

Expression Of Interest

for

Architectural Services

for the

Capitol Building Roof Replacement

For

West Virginia

Department of Administration

General Services

RFQ Number: GSD13423

Buyer: Krista Ferrell

Bid Opening Date: January 16, 2013

Bid Opening Time: 1:30pm

LLOYD W. MILLER ARCHITECT, PLLC.

CAS
Structural Engineering, Inc.





lloyd w. miller

Department of Administration
General Services
Building 1 Room MB60
1900 Kanawha Boulevard East
Charleston, WV 25305-0123

Re: EOI #GSD136423 Capitol Building Roof Replacement

Dear Review Committee:

The Team of Lloyd W. Miller Architect-CAS Engineering-R C Lichy & Associates is pleased to provide for your consideration our qualifications and experience. We look forward to personally meeting with you to discuss how our team will provide the best solution for your facility needs.

Our experience in providing professional design services to our clients has resulted in successful projects of a full range of scope of work. In particular we have extensive roofing and reroofing experience. Our knowledge of the kinds of products, assemblies, and systems for roofing and reroofing work will assist General Services in selecting the proper solution from several options in quality, cost, and performance. Our administration of the design and construction process will provide General Services with a successful project delivery experience.

Lloyd W. Miller has experience with large roof replacements for United States Postal System sorting facilities, WV Higher Education projects with traffic bearing roofs, and other West Virginia public agencies with roof replacements. CAS Engineering recently completed the restoration of the parapet walls of the Capitol building, thus is familiar with the physical requirements of the existing roof. R C Lichy's experience with roof investigation and design for large projects across the country provides the technical experience required for this project.

With the opportunity to personally discuss with you how we may assist in the delivery of this project I am sure we can develop a productive and successful relationship.

Sincerely;

Lloyd W. Miller AIA, NCARB, CSI-CCS, ICC

architect

P.O. Box 11925 | Charleston, WV 25339 mailing
408 Abbey Drive | Charleston, WV 25314 shipping
304-389-0415 voice
304-744-0153 fax
lwmlerarch@suddenlink.net e-mail

1

Required EOI Documents

2

Concept

3

Firm/Team Qualifications

4

**Project Team
Organization**

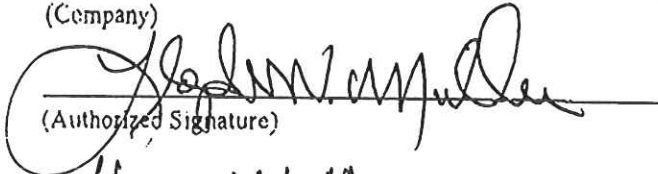
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Demonstrated Experience

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.

LLOYD W. MILLER ARCHITECT, P.C.
(Company)


(Authorized Signature)

LLOYD W. MILLER
(Representative Name, Title)

304.389.0415 304.744.0153
(Phone Number) (Fax Number)

1.15.13
(Date)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: GSD136423

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.

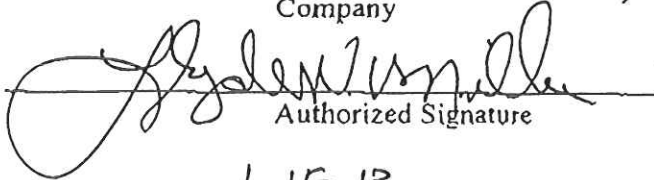
Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

WLOYO W. MILLER ARCHITECT, P.C.
 Company

 Authorized Signature
1.15.13
 Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
 Revised 6/8/2012

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: LLOYD W. MILLER ARCHITECT, Pllc

Authorized Signature: [Signature] Date: 1.15.13

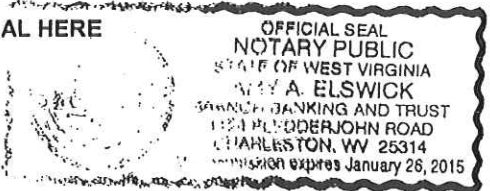
State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 15th day of January, 2013.

My Commission expires January 26th, 2015.

AFFIX SEAL HERE



NOTARY PUBLIC

[Signature]



Goal

Providing a durable watertight roof assembly and drainage system that is compatible with the historical and aesthetic nature of the Capitol building is our goal.

Method

This shall be accomplished by:

- 1) Investigation and documentation of the existing roof conditions including the membrane, equipment supports, drainage, flashings, and other related issues,
- 2) Evaluating available roof systems, insulation, flashings, drainage, and other necessary components as to their suitability for this project in providing for periodic traffic and maintenance and a life expectancy in excess of twenty years,
- 3) Design a roof assembly from the selected systems and materials to include pedestrian traffic across the connectors to the East and West Wings meeting applicable safety requirements and gutter repair/replacement that address longevity and historical appearance, and
- 4) Develop a schedule that delivers the new roof system beginning in the summer of 2013.

Similar Projects

Lloyd W. Miller provided the United States Postal Service with reroofing design and construction administration services for the Clarksburg regional sorting facility. The project require the replacement of over 80,000sf of single ply roofing and the roof insulation. The roof included various roof openings and flashing conditions, HVAC equipment supports, and various drainage conditions. The project was investigated, designed, and constructed within an accelerated schedule.

Carol Stevens provided investigation, design, and project delivery services for several Capitol building renovations projects. The successful delivery of these services provides General Services with a knowledge based experience that will benefit this project.

R C Lichy & Associates work with high profile corporate clients across the country provides an experience and knowledge base of roof failures and their successful repair that will benefit this project



lloyd w. miller

architect

Firm/Team Qualifications

Responsible Person

Lloyd W. Miller, AIA, NCARB, CSI-CCS, ICC
P. O. Box 11925
Charleston, WV 25339
304-389-0415
lwmilleraarch@suddenlink.net

Project Team

Refer to the following pages for resumes and company profiles.

Statement of Ability

The project team of Lloyd W. Miller Architect, PLLC, CAS Engineering, Inc., and R. C. Lichy & Associates has the experience and qualifications to provide the required professional services to assist the West Virginia Department of Administration General Services to successfully delivery the roof replacement of the Capitol Building in its entirety.

Work product shall be the property of the Owner

The contract documents produced under this contract shall become the property of the Department of Administration General Services and may be used as it relates to this project.

