



March 20, 2014

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

Re: Expression of Interest
Design of Construction Documents to Repair Collapsed Clamshell Building
Eleanor CHP Facility - Putnam County, WV
#DEFK14022

In response to your request for Expression of Interest #DEFK12022, I am respectfully submitting the attached information for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Douglas R. Richardson", with a long horizontal flourish extending to the right.

Douglas R. Richardson, PE, LEED AP
President

vender #512140107

03/20/14 08:22:30AM
West Virginia Purchasing Division

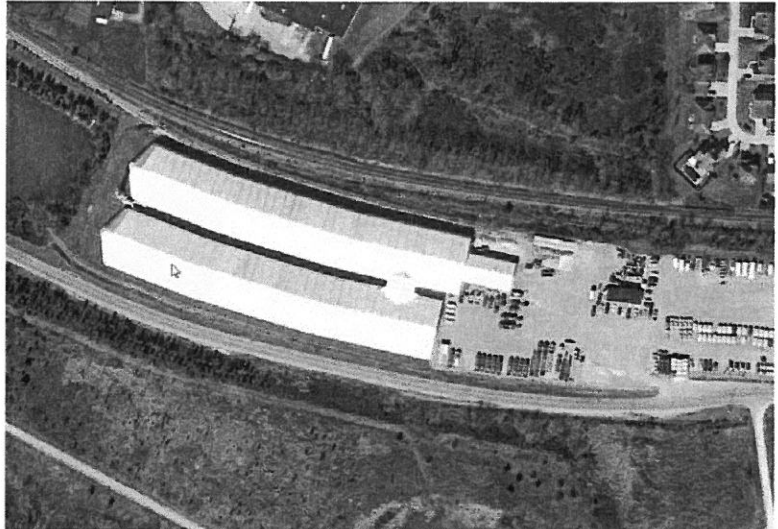
Expression of Interest

Submitted by:

Moment Engineers, Inc.

603 Peoples Building
179 Summers Street
Charleston, WV 25301
Phone 304.414.4000
Fax 304.414.4001

March 20, 2014



Engineering Services for the
Repair of Clamshell® Tension Fabric
Building at Eleanor CHP Facility

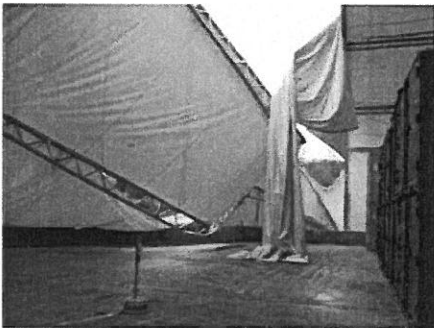
Putnam County, WV

DEFK14022

*“Structural Engineering
for the Built
Environment”*



Project Approach

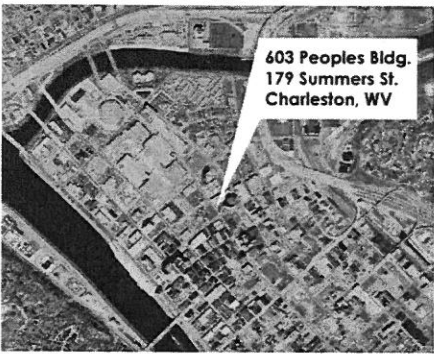
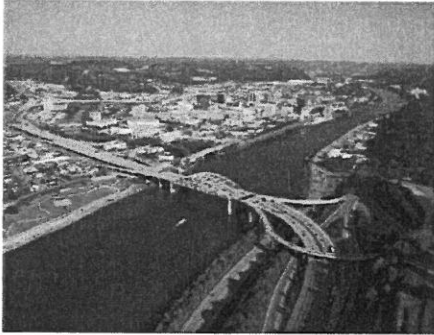


Eleanor CHP Facility Repairs

The Eleanor Control Humidity Preservation (CHP) facility is composed of two large fabric structures with a crossover connector near the east end. The manufacturer of the structures is Clamshell Buildings (www.clamshell.com). The structures are currently occupied by Naval Special Warfare (NSW) Ops Stock. The west end of the northern structure has partially collapsed. This area of the building suffered damage during the wide spread derecho storm on June 29, 2012, and this damage became worse during a local wind storm during the night of October 31, 2013.

After the October 31st storm, Moment Engineers, Inc. visited the site at the request of MAJ Melvin P. Hodges to perform an emergency assessment and prepare a written report. This report provided an outline of the construction of the facility and an assessment of the storm damage. Due to the inherent proprietary nature of the structural components, the report recommended that the manufacturer be closely involved in the repair. We have recently been in contact with Clamshell's engineering department to discuss repair options. From this conversation, we understand that the series components which make up the trusses of the dome are no longer manufactured. Our proposed approach therefore is to remove the damaged domed end to the first upright truss and install a vertical wall similar to the eastern end, as shown in the lower picture to the left.

Background



Moment Engineers, Inc. is a professional consulting firm specializing in structural engineering. We serve the architectural and building construction communities throughout West Virginia. Based in Charleston, West Virginia at 179 Summers Street, Moment Engineers was founded by Douglas Richardson in early 2005.

During his more than 25 years of experience, Mr. Richardson has had sole responsibility for the structural engineering design of more than 6 million square feet of built space. The construction costs of these projects exceed a half billion dollars. His experience, which ranges from small to very large multi-phase projects, is invaluable in providing the technical expertise and creative flexibility to deliver results in a prompt and reliable manner.



Resume



Douglas R. Richardson, PE, LEED AP
Principal Engineer

Education

North Carolina State University, (8/87-5/89).

