



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 221131

Doc Description: HVAC SYSTEM(S) REPLACEMENT EOI DESIGN SERVICES

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2016-06-08	2016-07-06 13:30:00	CEOI 0603 ADJ1600000002	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

CMA Engineering
 824 Cross Lanes Drive
 Charleston, WV 25313
 (304) 343-0316

07/06/16 09:21:34
 WV Purchasing Division

OR INFORMATION CONTACT THE BUYER

Crystal Rink
 304) 558-2402
 rystal.g.rink@wv.gov

Signature X *Daniel L. Egan* FEIN # 55-0659239 DATE 6/30/16

All offers subject to all terms and conditions contained in this solicitation

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

Daniel L. Ellars
(Name, Title)
Daniel L. Ellars, P.E., Principal
(Printed Name and Title)
824 Cross Lanes Drive Charleston, WV 25313
(Address)
(304) 343-0316 (304) 343-5146
(Phone Number) / (Fax Number)
dellars@cmawv.com
(email address)

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contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated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

CMA Engineering
(Company)

Daniel L. Ellars DANIEL L. ELLARS, PRINCIPAL
(Authorized Signature) (Representative Name, Title)

Daniel L. Ellars, P.E., Principal
(Printed Name and Title of Authorized Representative)

June 30, 2016
(Date)

(304) 343-0316 (304) 343-5146
(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

DEFINITIONS:

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

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

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

Authorized Signature: Daniel L. Ellan Date: June 30, 2016

State of WV

County of Kanawha, to-wit:

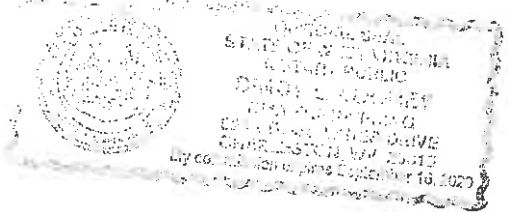
Taken, subscribed, and sworn to before me this 30 day of June, 2016.

My Commission expires September 16, 2020

AFFIX SEAL HERE

NOTARY PUBLIC

Cindy L. Rooney
Purchasing Affidavit (Revised 07/01/2012)



Expression of Interest for

Architectural/Engineering

Design Services

For

HVAC System(s) Replacement

At Dunbar and Brushfork Armories

ADJ1600000002

July 6, 2016

CMA
ENGINEERING

VISIONS
A-R-C-H-I-T-E-C-T-S

 **STAFFORD
CONSULTANTS
INCORPORATED**
Engineering Design and Consulting



June 30, 2016

Ms. Crystal Rink
Dept. of Administration-Purchasing Division
2019 Washington Street, West
Charleston, WV 25305

Re: CEOI ADJ1600000002 HVAC System(s) Replacement EOI Design Services

Dear Ms. Rink:

CMA Engineering is pleased to submit our qualifications and experience in providing engineering design services for the replacement/upgrade(s) of the HVAC systems at the Dunbar Armory and at the Brushfork Armory.

CMA has previously worked at both the Dunbar and Brushfork Armory providing electrical engineering design services for the replacement and upgrades to the power service and emergency power generators. We are familiar with the facilities and the design standards of the West Virginia National Guard. CMA Engineering has provided engineering design services on multiple Guard projects, including the MEP renovations and additions at the St. Albans and Gassaway Armories, the new Moorefield Readiness Center and the new Elkins Armed Forces Reserve Center.

CMA will act as prime consultant on these projects and will utilize the expertise of NVision Architects and Stafford Consultants (structural/ civil engineers) as needed.

We appreciate your consideration of our firm and look forward to presenting a more comprehensive statement of our qualifications in a personal interview.

Sincerely,
CMA Engineering

Daniel L. Ellars, P.E.
Principal

enclosures

1	CMA Engineering Corporate Profile Resumes
2	CMA Engineering Project Experience
3	CMA Engineering References
4	N Visions Architects
5	Stafford Consultants, Inc.

Clingenpeel/McBrayer & Associates, Inc.

Firm Profile



824 Cross Lanes Dr. Charleston, WV



5 Riddle Court, Morgantown, WV

Services

CMA Engineering is a West Virginia based small business firm, providing services in the areas of HVAC, plumbing, fire protection and electrical engineering. Incorporated in 1986, our firm has always believed that a successful project requires a comprehensive approach. This includes all facets of project development, starting with master planning, working closely with the client, developing the completed construction documents, and working with contractors during the bidding and construction administration phases. However, our depth of expertise goes far beyond the traditional design/bid/build service. CMA Engineering is a proven leader in the design/build delivery method. From developing the performance design criteria for owners to designing the mechanical, electrical and plumbing systems for contractors, CMA has an impressive portfolio of design/build experience.

CMA Engineering maintains its reputation of design and service quality by keeping informed of the latest innovations and technical trends regarding energy-efficiency and sustainability in mechanical, electrical and plumbing design. CMA is the engineer on record for the design/build team for the new West Virginia Consolidated DEP Office Building, the first LEED certified building in the State. Our staff includes an accredited professional for the Leadership in Environmental and Energy Design (LEED) and we incorporate the most efficient and sustainable "green" designs in all of our projects.

History

CMA Engineering has provided engineering design services on numerous projects of varying size and complexity. Clients include architects, industrial companies, governmental agencies, contractors, engineers, developers and private organizations. With offices strategically located in Charleston and Morgantown, our professional staff can provide clients with exceptional hands-on services for planning, meetings, site visits and construction administration without effecting the project's budget.

WVARNG Experience

For thirty years, CMA has provided electrical and mechanical design and contract administration services to various WVARNG facilities covering the State. These facilities and projects range from the smallest renovations of existing armories and readiness centers to construction of new reserve centers and even combination facilities like 911 centers and maintenance garages. Many times, special site-related issues have complicated design due to remote locations, poor water quality or pressure, unreliable local power systems, etc. Many new armories we have designed include distance learning auditoriums, secure telecommunications rooms, firing ranges, weapon simulations rooms, firearm vaults, drill halls, large kitchens, equipment storage, bunk rooms, and expandable classrooms. CMA has consistently met the challenges and exceeded expectations by customizing design to address all concerns while staying within project schedules and budgets. We are proud of our service to the West Virginia Army National Guard.

Clingenpeel/McBrayer & Associates, Inc.

