

RFQ

Transylvania County Public Schools

MEP Engineering

November 2, 2023



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[1] Cover Letter

November 2, 2023

Transylvania County Schools
225 Rosenwald Lane,
Brevard, NC 28712-3299

Dear Selection Committee:

Mechanical Systems & Services, LLC (MSS) is pleased to submit our qualifications for the Transylvania County Schools RFQ for on-call Professional Engineering consulting services.

You will find in our submittal that we are uniquely qualified to provide engineering services as needed for this project(s). Our team consists of six licensed Professional Engineers (PE) with over 40 years of combined experience. This experience will enable our team to effectively execute the project during both the design and construction phases.

We understand the scope of services will include design and construction phase engineering services for the mechanical, electrical, and plumbing systems. As a full service mechanical contractor, MSS offers mechanical, plumbing, fire alarm, and security design services in-house. When electrical engineering beyond the capability of MSS engineers is needed as a part of the project, MSS has strong partnerships with several local electrical engineering firms to provide those services as a subconsultant. As a result, we are well qualified and positioned to draw from our firm's 25+ years of experience and provide exceptional service as the project's Engineering consultant.

We are pursuing this opportunity as we feel it best fits our qualifications and capabilities. We also believe that it presents an excellent opportunity for MSS to enhance our growing relationship with Transylvania County Schools by demonstrating our expertise and commitment to excellence.

We appreciate your consideration and look forward to working with you. If there are any questions regarding our response, please contact me at 803-361-4251.

Sincerely,



Larry McWilliams, PE, LEED AP, QCxP
Director of Engineering
larry.mcwilliams@msssolutions.com

[2] Firm Overview

EXECUTIVE SUMMARY

MSS Solutions, LLC (MSS) is committed to providing reliable, cost-effective solutions for the Transylvania County Public Schools project. As a full service mechanical contracting company with 8 offices spread across North and South Carolina, MSS has the expertise and capacity to deliver innovative solutions while minimizing the impact to the building. Based out of the Charlotte office, MSS in-house design capabilities include HVAC, plumbing, fire-alarm, controls, and security.

The MSS team believes we provide unique value through experience in facility assessments, the ability to design and fabricate in-house, and the speed to market through execution of successful design-assist and turnkey design-build projects. Additionally, as a full service mechanical contractor, MSS has the ability to leverage preconstruction resources to verify project scope and costs are in alignment

throughout the design process. The fabrication and operations team reviews all designs for constructibility prior to issuance of construction documents.

This team also brings additional value to the project through the design and fabrication abilities. MSS facility consists of a 270,000 square foot warehouse with a full service duct fabrication shop, pipe fabrication shop, assembly area, and warehouse space. This can be utilized for inhouse fabrication and then warehousing. This allows for cost control by locking in commodity pricing early in the project. In addition, by performing a large portion of fabrication in house, the job sites inherently become safer.

We believe our team brings value to this project with each of MSS’s expertise outlined above and history of successful turnkey projects.

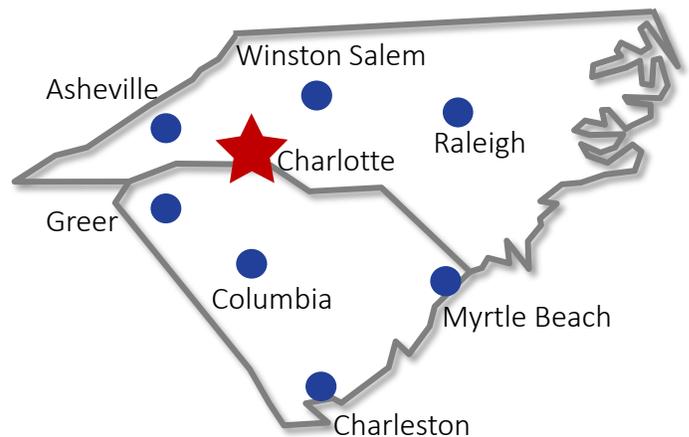
FIRM HISTORY

Since 1996, MSS has made thousands of facilities more efficient, comfortable, secure and reliable for owners, operators and occupiers across the Carolinas and throughout North America. MSS is a privately owned company with more than 600 employees and serves the entire Carolinas region from its eight office locations.

