State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Solicitation

NUMBER	PAGE
COR61694	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE
304-558-2544

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE

CMA Engineering
824 Cross Lanes Drive
Charleston, WV 25313

SHIP TO
DIVISION OF CORRECTIONS

1409 GREENBRIER ST

CHARLESTON, WV
25311 304-558-8045

DATE PRINTED
03/26/2014

BID OPENING DATE: 05/06/2014 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		906-00-00-001		

****
PLEASE NOTE: A MANDATORY PRE-BID MEETING HAS BEEN SCHEDULED FOR 04/23/2014 AT 10:00 AM AT THE HUTTONSVILLE CORRECTIONAL CENTER LOCATED AT ROUTE 219/250 SOUTH HUTTONSVILLE, WV 26273.
****

ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL

EXPRESSION OF INTEREST (EOI)

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, WV DIVISION OF CORRECTIONS, IS SOLICITING EXPRESSIONS OF INTEREST TO PROVIDE ARCHITECTURAL AND ENGINEERING SERVICES FOR THE HUTTONSVILLE CORRECTIONAL CENTER LOCATED IN RANDOLPH COUNTY, WV, PER THE ATTACHED SPECIFICATIONS.

ATTACHMENTS INCLUDE:

COR61694 EXPRESSION OF INTEREST
INSTRUCTIONS TO VENDORS SUBMITTING BIDS
GENERAL TERMS AND CONDITIONS
CERTIFICATION AND SIGNATURE PAGE
PURCHASING AFFIDAVIT

06/17/14 03:55:50PM
West Virginia Purchasing Division

SIGNATURE	TELEPHONE	DATE
Daniel Lee Ellars	(304) 343-0316	June 17, 2014
TITLE: Principal	FEIN: 55-0659239	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

CERTIFICATION AND SIGNATURE PAGE

By signing below, 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 or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

CMA Engineering
(Company)

Daniel Lee Ellars
(Authorized Signature)

Daniel L. Ellars, Principal
(Representative Name, Title)

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

June 17, 2014
(Date)

000130

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: COR61694

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)

[X]	Addendum No. 1	[ ]	Addendum No. 6
[X]	Addendum No. 2	[ ]	Addendum No. 7
[X]	Addendum No. 3	[ ]	Addendum No. 8
[X]	Addendum No. 4	[ ]	Addendum No. 9
[X]	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 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.

CMA Engineering
Company

Daniel Lee Ellar
Authorized Signature

June 17, 2014
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

CMA
ENGINEERING

June 18, 2014

Ms. Tara Lyle
State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Subject: Electrical Engineering Services Submittal Regarding Solicitation for Expression of Interest #COR61694

Project: Provide Professional Engineering Services for the Emergency Power Systems and Electrical Issues at Huttonsville Correctional Center
Huttonsville, WV

Dear Ms. Lyle,

CMA Engineering Inc. (CMA) is pleased to offer our expression of interest to provide electrical engineering services for the emergency power systems and electrical issues solutions at the Huttonsville Correctional Center.

Please find our submittal enclosed.

We appreciate the opportunity to serve the center to provide reliable alternative power systems.

Sincerely,
CMA Engineering, Inc.

Daniel Lee Ellars

Daniel Lee Ellars, P.E.
Principal
DLE

Clingenpeel/McBrayer & Associates, Inc.

Charleston
824 Cross Lanes Drive
Charleston, West Virginia 25313
(304) 343-0316 tel
(304) 343-5146 fax

Morgantown
5 Riddle Court
Morgantown, West Virginia 26505
(304) 598-2558 tel
(304) 598-2472 fax

www.cmawv.com

CMA
ENGINEERING

Table of Contents

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

CMA
ENGINEERING

Design Intent Approach

It is understood that the ideal goal of the project is to provide full (100%) back-up emergency power for twenty-one (21) individual power services out of a total of twenty-five (25) power services at the facility and to consolidate all of those services into one (1) primary-voltage service with on-site power generation at a substation in one location. It is also understood that the most critically needed single service is for the main building and the rest of the services as a group are secondary in priority, that the emergency power systems for these remaining services may be shed, as needed, should either operational or economic restraints require it.