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(304) 598-2558 phone (304) 598-2472 fax



Timothy L. Cox, P. E., CBCP

President
Mechanical Engineer
(304) 598-2558
tcox@cmawv.com

Education

University of Colorado
Boulder, Colorado
Bachelor of Science in Mechanical Engineering

Registrations/Professional Affiliations

Registered Professional Engineer in WV, VA, MD, KY
Association of Energy Engineers-CBCP
CPD (Certified in Plumbing Engineering)
Member of ASHRAE
American Society of Plumbing Engineers
National Association of Fire Protection Engineers
WV Society of Healthcare Engineers
WV Chapter of A.I.A.

Experience

Timothy Cox, President and Senior Mechanical Engineer of CMA Engineering, brings 33 years of mechanical and plumbing design experience to our clients. Timothy is a Certified Building Commissioning Professional through Association of Energy Engineers.

Project Experience

Design/Build-Criteria Development

Morgantown Events Center
West Virginia University Intermodal Parking
Marshall University Parking Facility
Yeager Airport Facility

Educational Facilities K-12

New Rainelle Elementary School
Salem Middle School Classroom Addition
South Harrison High School HVAC Replacement
South Harrison Middle School HVAC Upgrades

West Virginia University-Open End Contract since 1999

Coliseum Life Safety Renovations
New Soccer Stadium
New Wrestling Training Facility

Military Experience

New Moorefield Readiness Center
New Elkins Readiness Center
Gassaway Armory Addition & Renovations
St. Albans Armory Addition
Clarksburg/Weston Armory Renovations

Mylan Pharmaceuticals, Morgantown, WV

Various projects including HVAC plumbing, fire sprinkler and controls for new North Plant expansion, office building, fluid bed addition, parking garage and weighing and packaging

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Daniel L. Ellars, P. E., AP BD+C

Principal
Electrical Engineer
(304) 343-0316
dellars@cmawv.com

Education

West Virginia University Institute of Technology
Montgomery, WV

Bachelor of Science in Electrical Engineering

West Virginia State University
Institute, WV

Bachelor of Science in Business Administration

Registrations/Professional Affiliations

Registered Professional Engineer in WV, PA

Leadership in Energy & Environmental Design-

Accredited Professional-Building Design and
Construction

U..S. Green Building Council

Member of ASHRAE

National Fire Protection Association

Institute of Electrical & Electronics Engineers

WV Chapter of A.I.A.

Experience

Daniel Ellars, senior electrical engineer, brings 26 years of electrical design and project management experience to our clients. Mr. Ellars had 17 years of experience with American Electric Power providing advice and coordination for new construction, additions, renovations and energy audits. Dan also served as the project manager for AEP's prime and emergency power systems program to provide on-site power generation to small and large, commercial and industrial customers across AEP's seven state territory.

Project Experience

Military Experience

New Moorefield Readiness Center

New Elkins Readiness Center

St. Albans Armory-Addition and Renovations

Gassaway Armory-Addition and Renovations

Welch Armory-Electrical Upgrades

Bluefield Armory-Electrical Upgrades

Dunbar Armory-Electrical Upgrades

Mylan Pharmaceuticals

New Office Building

North Plan Expansion

Recreational Facilities

Summit Bechtel National Scout Reserve

Canaan Valley Ski Resort

WV Department of Transportation

New District 1 Administration Building

New District 8 Administration Building

Interstate Lighting Upgrades

WVDOH-Utility Study for all 10 Districts

Educational Experience

New Talcott Elementary School

New Fairdale Middle School

Chamberlain Elementary-Elevator Addition

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Matthew C. Corathers, P.E.

Mechanical Engineer
(304) 598-2558
mcorathers@cmawv.com

Education

West Virginia University
Morgantown, WV
Bachelor of Science in Mechanical Engineering

Registrations/Professional Affiliations

Registered Professional Engineer in WV
Member of ASHRAE
WV Society of Healthcare Engineers

Experience

Matthew Corathers, mechanical engineer, joined CMA's professional staff in 2008. He has since become registered as a mechanical engineer and has been involved in numerous projects starting from development of fees, design, bidding and construction administration services developing as a complete engineer. He is also cross training between disciplines of plumbing, electrical, and fire sprinkler to provide more complete services to our clients.

Project Experience

West Virginia University
New Daycare and Nursery Facilities
Engineering Science Building— Laboratory Renovations

Hospital Experience

Davis Memorial Hospital-New Addition
Monongalia General Hospital-Renovations to IT Workroom Cooling
United Hospital Center-New MRI facility
VA Hospital, Clarksburg, WV-Renovations to Dental Lab
Mercer County Nursing Home-Addition

Court Houses

Randolph County Courthouse-Mechanical design for completion of two-story addition and modifications of the existing second floor to be used by the Family Court
Monongalia County Family Court-Renovations

Educational Facilities

Harrison County Schools-Fire Alarm replacement at Robert C. Byrd High School, Nutter Fort Elementary and Lost Creek Elementary
University High School-HVAC Upgrades for use as a middle school
New Rainelle Elementary School-HVAC Design
Aurora Elementary School Addition-Mechanical Design

Military Experience

Elkins Armed Forces Reserve Center
Clarksburg/Weston Armory Renovations

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Larry A. Weese

Plumbing Designer
(304) 343-0316
lweese@cmawv.com

Education

West Virginia University
Morgantown, WV
Master of Science, Bachelor of Science-
Division of Forestry

Professional Development

Various seminars and technical sessions

Experience

Larry Weese brings 27 years of mechanical and plumbing design and project management experience to our clients. Larry brings cross training between electrical, mechanical and plumbing/fire sprinkler systems to provide a more complete and thorough representation to each of our clients' projects.

Project Experience

Military Experience

Elkins Armed Forces Reserve Center
Moorefield Readiness Center
St. Albans Armory Renovations & Additions
Gassaway Armory Renovations & Additions

Emergency Response Facilities

Randolph County 911-New Facility
Mason County 911-New Facility
Raleigh County 911-New Facility
Orchard Manor Fire Station-New Facility

Industrial Experience

Standard Laboratories-Laboratory Addition
Dow Process Control-New Facility
Diamond Electric-Expansion

Commercial Experience

Bobcat of Advantage Valley-New Facility
Allegheny Springs Restaurant

Educational Facilities K-12

New Sissonville Middle School
New Lewisburg Elementary School
New Talcott Elementary School
New Fairdale Elementary School
Nitro High School Toilet Renovations

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Professional Engineer Registration Cards

Clingenpeel/McBrayer & Associates, Inc.

