Expression of Interest for Parking Garage Consulting Services CEOI 0211 GSD1600000006





PO Box 469 Alum Creek, WV 25003-0469



Expression of Interest for Parking Garage Consulting Services CEOI 0211 GSD1600000006

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November 11, 2015

Ms. Laura Hooper, Senior Buyer Department of Administration Purchasing Division 2019 Washington Street, East Charleston, West Virginia 25305-0130

Re: Expression of Interest for Parking Garage Consulting Services CEOI 0211 GSD1600000006

To the Selection Committee:

With over 25 years of experience, CAS Structural Engineering provides professional structural engineering services for a variety of building projects, ranging from new construction to additions and renovations, to repairs and historic preservation. Carol A. Stevens, PE, is the firm president and will be the engineer of responsible charge for this project. Ms. Stevens has over 25 years of experience with building structures in West Virginia, Pennsylvania and Ohio. CAS Structural Engineering is a small, local, West Virginia Certified Disadvantaged Business Enterprise that will give you personal attention.



ENGINEERING, INC.



CAS Structural Engineering has been involved with numerous building structure repairs, including several parking garage condition assessments and repair projects. Located in Alum Creek, CAS Structural Engineering will serve as the prime consultant on this important project. The subconsultants that we have teamed with are as follows: Stroud Pence

Structural Engineers (Virginia Beach, VA - original garage structural engineering design firm), Miller Engineering Inc. (Morgantown, WV) for mechanical, electrical and plumbing engineering issues, WYK Associates (Clarksburg, WV) for

architectural issues and Terracon (Charleston, WV), for testing services. This team has extensive experience with assessing parking and building structures and providing constructible, cost-effective solutions. The following information should serve to introduce and qualify the various members of the team that we propose to complete the tasks outlined in the scope of the request for proposal.



As you review the following information, it will become evident that as a team we bring extensive parking structure and building restoration and renovation experience to your project. CAS Structural Engineering invites an opportunity to present our design team for your evaluation and we are available to work on your project immediately. If you have any questions

PO Box 469 • Alum Creek, WV 25003-0469 304-756-2564 304-756-2565 www.casstruceng.com

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PROJECT CONCEPT

Working as a team with CAS Structural Engineering as the lead consultant, we will follow a proven method for assessing the condition of the parking structure. This will initially involve all consulting disciplines including structural engineering, architecture and mechanical/electrical/plumbing engineering. Our team members have worked together for a number of years, including some for almost 20 years, and have successfully completed a number of projects of this type.

Review of Existing Conditions:

Our team will perform a comprehensive visual condition assessment of the existing structure, noting the areas in need of repair. The review will be in accordance with the Precast/Pre-stressed Concrete Institute's "Maintenance Manual for Precast Parking Structures" and will address structural, architectural, mechanical, electrical and plumbing components.

Review of Existing Plans and Specifications:

The CAS Team includes Stroud Pence Structural Engineers as a team member who developed the existing Plans and Specifications for the garage. The next step in the assessment will be to perform a thorough review of these plans and specifications, the shop drawings and other records from the construction, as well as any additional reports and work that have been performed on the structure since it was constructed.

Conduct Meetings with GSD Staff:

During meetings conducted with GSD Staff, work to obtain any additional information related to work that has been completed but possibly not documented.

Conduct Additional Testing:

Based on the conditions observed while on site, there may be a need to perform additional destructive or non-destructive testing. Materials tests, including laboratory sampling and testing will also be completed as appropriate.

Prepare Condition Assessment Report:

The Condition Assessment Report will be compiled for the Owner's use. The report will include text of findings from the review of existing conditions, plans and specifications, and other available records in addition to photo documentation. Any testing results will also be a part of this report.

Recommendations for repairs will be prioritized and detailed and a preliminary cost estimate and schedule will also be provided at this time. Future maintenance issues will be addressed in accordance with the "Maintenance Manual for Precast Parking Structures" in order for the Owner to maintain the structure to help prevent additional deterioration and/or damage. We will meet with the Owner to discuss the report at the Owner's convenience.

Additional Services – Construction Documents, Bidding and Construction Administration:

If required, the CAS Team will provide the following services:

Construction Documents:

During this phase of the project, repairs will be detailed and documented on a set of construction plans and in the specifications for contractors bidding the project. The cost estimate will also be updated.

Bidding:

The CAS Team will attend the Pre-Bid meeting. During this phase, we will answer any questions that pertain to the construction documents and assist the Owner with the bid evaluation after the receipt of pricing.

Construction Administration:

During the construction phase of the project, we will participate in periodic progress meetings as needed at the site to evaluate the progress and report to the Owner. Additionally, CAS will review all pay applications, the CAS Team will review shop drawings, product submittals, and the remediation of any systems. Foremost, the CAS Team can evaluate and answer contractor questions, create solutions and adjust the work to overcome any "found" conditions, which are inevitable in repair and renovation projects. The same individuals that were key in developing the construction documents will perform the construction administration functions. We will also assist the Owner in project close-out.



TEAM QUALIFICATIONS

The CAS Structural Engineering Team (CAS Team) consists of several firms that have a history of working together over the years. CAS Structural Engineering will be the lead consultant, with Stroud Pence Structural Engineers working hand-in-hand with us. Stroud Pence is the original project structural Engineer of Record and has intimate knowledge of this structure. WKY Associates will address any architectural items, while Miller Engineering will handle the mechanical, electrical and plumbing issues. Terracon is part of the team and will conduct testing and inspection related work, mainly associated with concrete and structural steel testing. All team members have worked with the State of West Virginia on various projects, with CAS Structural Engineering working on projects on the Capitol Campus for the last 18 years. Notable work completed by CAS includes work on the Capitol Dome Restoration, the Capitol Building Exterior Façade Restoration, the WV Veterans Memorial Restoration, the Governor's Mansion, Holly Grove Mansion and other projects. The CAS Team is very aware of the unique conditions surrounding performing work on the Capitol Campus.

This section of our submittal includes qualifications for all of the team members that will be involved with this project.





FIRM PROFILE

CAS Structural Engineering, Inc. — Founded in 2001, CAS Structural Engineering, Inc. is a <u>West Virginia Certified Disadvantaged Business Enterprise</u> structural engineering firm located in the Charleston, West Virginia area. As a <u>local engineering firm</u>, CAS Structural Engineering has easy access to the project location and is able to meet with the Owner whenever needed on short notice.

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 25 years on the following types of building and parking structures:

- Governmental Facilities (including Institutional and Educational Facilities)
- Industrial Facilities
- Commercial Facilities

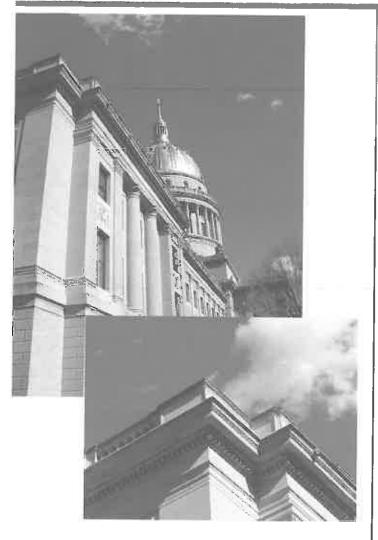
Projects range from new design and construction, additions, renovation, adaptive reuse, repairs and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to condition surveys/evaluation studies/reports and analysis.

CAS Structural Engineering utilizes AutoCAD for drawing production and Enercalc and RISA 2D and 3D engineering software programs for design and analysis. Structural systems designed and analyzed have included reinforced concrete, masonry, precast concrete, structural steel, light gauge steel and timber.

Carol A. Stevens, PE is the firm President and will be the individual responsible for, as well as reviewing, the structural engineering design work on every project. Carol has over 25 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering.

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Project Experience



CAPITOL PARAPET WALL REPAIRS

Charleston, West Virginia

This project included an exploratory investigation and preparation of construction documents for repairs to the limestone and brick parapet wall and balustrade at the top of the Capitol Building.



CAPITOL DOME RESTORATION

Charleston, West Virginia

This project included an exploratory investigation and preparation of construction documents for repairs to the structural steel in Capitol Dome.



Project Experience



BUILDING 3 CANOPY REPAIRS

Charleston, West Virginia

Structural design of repairs to existing limestone canopy and supporting structural elements. Discovered that as-built conditions differed from original design documentation



GEORGE WASHINGTON HIGH SCHOOL

Charleston, West Virginia

Structural design of additions to include new 3-story classroom addition, new entrance/commons addition, and new gymnasium addition for Kanawha County Schools.



3RD AVENUE PARKING GARAGE

Huntington, West Virginia

Completed a condition assessment of the existing multi-level parking garage with retail space located at the first level. Prepared construction documents for structural repairs, including façade upgrades.

Project Experience







JOHNSON AVENUE PROFESSIONAL BUILDING

Bridgeport, West Virginia

Structural design of new 9,400 SF steel framed office building.

YORK COUNTY GOVERNMENT CENTER

York, Pennsylvania

Structural analysis and design of 1898 former department store converted to county government offices. Interior renovations included adding floor framing at mezzanine level, analyzing and redesigning deficient floor framing, and adding new elevators. Exterior renovations included complete façade rework to recreate original appearance.

METROPOLITAN EDISON

Reading, Pennsylvania

The two-story, 5000 SF lobby replaced an outdated 1200 SF lobby and business office. The lobby addition, which serves as a focal piece for the Headquarters Complex, contains several conference rooms and a second floor bridge spanning the width of the lobby. The lobby addition consisted of structural steel framing. An 80,000 SF office addition was constructed during the second phase of this project. A semi-circular cafeteria addition was located at the rear of the complex.

Carol A. Stevens, PE, F.ASCE

Structural Engineer



EDUCATION

West Virginia University, BSCE, 1984 Chi Epsilon National Civil Engineering Honorary The Pennsylvania State University, ME Eng Sci, 1989

PROFESSIONAL REGISTRATION

P.E.	1990	Pennsylvania
P.E.	1991	West Virginia
P.E.	1994	Maryland
P.E.	2008	Ohio
P.E.	2010	Kentucky
P.E.	2013	Virginia

BACKGROUND SUMMARY

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2001 - Present	President, Structural Engineer
	CAS Structural Engineering, Inc.
1999 – 2001	Structural Engineer
	Clingenpeel/McBrayer & Assoc, Inc.
1996 – 1999	Transportation Department Manager
	Structural Engineer
	Chapman Technical Group, Ltd.
1995 – 1996	Structural Engineer
	Alpha Associates, Inc.
1988 – 1995	Structural Department Manager
	Structural Engineer
	NuTec Design Associates, Inc.
1982 – 1988	Engineer
	AAI Corporation, Inc.

PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineers National Society of Professional Engineers American Concrete Institute American Institute of Steel Construction West Virginia University Department of Civil and **Environmental Engineering Advisory Committee** West Virginia University Institute of Technology Department of Civil Engineering Advisory Committee



RELEVANT EXPERIENCE

West Virginia, Thomas Memorial Hospital Parking Garage: Performed condition survey for entire structure and prioritized repairs. Designed structural repairs to existing parking facility which included repairs to one precast concrete column, repairs to column corbels and double T deck structure, new sealants and coatings. Work is being completed in phases.

West Virginia, St. Francis Hospital Parking Garage: Performed condition survey for entire structure and prioritized repairs. Designed structural repairs to existing parking facility and currently awaiting funding to begin repairs in phases.

West Virginia, 3rd Avenue Huntington Parking Garage: Performed condition survey and designed structural repairs to existing parking facility. New deck expansion joints were installed at the upper level and a new deck coating system was applied to parking level above retail space.

West Virginia, State of West Virginia Building 2, California Ave Parking Garage, Charleston, WV: Performed condition survey of existing 1950's reinforced concrete parking facility and recommended repairs to Owner. Owner opted to raze structure.

West Virginia, St. Mary's Parking Structure: Performed condition survey of existing post-tensioned parking structure designed in 1978. Recommended repairs to the Owner.

Pennsylvania, Sewickley Manor Parking Garage: Performed condition survey of existing parking structure constructed in the 1960's. Structure consists of precast concrete beams and joists supported by concrete columns. Recommended repairs to Owner.

Pennsylvania, Holiday Inn Parkway East: Performed condition survey of existing structure designed in 1974. Determined that there were structural deficiencies and recommended repair solutions to Owner.

Pennsylvania, Fifth & Neville Apartments Parking Garage: Performed condition survey of existing parking structure constructed in the 1960's. Recommended repair solutions to

West Virginia, Veterans Memorial: Recently completed repairs to precast concrete bridges and limestone at the Veterans Memorial on the WV Capitol Campus.

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CERTIFICATE OF Authorization

The West Virginia State Board of Registration for Professional Engineers having verified the person in responsible charge is registered in West Virginia as a professional engineer for the noted firm, hereby cartifies

CAS STRUCTURAL ENGINEERING, INC. C01212-00

Engineer in Responsible Charge: CAROL STEVENS - WV PE 011291

has complied with section \$30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board dereky notifies won of its certification with images of this Certification of Authorization for the period of:

July 1, 2015 - December 31, 2015

providing for the practice of engineering services in the State of West Verginia.

