



**State of West Virginia
Department of Administration
Purchasing Division**

NOTICE

Due to the size of this bid, it was impractical to scan every page for online viewing. We have made an attempt to scan and publish all pertinent bid information. However, it is important to note that some pages were necessarily omitted.

If you would like to review the bid in its entirety, please contact the buyer. Thank you.

Expression of Interest for Statewide Courthouse Facility Needs Assessment



RECEIVED
2011 NOV 18 A 9:49
PURCHASING DIVISION
STATE OF WV

CAS
Structural Engineering, Inc.

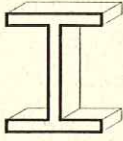


**Chapman
Technical
Group**

CMA
ENGINEERING

SWANKE HAYDEN CONNELL ARCHITECTS

CAS



Structural Engineering, Inc.

November 17, 2011

Mr. Frank Whittaker, Buyer
Department of Administration
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, West Virginia 25305-0130

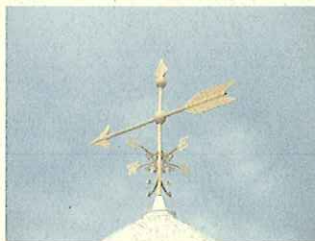
Re: Expression of Interest for Statewide Courthouse Facility Needs Assessment
RFQ Number CFA100611

To the Selection Committee:

With over 20 years of experience, **CAS Structural Engineering, Inc.** provides professional structural engineering services for a variety of building structural projects, ranging from new construction to additions and renovations, to repairs and historic preservation. I, Carol A. Stevens, PE, as president of **CAS Structural Engineering**, will serve as Project Manager for this project. I have over 20 years of experience with building structures in West Virginia, Pennsylvania and Ohio. **CAS Structural Engineering** is a small, local, West Virginia Certified Disadvantaged Business Enterprise that will give you personal attention.



The **CAS Structural Engineering, Inc. (CAS) Team** is a



collective of hand-selected firms and individuals that are experts in their respective fields, all of which are needed in the project. The teams pairs the structural expertise of **CAS Structural Engineering**, with the local architectural/engineering firm **Chapman Technical Group** (St. Albans, WV), national architectural firm **Swanke Hayden Connell Architects** (Washington, DC), local mechanical/electrical engineering firm of **CMA Engineering** (Charleston and Morgantown, WV) and **Skelley**

and **Loy's Cultural Resources Group** historian (Pittsburgh, PA). Cost estimating for this important project will be provided by two individuals with construction background who have provided such services in the past.

The **CAS Team** has extensive experience with completing building assessments, and specifically with courthouse facilities, having worked on over 30-percent of the County Courthouses in West Virginia to date. The **CAS Team** is also very experienced with building structures listed on the National Register of Historic Places and the United States Secretary of the Interior's Standards for Historic Preservation. Having worked on historically significant structures throughout the state,



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

including the West Virginia Capitol Building, Governor's Mansion and Holly Grove Mansion, among others, this team brings the necessary capabilities to the Courthouse Facilities Improvement Agency.

As you review the following information, it will become evident that as a team we bring extensive building assessment, restoration and renovation experience to your project. The **CAS Team** invites an opportunity to present our credentials for your evaluation and we are available to work on your project. If you have any questions or require any additional information, please contact us. Thank you for considering the **CAS Team** for your project.

Sincerely,

CAS Structural Engineering, Inc.



Carol A. Stevens, P.E.
President

RFQ No. CFA100611

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: CAS Structural Engineering, Inc.

Authorized Signature: Carol Stevens Date: 11/16/11

State of West Virginia

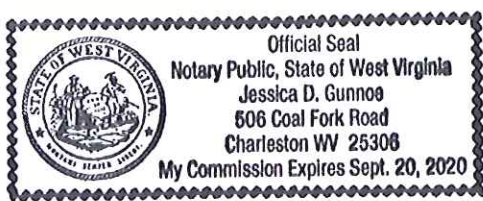
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 16th day of November, 2011.