West Virginia State Board of Registration
for Professional Engineers

TIMOTHY L. COX
[REDACTED]

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

EXPIRES December 31, 2016

West Virginia State Board of Registration
for Professional Engineers

DANIEL L. ELLARS
[REDACTED]

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

EXPIRES December 31, 2016

West Virginia State Board of Registration
for Professional Engineers

MATTHEW C. CORATHERS
[REDACTED]

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

EXPIRES December 31, 2016

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Project Location: Bluefield, WV

Project Description: CMA Engineering provided mechanical, electrical and plumbing design and contract administrative services for replacement and upgrade of the existing underground power service and addition of a new stand-by, emergency engine/generator set with a new automatic transfer switch for the armory. The new emergency power system was designed to support the existing armory's loads while the new distribution panel was designed to support future HVAC loads anticipated to be added in future projects. The future HVAC loads are not to be supported by the generator.

Completion Status: Completed in 2014

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Project Location: Dunbar, WV

Project Description: CMA Engineering provided design and contract administration services for replacement and upgrade of the existing overhead power service to a new underground service and the addition of a stand-by, emergency engine/generator set with a manual transfer switch for the armory. The engine/generator set was an available, existing military grade field unit and the transfer switch was re-used from another armory that had upgraded its service. The emergency power system was designed to support the existing armory loads while the new main distribution panel was designed to support future HVAC loads anticipated to be added in future projects. The future HVAC loads are not to be supported by the generator. CMA also provided design and contract administrative services for replacement and upgrade of the telecommunications systems service entrance and general upgrade of the facility's telephone and data systems.

Completion Status: Completed in 2014

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Project Location: Gassaway WV

Project Description: CMA Engineering provided mechanical, electrical and plumbing, design services for the renovation of 24,170 square feet of a single story structure including a 10,900 square feet drill hall and the addition of a new 4,180 sf single story facility to house lockers, storage space, a lobby, corridors and office space. The design included upgrades to plumbing and electrical utilities as well as new HVAC systems and controls for the addition and renovated areas; new power, lighting and communications design; and modifications to the fire alarm, fire sprinkler, security and other systems.

Construction was accomplished while the facility was fully occupied.

Completion Status: Completed in 2010

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Project Location: St. Albans, WV

Project Description: CMA Engineering provided mechanical, electrical and plumbing, design services for the renovation of 16,407 sf of a single story facility and a single story addition of 13,940 sf composed primarily of office space, storage space, a lobby and corridors. The project also included the addition of a free-standing, insulated metal building (approximately 1,760sf) divided into three bays for vehicular storage. A new electric fire pump and associated water storage tank were added to address low water pressure problems at the site. Construction was accomplished while the facility was fully occupied.

Completion Status: Completed in 2011

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Raleigh County Schools- HVAC Renovations



Project Description: CMA Engineering provided mechanical and electrical design for three elementary schools: Cranberry- Prosperity, Crescent and Mabscott. These schools required the addition of 60+ individual classroom air conditioning units as where previous Additional design for split systems, exhaust, and roof-top a/c units were also required to add cooling and ventilation to restrooms, gymnasiums and cafeterias. With the addition of new HVAC units, electrical design was also performed to upgrade the power entries at each school. Limited scope alternatives for partial and full demolition of existing heating water systems were added to the design documents in order to permit higher flexibility in the project budget during bidding. CMA acted as Prime Consultant on the project.

Project is currently proceeding into the bidding phase.

Owner Contact: Rod Lively

Raleigh County Schools
105 Adair Street
Beckley, WV 25801
(304) 256-4565 x4732

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South Harrison High School HVAC Renovations



Project Description: CMA Engineering provided mechanical, and electrical engineering design services for new HVAC systems and associated electrical systems serving the Academic Wing (two floors) and the Band Room in adjacent wing (total renovation area of 50,000sf) and the gymnasium, six rooms and two shop classrooms (approximately 15,000sf). As one main system was serving the entire facility, design for this project included careful consideration of the effects of the new systems on the entire facility. As with most educational facility projects, time constraints were also a major factor.

Original Budget: \$1,500,000.00
Construction Cost: \$1,450,000.00
Project Size: 65,000 square feet
Name of Owner: Harrison County Schools
P.O. Box 1370
Clarksburg, WV 26302
Owner Contact: Neil Quinn
(304) 624-3355

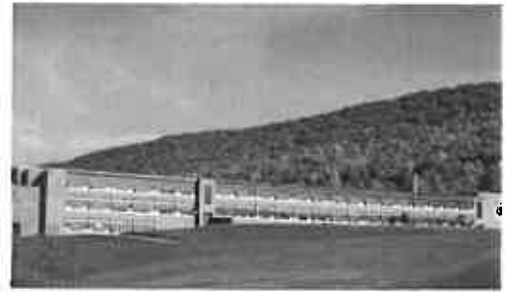
Additional Information: CMA Engineering acted as Prime Consultant on this project. Project completed in 2011.

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Bluefield High School- Boiler Replacement



Project Description: Project was to quickly provide a design and follow through with complete construction administration services to replace boiler and domestic hot water plant for a high school. Entire project was a last minute activity due to equipment failures. Design started in March 2014 and was approximately six weeks from start to finish, bidding and establishing contracts took more time at almost ten weeks to the end of May and construction was allowed only four months including shop drawings review and delivery of all equipment. The new steam boiler systems had to be operational before cold weather set in at the end of September 2014.

CMA Engineering provided complete mechanical, electrical and plumbing design for this boiler system replacement. At the same time another project was started to replace a chiller system at Montcalm High School which had only six weeks from start of construction contract until school was to be ready for start (August 1, 2014). CMA worked with the contractor and various equipment manufacturers and got the new chiller system on line in approximately three weeks.

Project Budget: \$998,000.00
Construction Cost: \$995,445.00
Owner Contact: Leslie Wellman, Director of Purchasing
Mercer County Schools
(304) 920-5635
Completion Date: 2014

Clingenpeel/McBrayer & Associates, Inc.

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Project Location: Welch, WV

Project Description: CMA Engineering provided design and contract administration services for replacement and upgrade of the existing overhead power service and addition of a standby, emergency engine/generator set with a new automatic transfer switch for the armory. The engine/generator set was re-used from another armory that had upgraded its service. The new generator was modified to change its voltage to suit the new application. The emergency power system was designed to support the existing armory's loads while the new main distribution panel was designed to support future HVAC loads anticipated to be added in future projects. The future HVAC loads are not to be supported by the generator.