OF YOU ARE RECQUEED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE.
PLYASE SUBMITTHES CERTIFICATE WITH YOUR AFFLICATION.

IN TESTIMONY WHEREOF THE WEST VERSINIA STATE BOARD OF RECHSTRATION TOR PROFESSIONAL SPICENTERS HAS ISSUED THIS OCA UNDER ITS SEAL AND SIGNED BY THE FILESTORY OF SAID ROADS.

POSED PROSIDENT

West Virginia State Board of Registration for Professional Engineers

CAROL A. STEVENS

This is to certify that the above named PROFESSI/NAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

EXFIRES December 31, 2016





About Stroud Pence

Headquarters:

5032 Rouse Drive, Suite 200 Virginia Beach, VA 23462 757-671-8626

GENERAL

- Founded in 1974
- Performed work in 36 states
- 31 Current Total Staff
- 16 Licensed Engineers
- SWaM Certified Small Business VA (#9855S)
- Small Professional Services Firm (SPSF) NC

STROUD PENCE (SP) offers design and construction administration services in the field of structural engineering. Other services include investigations of structural failures or accidents, feasibility studies, and design of special structures and foundations. SP has been responsible for the design of buildings and other structures at a rate of over \$800 million in construction value per year. SP has a proven track record of successful structural designs for nearly every conceivable building type over the last 40 years.

SP is on the leading edge of technology in the area of sustainable design. SP also strives to be at the forefront of computer technology, and maintains the hardware and software tools necessary for state-of-the-art high speed analysis and design.

SP has a top to bottom philosophy to approach every project in a spirit of partnership and with a "can-do" attitude. The foundation of our success is our ability to interpret challenging architectural requirements into cost-effective designs, while protecting the safety and welfare of the general public.

Experience with parking garage condition assessments, implementation of maintenance programs, development of construction documents, bid and construction phase services

Over our 41 years of experience, SP has conducted condition assessments of over 150 parking structures throughout the southeast. All of these projects were tailored to the Owner's specific needs and included documentation of existing conditions, prioritized lists of repairs along with cost estimates for the Owner's use in budget planning.





EDUCATION

Bachelor of Science, Civil Engineering, Virginia Polytechnic Institute and State University, 1973

Master of Engineering, Structural/Geotechnical Engineering, Old Dominion University, Norfolk, VA, 1978

MEMBERSHIPS

National Society of Professional Engineers
American Society of Civil Engineers, Fellow
Engineers Club of Hampton Roads
The Construction Specification Institute
American Consulting Engineers Council
Coalition of American Structural Engineers
Virginia Chapter, American Concrete Institute
Virginia Structural Engineers Council
American Institute of Architect, Hampton Roads
Structural Engineers Risk Management Council
Virginia Beach Chamber of Commerce
Small Business Association

PROFESSIONAL ACTIVITIES AND AFFILIATIONS

Virginia Society of Professional Engineers Ethics
Committee, Chairman - Tidewater Chapter
Virginia Society of Professional Engineers, Board of
Directors - Tidewater Chapter
Virginia Structural Engineers Council, President
Structural Engineers Risk Management Council
(SERMC), National Committee/ Board of Directors
Coalition of American Structural Engineers (CASE),
Past President, National Committee Member
Old Dominion University, College of Engineering
Advisory Board

PROFESSIONAL ENGINEERING REGISTRATIONS

Georgia, Maryland, North Carolina, New Hampshire, New Jersey, South Carolina, Virginia, West Virginia, New York, Delaware, Connecticut, Alabama

Edward W. Pence, Jr., PE, SE, F. ASCE, EXW Founding Partner

Role: Principal in Charge

Founding partner and CEO emeritus of Stroud, Pence and Associates; a 30+ person structural engineering firm with offices in Virginia Beach and Richmond VA, and Raleigh NC. Mr. Pence has been actively involved in the aspects of structural engineering since 1973, and have been with the firm since 1977.

For over 40 years, Mr. Pence maintained administrative and technical responsibility for structural engineering aspects of a broad range of projects ranging from small investigations to multi-million dollar projects.

Responsibilities included development of project criteria and establishment of preliminary budgets, supervision and quality control for production of construction documents, and quality control during construction. He has also been active in peer review of engineering firms across the country.

Responsibilities have encompassed all types of structures, including educational, municipal, commercial, residential, industrial, and Department of Defense facilities; I have extensive design experience in the renovation and rehabilitation of various types of facilities, including seismic upgrade. Also, he has extensive experience in Anti-Terrorism and Force Protection design for all types of buildings, including blast design, and progressive collapse.

Mr. Pence has served as an expert witness in a wide variety of legal cases, on behalf of both plaintiff and defendants, and is a Certified "Engineering Expert Witness" (EXW) by the American Council of Engineering Companies.

Mr. Pence remains actively involved in both the technical and business activities of the firm as a consult on special projects, nurturing client relationships, mentoring a new generation of engineers, and maintains his role as Chairman of the Board of Directors.

PROJECT EXPERIENCE

- Charleston House Hotel Investigation, Charleston, WV
- Capitol Garage Inspection, Charleston, WV
- St. Francis Hospital Parking Garage Study, Charleston, WV
- Harbour Place Condominium Parking Garage Repair, Norfolk, VA
- Parking Garage Investigation, Eastern Virginia Medical School, Norfolk, VA
- Garage Alpha Ramp Investigation, Old Dominion University, Norfolk, VA
- 9th Street Parking Facility Repairs, Virginia Beach, VA
- Washington Avenue Parking Structure Investigation, Albany, NY
- Marshall Parking Garage Inspection, Huntington, WV
- Monticello Parking Garage Condition Survey, Norfolk, VA





EDUCATION Civil Engineering, Old Dominion University Associate in Applied Science, Engineering, Tidewater Community College Associate in Applied Science. Business Administration, Erie **County Community College** Computer Science, State University of New York at Buffalo

CERTIFICATIONS

NRMCA Certified Concrete Technologist Post-Tensioning Institute - Certified Post Tensioning Inspector ACI Concrete Field Testing Technician -Grade 1 ICC - Reinforced Concrete Special Inspector ICC - Structural Steel and Bolting Special Inspector ICC - Masonry Special Inspector

PROFESSIONAL ACTIVITIES AND AFFILIATIONS

ICC - Structural Welding Inspector

American Institute of Steel Construction American Welding Society American Concrete Institute National Ready Mixed Concrete Association The Society of American Military **Engineers** Roofing Industry Education Institute American Wall and Ceiling Institute Exterior Design Institute International Concrete Repair Institute

Michael E. Behm, Construction Inspector Role: Construction Inspector

EXPERIENCE AND QUALIFICATIONS

Mr. Behm has experience as a geotechnical and construction engineer and has managed numerous construction testing projects including troubleshooting problems with concrete, soils, masonry, floor flatness, structural steel, EIFS, pavements and roofing systems.

Special Inspections: Mr. Behm has managed hundreds of construction and testing projects. He has consulted with clients. architects and engineers in developing testing programs to meet special inspection requirements for all types of construction projects. He has managed testing programs for manufacturing, mid-rise structures, commercial and retail development. He has reviewed construction testing reports, resolved problems related to construction materials and construction problems.

Testing and Inspection: Mr. Behm has managed numerous construction and testing projects on government facilities. He has managed testing programs in conjunction with a CQC manager for new and rehabilitation construction on local military installations including Norfolk Naval Shipyard, NOB Norfolk, NAS Norfolk, NAS Oceana, Little Creek Amphibious Base, Langley AFB, Yorktown Naval Weapons Station and Fort Eustis. He has reviewed construction testing reports, resolved problems related to construction materials and construction problems.

PROJECT EXPERIENCE

- Fairmont City Parking Structure. Fairmont. WV
- Oceans Condominium Parking Deck Repairs, Phase II, Virginia Beach, VA
- 11th Street Parking Garage Stairs, Virginia Beach, VA
- Ft. Lee Structural Inspections, Ft. Lee, VA
- Oyster Point Town Center Block 2 Fountain Way Parking Structure. Newport News, VA
- Norfolk Highlands Primary Investigation, Chesapeake, VA
- Norfolk Technical Center Horticulture Building Investigation. Norfolk, VA
- The Westovers Apartment Building Investigation, Norfolk, VA
- Southeastern Virginia Training Center Condition Survey, Chesapeake, VA







Firm Profile

Our engineered solutions involve a detailed assessment process: investigation, observation, communication with stakeholders, system analysis, building modeling and engagement from our entire team. We approach each and every project with this process and the guiding principle that buildings are designed to be livable and function in their intended purpose.

Over the past 13 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$17.2M in mechanical system upgrades, repairs and renovations for projects of all scopes and sizes, with clients ranging from private owners to local and state governments.



With a strict attention to detail and commitment to delivering a job done well and done right the first time, every time, **MEI has** accumulated a change order percentage of less than 0.1% over the past 8 years.



Our team has unique skill-sets regarding engineered renovation solutions. Each member of the team has hands-on mechanical system experience including installation, construction, design and maintenance.

Miller Engineering takes pride in being different by design, and that difference shines through in all phases of our work and continued relationships with our clients.



- **Experienced and Licensed Professional Engineers**
 - Quality, Value-Engineered Project Delivery
- Qualified Construction Representative on Staff
 - LEED-AP Certified
 - **Below Industry Change Order Status**
 - **Building Information Modeling**
 - Interactive Solutions Provider
 - **Emergency Facility Response**



- Mechanical
- Electrical
- Plumbing
- **HVAC** Design
- Renovation
- **New Construction**

Aquatic Facility Design

Public Pools & Areas ADA Compliance Indoor & Outdoor (air flow) Chlorination/Filtration

Construction Administration

Maintenance/Facility Improvement Plans **Contract Administration** Code Observation

> Communication System Intercomm & Public Address Voice/Data/CATV **Urgent Response**

Energy

Power Supply (main & backup) **Green & Renewable Consulting** Systems Utilization & Upgrades **Sustainable Solutions**

Facility Utilization

Systems Assessment & Solutions Adpative Re-use Planning/Life-Cycle Control **Engineered Replacement**

Life Safety Inspection/Design

Fire Protection & Alarm Systems **Access Control** Fire & Electrical Investigation

Industry Experience

Education Local & State Government Commercial Development Healthcare Public Pools (indoor & outdoor)

Department of Parks & Recreation







B. Craig Miller, PE

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 20 years experience in design, specification, operations and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction. His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency and maintenance/renovation, among others, allows him to serve in multiple capacities within a given project. Craig will serve as the "Relationship"

Manager" for Miller Engineering as the main communication interface between the Owner, the design team, contractors and end users.

Project Role: Relationship Manager -- Primary Point of Contact

- Engineer in Responsible Charge
- Design and Project Management of Mechanical, Electrical, Plumbing Projects
- Concept and Construction Design
- Business Operations and Financial Management Oversight
- Quality Assurance and Control

Professional Project Highlights

- WVU Recreation Center Indoor Pool Owner's Engineer
- WVU Life Sciences Building and Student Recreation Center Owner's Engineer
- Camp Virgil Tate
- Mapletown High School HVAC Replacement
- Advanced Surgical Hospital
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Beech Fork State Park MEP New Construction Design
- WVU Willowdale Walkway

Professional History

Miller Engineering, Inc.	President, Relationship Manager
Casto Technical Services	Existing Building Services Staff Engineer
Uniontown Hospital	Supervisor of Engineering
West Virginia University	Staff Engineer
BOPARC	Caretaker – Krepps Park
University of Charleston	Electrician/HVAC Mechanic
	Casto Technical Services Uniontown Hospital West Virginia University BOPARC

Education

1995	West Virginia University	BS- Mechanical Engineering
1988	University of Charleston	BA- Mass Communications

Licenses and Certifications

- Professional Engineer (West Virginia, Pennsylvania, Maryland, and Ohio)
- Licensed Master Plumber
- LEED-AP Certified





Travis Taylor, PE

Experience in project management facilitates Travis's ability to create and design constructible projects. Prior to joining the Miller Engineering team he was directly responsible for managing \$10 million in electrical construction budgets. His experiences encompass both new construction and renovation. Travis maintains professional competencies by attending seminars and continuing education classes. As lead engineer he provides HVAC, mechanical, plumbing and electrical design solutions and services for our clients. In addition, he is part of our team's complete assessment process in both

planning and MEP design through construction administration.

Project Role: Lead MEP Engineer

- Design of Mechanical, Electrical, and Plumbing Systems
- Constructible Materials Evaluation
- Site Evaluation and Mechanical System Review
- Submittal and RFP Review
- RFI Coordination, Review, and Response
- Construction Observation

Professional Project Highlights

- Krepps Park ADA Upgrades
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Beech Fork State Park Lodge Design Development
- Pipestem Lodge McKeever Lodge HVAC Piping Replacement
- WV Veterans Memorial Restoration
- Bobtown Elementary School HVAC Upgrades

Professional History

2011-Present

Miller Engineering, Inc.