MSS is an industry leader in executing design assist and design build projects by utilizing experienced estimating and operations resources to assess and produce the best available outcomes.

LOCATIONS

MSS operates from 8 locations across the Carolinas:



SERVICES & PRODUCT LINES

MSS serves our clients’ needs on new construction and major renovation projects as well as preventive maintenance, equipment repairs, and system upgrades.

 Mechanical Design & Construction

 HVAC Service

 Pipe and Duct Fabrication

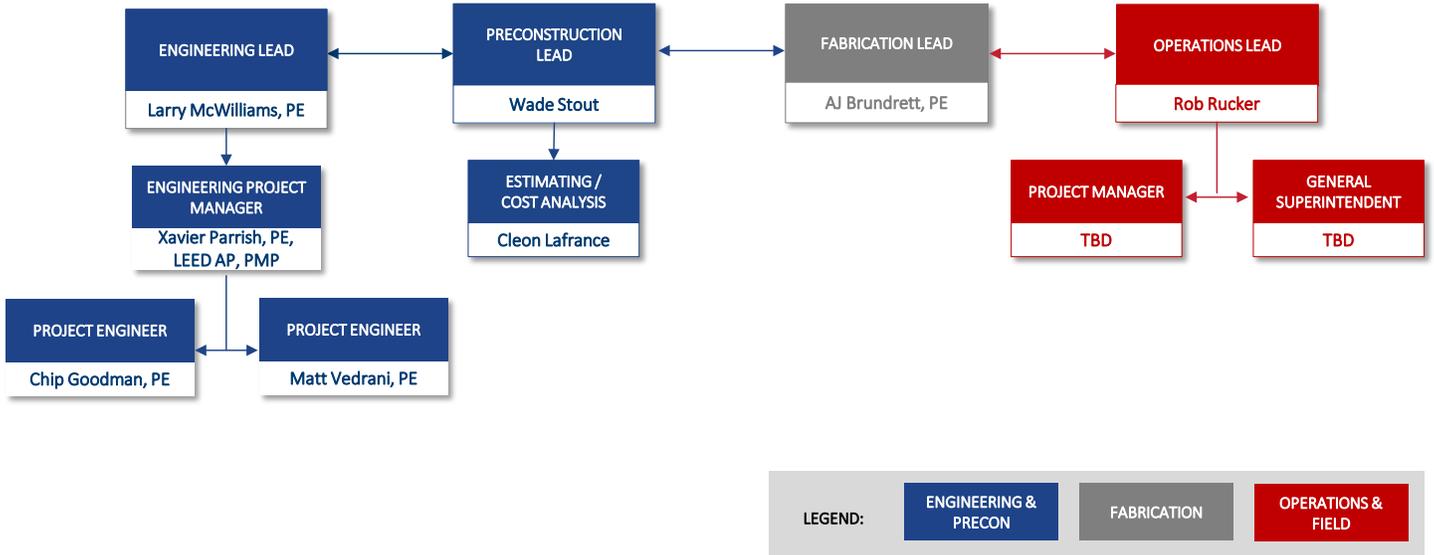
 Fire Alarm and Life Safety

 Infrastructure Assessments

 Building Automation and Controls

 Security Systems

[3] Proposed Project Team



LARRY MCWILLIAMS, PE, LEED AP BD+C, QCxP | Director of Engineering



PROFESSIONAL BACKGROUND

Larry has 16 years of experience in the design and construction industry. Before Larry's time as the engineering manager over the mechanical design team at MSS, he was an engineering consultant and Project Manager for AME Consulting Engineers with oversight of a multi-disciplinary project team, executing large- and small-scale projects primarily in the education, commercial, municipal, and aviation industries. Larry also has extensive experience performing commissioning and sustainability consulting services. This combined experience makes Larry an ideal resource in the design-build structure and strategy for large scale projects. Larry has been with MSS for two years.