Completion Status: Completed in 2014

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Project Location: Moorefield, WV

Project Description: CMA Engineering provided design of HVAC, plumbing, fire alarm and fire sprinkler systems, and electrical systems for the new 57,100sf armory facility including an on-site, standby emergency power system designed to provide 100% of the overall power requirements to the facility in addition to an electrically-driven fire pump. The building consists of an armory combined with a 911 center. Facility also included a vehicle maintenance bay, a distance learning center and classrooms. Designs included a coordination of the campus's complete underground medium-voltage power and telecommunications systems and separation of the armory's and 911 center's telecommunication networks.

Project Owner Contact: Major Rocky Hodges
WV Army National Guard
(304) 561-6353
Rocky.Hodges@us.army.mil

Completion Status: Completed in 2014

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Project Location: Elkins, WV

Project Description: CMA Engineering provided design of HVAC, plumbing, fire alarm and fire sprinkler systems, and electrical systems for the new 54,500sf all-electric armory facility including an on-site, standby emergency power system designed to provide about 40% of the overall power requirements of the facility in addition to an electrically driven fire pump. Plans were provided to allow an additional engine/generator set to be installed to more than double the system's capacity in the future. Designs included a portable on-site, standby emergency power system for the facility's lift station, and coordination of the campus' complete underground medium-voltage power and telecommunications systems.

CMA complied with the latest requirements of the West Virginia Army National Guard to provide door access security at selected entrances including card readers with magnetic locks or electric hinge locks and door contacts for access monitoring. The fire alarm system was interconnected with a mass notification system for customized procedures in response to various emergency and threat conditions. Power and raceway designs were provided to support the Guard's elaborate security systems to safeguard their weapons vaults.

Project Owner Contact: Major Rocky Hodges
WV Army National Guard
(304) 561-6353
Rocky.Hodges@us.army.mil

Completion Status: Completed in 2012

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Eleanor Maintenance Center

CMA Engineering provided mechanical, electrical and plumbing design services for a 132,000sf maintenance facility to house combined support maintenance shop and Class IX USPFO warehouse. CMA has continued to provide engineering services for the addition of the paint booth, entrance guard house, MCOFT pad, and covered storage.



Eleanor Readiness Center

CMA Engineering provided engineering services for the design of mechanical, electrical and plumbing systems for the new 80,000sf readiness center, including a 16,000sf section that is utilized by the United States Navy.



Summersville Readiness Center

CMA Engineering provided engineering services for the design of mechanical, electrical and plumbing systems for the 42,000sf readiness center. This facility also features areas for use by the City of Summersville for events



Lewisburg Readiness Center

CMA Engineering provided mechanical, electrical and plumbing design services for a 37,000sf readiness center that includes a vehicle maintenance bay.



Clingenpeel/McBrayer & Associates, Inc.

824 Cross Lanes Drive Charleston WV, 25313
(304) 343-0316 phone (304) 343-5146 fax

5 Riddle Court Morgantown, WV 26505
(304) 598-2558 phone (304) 598-2472 fax



DR. MARK A. MANCHIN
Superintendent

HARRISON COUNTY SCHOOLS

408 E. B. SAUNDERS WAY
POST OFFICE BOX 1370
CLARKSBURG, WEST VIRGINIA 26302-1370
(304) 326-7300
FAX (304) 624-3361

BOARD OF EDUCATION
DOUGLAS K. HOGUE, *President*
FRANK DEVONO, JR. *Vice President*
MICHAEL DAUGHERTY
GARY M. HAMRICK
KRISTIN MESSENGER

To whom it may concern :

This letter is in reference to CMA engineering . CMA Engineering has successfully completed several projects in past and recent years for Harrison county schools . CMA Engineering designed and engineered total hvac renovations at South Harrison High School , South Harrison Middle School , and Salem Elementary School with minimal design issues and change orders . All three schools are very operable and economical as a result of CMA Engineering . CMA Engineering designed and engineered glycol and glycol installation at Robert C. Byrd high school , Bridgeport middle school , Big Elm Elementary school , and Nutterfort elementary school for Harrison county schools that also proved to be another successful project . In 2014 CMA Engineering successfully designed and completed fire alarm replacements at Robert C. Byrd High School , Nutterfort Elementary school , and Lost Creek Elementary School . During the 2015 year CMA Engineering assisted a local mechanical contractor to complete the hvac portion of a 5 million dollar energy project done by Harrison County Schools . During the later portion of 2015 CMA completed work on chiller replacements at Liberty High School and Johnson Elementary School . Also during the same time designed and completed fire alarm replacements at Bridgeport Middle School and South Harrison Middle School .

Currently Harrison County Schools is working with CMA on a Food service and Transportation project that include three phase electrical design , sixty bus parking facility lighting and power design , large cooler /freezer food storage facility and environmentally controlled dry food storage facility . Harrison County Schools has a good working relationship with CMA Engineering and has always found them to be very capable of the design and engineering of any mechanical project large or small . I have found the CMA Engineering staff to be very professional , knowlegable , prompt , and courteous . I would highly recommend CMA Engineering for any project and feel very confident they would complete the project on time and on budget .

Joe Ammons

Director of Maintenance
Harrison County Schools



PURCHASING DEPARTMENT
1403 Honaker Avenue, Princeton, West Virginia
(304) 487-1551, Fax (304) 425-5011
Deborah S. Akers, Ed.D., Superintendent
Bids are posted at: <http://boe.merc.k12.wv.us/purchasing>

February 1, 2016

To Whom It May Concern:

We have had the opportunity to work with CMA Engineering on several projects in recent years. These projects ranged from the new Pikeview Middle School, a large SBA funded boiler replacement project on down to assisting us in finding a solution to poor ventilation/standing water under our main MCTEC building. In December of last year, we had a need to contract with an electrical engineer for a metal building we plan to have erected and when questioned as to which engineer we should use, I immediately said CMA.

I have found CMA, Tim Cox and the entire staff to be very professional, accurate and cost conscious. Plans were delivered timely and accurately. All projects came in at or under budget with no change orders, other than one which our Maintenance Director requested.

It is critical that we have strong engineers that we can rely upon. The Mercer County Board of Education has found CMA to be one we rely upon frequently. Based upon my experience with CMA, I would highly recommend them to other organizations as well.

Regards,

A handwritten signature in cursive script that reads 'Leslie Wellman'.

