07/2022 (awarded)
10/2023 (completed)

REFERENCE
Alicia Adams
910. 893. 2654
aladams@
lillingtonnc.org

PROJECT COSTS
Construction: N/A
McAdams' Fee:
$225,000

PROJECT SIZE
2 square miles

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (principal-in-charge); Max Grogan, PE (project manager); Brie Saur, PE (project engineer); Jack McFadden, PE (project engineer); Ryan Dolfuss, PE (designer)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Raleigh, NC	H+H Modeling; GIS; Inventory + Analysis; Stormwater AIA; CIP Dev.; O+M Plan Dev.

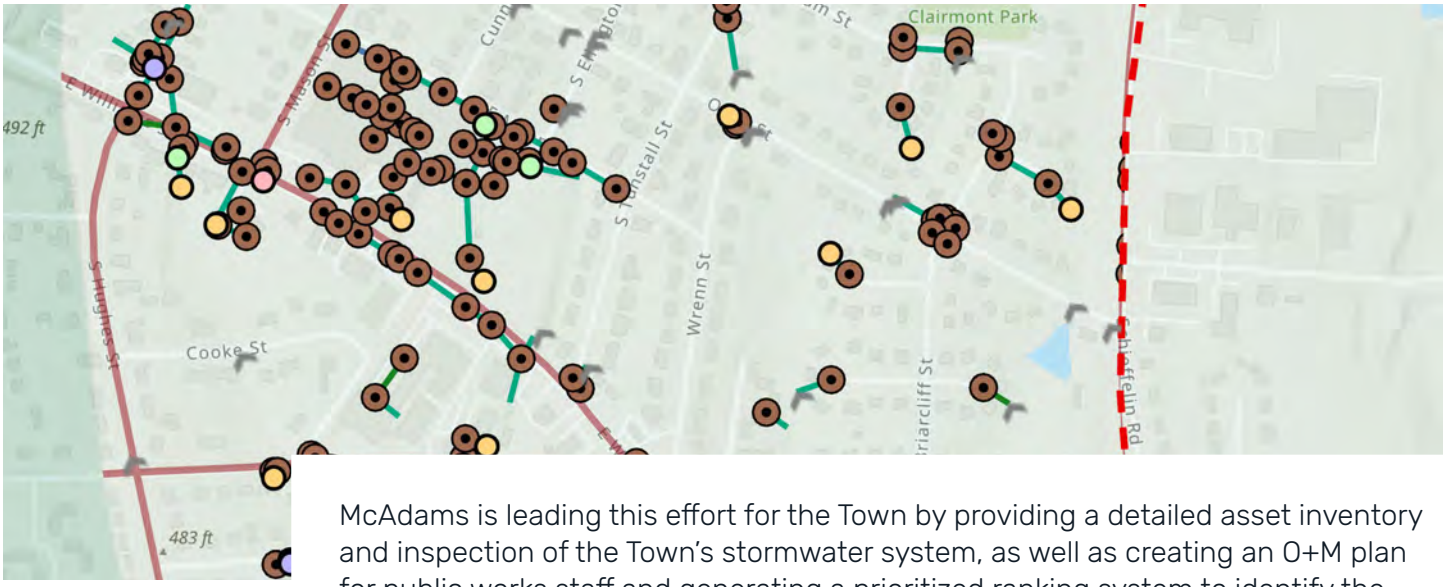
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 3

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Stormwater Systems Condition Apex, NC	On-going	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Apex	Jessica Bolin	919. 249. 3537

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



McAdams is leading this effort for the Town by providing a detailed asset inventory and inspection of the Town's stormwater system, as well as creating an O+M plan for public works staff and generating a prioritized ranking system to identify the Town's most critical capital stormwater needs. The end result of this project will be a more robust database of the Town's stormwater infrastructure conditions, as well as a thorough CIP plan for the next five to 10 years for Apex to begin working through to improve their drainage assets. McAdams has completed the first two phases, with over four miles of storm pipe inspected and nearly 300 stormwater assets and assessed, a third phase slated to begin later this summer.

PROJECT DATES
04/2023 (awarded)
02/2026 est. (end)

REFERENCE
Jessica Bolin
919. 249. 3537
jessica.bolin@
apexnc.org

PROJECT COSTS
Construction: N/A
McAdams' Fee:
$461,300

PROJECT SIZE
4.4 square miles

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (principal-in-charge); Max Grogan, PE (project manager); Brie Saur, PE (project engineer); Suja Joseph (GIS specialist); Daniel Friday (designer); Ryan Dolfuss, PE (designer)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Raleigh, NC	Stormwater Asset + Inventory; GIS; CIP Dev. + Prioritization; O+M Plan Dev.