Ideally, to provide this new emergency service, Mon Power (First Energy), the local power utility, will need to be involved to consolidate all twenty-one (21) individual low-voltage services involved into the one (1) primary-metered, medium-voltage service. Early coordination with the utility will be required to determine the optimal physical location of this primary-metered service and substation. The local utility's responsible account managers will also need to be involved to research and analyze the resulting new combined loads for the new service to determine the most beneficial utility rate structure available for the owner.

If either operational or economic constraints require it, the approach described above can be reduced in overall size to serve fewer existing services and/or broken up into multiple smaller versions of the same type. Two (2) or more smaller, primary-metered substations could be built, each with its own on-site power generation, to serve a select number of existing services. To reduce installation costs, the existing overhead service poles and cables and underground service cables and conduit may be retained by the owner as approved by the utility. For any of these approaches, since no new electrical loads are being added to the facility at this time, the utility will have to remove various transformers at the Owner's expense. As part of this project, the owner's contractor will then be responsible to provide and install new similar transformers in their place. In addition to the new substation(s) consisting of switchgear and on-site generation, the utility will have additional charges for the owner to build the required primary-metered service structure(s) with the necessary equipment. A thorough accounting and estimate of the additional long-term maintenance costs for the transformers, engine/generator set(s) and switchgear will be in order as new operating budget items for the owner. Maintenance agreements are recommended to provide proper service for the new equipment.

For the one or more substations to be built, each will have switchgear with its own overcurrent, ground-fault, and surge protection devices coordinated with a new lightning protection system for the entire facility or whatever structures are being served by these stations. At the one or more stations, if total load capacity allows, each may have a single diesel-fired engine/generator set or multiple sets, particularly if any redundancy is required in case of equipment failure. Multiple engine/generator sets will require paralleling switchgear. Load shedding equipment and programming can also be included, if required, to allow less critical loads to be shed due to future additional loads and/or equipment failure. The multiple substation approach inherently provides some of these features simply by breaking up and distributing the emergency power system into smaller units which is typically the preferred approach. Of course, if the combined existing and future anticipated loads will allow it, one substation with one large single engine/generator set can be provided. However, one large system also provides a single point of failure which can remove power from the entire facility at any given instant of operation.

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Regardless of the approaches described, both existing loads and future anticipated loads, like cooling, will need to be taken into account and both the normal and emergency power systems' capacities designed to serve them. An accurate estimate of any future loads will be required. Of course, both existing and future loads can be removed from the power distribution system by various methods, as required, if they are not to be operated while on emergency power. Shunt-trip circuit breakers and control systems can be installed to address each piece of equipment or circuit that is not to be operated while on generator. This can substantially reduce the size of on-site generation equipment required. Other measures, particularly with large equipment, can be instituted to provide stepped or staggered startups while on generator to lessen their impacts on the system, decreasing required capacity.

The approaches described above will intercept the existing incoming power service to provide full backup of the facility areas served. Therefore, the existing emergency power systems (engine/generator sets, transfer switches, and associated cabling, conduits, and devices) can be removed later as required and do not have to be removed as part of this project. Since all known instances of power system imbalance and the resulting equipment failure and damages have been encountered while on emergency power, these problems are solved simply by eliminating these existing systems entirely. The owner can even take extended time to demolish and remove the old emergency power systems and equipment as separate smaller projects on a piece-by-piece basis as future maintenance budgets allow.

Regarding the need for a complete, field-verified, working one-line diagram of the entire facility for this project, the approaches described above do not require this for design and implementation. This additional field work and the resulting diagram can be provided, if required. As part of this project, a detailed and complete diagram will be generated of the new power entrance service(s) and the associated switchgear and on-site generation equipment from the power utility's system to the various, existing service entrance switchgear for the individual services. The remaining existing distribution systems can be diagrammed as part of this project or left as a future project at the owner's discretion.