Leslie Wellman, CPA
Purchasing Director



812 Gorman Avenue • Elkins, WV 26241 • 304.636.3300 • Fax 304.637.3435 • davishealthsystem.org

February 12, 2016

To Whom it May Concern,

We are writing this letter of recommendation for CMA Engineering, and Timothy Cox, President. We have worked exclusively with Tim and CMA Engineering for the past fifteen years. Tim and his staff are very professional and punctual and continue to be an integral part of our construction projects.

CMA Engineering has provided services for us on numerous projects for all of Davis Health System. Tim has been involved from the conceptual phase thru the end of construction on projects for us such as a replacement facility for Broaddus Hospital in Philippi, WV, a new Cancer Care center in Elkins, WV, numerous MEP projects for Davis Medical Center, and the Addition to Davis Medical Center in Elkins, WV. These projects range from 3,000 square foot buildings to 80,000 square foot additions and numerous mechanical renovation projects.

Tim Cox and CMA Engineering have proven themselves time and time again to us by providing innovative and cost effective designs. We are pleased to recommend them for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Johnson", written over a horizontal line.

Steven Johnson, CHFM
Director of Support Services
304-637-3129

Sincerely,

A handwritten signature in black ink, appearing to read "J. Pastine", written over a horizontal line.

Jeri Pastine, RE, CHFM
Project Coordinator
304-637-3521





1200 J.D. Anderson Drive
Morgantown, WV 26505
phone 304-598-1200
www.mongeneral.com

February 3, 2016

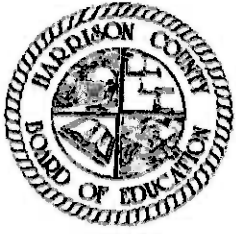
To Whom It May Concern:

I am writing on behalf of CMA Engineering as a recommendation of their engineering services. Mon General Hospital has utilized CMA to perform design and construction administration tasks on various projects located throughout our facility. CMA has demonstrated proficient knowledge of current codes and specific design requirements and regulations which govern modern design of hospital HVAC, electrical and plumbing systems. I recommend CMA Engineering as an MEP engineering consultant for design and construction review processes.

Thank you.

Sincerely,

Dan Wheeler, Facilities Project Manager
Monongalia General Hospital
Morgantown, WV 26505



DR. MARK A. MANCHIN
Superintendent

HARRISON COUNTY SCHOOLS

408 E. B. SAUNDERS WAY
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BOARD OF EDUCATION
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MICHAEL DAUGHERTY
GARY M. HAMRICK
KRISTIN MESSENGER

January 28, 2016

Mr. Tim Cox, P.E.
CMA Engineering, Inc.
5 Riddle Court
Morgantown, WV 26505

To Whom It May Concern:

It is my pleasure to write this letter on behalf of CMA Engineering, Inc. and recommend Mr. Tim Cox.

For over 20 years I have worked with CMA on numerous projects for Harrison County Schools and they have proven to be a valuable asset to the school district. We have greatly benefitted from the expertise and engineering skills of CMA. Tim and his team are true professionals and bring important engineering knowledge and skills to their projects.

CMA has always been conscientious of financial constraints and have always delivered superior service in a timely manner for Harrison County Schools. Harrison County Schools would not hesitate to work with CMA on future projects, and I would recommend them to other organizations without reservation.

Please do not hesitate to contact me for further information or questions.

Sincerely,

A handwritten signature in cursive script that reads "Neil Quinn".

Neil Quinn, Project Manager
Harrison County Schools
304.326.7305



FACILITIES/OPERATIONS
3300 Pennsylvania Avenue • Charleston, WV 25302
Charles H. Wilson, AIA
Architect/Facilities Planner

January 28, 2016

To whom it may concern,

As the Facilities Director for Kanawha County Schools, it has been my pleasure to work with CMA Engineers on multiple successful projects over the past 30 years and recommend them for any project. They have a well qualified staff knowledgeable of both the latest building systems for new construction and of antique systems used in our older facilities. They coordinate well with our architectural firms and are a valuable member of our building team.

Sincerely,

Charles Wilson

COMPANY PROFILE



N Visions has designed and administered the construction of over 200 million dollars of projects in West Virginia since 1985.

N Visions has experience in a wide range of architectural projects including educational, institutional, healthcare, housing, public and private facilities for developers and non-profits, historic preservation, and residential properties.

Design is the heart of a successful project. It is important to provide the proper aesthetics, functional relationships, space planning, and to be a good neighbor in the community and meet the project budget. N Visions will make certain that your project is successful for both the owner and the community.

PROFESSIONAL SERVICES

FACILITIES PLANNING AND PROGRAMMING

Determining the actual needs of the client and how to adapt them to the available environment is essential for a successful project. N Visions will assist in defining the needs and desires of the client/user prior to the design of the project.

SITE EVALUATION

N Visions Architects can provide studies of potential project sites for evaluation by the Owner. Geotechnical, utility, environmental, and property utilization will be evaluated, to allow the Owner to make a site selection decision.

EXISTING FACILITIES EVALUATION

Use of existing facilities requires an educated understanding of potential opportunities and risks that may be encountered. N Visions will assist the Owner in determining how to best enhance the use and reduce the risks to reach a solution.

CODE COMPLIANCE

The State Fire Marshal, School Building Authority, U.S. Army Corps of Engineers, State Historic Preservation Office, Health Department, and other agencies have specific requirements that must be addressed in all building projects. N Visions has worked with these agencies, and others, on numerous projects, and is familiar with their personnel and regulations. N Visions has a positive working relationship with these agencies, and in many cases involves them early in the design process, which translates into benefits to the Owner.