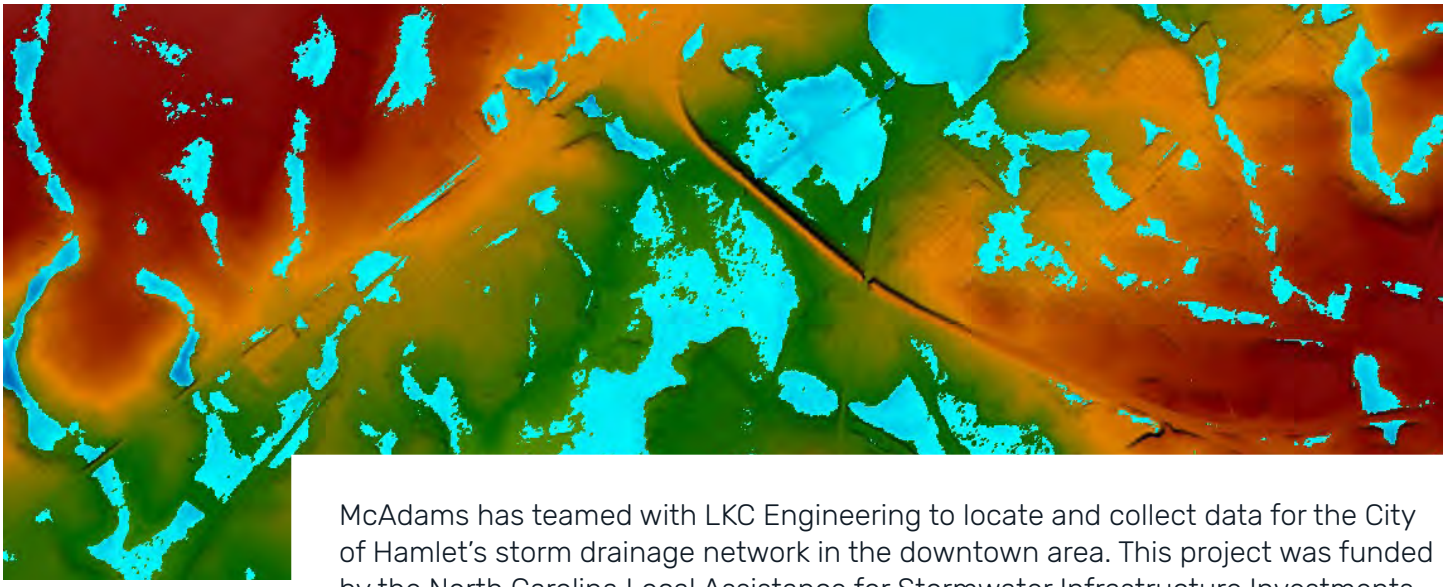
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 4

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Stormwater AIA Hamlet, NC	On-going	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hamlet	Lane Bailey	910. 582. 2651

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



McAdams has teamed with LKC Engineering to locate and collect data for the City of Hamlet's storm drainage network in the downtown area. This project was funded by the North Carolina Local Assistance for Stormwater Infrastructure Investments (LASII) Program. Work on this project includes H+H evaluation, NASCCO PACP® pipe review, public outreach, and capital infrastructure planning.

PROJECT DATES
04/2024 (awarded)
05/2026 est. (end)

REFERENCE
Lane Bailey
910. 582. 2651
lbailey@hamletnc.us

PROJECT COSTS
Construction: N/A
McAdams' Fee:
$270,000

PROJECT SIZE
Townwide

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (principal-in-charge); Jack McFadden, PE (project manager); Suja Joseph (GIS specialist); Ryan Dolfuss, PE (project engineer); Samaneh Taj, EI (project engineer)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Charlotte, NC	H+H Modeling; Stormwater Design

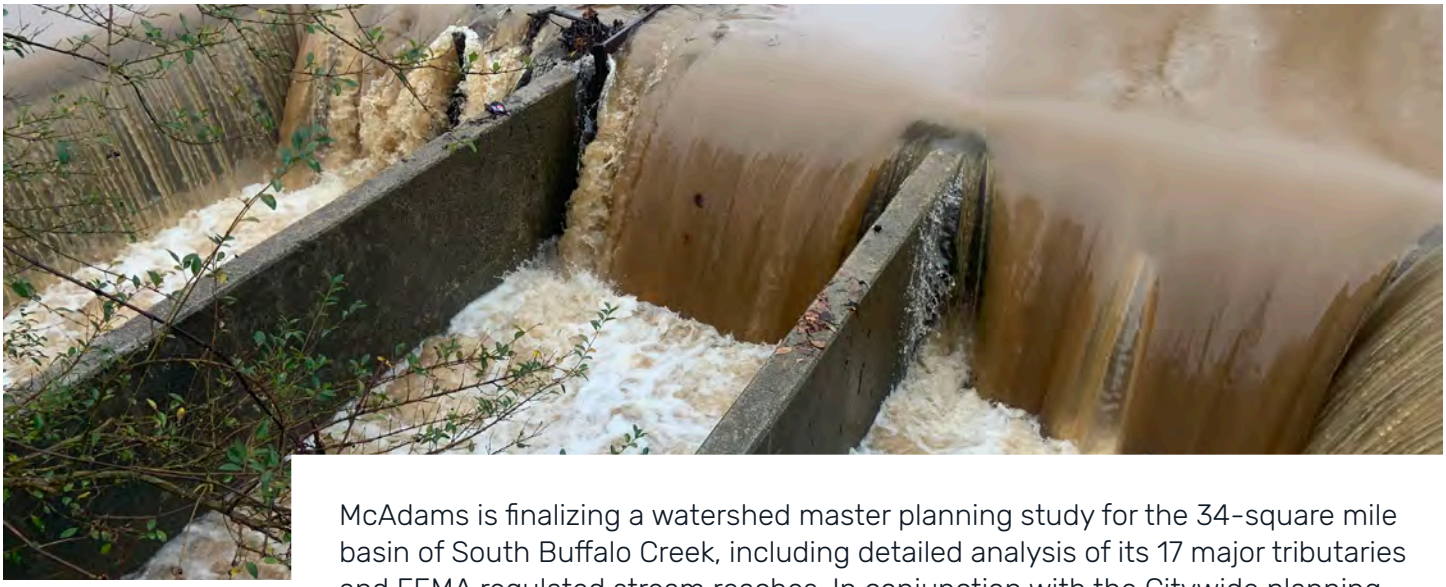
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 5

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
South Buffalo Creek, Watershed Master Plan Study Greensboro, NC	2025	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Greensboro	David Phlegar	336. 375. 2055

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



McAdams is finalizing a watershed master planning study for the 34-square mile basin of South Buffalo Creek, including detailed analysis of its 17 major tributaries and FEMA regulated stream reaches. In conjunction with the Citywide planning analyses, McAdams has performed updated H+H analyses, including HEC-HMS, unsteady 1-D HEC-RAS analysis, and PCSWMM models, to analyze existing and future conditions, as well as climate-change scenarios for its major stormwater systems. The final deliverable will be master planning document that the City of Greensboro can use for the next decade (or more) for on-going stormwater infrastructure capital planning and implementation.