Masters of Science in Civil Engineering, major in structures and minor in construction.

GPA 4.0/4.0.

West Virginia University, (8/83-8/87)

Bachelors of Science in Civil Engineering.

Ranking: 1st out of approximately 450 College of Engineering graduates. GPA 3.98/4.0.

Professional Registration

Professional Engineer - WV and KY

Maintains active record with NCEES to facilitate prompt registration in additional states as required.

LEED Accredited Professional

Professional Affiliations

American Society of Civil Engineers

American Concrete Institute

American Institute of Architects, Professional Affiliate

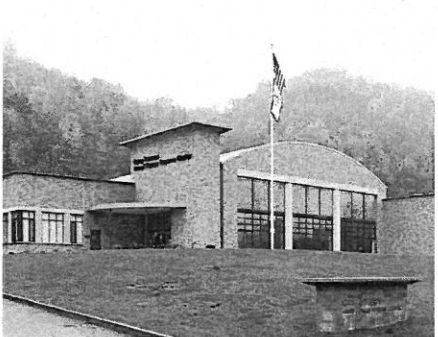
Structural Engineering Institute

Timber Framers Guild

US Green Building Council

Engineers Without Borders-USA





West Virginia Army National Guard Project Experience

Douglas Richardson has provided the structural engineering and design for the following projects:

Robert C. Byrd Regional Training Institute -
Camp Dawson, WV

Armed Forces Reserve Center - Camp Dawson, WV

Armed Forces Reserve Center - Glen Jean, WV

Construction & Facilities Management Office -
Charleston, WV

Mountaineer Challenge Academy - Camp Dawson, WV

Armed Forces Reserve Center - Elkins, WV

Multi-Purpose Building - Camp Dawson, WV

These seven facilities total over 460,000 square feet of built space, and each serves as a outstanding example of how a military structure can enhance the readiness of the units they support while also contributing to the local, state and national communities in which they are located. The structural systems utilized include steel frames, reinforced concrete and masonry, load bearing cold-formed steel studs, and long span steel joists.



Sample Project



Center for National Response Mezzanine Support

The Center for National Response (CNR) is an operational training facility located in the Memorial Tunnel originally constructed for the WV Turnpike. It is a multipurpose facility that provides ten training venues for Federal, State and Local organizations. One of the venues is a rubble area. This can simulate a collapsed parking garage or building due to an earthquake or terrorist initiated event. In order to simulate various scenarios within the venue, the floor area needs to be rearranged with a forklift. The columns supporting the observation platform would often be knocked out of plumb during the arrangement of an exercise. Moment Engineers provided engineering design services to suspend the platform from the concrete roof of the tunnel so that the columns would no longer be required for the mezzanine support.

Sample Project



Structural Evaluation of Camp Dawson Chalets and Rappel Tower

In 2005, the exterior deck on the chalet housing units at Camp Dawson had deteriorated due to weather exposure. Also at the facility, the wooden rappel tower exhibited signs of distress, including vertical deflection and horizontal sway. Moment Engineers provided services for the evaluation of the integrity of these structures. These services included inspection of their current condition, structural analysis, development of a safe loading capacity, and development of options for corrective action.



Sample Project List

In addition to these WVARNG projects, Moment Engineer's staff experience includes a wide variety of new building design and existing building analysis. The list below is a small sample of the projects for which Douglas Richardson has had responsible charge of the structural engineering, design and contract document production. A more extensive list is available upon request.

<u>Project</u>	<u>Sq. Ft.</u>
Blackwater Falls State Park Addition	9,350
Cacapon State Park Addition	9,840
Summit Bechtel Reserve Bathhouses (358 units)	646 ea.
Comfort Inn Pool and Guest Rooms Addition	17,700
Kappa Alpha Fraternity House, WVU	14,000
Greenbrier East H.S. Renovations & Additions	205,060
Lincoln Co. High School	216,500
Wayne Co. Spring Valley High School	175,000
Cabell West Elementary School	55,790
Judge Donald F. Black Courthouse Annex	37,000
WV Hospital Association Office Building	29,710
Sears, Chesterfield Mall, Richmond VA	146,980
Alderson Federal Prison Dormitory	60,620
Western Juvenile Detention Center	29,020
Lewisburg United Methodist Church	12,800
West Liberty University Health Sciences Bldg	70,500
Goodwill Industries Renovation and Addition	15,460
NGK-NTK Production Facility	78,000
Advantage Valley Advance Technology Center	55,040



References



Steve Branner, Retired, AIA

ZMM, Inc. - Architects and Engineers
222 Lee Street West
Charleston, WV 25302
Phone: 304.342.0159
Home: 304.346.9673



Thomas Potts, Principal, AIA

Silling Architects + Planners
405 Capitol Street, Upper Atrium
Charleston, WV 25301
Phone: 304.346.0565
Fax: 304.346.1522
Email: tpotts@silling.com



Rusty Johnson, Asset Manager

THF Realty/The Kroenke Group
220 A. RHL Boulevard
Charleston, WV 25309
Phone: 304.744.8100
Fax: 304.744.3973
Email: rjohnson@thekroenkegroup.com



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.

MOMENT ENGINEERS, INC.
(Company)



(Authorized Signature)

DOUGLAS R. RICHARDSON, PRESIDENT
(Representative Name, Title)

304.414.4000 304.414.4001
(Phone Number) (Fax Number)

3/19/2014
(Date)

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: Moment Engineers, Inc. (Douglas R. Richardson, President)

Authorized Signature:  Date: 03/19/2014

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 19th day of March, 2014.

My Commission expires August 12, 2018.

NOTARY PUBLIC 