AWARDS



**AIA West Virginia 2008 Craftsmanship
Award for Excellence in Craftsmanship**
Sissonville Middle School



**AIA West Virginia 2008 Honor Award
For Excellence in Architecture**
Fairmont State University
Student Activities Center



AIA West Virginia 1993 Honor Award
Trans Allegheny Books, Charleston, WV

AIA West Virginia 1991 - Honorable Mention
McCabe-Henley Properties, Inc.
Charleston, WV

**Charleston Renaissance Corporation
Best Development**

Capitol City Building, Charleston, WV
Trans Allegheny Books, Charleston, WV
200 Hale Street, Charleston, WV
The Gates Building, Charleston, WV
210 Hale Street, Charleston, WV

**WV Home Building Association
Best Multi-Family Developer**

Governor's Court Apartments,
Charleston, WV
Woodbridge Condominiums,
Teays Valley, WV



**City of Charleston
Distinguished Design Development**
Summers Square, Charleston, WV

HUD – Project of the Year 2000
YWCA Transitional Housing
Charleston, WV



**Associate Builders and Contractors, Inc.
2005 Excellence in Construction**
YWCA Senior Housing
Charleston, WV

REFERENCES

Chuck Wilson, Kanawha County Board of Education
3300 Pennsylvania Avenue, Charleston, WV 25302, 304-348-6148

Nitro High School Commons Addition/Renovations, Nitro, WV
East Bank Middle School Renovation, East Bank, WV
New Sissonville Middle School, Sissonville, WV
South Charleston Middle School Elevator, Windows, Toilet Renovation
Montrose Elementary HVAC and Window Replacement
Nitro High School HVAC and Toilets Renovation
Herbert Hoover High School Addition and Renovation
Elkview Middle School Addition and Renovation
South Charleston High School Addition and Renovation
George Washington High School Addition and Renovation
Auxiliary Gyms – Four County high schools
Piedmont Elementary Addition and Renovation

Brooks McCabe, McCabe • Henley
P. O. Box 11108, Charleston, WV 25339, 304-342-4415

Summers Square, Summers and Quarrier streets, Charleston, WV
Capitol City Building, Capitol and Quarrier streets, Charleston, WV
One Kenton Drive, Northgate Office Park, Charleston, WV
KB & T Building, Capitol Street, Charleston, WV
The Strand, Hale Street, Charleston, WV

Cindy Barnette, Senior Vice President, Thomas Health System, Inc.
4605 MacCorkle Avenue, SW, South Charleston, WV 2530
304-766-3710

Thomas Memorial Hospital
Saint Francis Hospital

Rick Atkinson, Central West Virginia Regional Airport Authority,
100 Airport Road, Suite 175, Charleston, WV, 304-344-8033

Yeager Airport Parking Facility
Yeager Airport, John D. Rockefeller IV Terminal
Passenger Access Control and ADA Accessibility

PROJECT TEAM



GEORGE M. SOLTIS, AIA, NCARB
Principal/ President

Academic Experience

Bachelor of Architecture with Distinction
University of Kentucky – 1977
Conservation USA – 2007

Registration

N. C. A. R. B. No. 55,660
Active: West Virginia, Virginia, Kentucky,
Inactive: Tennessee

Professional Associations

AIAWV West Virginia
AIA American Institute of Architects

Civic Organizations

Boy Scouts of America
Buckskin Council Executive Board
Troop 195 Committee Member

Boy Scouts of America, Order of the Arrow,
Central Region C4B,
Section Advisor

Health Appeals Board,
City of South Charleston

Responsibility

Principal-in-Charge, Administration/Design
Principal and Owner of N Visions

Project Experience

Educational

- Over 20 years Educational Experience

New Sissonville Middle School
East Bank Middle School
Herbert Hoover High School
Addition/Renovations
Sissonville Branch, Kanawha County Library
George Washington High School
Addition/Renovations
South Charleston High School
Additions/Renovations
Elkview Middle School Additions/Renovations
South Charleston Public Library
Addition/Renovation
Kanawha County Schools Football Fields
Bleachers and Renovations



VISIONS

A · R · C · H · I · T · E · C · T · S

PROJECT TEAM



Commercial

Ream Interests Office Building
Tri-State Racetrack & Gaming Center
Summers Square Office Building –
One Kenton Drive/Northgate Office Building
Capitol City Building/Renovation/Restoration

Health Care

- **Over 25 years Health Care Experience**

Thomas Memorial Hospital –

South Charleston, WV

St. Francis Hospital – Charleston, WV

IRC Rehabilitation Clinic – South Charleston, WV

Stickler Medical Office Building – Charleston, WV

St. Mary's Hospital – Huntington, WV

Montgomery General Hospital – Montgomery,
WV

St. Joseph's Hospital – Buckhannon, WV

Public/Government

New United States Postal Facilities—

Hurricane, WV

Martinsburg, WV

Bluefield, WV

Princeton, WV

Beckley, WV



Historic Architecture

Historic Architect,

Meeting NPS 36CFR61.9 WV

Restoration of West Virginia

Governor's Mansion Porch

Criel Mound Park Master Plan

Restoration/Renovation of

Criel Mound

Locomotive Shelter,

Chief Logan State Park

Gates Building, Charleston, WV

Renaissance Tower, Charleston, WV

USPS Point Pleasant, WV

USPS Bluefield, WV

PROJECT TEAM



ELISSA VECELLIO MOSBY Interior Designer

Academic Experience
Bachelor of Fine Arts in Interior Design
Layton School of Art - 1970
Milwaukee, Wisconsin

Professional Associations

AIA Associate Member

Ms. Mosby has design experience with architectural firms covering a wide scope of projects, with a strong emphasis on education, government, and health care related facilities. As the lead interior designer and space planner she matches client requirements with creative and functional solutions, to develop pleasing interior environments, which incorporate the client's long-range planning and maintenance requirements. Ms. Mosby's experience includes the following:

Institutional

WV School of Osteopathic Medicine:
Admissions Building, Renovation of
Administrative and Academic Offices
Complex, Ronald Sharp Alumni Center –
Lewisburg, WV

Educational

New Sissonville Middle School
East Bank Middle School
Kanawha County Library Main Branch
Piedmont Elementary School
South Charleston Public Library
Sissonville Branch,
Kanawha County Library
George Washington High School
Addition/Renovations
South Charleston High School
Addition/Renovation
Greenbrier County Library – Lewisburg, WV
WV School of Osteopathic
Medicine Technology Building –
Lewisburg, WV



PROJECT TEAM



Commercial

A.G. Edwards Offices – Charleston, WV

Ream Interests Office Building –
Lewisburg, WV

Tri-State Gaming Center Addition – Nitro, WV

McCabe Henley Properties – Charleston, WV

Health Care

- Over 30 years Health Care Experience

Thomas Memorial Hospital; Office Pavilion, Out

Patient Clinic, Patient Tower –
South Charleston, WV

Robert C. Byrd Clinic – Lewisburg, WV

St. Francis Hospital – Charleston, WV

Public/Government

Robert C. Byrd Federal Courthouse –
Charleston, WV

Veterans Administration Medical Center –
Huntington, WV

FAIRMONT STATE COLLEGE STUDENT CENTER



**Student Recreation Center
Fairmont State University
Fairmont, WV**

Two gyms, swimming pool, indoor running track, kitchen and dining, conference center, and miscellaneous student services

**Construction Cost: \$ 20,000,000
Size: 113,000 sf
Completion: 2005**

**Designed in collaboration with
VOA Chicago, Illinois**

KB&T RENAISSANCE TOWER



KB&T Renaissance Tower
Charleston, WV

Historic Replacement Windows
Masonry Restoration

Existing eleven story landmark bank and office building restored and converted into Class A office space and condominiums. Restoration/renovation designed to make the tower completely ADA accessible.