RELEVANT PROJECT EXPERIENCE

- UNCC Sycamore Hall Renovation*
- CMS Northridge Middle School Expansion*
- CMS Albemarle Language Immersion Academy K-8*
- CMS CTE Renovations (multiple schools) *
- Guilford County Schools – Western Guilford Middle School*
- Porter Ridge Middle School Renovation*
- Porter Ridge High School Renovation*
- Northwest Cabarrus High School Gymnasium Addition*
- Concord High School Chiller Replacement*
- Concord High School Controls Upgrade*
- Pine Lake Prep STEM Building*
- Covenant Classical School Classroom Addition*
- CPCC Levine III Classroom Building *

*Project Experience with McVeigh & Mangum Engineering

EDUCATION

- Bachelor of Science, Mechanical Engineering – Georgia Institute of Technology

LICENSES/CERTIFICATIONS

- Professional Engineer License - South Carolina
- Professional Engineer License - North Carolina
- Professional Engineer License - Florida

ASSOCIATIONS/MEMBERSHIPS

- ASHRAE Member

XAVIER PARRISH, PE, LEED AP, PMP | Engineering Lead, Design & Development



EDUCATION

- Bachelor of Science, Architectural Engineering - North Carolina Agricultural and Technical State University

LICENSES/CERTIFICATIONS

- Professional Engineer License, State of North Carolina
- LEED AP
- Project Management Professional (PMP) Certification
- Six Sigma Green Belt Certification

MEMBERSHIPS/AFFILIATIONS

- ASHRAE
- NSBE

PROFESSIONAL BACKGROUND

Xavier has held roles in Engineering and Project Management for the past 6 years. Xavier's background includes the management and design of various project types involving new construction, expansion, and renovation of industrial, medical, hospitality, commercial, and office building applications. As the industry has grown and evolved to necessitate the implementation of Virtual Design and Construction (VDC), Xavier has supported these efforts for MSS for various projects from a technical engineering support standpoint as well as a modeling/coordination standpoint. Xavier has been with MSS for 5 years.

RELEVANT PROJECT EXPERIENCE

- Morrison Yard, Charleston SC – New Construction Commercial / Office Retail Space
- Credit One (Volvo) Tennis Stadium, Charleston SC – Athletic Stadium Renovation
- Watauga Medical Center, Boone NC - Hospital Expansion
- Wake Forest Baptist Health, Winston-Salem, NC - Chiller Replacement
- Genesis Care, Myrtle Beach, SC - LinACC Chiller Replacement
- MVWC Ocean Watch Villas, Myrtle Beach, SC - Booster Skid Replacement
- MVWC Willow Ridge Lodge, Branson, MO - Water Heater Replacement

Chip Goodman, PE | Project Engineer, Design and Development



PROFESSIONAL BACKGROUND

Chip accrued more than 4 years of experience in the field of consulting engineering before transitioning to the contractor side of the industry. Project offerings included field investigations, central utility plant development and upgrades, master plan development, HVAC, and plumbing design. He provided design of mechanical systems for commercial, institutional, higher education, and healthcare facilities. Chip now supports the mechanical construction team through technical challenges in design build and design assist projects.

Chip is a hard worker who works well in team environments, helping foster ideas as the team works towards the common goal of a successful project and happy client. Chip has been with MSS for one (1) year.

RELEVANT PROJECT EXPERIENCE

- Atrium Health - Pineville - Phase III Bed Tower, Charlotte, NC*
- Atrium Health Wake Forest Baptist - 6 Ardmore Tower East - 8 North Patient Room Renovations, Winston-Salem, NC*
- Atrium Health Wake Forest Baptist - 11 Reynolds Tower Neonatal Intensive Care Unit (NICU) , Winston-Salem, NC*
- East Cooper Medical Center - Inpatient Rehab Renovation, Mount Pleasant, SC*
- Ft. Bliss Hospital - Replacement Services, Army Corps of Engineers, El Paso, TX*
- Atrium Health Wake Forest Baptist Health - Central Energy Plant Upgrades, Winston Salem, NC*
- Atrium Health Wake Forest Baptist Health – Critical Care Tower, Winston Salem, NC*
- Wake Forest School of Medicine - Modular Lab, Winston Salem, NC*