Pending litigation with any Agency of the State of West Virginia

The members of this team do not have any pending litigation, vendor complaints, or disputes with the State's Purchasing Division or other Agencies of the State of West Virginia.



lloyd w. miller

architect

Resume

LLOYD W. MILLER, AIA, NCARB, CSI-CCS, ICC

Responsibility

Principal-in-Charge/Administration,
Design-Build Criteria Developer



Education

Bachelor of Architecture
Carnegie-Mellon University
Pittsburgh, Pennsylvania

Registration

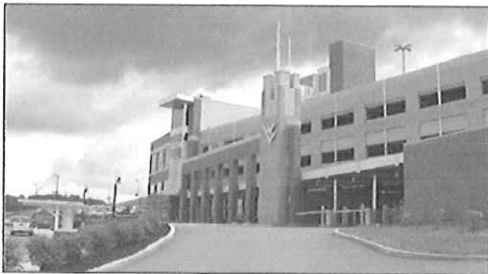
N.C.A.R.B. No. 23, 724

Active: West Virginia,

Inactive: Kentucky, Ohio, Virginia Indiana, Pennsylvania, Maryland, North Carolina, Tennessee



Marshall University Parking Facility



West Virginia University Mountaineer Station



Fairmont State University Student Housing



Morgantown Event Center

Professional Associations

West Virginia Boards of Architects – President and Past Secretary

AIA/WV West Virginia – Past President

AIA American Institute of Architects

AIA State Government Network

AIA/CAWV Design/Build Committee

CSI, CCS Construction Specification Institute, Certified Construction Specifier

ICC International Code Council

Kanawha County Schools Blue Ribbon Committee,
1994-1996 Co-Chairman

United Way of Kanawha Valley – Architect/engineer
Fund Drive chairman 1991 and 1992

Kanawha County School Bond Initiative Chairman 1997

Religious Organizations

Architectural Review Committee, Episcopal Diocese of West Virginia

Senior Warden, Episcopal Church of the Good Shepherd

Junior Warden, Episcopal Church of the Good Shepherd

Youth Group Advisor, Episcopal Church of the Good Shepherd

Kanawha Episcopal Quadrilateral

St. Christopher Episcopal Facilities Assessment and Vision Teams

Lloyd was one of the founding partners, and principal of N Visions Architects.

His 20+ years of experience with N Visions and previous experience with other local architectural firms and businesses has provided Lloyd with design and technical knowledge capable of responding to the cost, program and aesthetic demands of building owners.

Direct client contact and personal involvement of all aspects of project development provides the owner with solutions that are responsive to the project requirements.

Lloyd's direct and personal involvement set the standard for N Visions' professional approach to project management.

Having sold N Visions in June 2007, Lloyd is now pursuing Design-Build Criteria Development, project delivery consultation, and specifications. Successful projects include the Morgantown Event Center and Garage, Yeager Airport Rental Car Parking Deck, and The WVU Transportation Center and Garage.



lloyd w. miller

architect

Firm Profile:

Lloyd Miller sold N Visions, Inc., an architectural firm providing services to health care, primary-secondary-and higher education, city-county-state-and federal government, and private developers, after twenty years to establish Lloyd W. Miller Architect in July 2007. His vision was to assist public building Owners in delivering their projects by the Design-Build delivery process through Design-Build Criteria Development Services. He is also continuing to pursue projects requiring traditional Design-Bid-Build delivery.

Lloyd has been actively involved with the Design-Build delivery of projects since before 1998. In 1998 Lloyd was the co-chair of a committee of Architects, Engineers, and Contractors that wrote and promoted passage of legislation that enables public agencies in West Virginia to use Design-build as a project delivery method. In 2003 when the legislation was to sunset Lloyd with others were active in amending the WV Design-Build Procurement Act to address issues that occurred in its first 5 years. These amendments were accepted by the WV Legislature and the ACT was extended for several more years.

Lloyd was also an active participant in the committee of Architects, Contractors, State Purchasing, WVU, Marshall U, and the Attorney General's Office in writing the State Supplemental Conditions for Design Build contracts.

Active participation with clients in delivering their projects by the Design-Build process is the result of Lloyd's involvement with the enabling legislation. Since 2000 Lloyd has provided Design-Build Criteria Development Services for the; Fairmont State University Student Housing, City of Parkersburg Intermodal Facility, Jefferson County Community Recreation Center, Fairmont State University Parking Garage, Two Yeager Airport parking garages, WVU Intermodal Transportation Center, and the Morgantown Event Center and Garage worth over \$60,000,000.

Lloyd W. Miller AIA, NCARB, CSI-CCS, ICC



Structural Engineering, Inc.

Carol A. Stevens, P.E., F.ASCE Structural Engineer

EDUCATION

West Virginia University, BSCE, 1984

Chi Epsilon National Civil Engineering Honorary
The Pennsylvania State University, ME Eng Sci, 1989

PROFESSIONAL REGISTRATION

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

BACKGROUND SUMMARY

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

PROFESSIONAL ASSOCIATIONS

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

CIVIC INVOLVEMENT

ASCE Christmas in April Project
Engineer's Week Speaker

EXPERIENCE

West Virginia, State Capitol Complex, Main Capitol Building Toilet Room Renovations: Prepared structural details for renovations of existing toilet rooms in entire facility. Building is on the National Register of Historic Places and was constructed in the 1920's and 1930's.

West Virginia, Roane County Courthouse: Structural analysis of existing floor framing for addition of new high-density file storage system on upper floor level.

West Virginia, Lewis County Courthouse: Structural investigation for work required to update structure and apply for grant monies through WVCFIA.

West Virginia, Tucker County Courthouse: Structural investigation for work required to update structure and apply for grant monies through WVCFIA.

West Virginia, Boone County Courthouse: Structural analysis of existing floor framing for addition of high-density file storage systems at different locations.

West Virginia, Gilmer County Courthouse: Structural analysis of existing floor framing for addition of high-density file storage system on upper floor level.

West Virginia, State Capitol Complex, Main Capitol Building Exterior Façade Restoration: Investigation and preparation of details for repairs to limestone and terra cotta exterior façade. Building is on the National Register of Historic Places and was constructed in the 1920's and 1930's.

West Virginia, First Presbyterian Church Restoration: Structural renovations of steel in lantern level and terra cotta cornice, overview of repairs to limestone and terra cotta façade of 1920's structure.

West Virginia, State Capitol Complex, Governor's Mansion: Structural analysis and design in addition to evaluation report for modifications and renovations to several areas of mansion. Building is on the National Register of Historic Places and was constructed in the 1920's.

West Virginia, Upshur County Courthouse: Developed construction documents for structural repairs to main entrance, dome and monumental sandstone columns of

P.O. Box 469

Alum Creek, WV 25003-0469

(304) 756-2564 (voice)

(304) 756-2565 (fax)

A West Virginia Certified DBE Consultant
Certified in the Practice of Structural Engineering

1899 structure. Work was recently completed and received a WVAIA Honor Award for Design Excellence.

West Virginia, State Capitol Complex, Holly Grove Mansion: Structural evaluation report for preliminary condition assessment of building structure. Building is on the National Register of Historic Places and was constructed in 1815.

West Virginia, State Capitol Complex, Main Capitol Building Dome: Exploratory investigation of structural steel components of Lantern Level of dome and development of contract documents for repairs. Building is on the National Register of Historic Places and was constructed in the 1930's.

West Virginia, State Capitol Complex, Main Capitol Building Parapet: Exploratory investigation of limestone/brick parapet/balustrade of Main Capitol Building to determine cause of movement/cracking/leaks. Construction contract for repairs has been completed. Building is on the National Register of Historic Places and was constructed in the 1920's and 1930's.