Completion

1999-2009

A G EDWARDS



A G Edwards & Sons, Inc.
500 Lee Street East
Charleston, West Virginia 25301

Partial Fourth Floor renovation of
Laidley Tower, Charleston,
West Virginia to provide office space

Size:	6,639 sf
Construction Cost:	\$ 450,000
Completion:	2007

REAM INTERESTS



Ream Office Building
Lewisburg, West Virginia

Two-story, 5,000 sf office building and associated site development with 20 parking spaces, and formal entrance design for office and adjacent residential development.

Size: 5,000 sf
Construction Cost: \$ 1,036,000
Completion: 2005

UPPER KANAWHA VALLEY TECHNOLOGY BUILDING



Upper Kanawha Valley
Technology Community Building
Montgomery, West Virginia

Basement build out for the
National Publishing Innovation
Center, ink research labs.

Cost: \$275,000
Completion: 2008

HERBERT HOOVER HIGH SCHOOL



Herbert Hoover High School
275 Elk River Road South
Clendenin, WV

Additions and renovations, including
choir room with connecting corridor
and storage; dining/cafeteria addition
with new service road, renovations to
existing office area and commons
area, and existing dining/cafeteria.

Size:	
Dining/Choir Addition	3,209 sf
Renovation/Offices	1,343 sf
Construction Cost:	\$ 850,000
Completion:	2005

DUDLEY PUBLIC SAFETY CENTER



Dudley Public Safety Center
Dudley Drive
Charleston, West Virginia

New construction consisting
of two large vehicle bays, a
small ambulance bay, dorms,
showers, locker room,
kitchen, offices, and storage.

Size:	6,600 ± sf
Cost:	\$ 961,000
Completion:	2000

BECKLEY FIRE STATIONS



Pikeview Station



3rd Avenue Station

Two Fire Stations
City of Beckley
Beckley, West Virginia

Cost: \$ 2,500,000

Completion: 1998

Stafford Consultants, Inc. Profile

Stafford Consultants Inc. was formed in 1985 from a core group of employees of Gates Engineering Company. After many successful years of operation, Gates Engineering Company was bought by a large design / build firm that later decided to divest the consulting engineering firm. Two original partners and five other employees have been with the firm since its inception.

Currently, Stafford Consultants employs a total staff of sixteen, including four registered professional engineers. Our high ratio of professional to total employees is indicative of the importance we place on providing professional service to our clients. Mr. Edward L. Shutt, P.E. now serves as president of the firm.

Our firm is a full service Engineering firm that provides services in Civil, Structural, Highway, Bridge, Airport, Environmental, and Sanitary Engineering. We have been providing engineering services for water, sewer and general civil projects for more than twenty seven years. Although our main emphasis is toward the municipal utility market, our firm is highly qualified and capable of completing varied civil and structural projects. The football stadiums at West Virginia and Marshall University, buildings at Virginia Tech, sidewalks for the City of Princeton, artificial turf for the Princeton Senior High School football field, and master planning of athletic facilities at Virginia Tech and Marshall are prime examples.

Stafford has provided site civil and structural engineering design services, many in association with architectural firms, since the firm was founded. Representative projects include Chapmanville High School, Parkersburg High School, Parkersburg South High School, Williamstown High School, Hilltop Elementary School, Wheeling Park High School, Cameron High School, Weirton Elementary School, Brooke County Middle School, the Chuck Mathena Center for Performing Arts in Princeton, the Merriman Athletic Facilities Building at Virginia Tech, Oakvale Elementary School, Mercer County Health Center, and the North Central Advanced Technology Center.

All structural projects and site civil projects at Stafford are managed by Kenneth R. Crowe, P.E. Kenneth has over thirty-four years of structural, transportation and site civil engineering experience. He is assisted in this work by Kevin Smith, engineering and CAD technician. Kevin is experienced and particularly adept at site grading, pavement, drainage, and water and sewer layout.



The Chuck Mathena Center in Princeton and the tennis court at Williamstown High School are representative of Stafford's structural and site development capabilities.





KENNETH R. CROWE, P.E.
VICE PRESIDENT

EDUCATION:

West Virginia Institute of Technology
Bachelor of Science, Civil Engineering (1976)

REGISTRATIONS/AFFILIATIONS:

Registered Professional Engineer in
West Virginia (1980) and Virginia (1981)

EXPERIENCE:

Stafford Consultants Incorporated (1985 to present)
Gates Engineering Company (1981 to 1985)
Westmoreland Coal Company (1976 to 1981)

PROJECT MANAGER AND DESIGN ENGINEER:

- 25 projects for the WVDoH including Mullens Overhead Bridge, Cass Arch Bridge (*WVDoH Small Bridge Engineering Excellence Award Winner*), Mineral Wells I-77 Interchange Overpass Bridge (*WVDoH Small Bridge Engineering Achievement Award Finalist*), Camden Avenue I-77 Bridge, Devil's Backbone Bridge, Grapevine Creek Bridge (*WVDoH Small Roadway Engineering Excellence Award Winner*), North Lewisburg Road Widening (*WVDoH Small Roadway Engineering Achievement Award Finalist*), and Tabb's Station Bridge.
- WVDoH District 1 and District 7 Headquarters Buildings. District 7 and District 8 Equipment Buildings.
- Chuck Mathena Center for the Arts in Princeton, WV
- Merriman Athletic Facilities building at Virginia Tech in Blacksburg, VA
- Private skybox addition at Mountaineer Field at West Virginia University in Morgantown, WV
- Mercer County Health Center in Green Valley, WV
- Oakvale Elementary School in Oakvale, WV
- North Central Advanced Technology Center in Marion County, WV
- Marshall University married student housing renovations in Huntington, WV
- Marshall University weight training facility in Huntington, WV
- Concrete sequencing batch reactor tanks for wastewater treatment plant in Athens, WV
- Bluefield High School roof replacement in Bluefield, WV
- Elevated aluminum walkway at wastewater treatment plant in Hinton, WV
- Scoreboard support framing at football stadium at Marshall University in Huntington, WV
- Caisson foundation system for AEP service center building in Tazewell, VA