Staff Engineer

2006-2011

Tri-County Electric, Co.

Project Manager

2006-2006

Schlumberger

Field Engineer Trainee - MWD

Education

2006 West Virginia University, BS – Mechanical Engineering

Licenses and Certifications

- Professional Engineer State of West Virginia
- OSHA 10-hour Course: Construction Safety & Health





Jack Jamison

Jack brings 15 years as an electrical/building inspector and over 25 years of experience in the commercial electrical construction industry. His knowledge and experience are valuable resources to Miller's complete assessment process.

Project Role: Code and Construction Specialist

- Facility Review, Code Research, and Project Evaluation
- Field Observations and Issue Resolutions

Professional Project Highlights

- Board Member of the WV Code Officials
- Founder and Secretary of the West Virginia Division of the International Association of Electrical Inspectors
- IAEI Ohio Chapter Membership Chair

Professional History

2010- Present Miller Er

Miller Engineering, Inc.

Code and Construction Specialist

1999-2010

Megco Inspections

Chief Inspector

1972-1998

Jamison Electrical Construction

Master Electrician

Education

1971 Fairmont State College, BS-Engineering Technology-Electronics

Licenses and Certifications

- Master Code Professional, IAEI Master Electrical Inspector, Class C Electrical Inspector WV, PA, MD, & OH
- ICC Commercial Building, Building Plans, Commercial Plumbing, Residential Energy, and Accessibility Inspector/Examiner
- WV Master Electricians License
- NCPCCI-2B, 2C, 4B, 4C: Electrical & Mechanical General/Plan Review
- OSHA 30 Hour Course: General Industry
- NFPA Code Making Panel 14 NEC 2014 Edition



Joseph Machnik

Joe has experience with AutoCAD, MEP and Revit MEP. He provides design modeling, drafting and supervised design services and construction support for Miller Engineering.

Project Role: MEP Designer

Revit/CADD Coordination of New Construction and Renovation Designs

Professional History

2010 - Present Miller Engineering, Inc. MEP Designer

Education

2008 Penn State - Fayette, AS - Building Engineering Systems Technology: Building Environmental Systems Technology
 2007 Penn State - Fayette, AS - Building Engineering Systems Technology: Architectural Engineering Technology





Robert Angus

20 Years of maintenance, operations, and construction management precede Rob's engagement with Miller Engineering. Professional expertise of construction project management was gained as an owner of his own contracting company specializing in residential and commercial construction, electrical, plumbing, and HVAC projects. Rob's hands-on approach, common sense and valuable work history knowledge enables him to interface with construction personnel seamlessly alongside engineers and architects. He is adept at preventing and handling issues. Rob is involved at the estimation phase

to allow for continuity within the project's design and construction.

Project Role: Construction Representative

- Construction Project Representation and Management
- Project Cost Estimation
- Submittal Review
- RFI, RFPCO Review and Response

Professional Project Highlights

- 3RD Party Construction Observation Canaan Valley Resort
- Advanced Surgical Hospital
- Cheat Lake Elementary HVAC Upgrade
- Suncrest Middle School Gym HVAC Upgrade
- North Elementary School Boiler/AC
- Mapletown Jr./Sr. High School HVAC/Boiler Upgrade
- WVU Research Building Office Renovation

Professional History

2009- Present Miller Engineering, Inc. Aquatic Construction Representative

2000-2009 Angus Contracting, LLC Owner/Operator

1991-2000 BOPARC Director of Maintenance

Education

2000 Monongalia County Technical Education Center
 1996 West Virginia University
 Heating, Cooling, and Refrigeration Certification
 Recreation and Parks Administration

Licenses and Certifications

- Licensed West Virginia General Contractor
- Licensed West Virginia HVAC Contractor
- Certified HVAC Mechanic Contractor
- Licensed West Virginia Journeyman Electrician
- Licensed West Virginia Master Plumber
- OSHA 10-Hour Construction Safety & Health





Identity · Project Philosophy · Project Management

www.wykarchitects.com







Our Identity

Who we are

WYK Associates, Inc. is a full service architectural and planning firm serving a wide variety of commercial, religious, educational, civic and industrial clientele.

WYK Associates, Inc. was established in 1900 by Edward J. Wood. Our archives are filled with a century's worth of historic work. From this, many predecessors who have carried the torch of the firm through the last century.

Wood's grandfather's firm had roots in North Central West Virginia dating back to the early twentieth century. William Yoke, Jr. and Howard Kelley partnered with Mr. Wood in 1974 to form WYK Associates, Inc.

Mr. James Swiger joined the firm in 2005 and became a principal and vice president in 2008. In 2010, Mr. James Swiger assumed sole owner of WYK Associates, Inc.

Project Philosophy

Our process at work

COMMUNICATION & TEAMWORK are our guide words for each project. Our client's requirements for quality, service and value are the driving force behind each decision.

Through collaboration with engineering consultants we address the needs and schedule requirements of each client.

We provide thorough planning in all areas of each project to fit the individual requirements for a positive impact on both the natural and built environments. Energy conservation and product safety are very important concerns.

Project Management

How we create excellence

We carefully evaluate the client's program, design concerns, budget, funding sources, and other available data to assure a clear understanding of each project.

We incorporate input from our client and consultants to establish the budget and schedule. These facets are updated during each stage of project development to insure our client's parameters are met.

WYK's principals engage and manage the entire project team, from concept through occupancy. WYK Associates, Inc. has an outstanding reputation for providing construction administration services along with maintaining an excellent rapport with contractors.

A building stands as a tribute to you and) your firm for a job well done.

-Charles A. Feathers, Chief Bridgeport Fire Department, Retired



Identity · Project Philosophy · Project Management

Architecture

Contact Information

WYK Associates, Inc. 205 Washington Avenue Clarksburg, WV 26301

304-624-6326

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304-623-9858 Fax

www.wykarchitects.com

Project Staff

James B. Swiger AIA, NCARB, LEED AP BD+C President / Principal-in-Charge

james@wykarchitects.com

Stephen M. Kelley Associate AIA Senior Project Manager

stephen@wykarchitects.com

Meghann Gregory Associate AIA Job Captain

meghann@wykarchitects.com

Jordan Garland Client Relationship Manager jordan@wykarchitects.com

Memberships















Summary

Established as a full service architecture firm in 1900, then named Edward J. Wood Architect, WYK Associates, Inc. has been located in Clarksburg for 115 years. Through innovative and thoughtful responses to the unique issues of each project, our goal is to create places that fit the needs and desires of those who use them

Our team approach integrates the collaborative strengths of each member to produce a solution of balance between design quality, schedule and budget. We have always considered sustainability, the built environment, and quality of life long before the public began to focus on its benefits. We take seriously the responsibility of designs and solutions to be cost effective and operate efficiently throughout the building's lifecycle.



West Virginia Folklife Center. Fairmont State University Central Fire Station, Clarksburg, WV Circleville School, Pendleton County, West Virginia Harrison Co. Courthouse. Clarksburg, WV Pocahontas County Courthouse,

Marlinton, WV

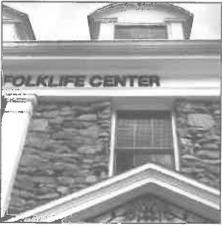
Barbour County Courthouse. Philippi, WV

Gassaway Depot, Gassaway, WV

Morgantown Depot, Morgantown, WV

Immaculate Conception Parish Center, Clarksburg, WV

Jackson Square, Clarksburg, WV



West Virginia Folklife Center



Central Fire Station



Circleville School



Identity · Project Philosophy · Project Management

Awards









ALL-ACHIEVEMENT IN ARCHITECTURAL DESIGN MIDDLE-INTERIORS BOTTOM-UNBUILT

Fairmont State University –
Frank & Jane Gabor Folklife Center
Fairmont, West Virginia

Size: 6,900 S.F.

The Folklife Center was constructed in 1903 by Michael Kennedy and is the last remaining vestige of the Kennedy's dairy farm. The building had been seriously compromised by years of neglect and fire damage. Due to the building's history and notable residents, it was placed on the National Register of Historic Places in 2006.

FSU-Interior Design Fairmont, West Virginia

After developing an architectural program for the Folklife Program, WYK Associates, Inc. decided to remove a floor from the existing structure and create a first floor classroom area, and a second floor "Great Room" which would restore the open structure of the barn and provide both exhibit and multi-use space.

Shinnston Community Center Shinnston, West Virginia

Size: 17,000 S.F.

The facility will serve as a performing arts center, a look out for downtown events such as parades, etc. A much needed large banquet hall, accommodating 350 people, will provide the city with a gathering space for meetings and community organization. There is also a room solely dedicated to the Shinnston Senior Citizens, and another additional meeting room. The upper level of the building serves as the city administration offices and Council Chambers.



Identity · Project Philosophy · Project Management

Awards



2013 WV-AIA Merit Award for Design Excellence and Sustainable Design



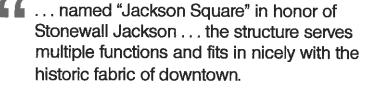
2013 WV-AIA Merit Award for Design Excellence





2013 WV-AIA Merit Award for Design Excellence







Information Manufacturing Corporation (I.M.C.)

Cowen, West Virginia

Size: 18,000 S.F.

With Sponsorship from Senator Robert C. Byrd, the Webster County Development Authority commissioned this "state of the art" facility to house Information Manufacturing Corporation's regional operations. The important notion of sustainability is addressed through use of recycled steel, regional materials, and an innovative geothermal heat pump heating and cooling system.

West Union Bank- Newpointe Clarksburg, West Virginia

Size: 9,000 S.F.

The design uses a combination of glass curtain wall with brick and monumental masonry units to present a very contemporary image. Because of the building orientation, the glass elevations require the use of solar glazing and a brise soliel system to reduce heat gain and glare in the offices.

West Pike Street Parking Facility Clarksburg, West Virginia

Size: 57,000 S.F.

The facility's design compliments all the adjacent properties, both historic and modern. A variety of outdoor activities are easily held here, enhancing the city's economy and livability. Designed by Associated Architectural Consultants, PLLC, which is a combination of Ralph Pedersen Architect & WYK Associates, Inc.





Identity · Project Philosophy · Project Management

3D Laser Scanning / 3D Modeling / 3D Printing

WYK Associates. Inc. welcomed the New Year by taking a leap of progress in architectural design. By acquiring a color 3D printer, the Clarksburg architectural-planning firm themselves on the map as an industry leader in the region.

3D printing technology is just now becoming available, commercially. A color 3D printer creates a physical. three-dimensional gypsum-based model of any project from a digital prototype in nearly three million colors, allowing for exact detailing in every model.

"Our refined modeling process allows our clients to see and touch a new building at scale, but with its actual features. It enables our clients to make educated choices with less variance between their expectation and the actual outcome," states James B. Swiger, President of WYK Associates, Inc.

The decision to purchase a color 3D printer was not made lightly. Evaluating different brands, methods

and technologies in 2013 and visiting maker labs and distributors inand out-of-state, WYK opted for a solution tailored to the architectural environment and the company's clients, by choice the "greenest", most environmentally friendly model available to date.

To unleash the full potential of the 3D printer, WYK partners with ZDS Design/Consulting Services on 3D laser scanning. In the process of 3D laser scanning, laser beam signals that collect survey data points are used to capture images, make drawings and record measurements of a structure.

Combining the two technologies, existing buildings are scanned to the accuracy of one millimeter and then recreated as scale models on the 3D printer. An exciting combination another first for the region - producing results greater than the sum of its parts.

"The possibilities are endless, and we have only just begun," says Swiger enthusiastically.



3D Laser Printing



Physical Model Preparation



Shinnston Community Center Physical Model



3D Laser Scanning



WYK ASSOCIATES, INC. ARCHITECTURE * PLANNING

Company Information

115 Years of Excellence in Architecture



Rooted in History

The history of WYK Associates, Inc. is intertwined with the history of architecture in West Virginia. Through the years, countless buildings have been designed, expanced, and renovated by our company and it's predecessors.

Focus on Knowledge

Our staff is academically trained. all of our Architectural Interns have a degree in architecture from the East Coast's most prominent design schools. We know that professional development and enrollment with the professional organizations of our trade is the key to skilled employees.

Backed by Experience

We have been involved multitude of projects serving clients of the private, industrial and public sectors. From LEED-certified building design and complex multi-phase additions to the careful renovation of historical landmarks or our national heritage, we hav ebeen instrumental our client's building success.

Passing the Torch

With generations of skilled architects contributing to the growth, values and success of our company, we developed a reliable process and keep an archive of documented solutions for architectural problems and planning challenges. helps us to save time and resources, providing an advantage for our clients.