My Commission expires September 20, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC Jessica D. Gunnoe





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

Request for Quotation

RFQ NUMBER
CFA100611

PAGE
3

ADDRESS CORRESPONDENCE TO ATTENTION OF:
FRANK WHITTAKER 304-558-2316

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

COURTHOUSE FACILITIES
 IMPROVEMENT AUTHORITY

 550 EAGAN STREET, SUITE 208
 CHARLESTON, WV
 25301 304-558-5000

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
10/19/2011				

BID OPENING DATE: 11/16/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p> <p>RFQ. NO.: CFA100611</p> <p>BID OPENING DATE: 11/16/2011</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: (304) 756-2565</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY): Carol A. Stevens</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

Request for Quotation

RFQ NUMBER
 CFA100611

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 FRANK WHITTAKER
 304-558-2316

RFQ COPY

TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

COURTHOUSE FACILITIES
 IMPROVEMENT AUTHORITY
 550 EAGAN STREET, SUITE 208
 CHARLESTON, WV
 25301 304-558-5000

DATE PRINTED 10/27/2011	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
BID OPENING DATE: 11/16/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 1 *****						
THIS ADDENDUM IS ISSUED TO CORRECT THE INFORMATION PROVIDED IN SECTION 1.16 SCHEDULE OF EVENTS. SECTION 1.16 IS CHANGED AS FOLLOWS:						
1.16 SCHEDULE OF EVENTS:						
RELEASE OR EOI:					OCTOBER 18, 2011	
FIRMS WRITTEN QUESTIONS DEADLINE:					NOVEMBER 03, 2011	
ADDENDUM ISSUED:					TBD	
EXPRESSION OF INTEREST OPENING DATE:					NOVEMBER 16, 2011	
ESTIMATED DATE FOR INTERVIEWS: 2 WEEKS AFTER OPENING BID OPENING DATE.						
***** END ADDENDUM NO. 1 *****						

*Received 10/27/11
 Carol A. Stevens*

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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



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

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PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
 FRANK WHITTAKER
 304-558-2316

VENDOR

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SHIP TO

COURTHOUSE FACILITIES
 IMPROVEMENT AUTHORITY
 550 EAGAN STREET, SUITE 208
 CHARLESTON, WV
 25301 304-558-5000

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
11/14/2011				

BID OPENING DATE: 11/21/2011 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** ADDENDUM NO. 2 *****						
THIS ADDENDUM IS ISSUED TO:						
1) PROVIDE THE ATTACHED TECHNICAL QUESTIONS & ANSWERS.						
2) EXTEND THE BID OPENING DATE AND TIME.						
BID OPENING CHANGED TO 11/21/2011 AT 1:30 PM.						
***** END ADDENDUM NO. 2 *****						

*Received 11/14/11
 Caroll Stevens*

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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

Expression of Interest for Statewide Courthouse Facility Needs Assessment

Table of Contents

<u>Section #</u>	<u>Section Title</u>	<u>Page</u>
Section 1	Concept	1-1
Section 2	Firm/Team Qualifications	2-1
Section 3	Project Organization	3-1
Section 4	Demonstrated Experience	4-1

Section 1 Concept

The **CAS Structural Engineering, Inc. (CAS) Team** has prepared an overall concept to navigate the needs assessment project. The needs assessment project includes conducting a Comprehensive Facility Assessment to evaluate the condition of the current building and a space planning/utilization study to include the main courthouse building in each of the 55 counties in West Virginia. Courthouse annex structures will be included in the Assessment if needed. The Assessments will assist the Courthouse Facilities Improvement Agency (Agency) as well as county governments in understanding the condition of each courthouse and will provide a document to be utilized in making application for grant funding.

A detailed report that recommends repairs, modifications, and/or maintenance issues that encompasses the priority categories of Life Safety, Structural Improvements, Roofing, Electrical/Data, Exterior Improvements, Interior Improvements, Mechanical (HVAC/Plumbing), Doors and Windows, Accessibility, and New Construction/Space will be completed for each courthouse facility.

The overall approach to the assessment process tracks a logical thread and is primarily based on a bar chart schedule path. The magnitude of the project, along with the time frame allotted, indicates that the **CAS Team** should conduct as many site visits per week as needed to procure the required information to develop the report(s). The **CAS Team** will plan the assessment site visits, coordinating with the county calendar of events or the local officials' schedules such that disruption to the courthouse activities is minimal.

The function of a county courthouse is complex, with multiple agencies and officials having offices contained within. Those offices include assessor, circuit clerk, circuit court, county clerk, county commission, family court, magistrate court, probation services, prosecuting attorney, sheriff and others. The **CAS Team** understands the different functions and the need to coordinate with the individuals and agencies contained within the facility.

The concept for this project is broken down into separate tasks and can be modified as needed:

1. Make initial contact with local officials and courthouse staff
2. Schedule pre-assessment meetings
3. Conduct interviews with local officials and courthouse staff
4. Establish site visit timetables
5. Conduct site visits by the various team members
6. Develop preliminary reports in conjunction with the ten item checklist
7. Review the preliminary report with local officials and the CIFA
8. Implement review comments into the reports

Once the items above are completed, the final report can be issued, both in paper copy and electronically. The interviews with officials and courthouse staff, assessment notes, photographs, cost analysis, and solutions will be presented in a prioritized list.