PROJECT DATES
01/2022 (awarded)
03/2025 est. (end)

REFERENCE
David Phlegar
336. 375. 2055
david.phlegar@
greensboro-nc.gov

PROJECT COSTS
Construction: N/A
McAdams' Fee:
$1.6 M

PROJECT SIZE
34 square miles

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (project manager); Brie Saur, PE (project engineer); Suja Joseph (GIS); Daniel Friday (H+H modeling); Ryan Dolfuss, PE (designer); Allison Anolik (grant support); Daniel Wiebke, PE, CFM (GSI)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Raleigh, NC	Watershed Master Planning; Field Surveying; GIS; Construction Cost Estimation

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 6

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Stormwater AIA Wilson, NC	On-going	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Wilson	Noah Parsons	252. 296. 3305

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



McAdams has contracted with the City of Wilson to conduct this effort. The primary focus of the Stormwater AIA and Condition Assessment Grant will go towards an asset and condition assessment of the stormwater structures in and around downtown Wilson in the area identified as the City's Downtown Management Area (DMA). There are approximately 780 known stormwater structures and 66,000 linear feet of stormwater pipe located within the DMA. The condition, size, and inverts of each of the structures and pipes is not well known. McAdams will prepare an updated, prioritized stormwater CIP plan and a new stormwater O+M plan for the City moving forward.

PROJECT DATES
01/2024 (awarded)
09/2025 est. (end)

REFERENCE
Noah Parsons
252. 296. 3305
nparsons@
wilsonnc.org

PROJECT COSTS
Construction: N/A
McAdams' Fee:
$400,000

PROJECT SIZE
0.7 square mile

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (principal-in-charge); Max Grogan, PE (project manager); Brie Saur, PE (project engineer); Ryan Dolfuss, PE (project engineer); Suja Joseph (GIS specialist)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Raleigh, NC	Stormwater AIA; Pipe Cleaning + Inspections; CIP Dev. + Prioritization; O+M Plan Dev.

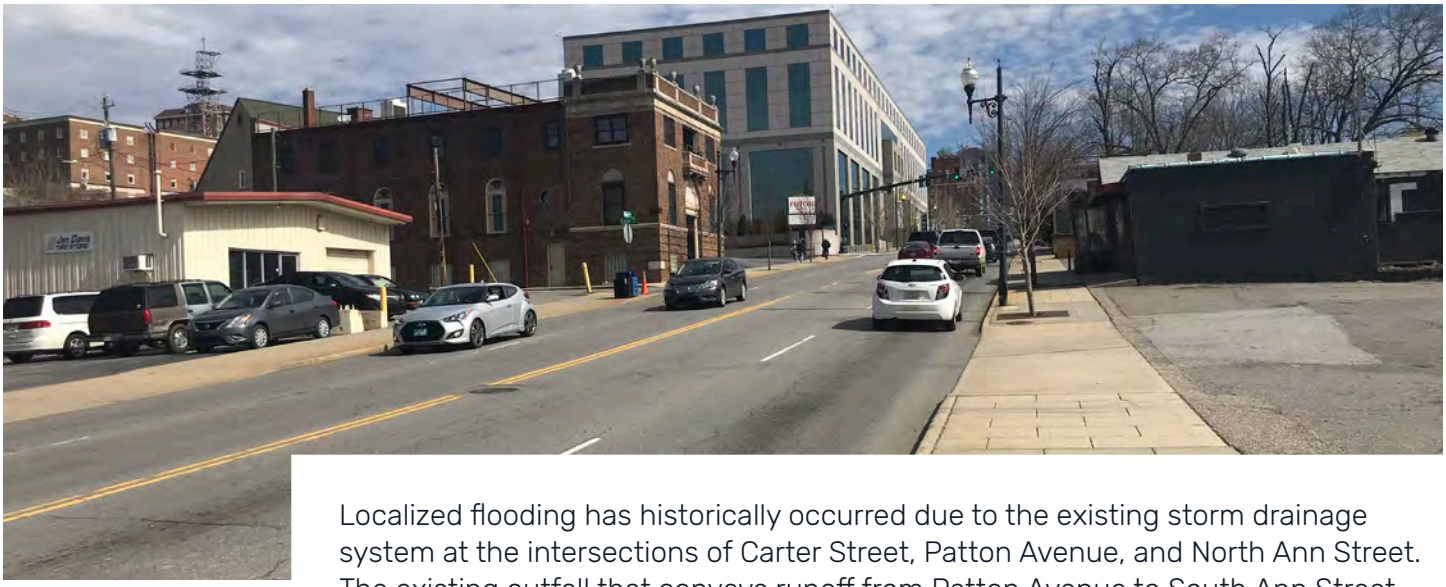
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 7

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Carter-Ann-Patton Street, Storm Drainage Improvements Asheville, NC	2024	2025 (est.)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Asheville	Nicole Peterson	828. 367. 8751

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



Localized flooding has historically occurred due to the existing storm drainage system at the intersections of Carter Street, Patton Avenue, and North Ann Street. The existing outfall that conveys runoff from Patton Avenue to South Ann Street failed, contributing to flooding at each intersection. The failure also contributed to structural flooding in an upstream private parking lot. McAdams analyzed the existing system, developed alternatives to enhance performance of the storm drainage network, and worked with the City to finalize construction drawings for remedial measures. Improvements included sanitary sewer and water line relocation, as well as a bore-and-jack of a portion of the storm drainage system to avoid existing utilities at the intersection of French Broad and Patton Avenue.