Ready for the Future

We are the first West Virginia architect to offer 3D printing solutions in-house, and with integration of 3D scanning and BIM in our projects, we are ready for the future of our trade.

2015

WYK Associates, Inc. signs contract to renovate the Robinson Grand Theatre

WYK Associates, Inc. selected to renovate Rose Garden Theatre. formerly Robinson Grand Theatre

James Swiger becomes sole owner of WYK, now President and Principal-In-Charge

William E. Yoke, Jr. retires, James Swiger becomes President

James Swiger becomes Partner and Vice President

James Swiger returns as Project Architect

1996

James Swiger becomes an Architectural Intern at WYK Associates,

1996

Carleton Wood, Jr. retires: William E. Yoke, Jr. becomes President

1992

Howard Kelley retires

WYK Architects, Inc. becomes WYK Associates, Inc.

Carleton Wood, Jr., William E. Yoke, Jr. and Howard Kelley form WYK Architects, Inc.

1973

Whalen King Architects purchases W.H. Grant's firm

Carleton Wood, Jr. joins Whalen King

William E. Yoke, Jr. is a summer college intern

William H. Grant, Jr. acquires firm

Carleton Wood, Jr. joins firm as apprentice

Carleton Wood selected to rebuild **Robinson Grand Theatre**

Carleton Wood designs Clarksburg Fire Station

Firm changes to E.J. Wood and Son Architects as Carleton Wood joins

Edward J. Wood commissioned Marion County Jail

1900

Edward J. Wood starts architectural



Publications

WYK Associates, Inc.

West Virginia Executive Magazine 2015 Young Guns **Award Recipient**

Written by Maggle Matsko I Photography by Tracy Toler on location at 1-79 Technology Park

they grow up, every young boy has big aspirations. Many dream at an early age of becoming a fireman, a professional wrestler or a police officer, and as they get older, those dreams tend to shift gears, leading to entirely different paths. James Swiger, the president of WYK Associates, Inc., is one of the few who have made a childhood dream into a life-long career.

When he was 7 years old. Swiger decided he wanted to become an architect. "When I was very young, my grandfather, the business manager of Salem College, took me to construction sites at the college," Swiger remembers, "He worked with architects on construction projects at Salem College and was always curious about construction. One day, he unrolled a set of blueprints for one of the buildings at the college. He pointed out to me that these drawings were the work of an architect. That's when I knew what I wanted to be."

that taught him about hard work, responsibility and repercussions. Like many other teenage boys. Swiger's first job was mowing grass in the summer for neighbors, shoveling snow in the winter and splitting firewood. In high school, he also worked part-time at the local dollar store, unloading the trucks when they came in, and he helped his neighbor, the caretaker of the local cemetery, by mowing grass and digging graves by hand.

"The most important thing I learned from those first jobs was responsibility," he says. "The longer we put off mowing the grass, the harder it was to mow the next time, and you could not delay the digging of a grave. I also learned that time marches on. You must get the work done in a timely fashion, or it will have an Impact on others."

In 1996, all of those early lessons in hard work and responsibility paid off when he was given an internship with WYK Associates, Inc. In 2005, he returned to the

When asked what they want to be when firm as a project architect then worked his way up to the top of the company, serving in the positions of project manager, vice president and now president and owner. "I guess you can call it serendipity," he says, "but to me, it was a calling."

> Swiger credits most of his success to the guidance he received from his grandparents. When Swiger was 10 years old, his grandfather passed away, and Swiger's grandmother took over the responsibility of encouraging the young boy to pursue his dream of being an architect. "I would like to show my grandfather where I am now," Swiger says. "I found my calling in life for my career because of him, as he showed me my first set of blueprints and took the time to explain them to me."

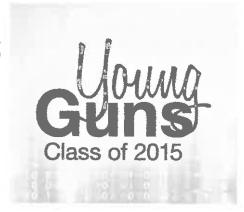
Swiger also credits his grandparents for instilling in him the importance of community service. His grandfather was involved with the Shriners, Kiwanis, Swiger had several jobs as a teenager Lions Club, the YMCA board and the local chamber of commerce, and his grandmother, who owned a flower shop. made efforts through her small business to support her neighbors. Today, Swiger continues their legacy of service through multiple roles in the Clarksburg community. He is a member of the board of directors for the Kiwanis Club of Clarksburg, a board member and campaign chair for the United Way of Harrison County, a board member and education committee chair for the Harrison County Chamber of Commerce. a board member of Clarksburg Uptown and an advisory committee member for Salem International University's School of Business. He also holds memberships with the Salem Area Chamber of Commerce and the Clarksburg Elks Club,

> "I believe in giving back to the community." he says of his many commitments to his hometown, "because the community is just that: a community. As we are all in this together, doesn't it make sense to make the place you call home the best it can



What is your favorite ...?

Color - Blue Food - Steak Cartoon Character - Foghorn Leghorn Ice Cream - Cherry vanilla Animal - Dog App - Flashlight Midnight Snack - Apple TV Show - "American Pickers" Movie - "Caddyshack" Smell - Fresh-cut grass Sport Team ~ University of Tennessee Volunteers Car - 1972 Jaguar XKE Pet - German shepherd Place - Neyland Stadium in Knoxville, TN on gameday





Resumes

Team Profiles

www.wykarchitects.com > About WYK > Team



James B. Swiger AIA, NCARB, LEED AP BD+C

President/Principal-In-Charge

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james@wykarchitects.com

Memberships



















Vita

He is a Hamson County native involved with several community and professional organizations. James most recently was elected to the Harrison County Chamber of Commerce Board of Directors. He is an active member of the United Way of Hamson County, Inc., holding several different positions over the years.

James has gained broad experience in both the private and public sectors of the construction / design industry. His completed work reflects a variety of projects with values ranging from thousands of dollars to over \$22 million.

Education

5-Year Bachelor of Architecture, 1996 University of Tennessee, Knoxville, TN NAAB Accredited University

Architectural Registration

West Virginia
Ohio (
Pennsylvania (
Virginia
Maryland
National Council of Architects (

Honors and Awards

2015 Clarksburg Uptown Business Member of the Year

2015 Campaign Chair - United Way of Harrison County, Inc.

Harrison County Chamber of Commerce Education Committee Chair

2014-15 "Young Gun" WV Executive Magazine

2013 AIA-WV Merit Award for Achievement in Architecture

Design - Unbuilt: Shinnston Community Center, Shinnston, WV

2013 AIA-WV Merit Award for Achievement in Architecture Design; Fairmont State University- Frank and Jane Gabor Folklife Center,

Fairmont, WV - Interior and Exterior

Energy Star Certification, Elkins Middle School, Elkins, WV

2010-11 Cambridge Who's Who Honored Member

2009 West Virginia Kiwanis District Governor's Award for "Promoting Membership Growth"

2008 Volunteer of the Year - Harrison County Chamber of Commerce

2008 Selected "Generation Next: 40 Under 40" by the West Virginia State Journal

2008 Strathmore's Who's Who Worldwide Recipient

2008 AIA-WV Merit Award for Achievement in Architecture

West Pike Street Parking Facility in Clarksburg, WV (Co-Design Architect)

Professional Affiliations

American Institute of Architects

AlA - West Virginia

National Council of Architectural Registration Boards

Accredited Professional U.S. Green Building Council Building Design + Construction

USGBC-WV Chapter

National Trust for Historic Preservation

NFPA - National Fire Protection Agency

WVSHE – Associate Member of West Virginia Society for Healthcare Engineering

Affiliate Member of Builders Supply Association of West Virginia

Civic Affiliations

Clarksburg Uptown - Board of Directors

Salem International University-Advisory Committee to the School of Business

Harrison County Chamber of Commerce – Board of Directors

United Way of Harrison County, Inc. Board of Directors - Executive Committee "Stonewall Leadership Contributor"

Kiwanis Club of Clarksburg 2008/2009 President

Kiwanis Division 3 2009/2010 Lieutenant Governor

Salem International University Auxiliary

Salem Area Chamber of Commerce

West Virginia Kiwanis District –
District 3 – Past Lieutenant Governor

Harrison County Chamber of Commerce – Education Committee Chair

Salem Elementary School Nature/Fitness Trail – Project Manager



Team Profiles

Joe Sinclair

www.wykarchitects.com > About WYK > Team



Joe Sinclair AIA, NCARB, LEED AP BD+C, CDT

Project Architect

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joe@wykarchitects.com

Memberships









Vita

With academic and practical experience in commercial, residential, and historic preservation projects, Joe Sinclair infuses his extensive skill set in the disciplines of architectural planning with a passion for the design of the building envelope. With a focus on Green Building, he ensures that projects are ecologically sustaining while economically feasible.

Joe is a certified leader in the arena of architectural project management, academically and practically well-versed in commercial, residential, and historic building design applications.

Education

Master of Architecture, 2006 Savannah College of Art & Design NAAB Accredited University

BS Engineering Technology, 2002 Fairmont State University

Architectural Registration

West Virginia

Honors and Awards

2013 Placemaker Award for Leadership, Inspiration, Stewardship The Building Conference, Morgantown, WV

2013 Placemaker Award for Sense of Place, The Building Conference, Morgantown, WV

Professional Affiliations

American Institute of Architects

AIA - West Virginia

National Council of Architectural Registration Boards

Accredited Professional U.S. Green Building Council

United States Green Building Council (USGBC) West Virginia Chapter Board Member & Past Chair

University of Charleston Interior Design & Drafting Technology Advisory Council Member

International Honor Society for Technology, Epsilon Pi Tau Member

Volunteer Experience & Affiliations

Hope Floats Initiative - Design Fellow

Canstruction West Virginia - Team Captain

Habitat for Humanity - Volunteer



Resumes

Team Profiles

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Stephen M. Kelley Associate AIA

Senior Project Manager

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Vita

While in college, Stephen worked two years for a construction company that focused mainly on roofing and masonry work of historic homes and buildings in the Philadelphia area. After graduation he took that experience and applied it to several projects at another local architecture firm, all the while completing his profession's required Intern Development Program. He is currently pursuing his professional license.

Stephen has gained broad experience in both the private and public sectors of the construction/ design industry. He has been either the Project Designer or Project Manager in a range of projects totaling over \$22 million in value.

Education

5-Year Bachelor of Architecture, 2000 Philadelphia University NAAB Accredited University

Professional Affiliations

American Institute of Architects (AIA), National Chapter, Associate Member

American Institute of Architects (AIA), West Virginia Chapter, Associate Member

Civic Affiliations

Salem Area Chamber of Commerce - Past Board Member

Harrison County Development Authority - Past Board Member

Fort New Salem Foundation - Current Board Member

Sperry-Davis VFW Post 9151 Quartermaster 2008 - Present

Dept. of WV - District 3 Quartermaster (2015/2016)

Sigma Mu Fraternity Alumni, Mu Pi Chapter

United Way of Harrison County, Inc., Stonewall Leadership Contributor

Associated Memberships







Resumes

Team Profiles

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Meghann S. Gregory M.Arch Associate AIA

Job Captain

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meghann@wykarchitects.com

Associated Memberships











Vita

Meghann began her career at WYK Associates, Inc. in 2014. Her background includes a Master's of Architecture from the University of Tennessee.

Currently pursuing her professional registration, Meghann excels at taking projects from schematic design through to construction administration successfully.

Being from a small West Virginia town, Meghann understands the importance of preservation and is passionate about adaptive reuse within the state. Her experiences also delve into urban planning, code research, and AIA contract documents.

Education

Master of Architecture – 2012 University of Tennessee, Knoxville, Tennessee NAAB Accredited University

Bachelor of Science Architecture, 2007 Fairmont State University

Associate of Science Civil Engineering Technology, 2007 Fairmont State University

Honors and Awards

2009 – University of Tennessee "Current" Magazine Semester Design Project Published

2007 – AIA WV Jeffery Mayfield Scholarship Competition

Professional Affiliations

American Institute of Architects (AIA), National Chapter, Associate Member

American Institute of Architects (AIA), West Virginia Chapter, Associate Member

National Council of Architectural Registration Boards (NCARB)

USGBC - Green Member

Civic Affiliations

West Virginia Business Networking Social Media Chairperson, Technology Committee

Turn This Town Around - 2014 Grafton, WV Volunteer

United Way of Harrison County - Graphics & Powerpoint

Harrison County Chamber of Commerce - Education Committee

Terracon



Company Profile

Terracon is a 100 percent employee-owned consulting engineering firm providing quality services to clients. Since 1965, Terracon has evolved into a successful multi-discipline firm specializing in:

- Environmental
- Facilities
- Geotechnical
- Materials

Over its history, Terracon has achieved significant expansion through both internal growth and acquisitions. Terracon currently has 3,500 employees in 150 offices and 40 states nationwide. Additionally, we partner with our U.S. clients to serve their international needs. The firm's success is further evidenced by a current ranking of 35 in Engineering News-Record's 2015 listing of the Top 500 Design Firms, as compared to a ranking of 54 a decade ago. Terracon's growth is due to dedicated employees who are responsive to clients, provide quality services, and take advantage of opportunities in the marketplace.