KEVIN G. SMITH
DESIGNER/CADD TECHNICIAN

EDUCATION:

Raleigh County Vocational Ed. Center (1979)

REGISTRATIONS/AFFILIATIONS:

Civil I and Civil II Certificates

EXPERIENCE:

Stafford Consultants Incorporated (1998 to present)
Computects and DBD Professional Group (1998)
G. A. Tice Incorporated (1992 to 1997)
ESP Associates (1986 to 1992)
G. O. Bledsoe Incorporated (1981 to 1986)
Holly, Kenny, Shott (1980 to 1981)

DESIGNER AND CADD TECHNICIAN:

Assists with all phases of project development, from initial site survey to preparation of base mapping, project layout (roadways, parking, water, and sewer), geometric layout, erosion & sediment control plans, profiles, structural plans, and detail sheets. Projects include:

- 12 projects for the WVDoH including Coalfields Expressway, Grapevine Creek Bridge, Hutchinson Branch Bridge, Cass Arch Bridge, Mullens Bridge, North Lewisburg Roadway Widening, Bellepoint Road Widening, West Webster Road Intersection, and Craigsville Intersection.
- Chapmanville Regional High School in Chapmanville, Logan County (site layout)
- Parkersburg South High School in Parkersburg, Wood County (site layout)
- Bayer Federal Credit Union in Moundsville, Marshall County (site layout)
- Hilltop Elementary School in Sherrard, Marshall County (site layout)
- Cameron High School in Cameron, Marshall County (site layout)
- Weir High School Stadium in Weirton, Hancock County (site layout)
- Oak Glen High School Stadium in New Manchester, Hancock County (site layout)
- Weirton Elementary School in Weirton, Hancock County (site layout)
- Oakvale Elementary School in Oakvale, Mercer County (site layout and structural)
- Mercer County Health Center in Green Valley, Mercer County (site layout and structural)
- North Central Advanced Technology Center in Fairmont, Marion County (structural)
- Brooke County Middle School in Wellsburg, Brooke County (site layout and Revit structural model)

BUILDINGS & STRUCTURES

PROJECT: Oakvale Elementary School

Owner:

Mercer County Board of Education

Location:

Oakvale, West Virginia

Construction Cost:

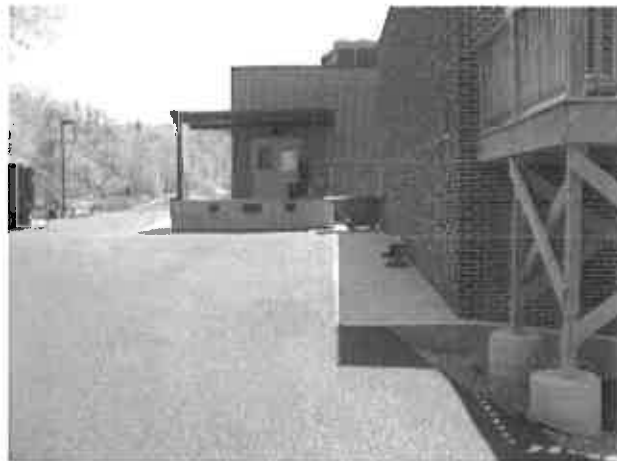
\$6.4 million

Project Architect-Engineers:

Stafford Consultants, Civil & Structural
In Association with E. T. Boggess,
Architect, Inc., Princeton, WV

Description:

44,264 sq.ft. elementary school. Existing gymnasium retained and new school constructed adjacent. One-story at the front and two-story at the rear due to site topography. CMU and steel bar joist construction.



 **STAFFORD
CONSULTANTS
INCORPORATED**
Engineering Design and Consulting

BUILDINGS & STRUCTURES

PROJECT: Mathena Cultural Arts Center

Owner:

The Charles "Chuck" Mathena, II
Foundation

Location:

Princeton, West Virginia

Construction Cost:

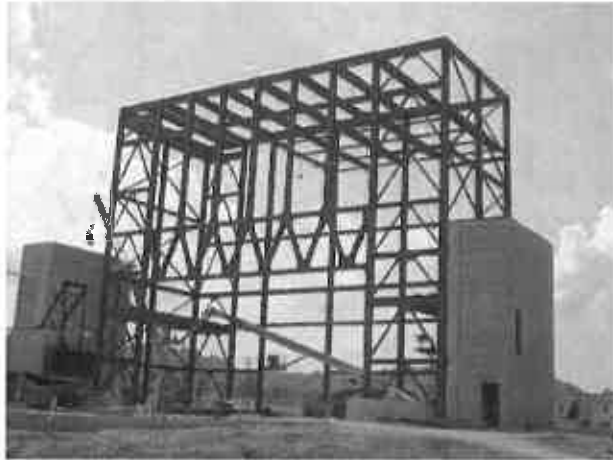
\$10 million

Project Architect-Engineers:

Stafford Consultants, Civil & Structural
In Association with E. T. Boggess,
Architect, Inc., Princeton, WV

Description:

Center for the performing arts and a
multi-use facility featuring a 1,000 seat
auditorium with stage and orchestra pit.
Includes meeting rooms and exhibit hall
with kitchen facilities for receptions,
banquets, etc.



 **STAFFORD
CONSULTANTS
INCORPORATED**
Engineering Design and Consulting

BUILDINGS & STRUCTURES

PROJECT: Weight Training Facility

Owner:
Marshall University

Location:
Huntington, WV

Construction Cost:
\$2.3 million

Project Architect-Engineers:
Stafford Consultants, Civil & Structural
In Association with Southern A&E
Atlanta, GA

Description:
13,000 sq.ft. weight training facility with
locker room, showers and offices.



 **STAFFORD
CONSULTANTS
INCORPORATED**
Engineering Design and Consulting

SPORTS FACILITIES

PROJECT: Marshall University Football Stadium

Owner:
Marshall University

Location:
Huntington, WV

Construction Cost:
\$33 million

Project Architect-Engineers:
Stafford Consultants, Civil & Structural
In Association with Rosser/Fabrap of
Atlanta, GA

Description:
30,000 seat stadium, home of the
Marshall University Thundering Herd.



 **STAFFORD
CONSULTANTS
INCORPORATED**
Engineering Design and Consulting