PROJECT DATES
12/2019 (awarded)
05/2025 est. (end)

REFERENCE
Nicole Peterson
828. 367. 8751
npeterson@
ashevillenc.gov

PROJECT COSTS
Construction: $3.1 M
McAdams' Fee:
$270,000

PROJECT SIZE
1,200 linear feet

PROJECT TEAM
Christy Staudt, PE (traffic control design); Chris Stanley, PE, CFM, CPESC (technical advisor); Max Grogan, PE (project engineer); Ryan Dolfuss, PE (designer)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Charlotte, NC	H+H Modeling; Storm Drainage Design; Environmental; Civil Eng.; Surveying; SUE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 8

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Municipal Golf Course, Stormwater Assessment Asheville, NC	2024	2024

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Asheville	Susannah Horton	828. 259. 5744

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



Throughout the historic 18-hole Donald Ross course, there were a number of sinkholes and areas of standing water due to the failing storm drainage infrastructure. The Asheville Parks and Recreation department selected McAdams to provide a drainage and capacity assessment of the existing storm drainage system throughout the Municipal Golf Course to better prioritize and budget necessary repairs. This work included drainage inventory, video assessment, and NAASCO PACP® scoring.

PROJECT DATES
01/2023 (awarded)
08/2024 (completed)

REFERENCE
Susannah Horton
828. 259. 5744
shorton@
ashevillenc.gov

PROJECT COSTS
Construction: $8 M
McAdams' Fee:
$628,186

PROJECT SIZE
18-hole course

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (technical advisor); Max Grogan, PE (project engineer)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Charlotte, NC	Stormwater Management; Pipe Assessment; Cost Estimating; Design Surveys

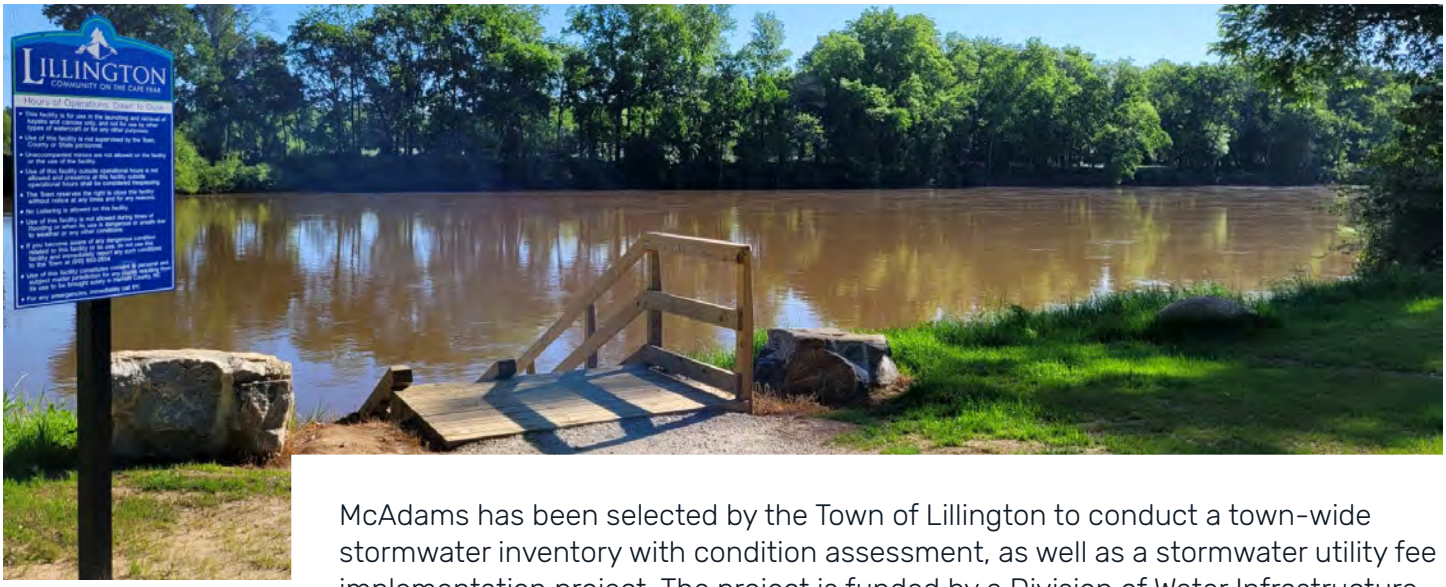
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 9

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
AIA + Utility Implementation Lillington, NC	On-going	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Lillington	Alicia Adams	910. 893. 2654

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



McAdams has been selected by the Town of Lillington to conduct a town-wide stormwater inventory with condition assessment, as well as a stormwater utility fee implementation project. The project is funded by a Division of Water Infrastructure (DWI) stormwater planning grant to be used for the following activities: The completion of a stormwater system, asset inventory, and condition assessment within key priority areas of the Town; development and updating of the Town's stormwater CIP and O+M activities; development of a stormwater utility fee feasibility study; and implementation plan assistance with public engagement, stakeholder coordination, and Town board presentations.