*Notable projects of Chip’s with former employers

EDUCATION

- Bachelor of Science, Mechanical Engineering - Clemson University

LICENSES/CERTIFICATIONS

- Professional Engineer License, State of North Carolina

MEMBERSHIPS/AFFILIATIONS

- ASHRAE - Southern Piedmont Chapter

MATTHEW VEDRANI, PE | Project Engineer, Design and Development



PROFESSIONAL BACKGROUND

Matthew has been an engineer in the HVAC industry for over 4 years. Matthew's background is in design of mechanical systems for both new construction and renovation work. Matthew started his career in a consulting firm specializing in healthcare mechanical systems and since has gained experience in office buildings, hospitality, industrial, and other commercial applications. Matthew supports the installation of mechanical systems from a technical point of view for various large-scale projects. Matthew has been with MSS for 2 years.

RELEVANT PROJECT EXPERIENCE

- Atrium Health Pineville Palmetto Tower Expansion – Charlotte, NC – Hospital bed tower expansion project involving connections to existing MEP plant and new construction *
- Novant Matthews Vertical Expansion – Charlotte, NC - Hospital expansion project with major renovations to existing hospital *
- UNC Health Blueridge Morganton Pavilion – Morganton, NC – Hospital bed tower expansion project
- Novant Forsyth Medical Center – Winston Salem, NC – Hospital expansion project
- Novant Ballantyne Medical Center – Charlotte, NC – New construction hospital project

* Notable projects of Matthew's with former employers

EDUCATION

- Bachelor of Science, Mechanical Engineering - Clemson University

LICENSES/CERTIFICATIONS

- Professional Engineer License, State of North Carolina

MEMBERSHIPS/AFFILIATIONS

- ASHRAE

[4] Project Experience



MONTFORD NORTH STAR ACADEMY Asheville, NC

OWNER

Asheville City Schools

CUSTOMER

James R. Vannoy and Sons
Construction Co.

PROJECT DETAILS

VALUE: \$1,045,00
SIZE: 55,000 SF
COMPLETED: 2018
DELIVERY: Plan & Spec

SCOPE OF WORK

Replacement of all airside equipment, including AHUs, DOAS, and fan coil units. New ductwork, chiller, pumps, and piping were installed.

SERVICES INCLUDED



Controls



Mechanical
Construction



BUNCOMBE COUNTY SCHOOLS Asheville, NC

OWNER

Buncombe County Schools

CUSTOMER

James R. Vannoy and Sons
Construction Co.

PROJECT DETAILS

VALUE: \$1,063,837
SIZE: NA
COMPLETED: 2023
DELIVERY: Plan & Spec

SCOPE OF WORK

HVAC and controls projects at four different buildings. Projects Included packaged DX RTU replacements, boiler and pump replacements, air-cooled chiller and pump replacements. Chilled water and hot water piping piping scope included modifications required for installation of new boiler, chiller, and pumps.

SERVICES INCLUDED



Controls



Mechanical
Construction



ASHEVILLE-BUNCOMBE TECH COMMUNITY COLLEGE FY18 CAPITAL IMPROVMENT Asheville, NC

OWNER

Buncombe County Government

CUSTOMER

James R. Vannoy and Sons
Construction Co.

PROJECT DETAILS

VALUE: \$854,909
COMPLETED: 2019
DELIVERY: Plan & Spec

SCOPE OF WORK

Project scope includes work in several campus buildings. Scope includes replacement of existing air-cooled chillers, pump, split system DX AHUs, and packaged RTUs.



SERVICES INCLUDED



Mechanical
Construction



Controls



IOTLA VALLEY ELEMENTARY RE-PIPE Macon County, NC

OWNER

Macon County Schools

CUSTOMER

Macon County Schools

PROJECT DETAILS

VALUE: \$662,044

COMPLETED: 2023

DELIVERY: Owner Direct

SCOPE OF WORK

Replacement of piping, valves, and accessories for two geothermal piping vaults.

SERVICES INCLUDED



Mechanical
Construction

[5] References

Please see below for a list of MSS external references.

Eric Fix

Rodgers Builders, Inc.

704-363-5759

efix@rodgersbuilders.com

Jeff Fox

Robins & Morton

704-421-4032

jfox@robinsmorton.com

Travis Forrester

Greenville County School District

864-263-8526

tforrester@greenville.k12.sc.us