Ferracon provides services on thousands of projects each year. Our culture, systems, and structure enable us to excel at both small and large projects. By combining our national resources with specific local area expertise, we consistently overcome obstacles and deliver the results our clients expect.

Terracon serves a diverse portfolio of private and public clients. By being responsive, resourceful, and reliable, we strive to exceed our clients' expectations for service, solutions, quality, and speed of delivery. Based on a deep understanding of our clients' needs, Terracon's commitment is centered around these key objectives.

Vision

We continue to view our company as a vital and growing consulting firm of engineers and scientists, providing multiple related service lines to clients at local, regional, and national evels. All of our services are delivered on a timely basis with consistently high value and attention to client needs.

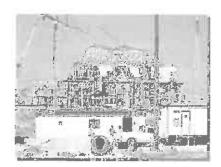
ENR Top 500 Design Firms Source: Engineering News - Record

2015	# 35
2013	# 38
2011	# 41
2009	# 46
2007	# 50
2005	# 54
2003	# 58

Materials Services



Terracon provided comprehensive construction materials testing and observation services for the Ballpark at Union Station, a state of-the-art stadium and the home of the Houston Astros.



Proper selection, quality and workmanship of construction materials play a vital role in ensuring that today's buildings and infrastructure perform adequately during long time periods. We work with clients to minimize material replacements, reduce the likelihood of deterioration, avoid potential failures, and investigate and evaluate construction materials related problems and failures when they do occur.

Local knowledge and resources, combined with the technical support available from our national network of offices, enable Terracon to respond quickly to ever-changing construction needs and schedules. We respond with innovative solutions and alternatives that target your long-term performance objectives while considering cost consequences. Our services are delivered on a timely basis with consistently high value and attention to client needs.

Our construction materials services include:

- On-site observation and monitoring
- Construction quality control and quality assurance programs
- Field and laboratory testing and analysis
- Design and review of concrete, grout, and asphaltic concrete mixes
- Structural steel nondestructive testing
- Consulting for construction material selection, compatibility, and acceptability
- Forensic investigation and evaluation of in-place construction materials
- Pavement materials engineering and construction management



Materials Services

Structural Steel and Nondestructive Testing Services



Terracon provided structural steel observation, nondestructive testing, and specialty testing and observations during the Bartle Hall Ballroom expansion in Kansas City, Mo.



Testing and observation of structural steel is a specialized field that requires equipment and personnel trained in accepted operating procedures. Observation and testing can occur during or after the erection process for connections that are welded, bolted, or between precast elements and the structural frame.

Terracon steel professionals are trained according to the highest standards available in the steel industry. Personnel are certified by the American Welding Society (AWS), International Code Council (ICC), and American Society for Nondestructive Testing (ASNT). In-house compliance standards specify minimum requirements for certification and testing of Level I, II and III nondestructive testing personnel.

NDT services allow for testing of steel and welding without damaging or altering the performance of the material. Most NDT equipment is fully portable, enabling examination to be performed at the manufacturing facility or project site. Specific tests include magnetic particle, liquid penetrant, ultrasonic, visual inspection, and radiographic.

Fabrication Shop Observation and Testing

Structural steel components can be checked in the fabrication shop prior to delivery to the site for conformance to material specifications, dimensional accuracy, and fabrication/welding procedures.

Field Erection Observations Testing

Connections are typically tested during erection of bolted and welded steel frame structures and connection of precise concrete members. Bolted connections are tested and monitored for conformance with applicable AISC standards and specifications. Weld quality is checked by visual observation and nondestructive methods, including liquid penetrant, magnetic particle, and ultrasonic techniques. Materials and procedures used during welding and bolting of connections can be observed for specification compliance.

Procedure and Welder Qualifications

Terracon conducts procedure and welder qualifications tests and evaluates the test welds.

Special Inspections

Special Inspection services are often required by governmental agencies during the fabrication and/or erection of structural steel members. Terracon steel professionals can serve as a qualified, neutral third-party to perform tests and observations to determine compliance with project specifications.



SCOTT W. MELTON CMET DEPARTMENT MANAGER

PROFESSIONAL EXPERIENCE

Mr. Melton serves as Department Manager, Janurary 2011 to present, for the Construction Materials Engineering and Testing (CMET) group located in our Charleston, West Virginia office. Mr. Melton is a retired Master Sergeant from the US Air Force with over 22 years as an Engineering Assistant. He has over 25 years of CMET related experience including serving as Superintendent of the US Air Force, Airfield Pavements Evaluation Section, during which his team performed structural evaluations and pavement condition surveys on airfields around the world. Mr. Melton performed over 50 structural evaluations using the Dynatest Heavy Weight Deflectometer and the Corp of Engineers PCASE program including an emergency evaluation of the runway at Tule AB, Greenland, following a major flood.

He currently manages 15 field, laboratory and project management personnel as well as being the Project Manager variety of CMET projects, including Willow Island Phase I construction, WVDOH projects and several commercial and industrial projects. Mr. Melton has served as the primary project manager during the construction of Phase I of the Willow Island Hydroelectric project, working closely with the Ruhln team to ensure that all the required testing was completed and reports made available.

Aside from being the the Department Manager responsible for oversight of daily Construction Services operations and primary client contact for his projects, his duties include oversight of scheduling, budget establishment and maintenance, and review of field records and reports. Mr. Melton continues to routinely perform technical field functions as well, by augmenting the technician group when needed to meet project demands.

PROJECT EXPERIENCE

Materials testing and inspection related:

- AMP Willow Island Phase I Construction Willow Island Locks Served as Project Manager in support of establishing the onsite USACE Certified lab. Technical support for Technicians assigned to the project as well as primary contact with the Ruhln construction team
- AEP Mountaineer Plant New Haven, WV served as lead technician during a 1200 cubic yard pour for a new coal stacker pad. Also has assisted with other tasks during construction of a new urea tank.
- I-64/I-77 Bridge in Charleston, WV Lead technician for a night pour during application of Latex Concrete overlay.
- I-64 Overpass Milton, WV Quality control testing of concrete and soils

EDUCATION

- AS Construction Technology, 1999, Community College of the Air Force
- USACOE Pavements Computer Assisted Structural Engineering (PCASE)
- USACOE -- Micro Paver, Pavements Management and Inspection
- Air Force Institute of Technology Airfield Pavement Maintenance and Rehabilitation
- Air Force Institute of Technology Airfield Pavement Construction Inspection
- Air Force Institute of Technology -Roof Design and Management
- Air Force Institute of Technology Computer Aided Design and Drafting Systems Course
- Air Force Construction Materials Testing Course
- Air Force Engineering Assistance Specialist Course
- Air Force Construction Surveying Course

CERTIFICATIONS

- Nuclear Radiation Safety Certification
- OSHA 30-Hour Occupational Safety and Health Supervisor
- American Concrete institute Concrete Field Testing Technician – Grade I
- WVDOH Certified PCC Inspector
- WVDOH Certified Compaction Inspector

WORK HISTORY

- United States Air Force Master Sergeant, Retired Engineering Technician 1985-2003
- Integrated Construction Services
 Construction Project Manager
 2003-2006
- Jarrett Construction Services Construction Project Manager 2006-2008
- Terracon Consultants CMET Project Manager 2008-2010
- Terracon Consultants CMET
 Department Manager 2010 to
 present



JEFF BRUMFIELD

CMT TECHNICIAN VI

PROFESSIONAL EXPERIENCE

Mr. Brumfield serves as a Senior Construction Materials Testing Technician, and has over 12 years of experience. He has performed the following duties:

Asphalt

Mr. Brumfield is experienced in Quality Control testing of Asphalt compaction on Private, WVDOH, and FAA projects. Mr. Brumfield also has experience in laboratory testing.

Augercast Pile Inspections

Identification of equipment (size and type), identification of specific locations, identifying plumbness, stroke calibration, calculating volumes and elevations, reinforcing steel inspections, calculating percentages. Quality control tests including performing flow tests and fabrication of cubes for compressive testing.

Concrete

Mr. Brumfield's field experience includes testing freshly mixed concrete for Slump, Unit Weight/Yield, and Air Entrainment, as well as the fabrication of test cylinders. He has extensive experience with concrete placement, testing of concrete, and various construction techniques.

Mr. Brumfield has extensive experience in drilling and obtaining a variety of different diameter concrete core specimens both vertically and horizontally.

Laboratory Testing

Mr. Brumfield has extensive experience in our in-house laboratory including, but not limited to, Modified and Standard proctors, Atterberg Limits, Sieve Analysis, Moisture Content determination, and Compressive Strength testing of cylinders, cubes, and cores. He has also performed Hydrometer Analyses, Unconfined Compression tests, Specific Gravity Analysis, pH Analysis, Slake Durability Analysis, and Classification of Soils.

Soils

Mr. Brumfield is proficient in quality control testing of soil compaction on private & WVDOH projects. He is trained and experienced in the determination of the in-place density of material utilizing Troxler and Humboldt Nuclear Density/moisture Gauges, Sand Cone Method, One-Point Proctors, WVDOH Roller Pass Method, Proofroil tests and Footing Inspections, using a penetrometer. Mr. Brumfield is trained and experienced in the various methods of moisture content determination as well as material identification by visual appearance and texture.

EDUCATION

Certificate of Deploma Includes 1 yr. HS Algebra Harts High School, 2000

CERTIFICATIONS

WVDOH Certified Aggregate Sampling Inspector WVDOH Certified PCC Inspector WVDOH Certified Compaction Inspector OSHA 10-Hour Construction Safety & Health Nuclear Radiation Safety ACI Level 1Field Technician

WORK HISTORY

Terracon Field Technician 2001 to Present

SPECIAL PROJECTS

- Lead Technician for New Creek Dam Site 14 reconstruction, worked for Heeters Construction as lead QC technician for soils, concrete, grout and Roller Compacted Concrete (RCC).
- Lead technician for Kureha at DuPont, working for CHM2 Hill as Owner QA technician for soils, concrete, auger grout piles and masonry.
- AEP John Amos Power Plant, FGD Upgrade Winfield, West Virginia Auger cast pile inspection and supervisor for all field technicians during placement of over 6,000 auger cast piles and over 125,000 cy of structural concrete. Structural concrete included placement of two mat foundations in excess of 6,000 cy, and several in excess of 1,000 cy.
- AEP Kyger Creek Power Plant FGD Project Cheshire, Ohio Auger cast pile inspection and supervisor for all field techniciains during the placement of over 5,000 auger cast piles. Quality control technician for 8,300 cubic yard mass pour.
- Barbour County Airport Philippi, WV Quality control technician and inspector.
- AEP Kyger Creek WWTP Project Cheshire, Ohio Auger cast pile inpsection of over 300 auger cast piles.
- AEP Mountaineer Power Plant New Haven, WV Quality control technician for 1,200 cubic yard mass pour and over 100 auger cast piles.
- AEP Philip Sporn Power Plant New Haven, WV Quality control technician for several concrete pour and for 36 auger cast piles.
- Blennerhassett Bridge Washington, West Virginia provided quality control testing during various deck pours, performed overlay bond testing, and served as technician supervisor for all facets of construction as HCN provided all quality control testing for the prime contractor.
- I-64 Hubbards Branch Bridge Huntington, WV Quality control technican
- I-64 Edgewood Branch Bridge Huntington, WV Quality control technician

DAVID M. GILLESPIE

STRUCTURAL STEEL INSPECTOR/TECHNICIAN, CONSTRUCTION SERVICES

PROFESSIONAL EXPERIENCE

Mr. Gillespie is a Structural Steel Inspector/Technician in the Columbus, Ohio office of H. C. Nutting – A Terracon Company. He has over eleven years of field inspection and testing experience.

He has experience in structural steel inspection and non-destructive testing on construction sites monitoring new construction, repair and replacement/ installations of buildings, process piping and water towers.

PROJECT EXPERIENCE

Mr. Gillespie has project experience which includes multiple types of structures, educational facilities, commercial/retail/industrial developments, steel mill facilities, ethanol facilities, heavy industrial projects in Ohio.

Commercial/Retail/Industrial

AK Steel - Mansfield, Ohio

Annual inspections of the structural integrity of steel ladles. Annual inspection and testing of all crane hooks and lifting devices.

Go Ethanol Plant - Lima, Ohio

Performed visual as well as nondestructive testing (NDT) inspections of process piping welds.

DHL Worldwide Facility, Wilmington, Ohio

Performed structural steel inspection of steel framing.

Educational Facilities

Springboro High School - Springboro, Ohio

Performed structural steel inspections and NDT testing of the structural steel framing.

Newark City Schools - Newark, Ohio

Performed structural steel inspection and NDT testing on the structural steel framing.

Otterbein College - Student Center - Columbus, Ohio

Performed structural steel inspections and NDT testing of both welds and bolted connections.