PROJECT DATES
08/2024 (awarded)
09/2026 est. (end)

REFERENCE
Alicia Adams
910. 893. 2654
aladams@
lillingtonnc.org

PROJECT COSTS
Construction: N/A
McAdams' Fee:
$500,000

PROJECT SIZE
4 square miles

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (principal-in-charge); Jack McFadden, PE (project manager); Daniel Friday (designer)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Raleigh, NC	Stormwater AIA; Pipe Cleaning + Inspections; CIP Dev. + Prioritization; O+M Plan Dev.

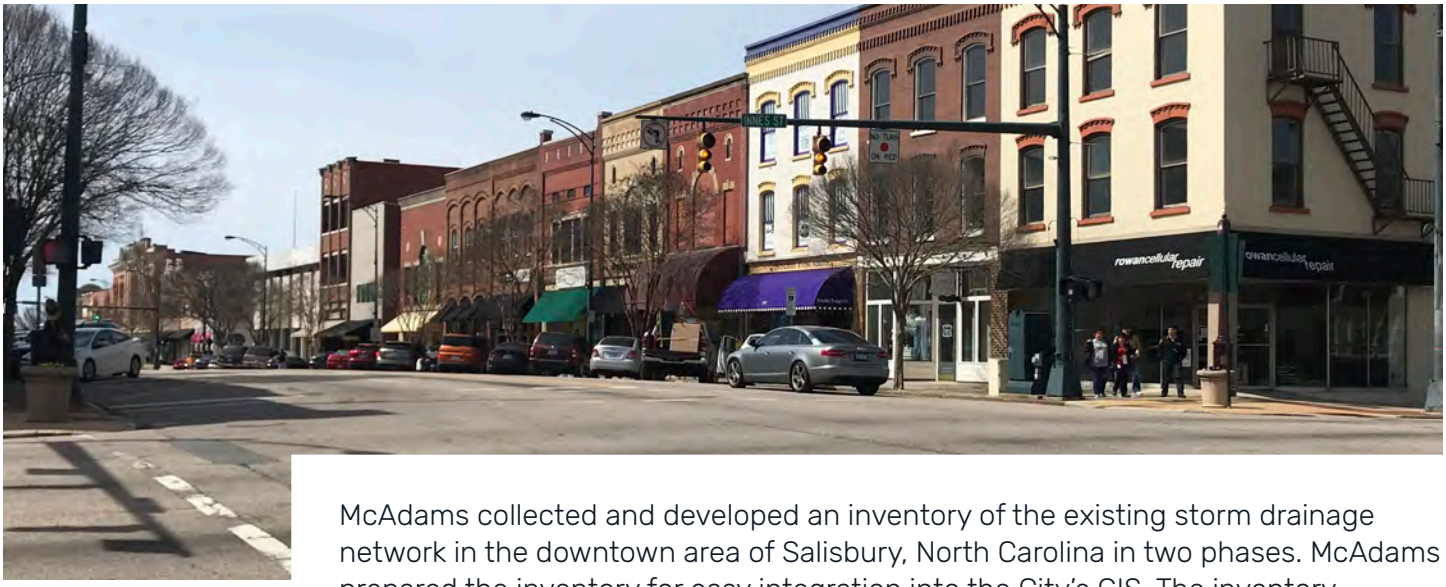
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 10

21. TITLE AND LOCATION *(City and State)*	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Storm Drainage Inventory Salisbury, NC	2019	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Salisbury	Chris Tester	704. 638. 5260

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and cost.)*



McAdams collected and developed an inventory of the existing storm drainage network in the downtown area of Salisbury, North Carolina in two phases. McAdams prepared the inventory for easy integration into the City's GIS. The inventory includes the entirety of the storm drainage network in the downtown area. Collection of this data allows for improved planning for downtown improvements.

PROJECT DATES
07/2019 (awarded)
12/2019 (completed)

REFERENCE
Chris Tester
704. 638. 5260
ctest@
salisburync.gov

PROJECT COSTS
Construction: N/A
McAdams' Fee:
$71,300

PROJECT SIZE
200 acres
(approximately)

PROJECT TEAM
Chris Stanley, PE, CFM, CPESC (technical advisor)

25. FIRMS FROM SECTION C INVOLVED IN THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	McAdams	Charlotte, NC	Stormwater; GSI; Surveying

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "x" under project key number for participation in same or similar role)									
		1	2	3	4	5	6	7	8	9	10
Christy Staudt PE	Principal-in-Charge							●			
Max Grogan PE	Project Manager	●	●	●	●		●	●	●	●	
Chris Stanley PE, CFM, CPESC	Special Advisor	●	●	●	●	●	●	●	●	●	●
Brie Saur PE	Assistant Project Manager	●	●	●	●	●	●			●	●
Jack McFadden PE	Asset Inv. + Insp. Lead			●	●					●	
Ryan Dolfuss PE	Asset Inv. + Insp. Support	●	●	●	●	●	●	●	●	●	
Samaneh Taj	H+H Modeling Lead				●					●	
Daniel Friday	H+H Modeling Support		●	●		●	●				
Suja Joseph	GSI Mapping + Support Lead		●	●	●	●	●			●	
Mitchell Smith	GSI Mapping + Support			●	●		●			●	
Daniel Wiebke PE, CFM	Retrofit + GSI Support Lead					●					
Esmera Poladova	Retrofit + GSI Support Lead					●					
Allison Anolik	Funding Advisory Services Lead					●					
Emily Scott-Cruz AICP	Funding Advisory Services Support										
Teresa Buckwalter RLA	Urban Planning Support										
Anthony Prelozny	CCTV Services Lead										
Darin Strother	CCTV Services Lead										
Owen Carson	Environ. Assess. + GSI Support										
Danvey Walsh	Environ. Assess. + GSI Support										