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Statement of Qualifications

Experience

Daniel L. Ellars, P.E., LEED AP BD+C has over seventeen years experience with American Electric Power (AEP) including: eight years as a marketing and customer services representative providing advice and coordination for new construction, additions, renovations and energy audits, seven years as a performance engineer at the coal-fired John E. Amos Power Plant providing testing, maintenance and troubleshooting of various small and large mechanical and electrical power production related systems, and over two years as business services staff engineer providing training and technical services to the various commercial and industrial account managers serving the needs of various large customers. Mr. Ellars also served as the project manager for AEP'S prime and emergency power systems program to provide on-site power generation solutions to small and large, commercial and industrial customers across AEP's seven-state territory.

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.

Commitment

We are committing senior design professionals in order to assure that you receive top priority. Present staffing allows CMA to complete work in a timely manner without limiting our ability to perform our ongoing work. The staff of CMA is large enough to handle any size project, yet small enough for direct input and supervision by key personnel.

Clingenpeel/McBrayer & Associates, Inc.

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

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

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 certifies

CLINGENPEEL/MCBRAYER & ASSOCIATES, INC.
C00125-00

Engineer in Responsible Charge: DANIEL ELLARS - WV PE 013745

has complied with section §30-13-17 of the West Virginia Code governing the issuance of a Certificate of Authorization. The Board hereby notifies you of its certification with issuance of this Certification of Authorization for the period of:

July 1, 2014 – June 30, 2015

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

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE, PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

CMA
ENGINEERING

Emergency Power Experience

- WVNG Elkins Reserve Center
- WVNG Moorefield Readiness Center
- WVNG Dunbar Armory
- WVNG Welch Armory
- WVNG Bluefield Armory
- WVNG Gassaway Armory
- WVNG Lewisburg Readiness Center
- WVNG Summersville Readiness Center
- WVNG Eleanor Readiness Center
- WVNG Eleanor Maintenance Center
- Monongalia County Office Building
- Putnam County 911 Center
- Wetzel County 911 Center
- Raleigh County 911 Center
- Randolph County 911 Center
- Lincoln County 911 Center
- Romney WTP & Pump Station
- Huttonsville PSD WTP
- Rowlesburg WTP
- Coalwood WTP Addition
- Jane Lew Treatment Building
- Malden PSD Pump Station
- Sun Valley PSD Sanitary Sewer
- Davis Memorial Hospital
- Princeton Health Care Systems
- WVDOH-District 9 Headquarters
- WVDOH-District 1 Headquarters
- WVDOH-District 8 Equipment Shop
- WVDOH –District 10 Headquarters
- Sissonville Middle School
- Pikeview Middle School
- Pressley Ridge
- Fairdale Elementary School
- Yeager Airport
- Tri-State Gaming Center
- Pruntytown Emergency Generator
- Bridgeport Police/Fire Station
- White Sulfur Springs Fire House
- Deep Creek Volunteer Fire Department
- Pocahontas County PSD
- South Putnam PSD
- City of Weston PSD
- Preston County PSD
- Weirton WWTP
- Boone-Raleigh WTP
- Nitro Lift Station

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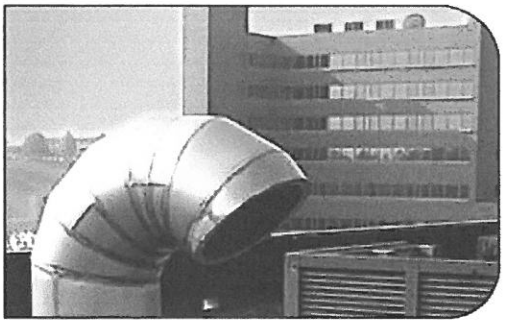