West Virginia, Hampshire County Courthouse: Structural design for new elevator for existing historic building.

West Virginia, Historic Putnam-Houser House (Parkersburg): Designed system for stabilization and upgrades to floor framing of building that was constructed in the 1700's.

Ohio, Mahoning County Courthouse: Completed preliminary structural observation report of exterior façade conditions to recommended phased repairs for terra cotta and granite façade. Building is on the National Register of Historic Places and was constructed in the early 1900's.

West Virginia, Hawks Nest State Park Lodge: Repairs to spandrel beams at roof level and analysis of structural cracks in stair tower.

West Virginia, Twin Falls Resort State Park: Structural evaluation of existing recreation building.

West Virginia, Pipestem Resort State Park: Structural evaluation of existing recreation building.

West Virginia, State Capitol Complex, Building 5: Structural design and analysis for support of new boilers and other mechanical equipment to be placed in mechanical penthouse.

West Virginia, State Capitol Complex, Building 7: Investigation and development of Construction Documents for new elevators.

West Virginia, State Capitol Complex, Building 3: Structural design and construction administration of repairs to limestone canopy. Building is eligible to be placed on the National Register of Historic Places and was constructed in the early 1950's.

West Virginia, State of West Virginia Office Building #21, Fairmont, WV: Preliminary structural observation report for condition assessment of building structure.

PREVIOUS EXPERIENCE

West Virginia, State Capitol Building, North Portico Steps: Designed structural system to replace deteriorated reinforced concrete slab at landing on north side of Capitol steps. Building is on the National Register of Historic Places and was constructed in the 1930's.

West Virginia, Upshur County Courthouse Annex: Performed structural evaluation and design for repairs to existing multi-story Annex addition.

West Virginia, Farrell Law Building: Performed analysis of existing deteriorated structural sidewalk over parking area. Recommended repair solutions for reinforced concrete and aged terra cotta façade of 1920's building.

West Virginia, Canaan Valley Resort and Conference Center: Structural feasibility study to upgrade lodging units.

West Virginia, West Virginia University Masterplan: Investigated structural floor load capacity of several university buildings as a consultant to a large national architectural firm for masterplan.

West Virginia, Morgantown High School Additions: Designed steel framing and foundations for science classroom, cafeteria and gymnasium additions to existing education complex.

West Virginia, Grafton High School Addition: Designed steel framing and foundations for new science classroom addition to existing high school.

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



Structural Engineering, Inc.

Firm Profile

CAS Structural Engineering, Inc. – CAS Structural Engineering, Inc. is a West Virginia Certified Disadvantaged Business Enterprise structural engineering firm located in the Charleston, West Virginia area.

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 20 years on the following types of building and parking structures:

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

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

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

Carol A. Stevens, PE is the firm President and will be the individual responsible for, as well as reviewing, the structural engineering design work on every project. Carol has over 20 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering.

CAS Structural Engineering, Inc. maintains a professional liability insurance policy.



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Cranberry Township, PA 16066
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724.444.8096 – Fax
mail@lichy.com – Email

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facebook.com/RoofConsultant

Follow us on Twitter
twitter.com/RoofConsultant

Leading the way in
Solving Building Envelope Problems

CURRICULUM VITAE

Name **Robert C. Lichy, CPRC/CPWC/RRC**

Address **RC Lichy & Associates**
204 Allison Road
Gibsonia, PA 15044
1-800-451-6288x1
bob@lichy.com

Professional Experience

April, 1976 through Present Founder and Principal of RC Lichy & Associates, a professional roofing and waterproofing consulting firm. RC Lichy & Associates has no affiliation with any manufacturers, suppliers, distributors, or installers of roofing and waterproofing materials. Our work includes failure investigation, surveys and inspections and design. Our clients include Fortune 500 companies such as Rockwell International, PPG Industries, Westinghouse, HJ Heinz Company, and Nabisco. We also consult with real estate development and management firms such as Galbreath Company, Buncher Company, NCHP and others around the country. We work with insurance companies such as Erie Insurance Group, State Farm Insurance, Selective Insurance, and several others.

As Principal of RC Lichy & Associates, I am responsible for the day-to-day operation of the firm. I have designed hundreds of roofing and waterproofing projects throughout the country. I am regularly engaged in performing roofing and waterproofing surveys and failure investigations. I have been accepted as a roofing and waterproofing expert by several courts around the country, including Allegheny County, Pennsylvania.

March, 1971 through April, 1976 Director of Building Services / Director of Operations at Carnegie-Mellon University, Pittsburgh, PA. As Director of Building Services and as Director of Operations, I was responsible for the day-to-day operation of the Physical Plant Department and Building Services Department. The Physical Plant and Building Services Departments had total responsibility for the construction, renovation, maintenance and operations of all university buildings on the Oakland campus, Mellon Institute, and the Saxonburg and Bushey Run research facilities.

Professional Associations

Institute of Roofing and Waterproofing Consultants (Chicago, IL) Active member since 1981. Two term Past President and member of Board of Directors from 1988 through 1998.

Roof Consultants Institute (Raleigh, NC) Active Member since Institute's merger with IRWC in 1999.

Roofing and Waterproofing Consultants Educational Foundation (Chicago, IL) Member of the Board of Directors since it inception in 1995. Most recent Past Chairman of the Board of Directors.

Roofing Industry Educational Institute (Boulder, CO) Faculty Member teaching courses on Roofing Maintenance and Single Ply Roofing.

Ontario Building Envelope Council (Don Mills, ON) Active Member

Pennsylvania State University (Beaver, PA) Faculty Member teaching continuing education courses on Roofing Maintenance, Roofing Design, and Coatings

Professional Certification

Certified Professional Roofing Consultant Successfully completed the written Certification Examination in 1986.

Registered Roof Consultant Certification was granted upon Roof Consultants Institutes merger with IRWC.

Certified Professional Waterproofing Consultant Successfully completed the written Certification Examination in 1996.



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twitter.com/RoofConsultant

Leading the way in
Solving Building Envelope Problems

CURRICULUM VITAE

Name Michael H. Lichy
Address RC Lichy & Associates
3171 Unionville Road
Cranberry Township, PA 16066
800.451.6288 x 701
724.444.8096 (Fax)
mlichy@lichy.com

Professional Experience

February, 1994 through Present – Employed by RC Lichy & Associates, an international professional building envelope consulting firm. RC Lichy & Associates has no affiliation with any manufacturers, suppliers, distributors, or installers of roofing and waterproofing materials. Our work includes; building envelope inspections, roofing and waterproofing design, preparation of construction documents, document review and bidding services, project management and construction administration, quality control inspections, failure investigations, and expert witness. Our clients include Fortune 500 companies such as Rockwell International, PPG Industries, Westinghouse, HJ Heinz Company, and Nabisco. We also consult with real estate development and management firms such as Galbreath Company, Buncher Company, NCHP, Lamar Companies, and others around the country. We work with insurance companies such as Erie Insurance Group, State Farm Insurance, Farmers Insurance, Met Life Auto & Home, Selective Insurance Company, and several others.