Fabrication Shops

Ohio Steel - Columbus, Ohio

Performed NDT inspections of welded connections.

Uni-Facs Steel Works - Columbus, Ohio

Performed NDT inspections of welded connections.

Education

Deaf Studies Certificate, Columbus State Community College, Columbus, Ohio - 2004

Certifications

Certified Welding Inspector, AWS: Oct. 2004.

International Code Council (ICC) Structural Bolting and Framing Special Inspector – 2008

International Code Council (ICC) Structural Welding Special Inspector - 2008

Terracon SNT-TC1A NDT Level II (VT, MT, PT)

OSHA 10 Hour

Basic Protective Coatings – Inspection Course – KTA

Work History

Terracon Consultants, Inc., Steel Inspector/Technician, 2005 to Present.

Ohio Steel Industries, QC Inspector, 1999 to 2005.



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Be it known that

David Gillespie

has complied with the requirements of Terracon's Standard Written Practice for Non-Destructive Evaluation & ASNT's Recommended Practice No. SNT-TC-1A for certification as

NDT Level II

In the following Non-destructive Testing Methods:

METHO

Visual (VT)

Liquid Penetrant (PT)

Magnetic Particle (MT)

Iloman H. Hantton

Thomas H. Hartiey - Company Level III

ISSUE DATE

May 13, 2011

May 13, 2011

May 13, 2011

EXPIRATION DATE

May 12, 2016

May 12, 2016

May 12, 2016

Uwe W. Aschemeier – Sr. Welding Engineer and Designee to Company Level III

American Welding Society



Certifies that Welding Inspector

David M Gillespie

has complied with the requirements of AWS QC1, Standard for AWS Certification of Welding Inspectors

CERTIFICATE NUMBER

July 1 2016

EXPIRATION DATE



Maney C. Cole

AWS PRESIDENT

AWS QUALIFICATION COMMITTEE CHAIR

AWS CERTIFICATION COMMITTEE CHAIF

INTERNATIONAL CELESPIE DAVID M GILLESPIE

The interesting the Color Color of the Color

Structural Steel and Bolting Special Inspector

Green this pay of July 1, 2008

Cortificate No

Show Shorin

Steven I. Shapiro President, Board of Directors CERTIFIED IN

Richard P. Weitand Chief Executive Officer



INTERNATIONAL CODE COUNCIL DAVID M GILLESPIE

The International Code Council attests that the individual named on this certificate has satisfactorily demonstrated knowledge as required by the International Code Council by successfully completing the prescribed written examination based on codes and standards then in effect, and is hereby issued this certification as:

Structural Welding Special Inspector

Given this day of August 22, 2008

Certificate No.

Show Shopin

Steven I. Shapiro President, Board of Directors CERTIFIED TE

Richard P. Weiland
Chief Executive Officer



TIMOTHY J. LARSON

STRUCTURAL STEEL TECHNICIAN, ENGINEERING TECHNICIAN III, CONSTRUCTION SERVICES

PROFESSIONAL EXPERIENCE

Mr. Larson is a Field Services Structural Steel and Engineering Technician in the Columbus, Ohio office. He provides on site testing and inspection services.

Mr. Larson has over thirty seven years of experience in testing and inspection of soils, concrete, reinforcing steel, grout, masonry, H-piles, shallow foundations, spray-applied fire-proofing, post-tensioning, structural steel weld and bolt inspections and nondestructive testing methods. He has worked as a field services engineering technician and structural steel inspector on numerous projects including school projects, multi-story structures, retail and grocery store developments, waste water treatment plants and other projects.

PROJECT EXPERIENCE

Bridge and Roadway Improvement Projects

ODNR Todd Fork State Park, Walkway/Bicycle Bridge – Morrow, Ohio Performed visual and NDT inspection of bridge pins.

U.S. Route 62 Widening & Reconstruction – Columbus, Ohio Provided materials technician services (soils, and asphalt testing and inspection) for a road replacement and widening project.

2009 Gahanna Asphalt Overlay - Gahanna, Ohio

Provided materials technician services (asphalt testing and inspection) for road overlay project.

Commercial/Retail/Industrial

Anchor Industries - Cleveland, Ohio

Field, inspection of structural members using visual inspection and nondestructive testing methods.

Erie Sq. - Cleveland, Ohio

Field inspection of structural members using visual inspection and nondestructive testing methods.

Dollar Tree - Cleveland, Ohio

Field inspection of structural members using visual inspection and nondestructive testing methods.

Laurel Lake Retirement Center - Cleveland, Ohio

Field inspection of structural members using visual inspection and nondestructive testing methods.

Education

High School Diploma

Special Training in Metals Technology, College of the Air Force

Special Training in: NDT Inspection Techniques, Professional Leadership & Management Training & Supervision Courses

Certifications

American Concrete Institute --Level I Concrete Technician

Nuclear Density Gauge Safety Training/Operation

Certified Associate Welding Inspector, AWS: Feb 2000.

SNT-TC-1A - NDT Level II (VT, PT, MT, UT)

OSHA 10 Hour

Member of: American Concrete Institute, American Society of Nondestructive Testing, American Welding Society

Work History

Terracon Consultants, Inc.., Engineering Technician, 2008 – Present

US Postal Services, City Carrier, 2007-2008

Gilson Company, Inc., Civil Engineer Technician, 2006-2007.

Resource International, Inc., Senior Technician/Inspector 2002-2006; 1995-1999.

RW Armstrong Engineering, Senior Technician/Inspector, 2001-2002.

Bainter Machining Fabricator Co. Machinist, 1993-1995

British Petroleum, 1992-1993

US Air Force, Nondestructive Inspector 1978-1992



PROJECT EXPERIENCE (CONTINUED)

Earth Fare Supermarket - Cleveland, Ohio

Field inspection of structural members using visual inspection and nondestructive testing methods.

AK Steel - Mansfield, Ohio

Annual inspection of the structural integrity of steel ladles.

Hospitals/Medical Faculties

UH Rehabilitation Hospital - Cleveland, Ohio

Field inspection of structural members using visual inspection and nondestructive testing methods.

Ohio State Medical Center, Columbus, Ohio

Field inspection of structural members using visual inspection and nondestructive testing methods.

Educational Facilities

Cleveland State University - Cleveland, Ohio

Field inspection of structural members using visual inspection and nondestructive testing methods.

Wellston Elementary and High School - Wellston, Ohio

Provided Ferro Scanning of the reinforcing steel in the existing CMU block walls.

Olentangy School District - Delaware, Ohio

Perform structural steel inspections and fireproofing inspections and testing on multiple schools buildings.

Zanesville School District – Zanesville, Ohio

Performed structural steel inspection and NDT testing on multiple school buildings.

Ohio State University - Columbus, Ohio

Perform soils, concrete, grout, mortar materials testing and structural steel inspection on numerous building projects on campus.

Airport Facilities

Rickenbacker Airport - Groveport, Ohio

Runway repair/replacement including tracking and recording of inspection and budget control.

Shipyards/Portals

Great Lakes Shipyards - Cleveland, Ohio

Field inspection of structural members using visual inspection and nondestructive testing methods.



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Be it known that

Timothy J. Larson

has complied with the requirements of Terracon's Standard Written Practice for Non-Destructive Evaluation & ASNT's Recommended Practice No. SNT-TC-1A for certification as

NDT Level II

In the following Non-destructive Testing Methods:

METHOD	ISSUE DATE	EXPIRATION DATE
Visual (VT)	May 13, 2011	May 12, 2016
Liquid Penetrant (PT)	May 13, 2011	May 12, 2016
Magnetic Particle (MT)	May 13, 2011	May 12, 2016
Ultrasonic (UT)	May 13, 2011 / 🗸	May 12, 2016

Thomas H. Hartley - Company Level III

Ultrasonic (UT)

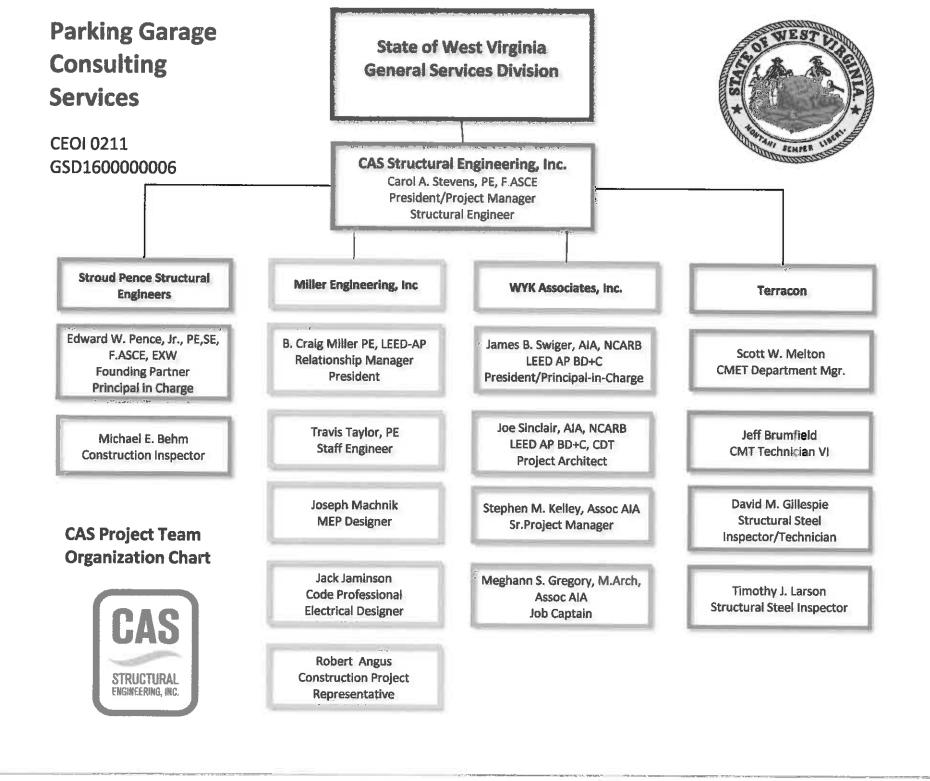
Uwe W. Aschemeier - Sr. Welding Engineer and Designee to Company Level III



PROJECT ORGANIZATION

As noted in the previous section of this submittal, the CAS Structural Engineering Team (CAS Team) consists of several firms that have a history of working together over the years. CAS Structural Engineering will be the lead consultant, with Stroud Pence Structural Engineers working hand-in-hand with us. Stroud Pence is the original project structural Engineer of Record and has intimate knowledge of this structure. WKY Associates will address any architectural items, while Miller Engineering will handle the mechanical, electrical and plumbing issues. Terracon is part of the team and will conduct testing and inspection related work, mainly associated with concrete and structural steel testing. Carol Stevens, PE of CAS Structural Engineering will be the primary contact with the State of West Virginia, General Services Division. All team members will communicate extensively, sharing information that is obtained and gained during this project.

This section of our submittal includes an organization chart showing the relationship between the team members that will be involved with this project.





RELEVANT EXPERIENCE

Again, as noted in previous sections of this submittal, the CAS Structural Engineering Team (CAS Team) consists of several firms that have a history of working together over the years. CAS Structural Engineering has completed parking garage condition assessments, one for the garage from the 1950's located on the Capitol Campus (that has since been demolished), and two others in the Charleston area just to name a few. Stroud Pence Structural Engineers has performed numerous parking garage condition assessments in addition to being the <u>original project structural Engineer of Record of this structure</u>. We believe that we have assembled a highly qualified team of engineers, architects and experienced testing personnel that will provide the necessary experience for this important project.

This section of our submittal includes relevant experience for all of the team members that will be involved with this project.







Condition Assessments

Over the past 40+ years SP has conducted condition assessments of over 65 parking structures and other similar structures throughout the southeast. These projects were all tailored to the Owner's specific needs, and included documentation of existing conditions, prioritized lists of repairs along with cost estimates for the Owner's use in budget planning.

In addition, SP has served as the Structural Engineer of Record for over 98 parking structures including both precast and cast-in-place concrete. This experience allows quick identification and prioritization of issues of concern related to damage, deterioration or maintenance in existing structures.

For many of these projects, after completion of the assessment phase, SP has provided Construction Documents and Construction Administration services.

The key to success in any repair/renovation project is to follow a strict protocol. SP has developed a successful methodology:

- Perform a comprehensive visual condition assessment of the existing structure, quantifying the required repairs.
- 2. Perform a thorough review of project history, including the original plans and specifications, shop drawings and other construction records, various previous inspection reports, and previous repair projects.
- 3. Perform additional destructive or non-destructive testing and materials testing as deemed appropriate, including laboratory sampling and testing.
- 4. Develop details and material specifications to achieve the goals and objectives of the project.
- Establish a preliminary project budget and schedule.
- Prepare Construction Documents.
- 7. Confirm project budget and schedule.
- 8. Perform quality control reviews with other disciplines as appropriate, and respond to comments.
- 9. Participate in pre-bid conference.
- Evaluate bids and provide recommendation for award of construction contract.
- 11. Perform Construction Administration services including shop drawing review, answering RFI's, and site visits during construction at appropriate times to ensure compliance with Contract Documents.
- 12. Assist in project close-out.