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1.	Helene Recovery Assistance Black Mountain, NC	6.	Stormwater AIA Wilson, NC
2.	Townwide Hydrologic + Hydraulic Analysis Lillington, NC	7.	Carter-Ann-Patton Street, Storm Drainage Improvements Asheville, NC
3.	Stormwater Systems Condition Apex, NC	8.	Municipal Golf Course, Stormwater Assessment Asheville, NC
4.	Stormwater AIA Hamlet, NC	9.	AIA + Utility Implementation Lillington, NC
5.	South Buffalo Creek, Watershed Master Plan Study Greensboro, NC	10.	Storm Drainage Inventory Salisbury, NC

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

McAdams Office Locations

- Lake Mary, FL
- Palm Harbor, FL
- Asheville, NC
- Charlotte, NC
- Durham, NC
- Raleigh, NC (HQ)
- Winston-Salem, NC
- Greenville, SC
- Lewisville, TX



"Apex has contracted with McAdams to provide a comprehensive assessment of our stormwater system in order to determine and prioritize Capital Improvement needs. We are only one phase in on a multi-phase and multi-year project, but so far McAdams has been top notch providing excellent customer service, solid communication, and timely and effective deliverables. I would highly recommend them for this type of work!"

Jessica Bolin
Town of Apex

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

March 14, 2025

33. NAME AND TITLE

Christy Staudt, PE Practice Lead, Transportation

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any): N/A

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME: **MCADAMS**		3. YEAR ESTABLISHED: 1979	4. DUNS NUMBER: 09-511-9061
2B. STREET: 621 Hillsborough Street, Suite 500		5. OWNERSHIP	
2C. CITY: Raleigh	2D. STATE: NC / 2E. ZIP CODE: 27603	A. TYPE: C Corporation	
6A. POINT OF CONTACT NAME AND TITLE: Jon G. Moore, PE / Chief Operating Officer		B. SMALL BUSINESS STATUS: N/A	
6B. TELEPHONE NUMBER: 919. 624. 0160	6C. E-MAIL ADDRESS: moore@mcadamsco.com	7. NAME OF FIRM (IF BLOCK 2A IS A BRANCH OFFICE)	
8A. FORMER FIRM NAME(S) (IF ANY): N/A		8B. YR. ESTABLISHED: N/A	8C. DUNS NUMBER: N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administration	63	37
08	CADD Technician	28	9
12	Civil Engineer	88	43
16	Construction Manager	10	5
38	Land Surveyor	17	2
39	Landscape Architect	29	10
47	Planner	14	6
48	Project Manager	2	0
	Other Employees	262	72
	Total	**513**	**184**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
L03	Landscape Architecture	6
P05	Planning (Commy, Reg, Areawide + State)	4
P06	Planning (Site, Installation, and Project)	5
R04	Recreation Facilities (Parks, Marinas, etc.)	5
Z01	Zoning; Land Use Studies	4
C16	Construction Surveying	7
D05	Digital Elevation + Terrain Model Development	3
G03	Geodetic Surveying: Ground + Air-borne	2
G05	Geospatial Data conversion	3
L02	Land Surveying	5
M01	Mapping Location/Addressing Systems	4
S10	Surveying; Platting; Mapping	5
T04	Topographic Surveying + Mapping	4
C10	Commercial Building (low rise)	5
E02	Educational Facilities; Classrooms	5
H09	Hospital & Medical Facilities	6
H10	Hotels; Motels	4
H11	Housing	8
O01	Office Buildings; Industrial Parks	5
H07	Highways; Streets; Paving; Parking Lots	5
T03	Traffic + Transportation Engineering	5
E11	Environmental Planning	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

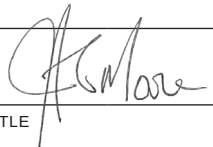
a. Federal Work	1
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

A. SIGNATURE: 

B. DATE: 01/27/2025

C. NAME AND TITLE: Jon G. Moore, PE / Chief Operating Officer

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any): N/A

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME: **MCADAMS**		3. YEAR ESTABLISHED: 1979	4. DUNS NUMBER: 09-511-9061
2B. STREET: 2100 South Tryon Street, Suite 400		5. OWNERSHIP	
2C. CITY: Charlotte	2D. STATE: NC / 2E. ZIP CODE: 28203	A. TYPE: C Corporation	
6A. POINT OF CONTACT NAME AND TITLE: Rob Reddick, PE / Vice President, Civil / Site Design		B. SMALL BUSINESS STATUS: N/A	
6B. TELEPHONE NUMBER: 704. 527. 0800	6C. E-MAIL ADDRESS: reddick@mcadamsco.com	7. NAME OF FIRM (IF BLOCK 2A IS A BRANCH OFFICE)	
8A. FORMER FIRM NAME(S) (IF ANY): N/A		8B. YR. ESTABLISHED: N/A	8C. DUNS NUMBER: N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administration	63	10
08	CADD Technician	28	2
12	Civil Engineer	88	16
16	Construction Manager	10	2
38	Land Surveyor	17	4
39	Landscape Architect	29	9
47	Planner	14	2
48	Project Manager	2	0
	Other Employees	262	61
	Total	**513**	**106**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
L03	Landscape Architecture	6
P05	Planning (Commy, Reg, Areawide + State)	4
P06	Planning (Site, Installation, and Project)	5
R04	Recreation Facilities (Parks, Marinas, etc.)	5
Z01	Zoning; Land Use Studies	4
C16	Construction Surveying	7
D05	Digital Elevation + Terrain Model Development	3
G03	Geodetic Surveying: Ground + Air-borne	2
G05	Geospatial Data conversion	3
L02	Land Surveying	5
M01	Mapping Location/Addressing Systems	4
S10	Surveying; Platting; Mapping	5
T04	Topographic Surveying + Mapping	4
C10	Commercial Building (low rise)	5
E02	Educational Facilities; Classrooms	5
H09	Hospital & Medical Facilities	6
H10	Hotels; Motels	4
H11	Housing	8
O01	Office Buildings; Industrial Parks	5
H07	Highways; Streets; Paving; Parking Lots	5
T03	Traffic + Transportation Engineering	5
E11	Environmental Planning	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