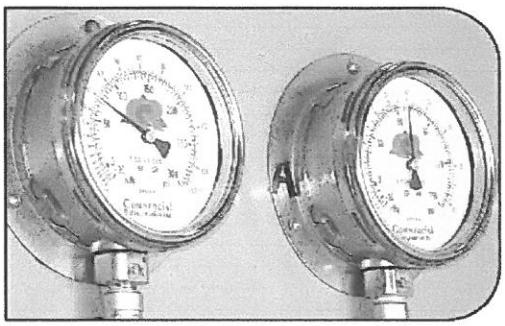

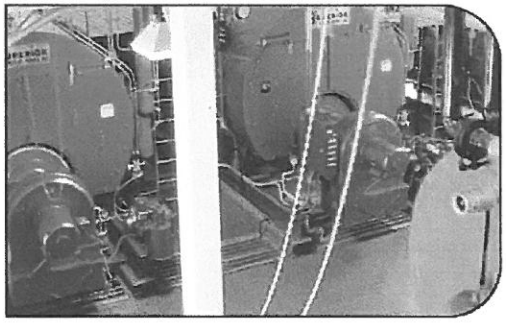

(top) **Ruby Memorial Hospital—Morgantown, WV**
HVAC Exhaust System

(middle) **Memorial Ice Rink—South Charleston, WV**
Refrigerant Pressure Gages

(bottom) **Alderson Federal Correctional Facility—Alderson, WV**
Steam Plant

M E C H A N I C A L

CMA Engineering experience includes:

Constant Volume Air Handling Systems
Variable Volume Air Handling Systems
Demand Control Ventilation Systems
Natatorium Dehumidification Systems
Building Energy and Management Control Systems
Industrial Ventilation and Exhaust Systems
Steam and Condensate Systems
Cooling Plants and Distribution
Heating Plants and Distribution
Energy Recovery Systems
Water Source Heat Pump Systems
Low, Medium and High Pressure Air Distribution Systems
Direct Digital, Pneumatic and Hybrid Control Systems
Kitchen Ventilation and Exhaust Systems

CMA
ENGINEERING

Clingenpeel/McBrayer & Associates,Inc.

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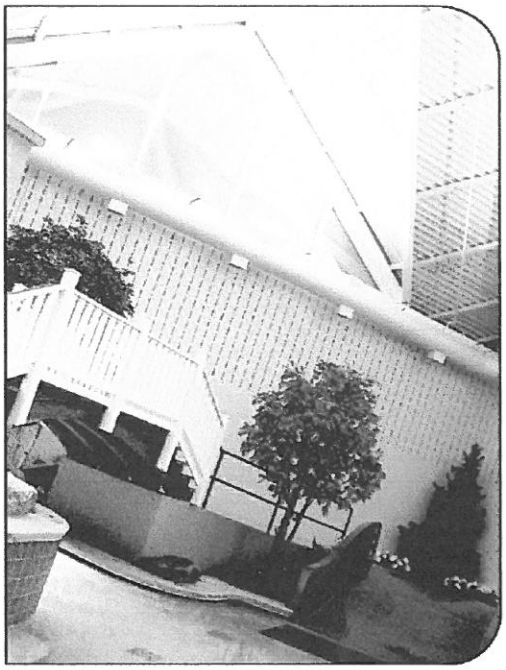

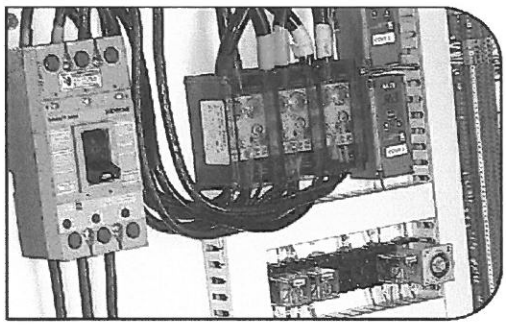

(above) **Split Rock Pools—Snowshoe, WV**
Indirect Lighting System

(below) **Memorial Ice Rink—South Charleston, WV**
Chiller Power and Control Panel

E L E C T R I C A L

CMA Engineering experience includes:

- Underground Ducts and Utility Structures
- Intrusion Detection
- Closed Circuit Television
- Cable and Master Antenna Television
- Medium Voltage Distribution and Substations
- Secondary Voltage Distribution
- Engine Generators and Battery Inverters
- Transient Voltage Suppression
- Interior Lighting
- Exterior Lighting
- Sports Lighting
- Theatrical Lighting
- Lighting Control
- Uninterruptible Power Supply Systems
- Lightning Protection
- Intercommunications Systems
- Nurse Call
- Voice and Data Systems
- Fire Detection Systems