Parking Structure Assessments

Forum Parking Deck Condition Survey/Repairs, Raleigh, NC

A limited visual condition survey of the existing four parking deck to verify conditions, and provided consultation for recommended structural repairs at existing parking deck.

Holiday Inn 39th Street - Parking Garage Repairs, Virginia Beach, VA

Observe spalling of concrete at existing oceanfront hotel's precast parking deck. Provide written report of findings and recommendations for repair.

9th Street Parking Facility Repairs, Virginia Beach, VA

Letter report of prioritized structural repairs with cost estimate.

Monticello Parking Garage, Norfolk, VA

Structural condition survey and report for repairs of deteriorating concrete for this 7 story cast-in-place concrete structure.

Liberty Plaza II Garage Investigation, Glen Allen, VA

Limited visual observation of the existing one story, precast concrete parking garage.

Parking Structure Repairs, Old Dominion University, Norfolk, VA

Replacement of certain brick veneer column covers and spandrel panels. Also includes miscellaneous repairs in areas which are not to be replaced.

St. Francis Hospital Parking Garage, Charleston, WV

Forensic study of existing parking garage.

Rouse Tower Parking Deck Repairs, Newport News, VA

Investigate deterioration of post-tensioned parking deck and design repairs.

Cavalier Hotel Parking Garage, Virginia Beach, VA

A comprehensive structural conditions survey to identify deficiencies and design repairs. This project also included a new freestanding 200 car parking facility and a small addition to the existing hotel building.

Parking Garage, Eastern Virginia Medical School, Norfolk, VA

Investigation, analysis and report of cracking in existing patient parking deck.

Dominion Tower Parking Structure Investigation, Norfolk, VA

Visual inspection to document concrete deficiencies, post-tension deficiencies. Preparation of repair documents.

Oceanfront Inn Parking Structure Inspection, Virginia Beach, VA

Visual inspection of structure to determine current condition.

Holiday Inn 39th Street Parking Structure Inspection (SunSpree Resort), Virginia Beach, VA

Visual inspection of existing parking structure in fulfillment of periodic maintenance program. Review will be for conformance to applicable structural requirements of the Virginia Uniform Statewide Building code as well as maintenance issues.

Breakers Resort Inn Parking Structure Inspection, Virginia Beach, VA

Visual inspection of structure to determine current condition.

Oceans Condominium Parking Garage Repairs, Virginia Beach, VA

Perform a visual survey of the existing parking structure to document any structural deficiencies that require repair. Prepare a written report with recommendations. Follow up with repair documents for approved repairs and perform construction observation of the repairs.

Charleston House Hotel/Garage, Charleston, WV

Investigation and analysis of existing hotel and parking garage for renovations and additions.



Capitol Complex Parking Garage, Charleston, WV



Construction Cost: \$5,500,000

Completion Date: 1999

Client:
BBL - Carlton, LLC
900 Lee Street, Suite 1400
Charleston, WV 25301
304-345-1300

Project Description:

Design/build of a 4 level, 246,000 SF, 788-car precast concrete parking garage, supported on deep foundations. The garage was designed and built in nine months followed by a condition assessment in 2003.

Imperial Towers/Quintiles Parking Structure Durham, NC



Project Description:

A full structural assessment of the existing four-level, 990-space precast concrete parking structure for present and potential structural issues followed by annual structural assessment surveys and provide follow up reports and sketches for recommended maintenance and repairs.

Construction Cost: N/A

Completion Date: 2009-2014

Client:
Tri Properties, Inc.
4309 Emperor Blvd., Suite 110
Durham, NC 27703



The Diamond Parking Structure, Charleston, WV



Construction Cost: \$4,500,000

Completion Date: 1999

Client:
BBL - Carlton, LLC
900 Lee Street, Suite 1400
Charleston, WV 25301
304-345-1300

Project Description:

Design/build of an 8 level, 360,000 SF 963-car precast concrete parking structure, supported on deep foundations.

Yeager Airport Parking Structure, Charleston, WV



Construction Cost: \$ 4,694,000

Completion Date: 2008

Client: BBL - Carlton, LLC 900 Lee Street, Suite 1400 Charleston, WV 25301 304-345-1300

Project Description:

A 70,000 SF 2-story 248-car parking structure with top deck covered. The structure is for rental car agency pick up and drop offs. Building has a direct connection to the baggage claim area. Lower level was built for maintenance vehicle clearances to the airport runway.



Fairmont City Parking Structure, Fairmont, WV



Construction Cost: \$3,000,000

Completion Date: 2006

Client:
Omni Associates
1543 Fairmont Avenue
Suite 201
Fairmont, WV 26554

Project Description:
A new 4 level, 270-car precast concrete open parking structure.

Public Service Commission Parking Structure Charleston, WV



Project Description:
A 210-car, 4 level precast concrete on deep foundations parking structure with a pedestrian bridge.

Construction Cost: \$ 3,060,000

Completion Date: 2004

Client:
Associated Architects
318 Lee Street W, Suite 200
Charleston, WV 25302



VA Medical Center Parking Structure, Beckley, WV



Project Description:

A 150,000 SF, 400-car, 4 level precast concrete supported on deep foundations parking structure.

Construction Cost: \$ 7,300,000

Completion Date: 2014

Client:
Associated Architects
318 Lee Street W, Suite 200
Charleston, WV 25302

Residence Hall & Parking Garage, University of Charleston, Charleston, WV



Project Description:

A 5-story precast concrete garage providing 524-parking spaces. Each floor of the garage lines up with the apartment floors for direct access to from one building to the next and the apartment building is offset from the garage by five feet in order to maintain an open parking structure, taking advantage of natural ventilation and light throughout the garage.

Construction Cost: \$ 21,575,000.00

Completion Date: 2010

Client:
BBL - Carlton, LLC
900 Lee Street, Suite 1400
Charleston, WV 25301
304-345-1300



Marshall University Parking Garage, Huntington, WV



Construction Cost: \$8,000,000

Completion Date: 2002

Client:
BBL - Carlton, LLC
900 Lee Street, Suite 1400
Charleston, WV 25301
304-345-13004

Project Description:

A 6 level, 300,000 SF, 1000-car precast concrete parking structure, supported on deep foundations followed by a condition assessment in 2005.

Kings Daughters Hospital Parking Structure Ashland, KY



Project Description:

A 5 level, 170,000 SF 530-car precast concrete open parking structure with connector bridge to hospital. Designed for future addition of 3 levels and 348-cars.

Construction Cost: \$5,742,000

Completion Date: 2005

Client:
BBL - Carlton, LLC
900 Lee Street, Suite 1400
Charleston, WV 25301
304-345-13004



Foreman Field, Old Dominion University, Norfolk, VA



Project Description:

Performed detailed field investigations and prepared construction documents for a complete renovation, including construction administration services during repair work which included inspection and documentation of all repair quantities and maintaining a spreadsheet to itemize actual repair quantities and cost for each repair type based on the Contractor's unit prices submitted on the bid form.

Construction Cost: \$2,300,000

Completion Date: 2009

Client: Old Dominion University 4310 Elkhorn Avenue Norfolk, VA 23529

Fort Lee Structural Inspections, Fort Lee, VA



Project Description:

Visual structural inspection of 176 buildings, minor structural analysis; prioritized repair recommendations totaling 2.3 million square feet.

Construction Cost: N/A

Completion Date: 2007

Client: Saunders + Crouse 291 Independence Boulevard Suite 400 Virginia Beach, VA 23462



Historic Cavalier Hotel



Project Description:

Major renovation and restoration of the historic hotel on the Virginia Beach oceanfront. This project included a comprehensive structural conditions survey to identify deficiencies and design repairs.

Construction Cost: \$ 36,400,000

Completion Date: 2016

Client: HEWV 120 Atlantic Street Norfolk, VA 23510





Project Description:

A limited visual observation of 25 buildings/structures on the campus of historic Fort Monroe in Hampton, Virginia. The purpose was to document the current condition of the buildings/structures and any obvious deterioration for future planning.

Construction Cost: N/A

Completion Date: 2015

Client:
Ballou Justice Upton Architects
2402 N. Parham Road
Richmond, VA 23229





Project Experience: Elevators

West Virginia State Capitol Complex

Charleston, WV

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Protection

Estimated Budget: \$3.5M

Facility Area: N/A

Owner: State of West Virginia



The project was implemented in phases by priority, based on initial evaluation of systems for safety, availability of parts, maintainability and owner needs. Some systems had been condemned by the Department of Labor with mechanical and structural concerns requiring complete replacement. Some rope systems were replaced with a hydraulic system to alleviate structural concern. Upon completion of a facility review, Miller Engineering provided detailed evaluation of mechanical, electrical and plumbing systems which support elevator function in multiple buildings throughout the State Capitol Complex. MEP

design, preparation of bid documents and construction administration for systems associated with the repair or replacement of the elevators was provided. All systems were successfully brought to current codes and standards including fire alarm and fire suppression. The facility, a Cass-Gilbert turn-of-the-century design, was preserved while adding modern equipment.

Project Contact: Dennis Stewart WV General Services Division (304) 558-4590



Project Experience: HVAC Upgrade

West Virginia State Building 25

Parkersburg, WV

Services Provided:

Mechanical Piping

Electric

Construction Administration

Estimated Budget: \$843k Facility Area: 58,500 ft²

Owner: State of West Virginia – General Services Division



Project Contact:
David Parsons, Operations and
Maintenance Manager
State Capitol, Room E-119
(304) 957-7122

The PVC piping system at Building 25 had a history of leaking, along with smaller piping sagging over time and breaking, prompting the owner to replace the entire system. The building was a logistic challenge to design due to offset multi-level mezzanines, resulting in low deck-to-deck heights in the lower levels. A new, rolledgroove piping system was installed, including a new cooling tower and supporting structure, and connected to the original boilers. To eliminate the problems associated with manganese, which forms solids and clogs piping, the system was converted from water to propylene glycol with the flow rates adjusted to accommodate the change. MEI designed a phased approach to accomplish the piping, which was adjusted in consultation with the owner and contractor during construction to minimize the impact on the building occupants, who remained in the building during the entire construction period. MEI worked on an almost daily basis with the contractor to accomplish the re-piping of the building, providing support and real-time answers to questions and to work

around challenges.



Project Experience: Infrastructure

Willowdale Walkway

Morgantown, WV

Services Provided:

- Electrical Engineering Design
- Lighting Design
- Power System Design

Estimated Budget: \$185k Location: Morgantown, WV Owner: West Virginia

University





Project Contact:
Paul Hanko, Facilities Manager
West Virginia University
Phone: (304)293-7773

The project was initiatied at the request of the University's Student Government as a response to concerns for student safety in the area. Both the vehicular and pedestrian traffic has increased in the area in recent years, increasing the likelihood of incident or accident. The objective was to create lighting that met all design criteria, providing ample illumination without creating a blinding hazard to motorists. The project goal was to provide maximum lighting for student safety without creating a blinding hazard for drivers or light pollution for housing in the area. Significant changes in road grade can easily create a blinding hazard for drivers, so computer modeling was performed prior to construction to help ensure the elimination of hazards. A variation of the University's standard lighting fixture was incorporated to provide daylight integration of design standards, but in the evening achieve safety lighting as per the project goals. The walkway lighting system design resulted in a safer environment for both students and drivers.



Project Experience: New Construction

Jefferson County Ambulance Authority

Ranson, WV

Services Provided:

- HVAC
- Electrical
- Plumbing
- Fire Protection/Alarm

Estimated Budget: \$1.18M Facility Area: 6,750 ft²
Owner: Jefferson County



Project Contact: Richard Colebank, PE Alpha Associates Phone: (304)296-8216

The administration and training area are segregated from the rest of the facility by doors with card reader systems. The crew area includes bunking facilities, living area and a kitchen. The bay is designed to support ambulances but with the capability to add a fire department engine in the future with no further construction. Two zoned forced air heating and cooling systems serve the residential part of the facility while an in-floor radiant system serves the ambulance bay. The ambulance bay has a fully automatic fume exhaust system which serves each vehicle in the bay. One section of the bay is configured for washing vehicles and ample power is placed overhead and around the walls. A priority call public address system, card access system and backup generator are also provided.



Project Experience: Design/Build

The Augusta Apartments

Morgantown, WV

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Fire Protection/Alarm
- Telephone/Data

Estimated Budget: \$10M Facility Area: 150,582 ft²

Owner: West Virginia University



This project required the use of modular construction to create high-efficiency student apartment housing close to WVU's main campus, which presented many MEP systems design challenges. The HVAC systems are independent to each unit and had to be accomplished in a minimum footprint within each apartment. An underground parking garage requiring smoke evacuation added to the mechanical and fire protection complexity.