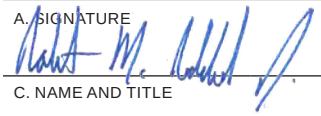
a. Federal Work	1
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

A. SIGNATURE: 

B. DATE: 01/27/2025

C. NAME AND TITLE: Rob Reddick, PE / Vice President, Civil / Site Design

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any): N/A

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME: **MCADAMS**		3. YEAR ESTABLISHED: 1979	4. DUNS NUMBER: 09-511-9061
2B. STREET: 80 Charlotte Street, Suite 40		5. OWNERSHIP	
2C. CITY: Asheville	2D. STATE: NC / 2E. ZIP CODE: 28801	A. TYPE: C Corporation	
6A. POINT OF CONTACT NAME AND TITLE: Jon G. Moore, PE / Chief Operating Officer		B. SMALL BUSINESS STATUS: N/A	
6B. TELEPHONE NUMBER: 919. 624. 0160	6C. E-MAIL ADDRESS: moore@mcadamsco.com	7. NAME OF FIRM (IF BLOCK 2A IS A BRANCH OFFICE)	
8A. FORMER FIRM NAME(S) (IF ANY): N/A		8B. YR. ESTABLISHED: N/A	8C. DUNS NUMBER: N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administration	63	0
08	CADD Technician	28	0
12	Civil Engineer	88	0
16	Construction Manager	10	0
38	Land Surveyor	17	0
39	Landscape Architect	29	0
47	Planner	14	3
48	Project Manager	2	0
	Other Employees	262	3
	Total	**513**	**6**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
L03	Landscape Architecture	6
P05	Planning (Commy, Reg, Areawide + State)	4
P06	Planning (Site, Installation, and Project)	5
R04	Recreation Facilities (Parks, Marinas, etc.)	5
Z01	Zoning; Land Use Studies	4
C16	Construction Surveying	7
D05	Digital Elevation + Terrain Model Development	3
G03	Geodetic Surveying: Ground + Air-borne	2
G05	Geospatial Data conversion	3
L02	Land Surveying	5
M01	Mapping Location/Addressing Systems	4
S10	Surveying; Platting; Mapping	5
T04	Topographic Surveying + Mapping	4
C10	Commercial Building (low rise)	5
E02	Educational Facilities; Classrooms	5
H09	Hospital & Medical Facilities	6
H10	Hotels; Motels	4
H11	Housing	8
O01	Office Buildings; Industrial Parks	5
H07	Highways; Streets; Paving; Parking Lots	5
T03	Traffic + Transportation Engineering	5
E11	Environmental Planning	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

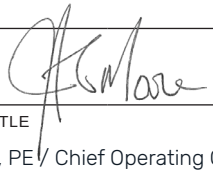
a. Federal Work	1
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

A. SIGNATURE 

B. DATE: 01/27/2025

C. NAME AND TITLE: Jon G. Moore, PE / Chief Operating Officer

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any): N/A

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2A. FIRM (OR BRANCH OFFICE) NAME: **MCADAMS**			3. YEAR ESTABLISHED: 1979 / 4. DUNS NUMBER: 09-511-9061
2B. STREET: 4400 State Highway 121, Suite 800			5. OWNERSHIP
2C. CITY: Lewisville	2D. STATE: TX	2E. ZIP CODE: 75056	A. TYPE: C Corporation
			B. SMALL BUSINESS STATUS: N/A
6A. POINT OF CONTACT NAME AND TITLE: Robert Dollak, Jr., PE / Vice President, DFW Metro			7. NAME OF FIRM (IF BLOCK 2A IS A BRANCH OFFICE)
6B. TELEPHONE NUMBER: 972. 436. 9712	6C. E-MAIL ADDRESS: bdollak@mcadamsco.com		
8A. FORMER FIRM NAME(S) (IF ANY): N/A			8B. YR. ESTABLISHED: N/A / 8C. DUNS NUMBER: N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	c. No. of Employees (2) BRANCH
02	Administration	63	8
08	CADD Technician	28	4
12	Civil Engineer	88	11
16	Construction Manager	10	2
38	Land Surveyor	17	2
39	Landscape Architect	29	4
47	Planner	14	2
48	Project Manager	2	1
	Other Employees	262	35
	Total	**513**	**69**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number (see below)
L03	Landscape Architecture	6
P05	Planning (Commy, Reg, Areawide + State)	4
P06	Planning (Site, Installation, and Project)	5
R04	Recreation Facilities (Parks, Marinas, etc.)	5
Z01	Zoning; Land Use Studies	4
C16	Construction Surveying	7
D05	Digital Elevation + Terrain Model Development	3
G03	Geodetic Surveying: Ground + Air-borne	2
G05	Geospatial Data conversion	3
L02	Land Surveying	5
M01	Mapping Location/Addressing Systems	4
S10	Surveying; Platting; Mapping	5
T04	Topographic Surveying + Mapping	4
C10	Commercial Building (low rise)	5
E02	Educational Facilities; Classrooms	5
H09	Hospital & Medical Facilities	6
H10	Hotels; Motels	4
H11	Housing	8
O01	Office Buildings; Industrial Parks	5
H07	Highways; Streets; Paving; Parking Lots	5
T03	Traffic + Transportation Engineering	5
E11	Environmental Planning	5