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ENGINEERING

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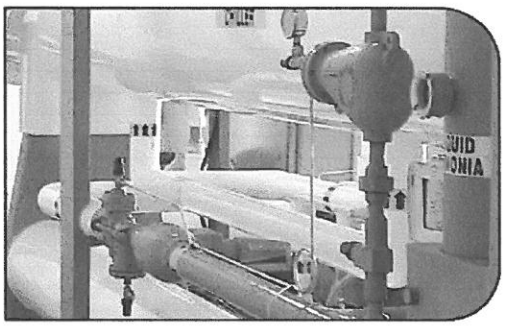

(top) **Split Rock Pools—Snowshoe, WV**
Piping & Pump Room

(middle) **Memorial Ice Rink—South Charleston, WV**
Piping & Chilling

(bottom) **Alderson Federal Correctional Facility—Alderson, WV**
Steam Piping

PLUMBING & PIPING

CMA Engineering experience includes:

Sanitary Sewer Systems
Storm Sewer Systems
Natural Gas Distribution
LP Gas Distribution
Fuel-Oil Distribution
Compressed Air Systems
Vacuum Systems
Chemical Waste Systems
Process Water Systems
Deionized Water Systems
Domestic Water Systems
Helium Distribution Systems
Domestic Water Pumping Systems
Sewage Pumping Systems
Water Heating
Automatic Fire Sprinkler Systems
Standpipe Systems
Fire Pumps, Storage Tanks, Service Mains
Medical Gas Systems

CMA
ENGINEERING

Clingenpeel/McBrayer & Associates,Inc.

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CMA
ENGINEERING

References

Mylan Pharmaceuticals
P.O. Box4310
Morgantown, WV 26505
Contact: Mr. J. J. Dotson
(304) 599-2595

Concord University
P.O. Box 1000
Athens, WV 24712
Contact: Mr. John Ferguson
(304) 384-5233

Yeager Airport
100 Airport Road
Charleston, WV 25311
Contact: Mr. Rick Atkinson
(304) 344-8033

West Virginia University
P.O. Box 0877
Morgantown, WV 26505
Contact: Mr. John Thompson
(304) 293-3625

Davis Memorial Hospital
P.O. Box 1484
Elkins, WV 26241
Contact: Steve Johnson
(304) 637-3129

Kanawha County Schools
3300 Pennsylvania Avenue
Charleston, WV 25302
Contact: Mr. Charles Wilson
(304) 348-6148

State of West Virginia
1900 Kanawha Blvd, East
Bldg. 1, Room MB-60
Charleston, WV 25305
Contact: Mr. Robert Kilpatrick
(304)558-0250

Harrison County Schools
P.O. Box 1370
Clarksburg, WV 26302
Contact: Mr. Neil Quinn

Daniel L. Ellars, P. E., LEED 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 for CMA Engineering, brings 25 years of electrical design and project management experience to our clients.

Project Experience

Recreational Facilities

Summit Bechtel National Scout Reserve
Canaan Valley Ski Resort

Emergency Power Systems Design

WVNG-Dunbar Armory
WVNG-Welch Armory
WVNG-Bluefield Armory
Davis Memorial Hospital Addition
Monongalia County Law Enforcement Facility
Putnam County 911 Center
Clarksburg Data Center
Roane General Hospital
Huttonsville WTP
Rowlesburg WTP

Military Experience

New Moorefield Readiness Center
New Elkins Readiness Center
St. Albans Armory-Addition and Renovations
Gassaway Armory-Addition and Renovations

WV Department of Transportation

New District 1 Administration Building
New District 8 Equipment Shop
Multi-District Utility Service Study

Your **ACTIVE PE** renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until June 30, 2015 may be detached and used until that date unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

IMPORTANT REMINDERS:

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. Please sign the back of this pocket card and carry the registration with you.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.