Michael H. Lichy is the Field Operations Supervisor for RC Lichy & Associates. He is responsible for conducting and supervising site inspection work, the storage and presentation of site collected data and participation in the analysis of data and formulation of recommendations. He is regularly engaged in performing building envelope surveys and failure investigations. In addition to his experience with general building envelope consulting, he has specialized in steep-slope roofing and has performed over 4,200 steep-slope roofing surveys/failure investigations. He has been a speaker at trade organization seminars and has been accepted as a roofing expert in several courts. He has designed and managed numerous roofing projects.

Professional Associations

Roof Consultants Institute (Raleighn, NC) – Active Professional Member



RC Lichy & Associates, Inc.

Leading the way in
Solving Building Envelope Problems



Port of New Orleans, New Orleans, Louisiana

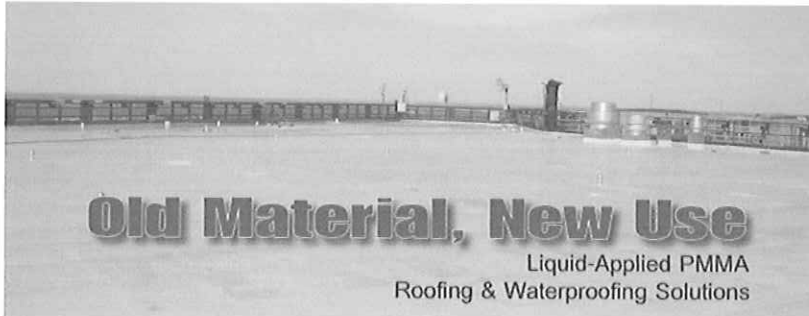
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Roofing, Waterproofing, and Building Envelope Consultants

RC Lichy & Associates is a firm of building envelope consultants assisting architects, engineers, building owners, property managers, contractors, and insurance companies with their roofing, waterproofing, and exterior wall systems needs for over thirty years. RC Lichy & Associates offers our roof consulting, waterproof consulting, and exterior wall system consulting services across the country and internationally.

In addition to preparation of roofing, waterproofing, and exterior wall systems specifications, drawings, and construction management services, RC Lichy & Associates offers extensive survey and inspection services designed to determine the best way to extend the life of your roof, waterproof, and exterior wall system.

[Learn More ->](#)



PMMA Liquid-Applied Roofing can tackle your thorniest roofing problems.

Around the country, facility managers are solving difficult roofing problems by using polymethyl methacrylate (PMMA) cold, liquid-applied roofing systems. PMMA roofing systems have been successful in Europe and on the East Coast of the United States for several years, but now are seeing increasing use all over the country. The product is capable of performing well under adverse conditions.

[Read full article ->](#)

Services We Provide

RC Lichy & Associates, Inc. provides the following roofing, waterproofing, and building envelope consulting services:

- Building envelope evaluation - Visual inspections of the roof system, waterproof system, exterior wall system, and related building envelope components
- Non-destructive moisture surveys of the roof, waterproof, and exterior walls (Infrared and capacitance)
- Energy analysis of your roof, waterproof, and exterior walls
- Design development and preparation of construction documents and drawings for roofing, waterproofing, and exterior wall systems restoration and replacement projects

BUILDING ENVELOPE - A building envelope is the separation between the interior and the exterior environments of a building. It serves as the outer shell to protect the indoor environment as well as to facilitate its climate control.

The building envelope consists of the roof system, vertical and horizontal waterproof system, the exterior wall system, and associated building materials.

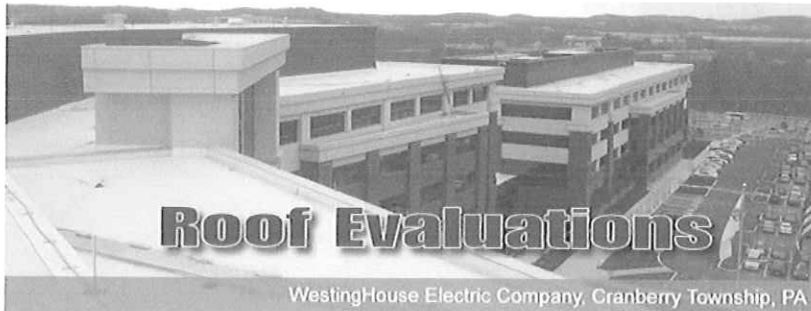
We are on top of it



Our full time involvement in the roofing, waterproofing, and building envelope industry allows us to keep current with the many advancements and new roof, waterproof, and exterior wall products being introduced by roofing, waterproofing, and exterior wall product manufacturers.

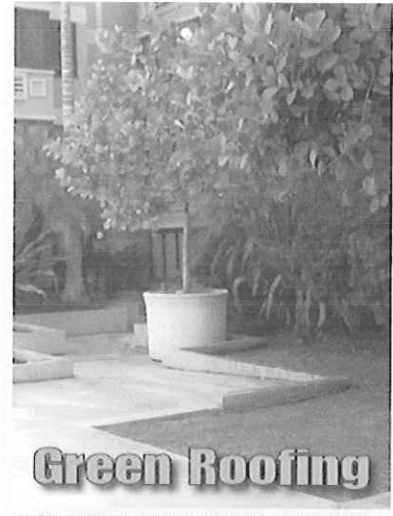
- Project management and construction administration
- Field quality control inspections
- Preventive maintenance programs
- Warranty claims assistance
- Failure Investigations
- Leak traces
- Expert Witness

[Learn more about the building envelope consulting services that we provide ->](#)



Basic Components of a Typical Visual Roof Survey

- An overall inspection of the roof membrane, by a professional roof consultant, to ensure proper construction and integrity of the roof system
- Examine the roof membrane base flashings and sheet metal cap flashings, copings, perimeter-edge flashing, and trim
- Inspect all rooftop equipment, roof projections, and roof drain assemblies
- Examine the underside of the roof deck and ceiling and walls for signs of moisture infiltration
- Examine all other connected or related building systems or materials
- Report of roof survey findings with recommendations for necessary corrective actions, cost estimates for repair or replacement, roof plan showing locations of all deficiencies, and a photographic records of existing conditions of the roof membrane, flashings, and associated building materials



EVOLUTION IS YIELDING EFFECTIVE TECHNOLOGY

Green roofing is thought to be relatively new idea, but in fact it has existed since ancient times. The number of green roofs has steadily increased during the past several years.