The fire protections systems, which incorporated both wet and dry systems, presented a unique challenge as the apartment systems were installed at the modular factory and had to coordinate with the hallway header piping on site. The building water, electric and telephone/data/cable utilities each required special attention and coordination with the service providers.

Project Contact: Richard Colebank, PE Alpha Associates (304) 296-8216





West Pike Street Parking Facility

Clarksburg, West Virginia

ity parking for all!

nvenience and Prosperity

- or Associated Architectural sultants, PLLC is a collaboration WYK Associates, Inc. and Ralph lersen Architect founded in 2004, partnership combines the unique ngths of two local architectural firms rovide design and planning services projects in Clarksburg and Harrison inty.
- project consisted of the demolition abatement of all the long-vacant, pidated buildings in the 300 block of t Pike Street, one of Clarksburg's main ntown thoroughfares. An historical by of these buildings was completed reviewed by the State Historic pervation Office prior to demolition.

lerground utilities and new storm water agement created an unencumbered for 126 parking places on two levels. upper level entered from Traders nue is covered with translucent els creating a "band shell." Lower I entry is from Pike Street. Concrete ning walls, decorated brick pillars, ssible stairways, easy maintenance scaping, programmable n friendly electronic parking fee ction, and stamped asphalt paving te accessible parking. The facility's an complements all the adjacent erties, both historic and modern. A ty of outdoor activities are easily held , enhancing the city's economy and ality.

roject Facts

ize 57,000 s f

ompleted 2009

www.wykarchitects.com













Bridgeport Public Safety Substation

Bridgeport, West Virginia

Government > Bridgeport Public Safety > Public Safety Substation









A Focus on Safety

Public Safety Substation doubles as an emergency shelter.

This facility is located directly adjacent to the new United Hospital Center at Jerry Dove Drive and strategically situated within a ½ mile radius of I-79 and the White Oaks and Charles Pointe Developments.

The building is a substation for the Fire and Police Departments of the City of Bridgeport. The structure is a combination of load bearing masonry and structural steel frame with a decorative brick veneer. The Apparatus Bay and supporting facilities are one story, slab-on-grade with an abundance of natural daylight.

The radiant gas heating, vehicle exhaust and high efficient lighting systems are integrated nicely into the exposed roof structure above. The administrative offices along with each of the department's support facilities are in a connected, two story masonry and steel frame structure.

This facility was designed as a 75-100 year structure to serve the needs of this ever growing area region. The building's power is completely backed up by an emergency generator which will allow it to double as an emergency shelter in times of need.

Project Facts

Size: 15,000 sq ft

Completed October 2009

www.wykarchitects.com



Christie-Cutlip Office Complex

Charles Pointe, Harrison County, WV

mercial > Comvest Limited Inc. > Christie-Cutlip Office Complex



21st century fice complex sign

sily accessible from major hways!

s office complex is located in new prestigious Charles Pointe elopment directly off the I-79 hnology Corridor.

ir location is highly visible the Harrison-Marion Airport the 1-279 connector to the ort. The client wanted a nguished and comfortable lern design that incorporates oric/traditional architectural ures.

welcoming arched entry of the cture is flanked by a distinguished ring clock tower to give the building sence within its surroundings. The k incorporates intricately detailed on bands which reflect a common ding practice of yesteryear.





Robinson Grand Theatre Renovation

Clarksburg, West Virginia

istoric property to brought back to e!

cal theatre to revive downtown

surrection through adaptive reuse vides neightborhoods and cities with re opportunities through utilizing heritage and creating economic ortunities. The Robinson Grand atre has the capability to bring out best the city of Clarksburg has to r.

future of the Theatre is focused on riding the support for performances, e providing the flexibility to adapt changing performance medium. K was selected as the design hitect for this project, teaming a plethora of additional design essionals to provide the City with posals for the future of this historic smark.

project team consists of several panies from Ohio, West Virginia, Pennsylvania, all specialized in tre details and design.

concepts for the theatre were vided to the City, with the selection one option being approved in late 4. There will be several design ses into construction including orical intent and additional design umentation as the progress begins.



Proposed blade sign and marquee



Proposed Seating from Stage



Robinson Grand Theatre Renovation

Clarksburg, West Virginia







Proposed Entry



Project Facts

Closed 2000

Original Bldg: 1913 Theatre Fire May 1939 Rebuilt: December 1939

Bought by City 2014 32,000 Square Feet

www.wykarchitects.com

www.aurora-llc.com/

www.studioilighting.com www.casstruceng.com

www.wrldesign.com

www.zdsdesign.com

www.pcscmservices.com



Existing Balcony Lobby



Proposed Bar Area



Existing Ballroom



Proposed Bailroom + V.I.P. Lounge



REFERENCES

- Mr. Bradley S. Leslie, PE
 Chief Engineer
 West Virginia Division of Natural Resources
 324 4th Avenue
 South Charleston, WV 25303
 (304) 558-2764
- Ms. Carolyn M. Mansberger
 Construction Project Manager
 West Virginia Division of Natural Resources, State Parks Section 324 4th Avenue
 South Charleston, WV 25303
 (304) 558-2764
- Mr. Timothy Lee
 Former Director, Plant Operations and Security at Thomas Memorial Hospital
 Former Project Manager at State of WV, General Services Division
 (304) 372-3047/(304) 532-3569
 leewebwv2@gmail.com
- 4. Mr. William S. Kostelic
 Environmental Historic Preservation Advisor
 FEMA HQ
 500 C Street SW
 Washington, DC 20472
 (202) 304-7731
- 5. Mr. William "Willie" Parker County Administrator Harrison County Commission 301 W. Main Street Clarksburg, WV 26301 (304) 624-8500

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:
Vendor's Name: CAS Structural Engineering Inc. Authorized Signature: Caralla Sturia Date: 11/9/15
State of Wirght to-wit:
Taken, subscribed, and sworn to before me this 9 day of Asyer by Commission expires
OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA HAROLD D. BARR, III 280 SOUTHRIDGE BLVD. S. CHARLESTON, WV 28309

My Commission Expires June 17, 2020

CERTIFICATIONAND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

(CAS STRICTURAL Engineering Inc.

Authorized Signature) (Representative Name, Title)

(Phone Number) (Fax Number) (Date)

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

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

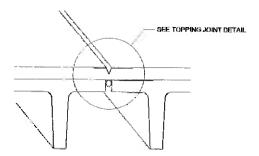
Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

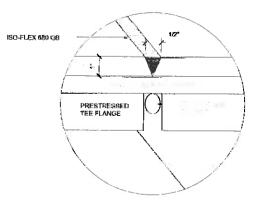
Addendum Numbers Received: (Check the box next to each addendum received)				
	Addendum No. 1		Addendum No. 6	
	Addendum No. 2		Addendum No. 7	
Ø	Addendum No. 3		Addendum No. 8	
	Addendum No. 4		Addendum No. 9	
	Addendum No. 5		Addendum No. 10	
I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.				
Carola Structural Engineering, Inc.				
Authorized Signature				
11/11/15 Date				
NOTE: This addendum acknowledgement should be submitted with the bid to expedite				

document processing.









- NOTES:

 1. REMOVE ALL EXISTING CONTROL/CONTRACTION JOINT MATERIALS ON LEVELS IN THE TOPPING SLAB.

 2. CLEAN JOINTS TO REMOVE ALL MATERIAL AND DEBRIS PRIOR TO PRIMING.

 3. PRIME JOINTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SEAL WITH ISO-FLEX 880 G.B. URETHANE SEALANT. SEE SPECIFICATIONS.

CONTROL/CONTRACTION JOINT DETAIL





THOMAS MEMORIAL HOSPITAL **PARKING GARAGE**

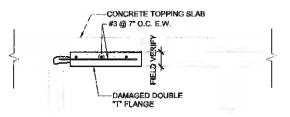
South Charleston, West Virginia

Performed a condition survey of the existing precast concrete parking structure to determine what repairs would be needed. The garage is a multi-level structure with medical office space at the first level. Once the report was submitted, construction documents for repairs were prepared. Bids were solicited and construction administration services were performed for the first phase. Repairs to date have included topping and sealant repairs and installation of additional deck drains at the top level along with a new traffic coating system, double "T" flange repairs and column repairs. As additional funding is available, repairs to other levels will be undertaken.

Project Manager:

Timothy Lee (304) 532-3569

leewebwv2@gmail.com



DOUBLE "T" FLANGE REPAIR

- SCALE: NTB
 NOTES:

 1. REFER TO PHOTO 11 ON DRAWING \$8.

 2. CARREFULLY REMOVE BROKEN PORTION OF PRECAST
 DOUBLE "1" FLANGE, DO NOT DAMAGE TOPPING SLAB.

 3. INSTALL NEW REINFORCING STEEL DRILL 6" INTO EXISTING
 CONC. & EPOXY GROUT GOLID.

 4. APRILY PONIDING ACENT TO HISTORICIOS OF TOPPING SLAB.
- A APPLY BONDING AGENT TO UNDERSIDE OF TOPPING SLAB & EXPOSED BURFACES OF EXISTING DOUBLE "T". COAT ANY EXPOSED REINFORCING STEEL WITH BONDING AGENT/ CORROSION INHBITOR.
- 5. FORM AND PLACE NEW STRUCTURAL REPAIR MORTAR.











3RD AVENUE PARKING GARAGE

Huntington, West Virginia

Performed a condition survey of the existing precast concrete parking structure to determine what repairs would be needed. The garage is a multi-level structure with retail space at the first level. Once the repairs were noted, construction documents were prepared. Part of the project also included upgrading the aesthetics of the structure with installing brick on the stairtower/ elevator shaft façade. Bids were solicited and construction administration services were performed for the project. Repairs included replacing the deck expansion joints and sealants, and installing a new waterproof traffic coating system. In addition, structural repairs were made to the precast members.

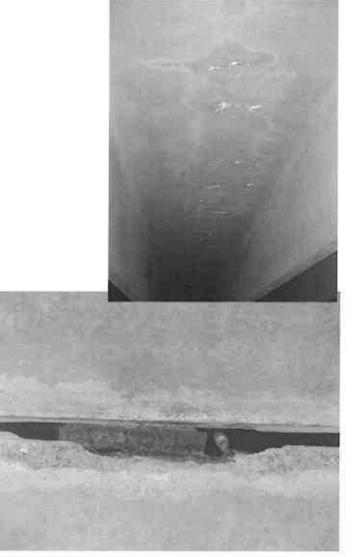
Project Manager:

George Soltis, AIA NVisions Architects 83 Olde Main Plaza St. Albans, WV 25177 (304) 744-3654 Nvisions@N-Visions.com













ST. FRANCIS HOSPITAL PARKING **GARAGE**

Charleston, West Virginia

Performed a condition survey of the existing precast concrete parking structure to determine what repairs would be needed. The garage is a multi-level structure with parking at all levels. Once the report was submitted, construction documents for repairs were prepared, and are currently awaiting funding for construction to be performed in phases. Identified repairs include sealants, waterproof traffic coating systems, structural repairs to double "T's" and column corbels, as well as repairs to precast panels at the stairs and elevators. Installation of more deck drains will assist with ponding water. Identification of additional repairs to the roofing of the stairtower and elevator towers, and minor electrical violations were brought to the attention of the Owner.

Project Manager: Richard Beckner St. Francis Hospital 333 Laidley Street Charleston, WV 25322 (304) 347-6783 Richard.Beckner@stfh.net















STATE OF WEST VIRGINIA BUILDING 2 / CALIFORNIA AVE PARKING GARAGE

Charleston, West Virginia

Performed a condition survey of the 1950's cast-in-place concrete multi-level parking structure on the West Virginia Capitol Campus. The report was submitted to the General Services Division outlining the effort required to adequately repair the structure. As a result, an economic decision was made to demolish the garage.

Project Manager:

Jim Burgess (no contact information available)
Robert Krause, PE, AIA
State of WV
General Services Division
1900 Kanawha Blvd, E.
Charleston, WV 25305
(304) 957-7143
Robert.P.Krause@wv.gov



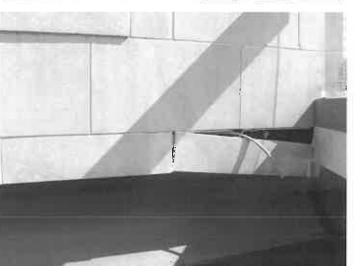














WEST VIRGINIA VETERANS MEMORIAL

Charleston, West Virginia

Performed a condition survey of the existing structure to determine what repairs would be needed. The memorial is constructed with hollowcore precast concrete planks at each bridge with limestone and granite stone at the reflecting pool and seat walls. Prepared construction documents for repairs to cracked hollow core precast, detailed new anchorage for both limestone and granite components, and performed construction administration services.

Project Manager: Robert Krause, PE, AIA

State of WV

General Services Division 1900 Kanawha Blvd, E. Charleston, WV 25305

(304) 957-7143

Robert.P.Krause@wv.gov