West Virginia State Board of Registration for Professional Engineers
300 Capitol Street, Suite 910
Charleston, West Virginia 25301
304-558-3554 Phone
800-324-6170 Toll Free

THIS IS YOUR RENEWAL PAYMENT RECEIPT

(in addition to your secondary records of either a canceled check or credit card statement, as well as a confirmation email and printed confirmation page if renewing via our website)

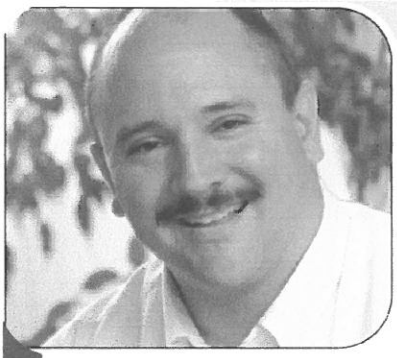
PLEASE SAVE THIS FOR YOUR RECORDS

West Virginia State Board of Registration for Professional Engineers

DANIEL L ELLARS
WV PE # 13745

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 June 30, 2015



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 30 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

New Lewisburg Elementary School

Salem Middle School Classroom Addition

South Harrison High School HVAC Replacement

South Harrison Middle School HVAC Upgrades

Nutter Fort Elementary Addition

West Virginia University-Open End Contract since 1999

Coliseum Life Safety Renovations

New Soccer Stadium

New Wrestling Training Facility

Engineering Science Building Addition & Renovations

Military Experience

New Moorefield Readiness Center

New Elkins Readiness Center

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

Thank you for your payment Save Confirmation
Confirmation Number: 20140616357905
TIMOTHY COX
License Number: [redacted]
Amount: $40.00

Send a confirmation to my email:
tcox@cmawv.com Send

for Professional Engineers

TIMOTHY L COX
WV PE [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 June 30, 2014

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.

Project Experience

West Virginia University

New two-story Child Care Facility

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

West Virginia State Board of Registration for Professional Engineers

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West Virginia State Board of Registration for Professional Engineers
300 Capitol Street - Suite 910, Charleston, West Virginia 25301
(304) 558-3554 | info@wvpebd.org

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 20 years of mechanical and plumbing design and project management experience to our clients.

Project Experience

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
Nitro High School HVAC Upgrades
Shady Springs High School HVAC Upgrades
Shady Springs High School Addition
Liberty High School HVAC Upgrades

WV Department of Highways

New District 1 Administration Building
New District 8 Equipment Shop

Emergency Response Facilities

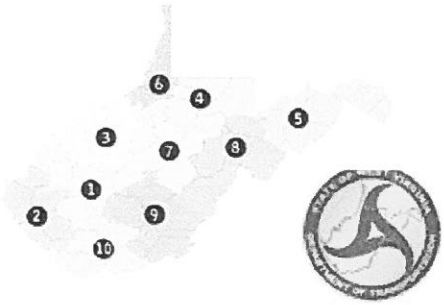
Randolph County 911-New Facility
Mason County 911-New Facility
Raleigh County 911-New Facility
Orchard Manor Fire Station-New Facility

Industrial Experience

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

CMA
ENGINEERING

West Virginia Department of Highways



CMA Engineering provided research and design services for a technical study to determine all utility-related loads for four (4) separate building designs for each of the ten (10) WVDOH District Headquarters Offices around the State. Designs were evaluated for both gas-heated and all electric buildings with the resulting utility loads and data tabulated for each building design. This information can be used for utility service applications for any location in the State. In each case, an on-site, standby emergency power system was designed to provide full, 100% back-up of all power requirements.

Owner Contact:

Brian Cooper
WV Department of Highways
(304) 637-0220
brian.k.cooper@wv.gov

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CMA
ENGINEERING

Davis Memorial Hospital Addition

CMA provided mechanical, electrical, plumbing, and fire protection engineering services for the new 45,000sf Outpatient Clinical and Physicians Office Building and the new 24,000sf section which houses the new registration area and connects the new medical center with the hospital. Electrical design included an on-site, standby emergency power system. The system was designed with flexibility to serve additional future loads such as an additional chiller coupled with an additional future engine/generator set.

Note: By using local West Virginia architects, engineers and contractors and with Steve Johnson acting as construction manager, the construction cost for these new additions was $135.00 per square foot.

Owner Contact: Steve Johnson
Davis Memorial Hospital
(304) 637-3129

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CMA
ENGINEERING

Elkins Armed Forces Reserve Center

CMA Engineering provided design and contract administration services for a 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.