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	10
c. Total Work	10

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

A. SIGNATURE: Robert Dollak

B. DATE: 01/27/2025

C. NAME AND TITLE: Robert Dollak, Jr., PE / Vice President, DFW Metro

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(if any)*: N/A

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME	3. YEAR ESTABLISHED	4. UNIQUE ENTITY IDENTIFIER
S&ME, Inc. | Raleigh Branch	1973	027854566 | 790062392

2b. STREET	5. OWNERSHIP
3201 Spring Forest Road | 2724 Discovery Drive, Suite 120	a. TYPE: Corporation

2c. CITY	2d. STATE	2e. ZIP CODE	b. SMALL BUSINESS STATUS
Raleigh	NC	27616	

6a. POINT OF CONTACT NAME AND TITLE	7. NAME OF FIRM *(if block 2a is branch office)*
Keith C. Brown, PE | Office Principal	**S&ME, Inc.**

6b. TELEPHONE NUMBER	6c. E-MAIL ADDRESS
919-872-2660	kbrown@smeinc.com

8a. FORMER FIRM NAME(S) *(If any)*	8b. YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) Firm	c. No. of Employees (2) Branch
02	Administrative	143	6
05	Archeologist	5	
08	CADD Technician	4	
12	Civil Engineer	10	
15	Construction Inspector	184	19
23	Environmental Engineer	6	
24	Environmental Scientist	19	3
27	Foundation/Geotechnical Engineer	21	1
30	Geologist	23	4
36	Industrial Hygienist	7	2
40	Materials Engineer	2	
48	Project Manager	211	21
51	Safety/Occupational Health Engineer	5	
58	Technician/Analyst	226	32
62	Water Resources Engineer	1	
	Driller	43	
	Staff Professionals	124	14
	Other Employees	37	7
	TOTAL	**1,071**	**109**

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
A06	Airports; Terminals and Hangers; Freight Handling	3
B01	Barracks, Dormitories	2
B02	Bridges	2
C10	Commercial Building; Shopping Centers	5
C15	Construction Management	4
E02	Educational Facilities; Classrooms	5
H03	Hazardous, Toxic, Radioactive Waste Remediation	2
H07	Highways; Streets; Airfield Paving; Parking Lots	5
H09	Hospital & Medical Facilities	3
H11	Housing *(Residential, Multi-Family; Apartments; Condominiums)*	5
I01	Industrial Buildings; Manufacturing Plants	5
L01	Laboratories: medical research facilities	5
O01	Office Buildings; Industrial Parks	3
P02	Petroleum and Fuel (Storage and Distribution)	2
P12	Power Generation, Transmission, Distribution	3
R04	Recreation Facilities; Parks, Marinas, etc.	1
R08	Research Facilities	1
S04	Sewage Collection, Treatment, and Disposal	1
S07	Solid Wastes; Incineration; Landfill	4
T03	Traffic & Transportation Engineering	6
W02	Water resources; Hydrology; Ground Water	2
W03	Water Supply; Treatment and Distribution	1

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	**1**
b. Non-Federal Work	**8**
c. Total Work	**8**

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE	b. DATE
Keith C. Brown	September 10, 2024

c. NAME AND TITLE: Keith C. Brown, PE | Office Principal

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER *(If any)*: N/A

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME: Equinox Environmental Consultation & Design, Inc.	3. YEAR ESTABLISHED: 1998
	4. UNIQUE ENTITY NUMBER: M2KMHDZ8GML7
2b. STREET: 14 O'Henry Ave, Suite 206	5. OWNERSHIP
	a. TYPE: Corporation
2c. CITY: Asheville / 2d. STATE: NC / 2e. ZIP CODE: 28801	b. SMALL BUSINESS STATUS: SBE
6a. POINT OF CONTACT NAME AND TITLE: David Tuch, President	7. NAME OF FIRM *(If block 2a is a branch office)*
6b. TELEPHONE NUMBER: 828.253.6856 ext. 202 / 6c. E-MAIL ADDRESS: David@Equinoxenvironmental.com	
8a. FORMER FIRM NAME(S) *(If any)*: N/A	8b. YR. ESTABLISHED: N/A / 8c. DUNS NUMBER: N/A

9. EMPLOYEES BY DISCIPLINE

a. Function Code	b. Discipline	c. No. of Employees (1) FIRM	(2) BRANCH
02	Administrator	1	1
07	Biologist	1	1
08	CADD Technician	1	1
19	Ecologist	1	1
24	Environmental Scientist	2	2
29	GIS Specialist	1	1
39	Landscape Architect	4	3
47	Planner Urban/Regional	2	2
	Other Employees		
	Total		

10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS

a. Profile Code	b. Experience	c. Revenue Index Number *(see below)*
C01	Cartography	1
C14	Conservation & Resource	1
E01	Ecological & Archeological	1
E09	EIS, Assessments & Statements	1
E10	Environment & Natural Resource	2
E11	Environmental Planning	1
G04	GIS Services	1
G06	Graphic Design	1
L03	Landscape Architecture	2
P05	Planning (Community, Regional, etc)	1
P06	Planning (Site, Installation, & Project)	2
R04	Recreation Facilities	4
S13	Storm Water Handling & Facilities	1
W02	Water Resource; Hydrology;	1
Z01	Zoning; Land Use Studies	1

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

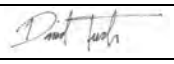
a. Federal Work	
b. Non-Federal Work	5
c. Total Work	5

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE  b. DATE: 3/10/2025

c. NAME AND TITLE: David Tuch, President

STANDARD FORM 330 (Rev.8/2016)) PAGE 6