[Read full article ->](#)

RoofConsultant

RoofConsultant Wishing all a Merry Christmas and a Happy New Year!
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RoofConsultant Learn about the hazards of using treated lumber in roofing eavest... <http://fb.me/11P276w1g>

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lloyd w. miller

architect

Project Team

Project Team personnel information

Please refer to the resumes and company profiles under Tab 4

The project will be managed from the office of Lloyd W. Miller Architect in Charleston, WV
CAS Engineering, Inc. is located in Alum Creek, WV
R. C. Lichy & Associates is located in Cranberry Township, PA

Project Team Organization Chart

Refer to the following page.

Statement of Ability

The project team of Lloyd W. Miller Architect, PLLC, CAS Engineering, Inc., and R. C. Lichy & Associates has the experience and qualifications to provide the required professional services to assist the West Virginia Department of Administration General Services to successfully delivery the roof replacement of the Capitol Building in its entirety.



lloyd w. miller

architect

**Project Team
Organizational Chart
for EOI #GSD 136423**

Capitol Building Roof Replacement

**for the
West Virginia Department of Administration
General Services**



lloyd w. miller

architect

Lloyd W. Miller, AIA – Principal In Charge
Programming-Design-Project Administration
Charleston, WV

**CAS
Structural Engineering, Inc.**

Carol A. Stevens, P.E., F.ASCE Structural Engineer
Alum Creek, West Virginia



RC Lichy & Associates, Inc.

Leading the way in
Solving Building Envelope Problems

**Robert C. Lichy, CPRC/CPWC/RRC
Gibsonia, PA
Michael H. Lichy, Roof Consultants Institute
Cranberry Township, PA**



lloyd w. miller

architect

Demonstrated Experience

Relevant Projects

Please refer to the following pages

References

Lloyd W. Miller Architect, PLLC

Ronald J. May
Marshall University
Director of Facilities Planning and Mgt
304-696-6415
mayr@marsahll.edu
Marshall Parking Garage

Rick Atkinson
Central WV Airport Authority
Airport Director
304-344-8033
rick@yeagerairport.com
Three parking garage projects

CAS Engineering, Inc.

Mr. Robert Krause, AIA, PE
Director, Architectural and Engineering
Services
Capitol Complex Building 1, Room MB-60
1900 Kanawha Blvd E Charleston, WV 25305
(304) 558-2317

Mr. Timothy Lee
Director, Plant Operations and Security
Thomas Memorial Hospital
4605 MacCorkle Ave SW
South Charleston, WV 25309
(304) 766-3684

David Bruffy
Mountain Line Transit Authority
General Manager
304-296-3680
Bruffy@busride.org
Roof mounted solar power plant

John Thompson
West Virginia University
Facilities Manager
340-293-3625
John.thompson@mail.wvu.edu
Mountaineer Station Office & Parking

Mr. Bradley S. Leslie, P.E.
Assistant Chief
WV Division of Natural Resources
Parks & Recreation Section
324 4th Avenue
South Charleston, WV 25303
(304) 558-2764

Mr. William "Willie" Parker
County Administrator
Upshur County Commission
38 Main Street, Room 02
Buckhannon, WV 26201
(304) 472-0535



lloyd w. miller

architect

Demonstrated Experience

R. C. Lichy & Associates

Ken Wagner
GlaxoSmithKline
Pittsburgh, PA
412-200-3197

Steve Stiles
Emerson
Ava, Mo
417-683-7171



lloyd w. miller

architect



WVU Transportation Center and Garage

Morgantown, West Virginia



**West Virginia University
Morgantown, West Virginia**

**WVU Transportation Center
& Garage Mountaineer Station
Design-Build Project Delivery
50,000sf Office and Retail.
Parking for 500 cars.**

Owners Rep: John Thompson 304-293-3625

**Scope of Services:
Criteria Developer: Lloyd W. Miller**

**Design Builder:
Architect: Paradigm
Contractor: March Westin**

Construction Cost: \$14,600,000

Completion: September 2009



West Virginia University

Transportation and Parking

March 22, 2010

Lloyd W. Miller, AIA, NCARB, CSI, CCS
Architect
PO Box 11925
Charleston, WV 25314

Dear Mr. Miller:

It was a pleasure to work with you on the Mountaineer Station at West Virginia University. You represented Design Build Criteria Services in a very professional manner. Due to the efforts you put forth on this project it resulted in a completed project that provided the best value for our needs.

Your guidance through programming, RFQ, RFP, and development resulted in insightful and experienced language that assisted the design builder to be innovative, on time, and within budget. The RFP procedures you provided resolved issues prior to them becoming problems. The quality of design, construction, and verification procedures kept the project on target through the design, construction, and closeout phases.

We wish you success in your continuing efforts to provide Design Build Criteria Services with your professional and educational skills that you have in the architectural field. This letter serves as a recommendation to other State agencies and private owners to retain your services for their projects. Looking forward to working with you again if possible.

Sincerely,

Hugh Klerig, AICP, Director
Department of Transportation and Parking
West Virginia University

293-5502 • Fax 293-3939

293-5627 • Fax 293-6679

293-5011 • Fax 293-7093

Parking

PO Box 6561

Transportation Services

PO Box 6567

PRT

PO Box 6565

PO Box 6561

Morgantown, WV 26506-6561

Equal Opportunity/Affirmative Action Institution



West Virginia University

Facilities Management – Construction Services

March 16, 2010

Mr. Lloyd Miller
Lloyd Miller Associates
P.O. Box 11925
Charleston, WV 25339

Subject: WVU Intermodal Transportation Facility – Design Build Project

Dear Mr. Miller,

I am writing this letter to thank you and to recognize the outstanding professional service you provided West Virginia University as you served as a leading member of our design build team for the construction of the Intermodal Transportation facility. It was a pleasure to work with you on this project. The Design Build Criteria Services you provided WVU paved the way for a very successful project that, in the end, provided the Best Value to meet the needs of our growing University.

Your guidance through programming, RFQ, and RFP, development resulted in insightful and experienced language that assisted the Design Builder to be innovative, on time, and within budget. The RFP procedures you provided resolved issues prior to them becoming problems. The design, construction, and quality verification procedures kept the project on target through the design, construction, and closeout phases.

We wish you success in your efforts to provide Design Build Criteria Services. This letter serves as a recommendation to other State agencies and private Owners to retain your services for their projects.

Sincerely;

David J. Smith
WVU Project Manager



lloyd w. miller

architect



PLATINUM
PROPERTIES, LLC

Morgantown Event Center and Garage

Morgantown, West Virginia



MARCH-WESTIN
ARCHITECTS



Paradigm
Architecture

**City of Morgantown and Platinum Properties
Morgantown, West Virginia**

Morgantown Event Center and Garage

Design-Build Project Delivery

80,000 sf Multipurpose facility for conventions, exhibits, trade shows, educational seminars, sporting events, theatrical shows, banquets, etc, with a full service catering kitchen and 230 car garage.