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

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CMA
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Moorefield Readiness Center

CMA Engineering provided design and contract administration services for a new 57,100sf armory facility including an on-site, standby emergency power system designed to provide 100% of the overall power requirements of the facility in addition to an electrically-driven fire pump. The building consists of an armory combined with a 911 center. Designs included a coordination of the campus' complete underground medium-voltage power and telecommunications systems and separation of the armory's and 911 center's telecommunication networks.

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WV Army National Guard
(304) 561-6353
Rocky.Hodges@us.army.mil

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CMA
ENGINEERING

Summit Bechtel National Scout Reserve

CMA Engineering provided the electrical designs and specifications for the recently completed Summit Bechtel National Scout Reserve (SBNSR) at Mount Hope, WV. SBNSR is to serve as the new permanent home and headquarters for the Boy Scouts of America (BSA) for their quadrennial National and World Jamborees and for their annual High Adventures and other various activities and events. CMA was instrumental in the early design phases of the project to ascertain the specific needs of the BSA for the facility, to identify required power loads, and to prioritize these loads in order of their necessity. Working closely with the BSA, with a host of their national and international consultants, and with American Electric Power (AEP), CMA compiled load data and made calculations of various power scenarios for the campus. A maximum of 7 MegaWatts was allowed for the facility and the designs were completed based on value. As a result, over 20 miles of single-phase and three-phase medium-voltage cables and the associated conduits were installed underground along the roadways for the new campus comprising six different campsites and a core area spread over more than 1,000 acres. When completed, the core area is to include an amphitheater, bus terminals, visitor's center, zip-line stations, and a museum and headquarters office building for the BSA. Three separate medium-voltage circuits were provided to the west end of the site by AEP and a switching station was set up at the east end to serve the dozens of loop-fed, pad-mounted transformers which were distributed around the site at key locations to minimize voltage drop and to provide a high level of power reliability. All power and telecommunications cabling and conduits are underground. Six cellular towers on the site work in conjunction with 125 individual wireless stations at the campsites to provide wireless capabilities to all of the occupants. CMA also provided lighting and power design for the 375 bath houses on site and coordinated the interconnections between them and the campus infrastructure. The BSA christened the site in the summer of 2013 with its first National Scout Jamboree.

Owner Contact: Ken Davis
(817) 694-3042
ken@kdatexas.com

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CMA
ENGINEERING

Canaan Valley Ski Resort

Unit A

Ski Rescue Patrol

Unit B

CMA Engineering provided the electrical designs and specifications for the recently completed renovations and upgrades for the winter ski facilities at Canaan Valley Resort and Conference Center. The improvements included interior remodeling of three of the existing buildings for skier services and support adjacent to two of the three main lift stations, plus a new skier warming and rest station for the relocated tube run park. Interior remodeling work included lighting, HVAC and plumbing fixture replacements. Exterior work included renovations of an outdoor plaza for skiers with pole lights and a fire pit. Two new skier conveyors were added at the site, one for a new beginners slope area and one for the new tube run park. Exterior, weatherproof, pad-mounted 480-volt, three-phase switchgear was installed at the base of the two main lifts to serve the new conveyor, site lighting and new snow making equipment for the ski slopes and at a water booster pumping station at the mid-point elevation. Similar switchgear and a transformer were installed to serve the new buildings at the tube run park, site lighting, conveyor and snowmaking equipment for the tube run slopes. New exterior lighting fixtures and hinged poles were installed adjacent to the new conveyors to provide night use of the facilities. Two existing 208-volt, three-phase power services were upgraded for the improvements. Power services for the existing buildings were upgraded to provide both ground-fault and surge protection. CMA worked closely with Monongahela Power, the local power utility, on the power services and improvements and coordinated with another electrical design consultant at the site to provide new fiber-optic telecommunications services between the ski area facilities and the Park's main lodge while other renovations were in progress at the lodge.

Owner Contact: Bradley S. Leslie, P.E.
WV Division of Natural Resources
(304) 558-2764 Ext. 51823

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CMA
ENGINEERING

West Virginia National Guard

Emergency Power Projects

Welch Armory

CMA Engineering provided electrical design services for the replacement of the existing 400-amp, 120.208-volt, 3-phase, 4-wire service with 1000 amp, relocated metering equipment to the exterior of the building, and the addition of an emergency standby engine/generator set and manual transfer switch for emergency power. Electrical construction budget $53,000.

Dunbar Armory

CMA Engineering provided electrical engineering design services for the replacement of existing 600 AMP electric service and entrance located in Unit Supply Room with new 1000Amp panel and entrance to be located in Boiler Room, new 200 kw emergency generator and emergency distribution panel, new duplex receptacles with isolated ground for voice and data systems and relocated existing phone and fire alarm panels from Unit Supply Room to Boiler Room. Electrical construction budget $120,000, does not include generator.

Bluefield Armory

CMA Engineering provided electrical design services for the upgrade of the present electrical power service (800-amp,120/208-volt, 3-phase, 4-wire) to 1200-amp and the addition of a 150kw diesel-fired emergency standby engine/ generator set with a 600-amp, 3-pole manual transfer switch. Electrical construction cost $160,000, includes generator.

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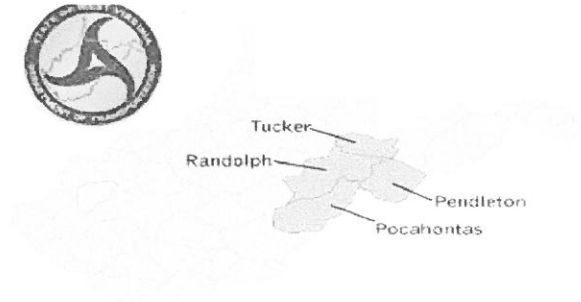
CMA
ENGINEERING

Emergency Power Projects



WVDOH District 8 Equipment Shop, Elkins

CMA provided design and construction administration services for all mechanical, electrical and plumbing systems, including an on-site, standby emergency power system to provide full, 100% back-up of all power requirements, for new 20,500sf facility. Project is currently in the bidding phase.

New Putnam County 911 Center

CMA provided design services for the HVAC, plumbing, fire alarm, fire sprinkler, electrical and communications systems for the new single story 911 Facility(11,700sf) and new two story maintenance garage(5,000sf) with six maintenance bays on lower level and storage area (1,500sf) on second level. Design included an on-site, standby emergency power system.

New Raleigh County 911 Center

CMA Engineering provided design and construction administration services for all mechanical, electrical and plumbing systems, including an on-site, standby emergency power system.

Monongalia County Building

CMA Engineering provided mechanical, electrical and plumbing design services for the new three-story, 30,000sf facility and 4,000sf, insulated metal shell, mechanical penthouse. Design included an on-site, standby emergency power system for the law enforcement facility.

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CMA
ENGINEERING

Water Treatment Plants

Emergency Power Projects

Huttonsville Water Treatment Plant

CMA provided design and contract administration services for HVAC and electrical systems, including an on-site, standby emergency power system for a new water treatment plant that will serve the Huttonsville Correctional Center. This installation should be completed in late 2014 and should relieve some of the existing electrical loads required for pumping water at the Center.

Romney Water Treatment Plant

CMA provided design and contract administration services for electrical service upgrades and relocations including an on-site, standby emergency power system and consolidation of services to serve a remote raw collection pumping station. Over a half-mile of underground cables and conduit were designed to provide emergency power to the pump station to increase reliability during flood conditions

Rowlesburg Water Treatment Plant

CMA provided design and contract administration services for an on-site, standby emergency power system and upgrades related to enclosure of an existing sedimentation basin.

Coalwood Water Treatment Plant

CMA provided MEP design and construction administration services for the addition of 660sf treatment area and 1,010 sf of conference area which included a catering kitchen and restroom area. Electrical design included an emergency, standby engine/ generator set, manual transfer switch, switchgear and electrical service entrance for the existing facility plus the additions.

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RFQ No. COR61694

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 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: CMA Engineering

Authorized Signature: Daniel Lee Ellars Date: June 17, 2014

State of WV

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 17 day of June, 2014

My Commission expires September 16, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC Cindy L Looney

OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
CINDY L. LOONEY
CMA ENGINEERING
624 CROSS LANES DRIVE
CHARLESTON, WV 25313
My commission expires September 16, 2020