**Owners Rep: Rich Lane, Platinum Properties
304-284-5013**

Scope of Services:

Criteria Developer: Lloyd W. Miller

Design-Builder:

Architect: Paradigm Architecture

Contractor: March Westin

Construction Cost: \$25,000,000

Completion: 2009



*The City of Morgantown
Public Works Department
389 Spruce Street
Morgantown, WV 26505
Terry L. Hough, P.E.
Public Works Director/City Engineer
PH: (304) 284-7412 FAX: (304) 284-7409
E-MAIL: bshellito@cityofmorgantown.org
though@cityofmorgantown.org*

* Engineering
* Building Inspections
* Public Works Operations

March 12, 2010

Lloyd Miller
Lloyd W. Miller, Architect PLLC
POB 11925
Charleston, WV 25339

Dear Mr. Miller:

It was a pleasure to work with you on the Morgantown Event Center Project. You provided Design Build Criteria Services in a professional manner. It resulted in a completed project that provided the Best Value for our needs.

Your guidance through programming, RFQ, and RFP development resulted in insightful and experienced language that assisted the Design Builder to be innovative, on time, and within budget. The RFP procedures you provided resolved issues prior to them becoming problems. The design, construction, and quality verification procedures kept the project on target through the design, construction, and closeout phases.

We wish you success in your efforts to provide Design Build Criteria Services. This letter serves as a recommendation to other State agencies and private Owners to retain your services for their projects.

Sincerely,

Terry L. Hough, P.E.
Public Works Director/City Engineer

PETROPLUS & ASSOCIATES, INC.

TWO WATERFRONT PLACE, SUITE 1201
MORGANTOWN, WEST VIRGINIA 26501
PHONE (304) 284-5000
FAX (304) 284-5008

Lloyd W. Miller Architect, PLLC
Mr. Lloyd Miller
PO Box 11925
Charleston, West Virginia 25339

Dear Lloyd,

I wanted to take this opportunity to thank you for the exceptional job you did for us with the Morgantown Event Center project. You were very competent and provided Design Build Criteria Services in a professional manner. The result is a successfully completed project that that will be an asset to our region and state.

Your guidance through programming, RFQ, and RFP, development resulted in insightful and experienced language that assisted the Design Builder to be innovative, on time, and within budget. The RFP procedures you provided resolved issues prior to them becoming problems. The design, construction, and quality verification procedures kept the project on target through the design, construction, and closeout phases.


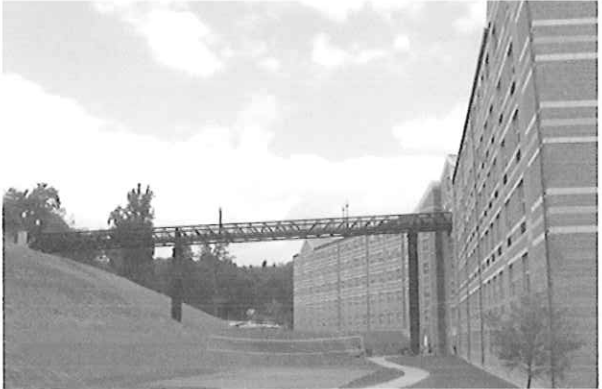
It is my hope that we will work together again and I wish you success in your efforts to provide Design Build Criteria Services.

This letter serves as our recommendation to state agencies and private owners to retain your services for their projects.

Thanks again.

Sincerely,


Laury W. Podolinski
Vice President of Operations

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the Contracting Authority, or a maximum of 10 projects, if not specified. Complete one Section F for each project.)</i>			24. EXAMPLE PROJECT KEY NUMBER (1 – 10) 6
25. TITLE AND LOCATION (City and State) Fairmont State University Student Housing Fairmont , WV		26. YEAR COMPLETED PROFESSIONAL SERVICES 2004 CONSTRUCTION (if applicable) 2004	
27. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Fairmont State University	b. POINT OF CONTACT NAME James Decker	c. POINT OF CONTACT PHONE NUMBER +1 (304) 367-4861	d. POINT OF CONTACT E-MAIL ADDRESS jdecker@fairmontstate.edu
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
Fairmont State University Student Housing 1201 Locust Avenue Fairmont, WV 26554 Design-BUILDER: Ragner Benson Pittsburgh, PA VOA Architects Chicago, IL Size: 400 Bed Construction Cost: \$12,490,000 Completion: 2004 Contact: James Decker, Assistant VP for Facilities Fairmont State University 1201 Locust Avenue Fairmont, WV 26554 304-367-4861 jdecker@fairmontstate.edu		Relevance: The client is an institution of higher education, Fairmont State University. The project was delivered by the Design Build method of project delivery with N Visions, Inc. (predecessor to Lloyd W. Miller, Architect, PLLC) providing the Criteria A/E services.	
Lloyd W. Miller responsibilities: Design Build Criteria Developer, Project Programming, Performance Criteria, Project Administration Project Description: 400 bed student housing, combination of 4 person suites with 4 single bed rooms or 2 double bed rooms, computer labs, classrooms, laundry facilities on each floor, bridge connecting to the main campus.			
29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME N Visions, Inc. (predecessor to Lloyd W. Miller Architect, PLLC)	(2) FIRM LOCATION (City and State) South Charleston, WV	(3) ROLE Criteria Architect
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

<p align="center">F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the Contracting Authority, or a maximum of 10 projects, if not specified. Complete one Section F for each project.)</i></p>	<p>24. EXAMPLE PROJECT KEY NUMBER (1 – 10) 1</p>
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<p>25. TITLE AND LOCATION <i>(City and State)</i> Marshall University Parking Garage Huntington, WV</p>	<p>26. YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; padding: 2px;">PROFESSIONAL SERVICES 2012</td> <td style="width:50%; padding: 2px;">CONSTRUCTION (if applicable) 2012</td> </tr> </table>	PROFESSIONAL SERVICES 2012	CONSTRUCTION (if applicable) 2012
PROFESSIONAL SERVICES 2012	CONSTRUCTION (if applicable) 2012		

27. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Marshall University	b. POINT OF CONTACT NAME Ronald J. May	c. POINT OF CONTACT PHONE NUMBER 304-696-6415	d. POINT OF CONTACT E-MAIL ADDRESS mayr@marshall.edu



28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*
 411 Car Parking Garage, \$6,750,000

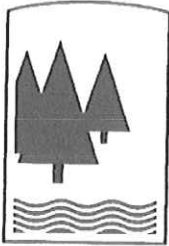
Lloyd W. Miller responsibilities:
 Design Build Criteria Developer, Project Programming,
 Performance Criteria, Project Administration

Relevance:
 Current project under construction for an institution of higher education, delivered by the Design Build Project delivery method for which Lloyd W. Miller Architect, PLLC provided Criteria A/E services.



29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME Lloyd W. Miller Architect, PLLC	(2) FIRM LOCATION <i>(City and State)</i> Charleston, WV	(3) ROLE Criteria Architect
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the Contracting Authority, or a maximum of 10 projects, if not specified. Complete one Section F for each project.)			24. EXAMPLE PROJECT KEY NUMBER (1 - 10) 5
25. TITLE AND LOCATION (City and State) Jefferson County Community Center Charlestown, WV		26. YEAR COMPLETED PROFESSIONAL SERVICES 2005 CONSTRUCTION (if applicable) 2005	
27. PROJECT OWNER'S INFORMATION			
a. PROJECT OWNER Jefferson County Commission	b. POINT OF CONTACT NAME Tim Barr	c. POINT OF CONTACT PHONE NUMBER 304-728-3207	d. POINT OF CONTACT E-MAIL ADDRESS tbarr@jcprc.org
28. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			
<p>Jefferson County Commission Jefferson County Community and Recreation Center Charlestown, WV</p> <p>Design-Builder: Palmer Construction McConnellsburg, PA SGS Architects Carlisle, PA</p> <p>Size: 16,000sf</p> <p>Design and Construction Cost: \$ 1,800,000</p> <p>Completion: 2005</p> <p>Contact: Tim Barr Jefferson County Parks and Recreation Commission 235 Sam Michael's Lane Shenandoah Junction, WV 25442 304-728-3207 tbarr@jcprc.org</p> <p>Lloyd W. Miller responsibilities: Design Build Criteria Developer, Project Programming, Performance Criteria, Project Administration</p> <p>Project Description: High School size basketball court with spectator area. Locker rooms. Day Care, Snack Bar Prepared for pool addition</p>		<p>Relevance: This recreation facility project was delivered by the Design Build method of project delivery with Lloyd W. Miller, Architect, PLLC providing the Criteria A/E services.</p>	 
29. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME N Visions, Inc (Predecessor to Lloyd W. Miller Architect, PLLC)	(2) FIRM LOCATION (City and State) South Charleston, WV	(3) ROLE Criteria Architect
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



**Jefferson County
Parks & Recreation Commission**

235 Sam Michael's Lane ■ Shenandoah Junction, WV 25442

(304) 728-3207 ■ Fax (304) 728-9746 ■ jcpr@frontiernet.net ■ www.jcprc.org

March 11, 2010

Dear Mr. Miller:

It was a pleasure to work with you on the Jefferson County Community Center. You provided Design Build Criteria Services in a professional manner. It resulted in a completed project that provided the Best Value for our needs.

Your guidance through programming, RFQ, and RFP, development resulted in insightful and experienced language that assisted the Design Builder to be innovative, on time, and within budget. The RFP procedures you provided resolved issues prior to them becoming problems. The design, construction, and quality verification procedures kept the project on target through the design, construction, and closeout phases.

We wish you success in your efforts to provide Design Build Criteria Services. This letter serves as a recommendation to other State agencies and private Owners to retain your services for their projects.

Sincerely;

Timothy C. Barr
Director



lloyd w. miller

architect

**Yeager Airport Rental Car Parking
Charleston, Wv**

Design Builder

BBL Carlton LLC Charleston, WV
Associated Architects Charleston, WV

Construction Cost

\$4,900,000

Owner:

Central West Virginia Airport Authority

Contact:

Rick Atkinson 304-344-0833



Central West Virginia Regional Airport Authority

John D. Rockefeller IV Terminal
100 Airport Road, Suite 175 ▪ Charleston, WV 25311-1080
Phone: 304-344-8033 Fax: 304-344-8034
E-Mail: fly@yeagerairport.com www.yeagerairport.com



Lloyd Miller & Associates
408 Abbey Drive
Charleston, WV 25314

March 12, 2010

Dear Lloyd Miller,

It was a pleasure to work with you on the Yeager Parking Garage and Rental car Garage. You provided Design Build Criteria Services in a professional manner. It resulted in a completed project that provided the Best Value for our needs.

Your guidance through programming, RFQ, and RFP, development resulted in insightful and experienced language that assisted the Design Builder to be innovative, on time, and within budget. The RFP procedures you provided resolved issues prior to them becoming problems. The design, construction, and quality verification procedures kept the project on target through the design, construction, and closeout phases.

We wish you success in your efforts to provide Design Build Criteria Services. This letter serves as a recommendation to other State agencies and private Owners to retain your services for their projects.

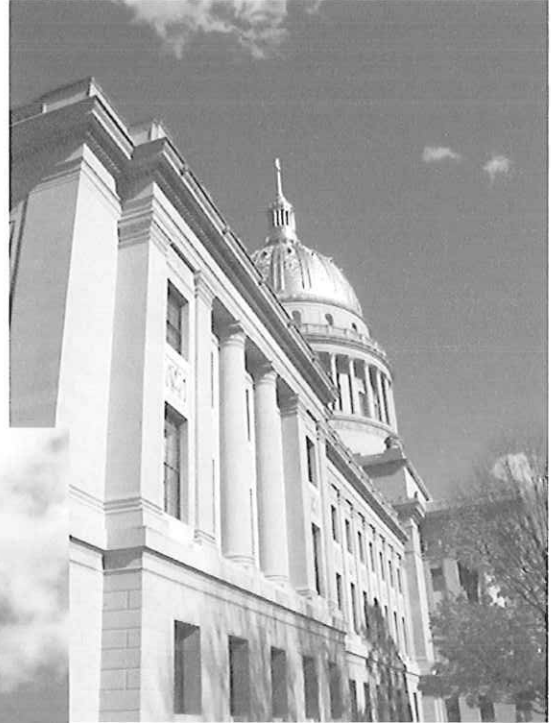
Sincerely,

Richard A. Atkinson, III

PARAPET/BALUSTRADE INVESTIGATION MAIN CAPITOL BUILDING

Charleston, West Virginia

This project was recently completed and involved an exploratory investigation of the Main Capitol Building parapet and balustrade in an effort to determine the source of movement in the limestone panels. In addition, the leaking that is currently occurring in the upper floor ceilings was addressed.



There are a number of locations around the parapet where limestone panels or joints exhibit cracks and significant movement.

There is evidence of minor efflorescence within the ceiling space as well.





The exploratory investigation involved removing limestone and brick at several locations, documenting the findings, and developing a budget estimate for repairs to the parapet.



STRUCTURAL INVESTIGATION MAIN CAPITOL BUILDING DOME

Charleston, West Virginia



The structural steel in the lantern level shows evidence of deterioration. Project included probing to determine extent of deterioration and preparation of plans and specifications for repairs.



The structural steel after being repaired and the regilding complete.

CAS
**Structural Engineering, Inc.**



Removal of decorative column wrap indicated that back-up structure was severely deteriorated.



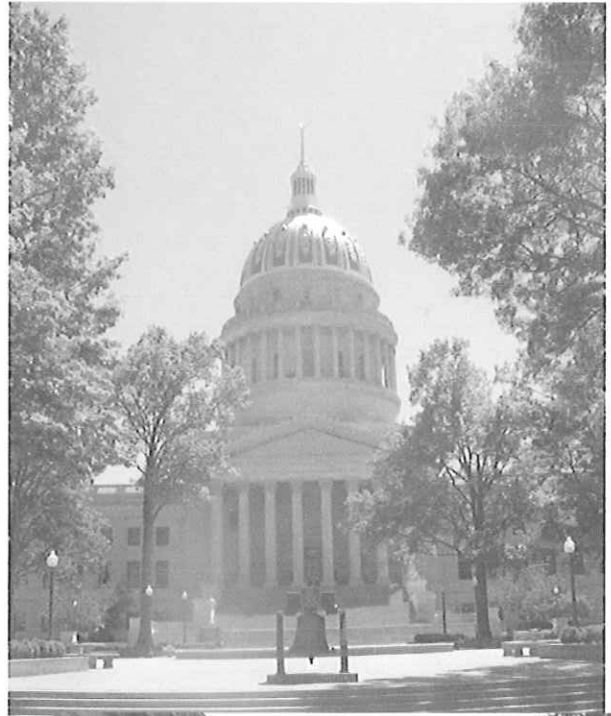


Deterioration of steel supporting sheet metal exhibited such deterioration that portions of the steel have disintegrated. Main wind bracing in Lantern Level (not shown here) also severely deteriorated.

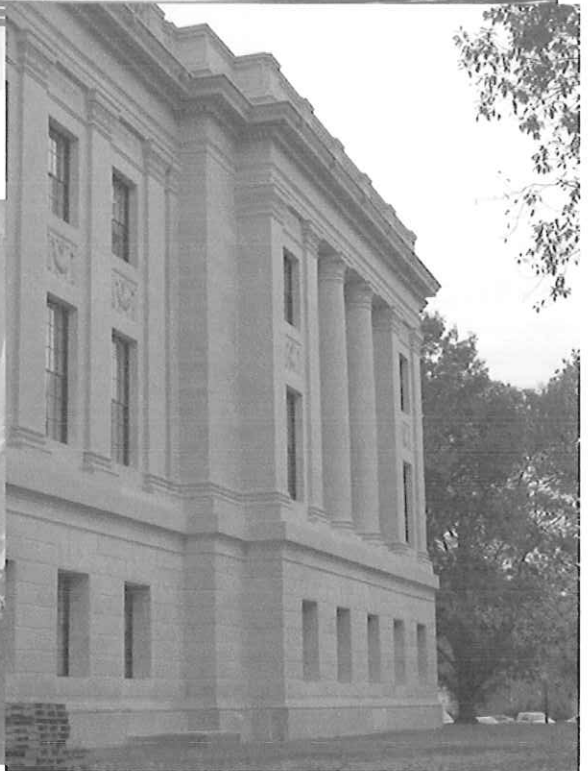


EXTERIOR FAÇADE RESTORATION MAIN CAPITOL BUILDING

Charleston, West Virginia



Exterior façade restoration included cleaning, pointing, and repairs to the limestone and terra cotta components, windows and doors.

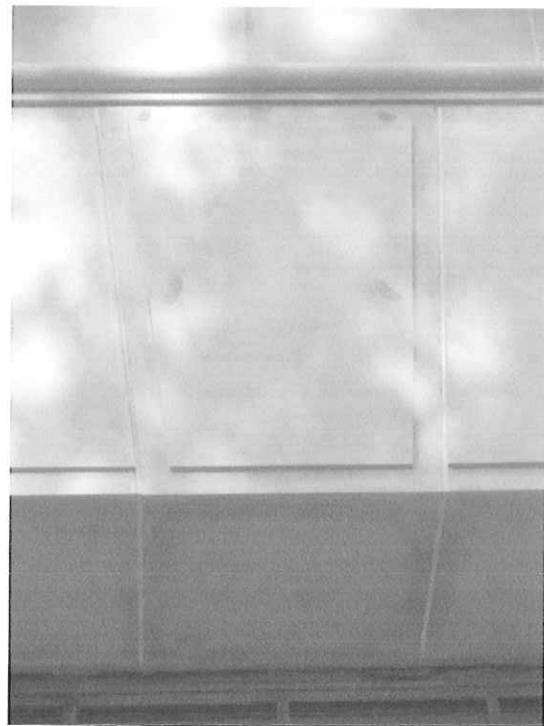




Portions of the limestone cornice were damaged to the point that they fell when work was being conducted and had to be pinned back in place.

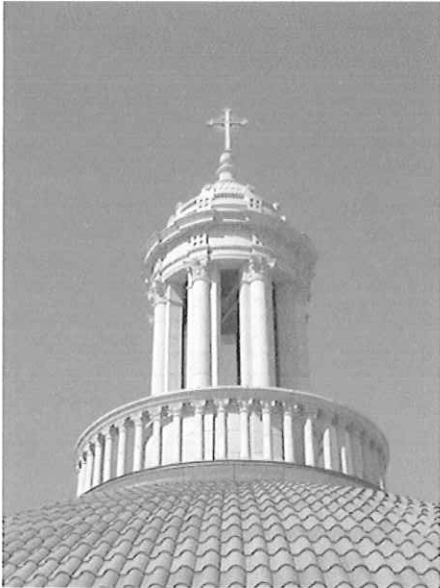


Other repairs included various spall repairs, pinning and epoxy injection of larger cracks and lifting and pinning keystones over windows.



FIRST PRESBYTERIAN CHURCH EXTERIOR FACADE RESTORATION

Charleston, West Virginia



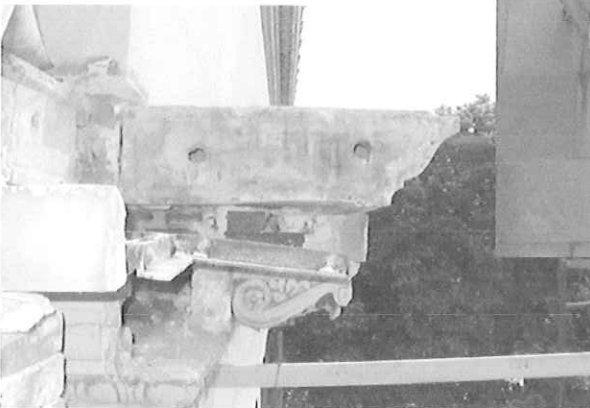
The terra cotta and limestone exterior of this 1910's building was in need of being restored to prevent continued damage to the exterior and interior of the building. The structural steel in the lantern level was replaced with stainless steel members and wind bracing was added.



The terra cotta balustrade was re-built after the iron components were found to be deteriorated.



The corners of the terra cotta cornice exhibited significant deterioration of the mortar joints and rotation of the units. It was found that the supporting steel members were not adequate for the load that was being supported. They were also replaced with stainless steel components.





Lloyd W. Miller

architect

R. C. Lichy Recent Projects

GlaxoSmithKline located in Pittsburgh, PA (Ken Wagner: 412-200-3197). The roof replacement contract was \$1,167,060.00. RC Lichy & Associates, Inc. performed design and construction management services.

Emerson located in Ava, Mo (Steve Stiles: 417-683-7171). RC Lichy & Associates, inc. performed design and construction management services.