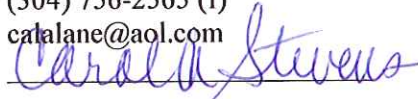
The project is organized and managed by Carol A. Stevens, a registered professional engineer, of **CAS Structural Engineering, Inc.**, who has led investigative teams on numerous similar projects. The **CAS Team** is a collective of hand-selected firms and individuals that are experts in their respective fields, all of which are needed in the project. This team has worked together on successful projects in the past with different team members as the lead firm and all projects coordinated to present one integral work product. The magnitude of this project, even though quite large, is very manageable because of the personnel that makes up the **CAS Team**.

Section 2 Firm/Team Qualifications

The **CAS Structural Engineering, Inc. (CAS) Team** is comprised of several consultants who are very experienced with courthouse facilities, having worked on over 30-percent of the County Courthouses in West Virginia to date, as illustrated in the map included in this section. Additionally, the team has extensive experience with building structures listed on the National Register of Historic Places and are familiar with the United States Secretary of the Interior's Standards for Historic Preservation. From projects on a number of the County Courthouses, to the Governor's Mansion, to the West Virginia Capitol Building, the **CAS Team** members have coordinated many projects with the West Virginia State Historic Preservation Office.

A. **CAS Structural Engineering, Inc.** is the lead firm for this qualified, experienced team. Carol A. Stevens, PE is the firm's contact person responsible for the project and has full authority to execute a binding contract on behalf of the team.

Carol A. Stevens, PE
CAS Structural Engineering, Inc.
PO Box 469
Alum Creek, WV 25003-0469
(304) 756-2564 (p)
(304) 756-2565 (f)
catalane@aol.com



B. Carol A. Stevens, PE, Structural Engineer for **CAS Structural Engineering, Inc.** will be assigned to this project as Project Manager and Structural Engineer and will coordinate closely with all of the consultants on the **CAS Team**.

C. The **CAS Team** has extensive experience working on a number of building structures listed on the National Register of Historic Places. Additionally, the architects, engineers and other design professionals on the team have experience in the following priority categories of Life Safety, Structural Improvements, Roofing, Electrical/Data, Exterior Improvements, Interior Improvements, Mechanical (HVAC/Plumbing), Doors and Windows, Accessibility, and New Construction/Space.

As seen from the organization chart and resumes presented in the Section 3, the **CAS Team** consists of several architects and engineers licensed in the State of West Virginia. These include architects and engineers with historic preservation experience, structural engineers, electrical engineers and mechanical engineers. The **CAS Team** also includes a historian to provide direction when making building modification suggestions that are in line with the State Historic Preservation Officer's (SHPO) preferences. The historian's knowledge of any historical events that have happened inside of or on the grounds of the county courthouses would also provide insight into modifications that should or should not be made.

D. The **CAS Structural Engineering, Inc. Team** can adequately perform this project in accordance with the requirements set forth in the Expression of Interest Request. The **CAS Team** design members have all worked together over the years on a number of projects for the State of West Virginia and/or County governments. This project will be a team effort with coordination between all entities involved.

E. **CAS Structural Engineering, Inc.** and the **CAS Team** accepts and understands that any and all work produced as a result of the contract will become property of the Agency and can be used or shared by the Agency as deemed appropriate.

F. **CAS Structural Engineering, Inc.** and the **CAS Team** are current with licensing and education requirements in conformance with all local, State, and Federal regulations applicable to courthouse facilities. The **CAS Team** routinely provides services in accordance with current, applicable codes. Current copies of business license, professional engineer registration and professional engineer certificate of authorization for **CAS Structural Engineering, Inc.** are included in this proposal.

G. There are no litigation or arbitration proceedings relating to the delivery of similar facility needs assessments involving **CAS Structural Engineering, Inc.**



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, 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 State Historic Register
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 State Historic
Register 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
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
State Historic Register and was constructed in 1815.

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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 State Historic Register and was constructed in the 1920's and 1930's.

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 State Historic Register and was constructed in the 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 recommend phased repairs for terra cotta and granite façade. Building is on State Historic Register 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 stairtower.

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 State Historic Register and was constructed in the 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 State Historic Register 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.

Pennsylvania, Metropolitan Edison Company, Headquarters: Structural design for new 80,000 SF two-story office addition to existing complex.

Pennsylvania, Defense Distribution Region East: Structural engineering and design for a 33,000 SF Hazardous Materials Storage Warehouse.

Maryland, U.S. Army Corps of Engineers, Baltimore District, Administration Building: Seismic design of new 10,000 SF masonry building.

A Gem in the Mountains

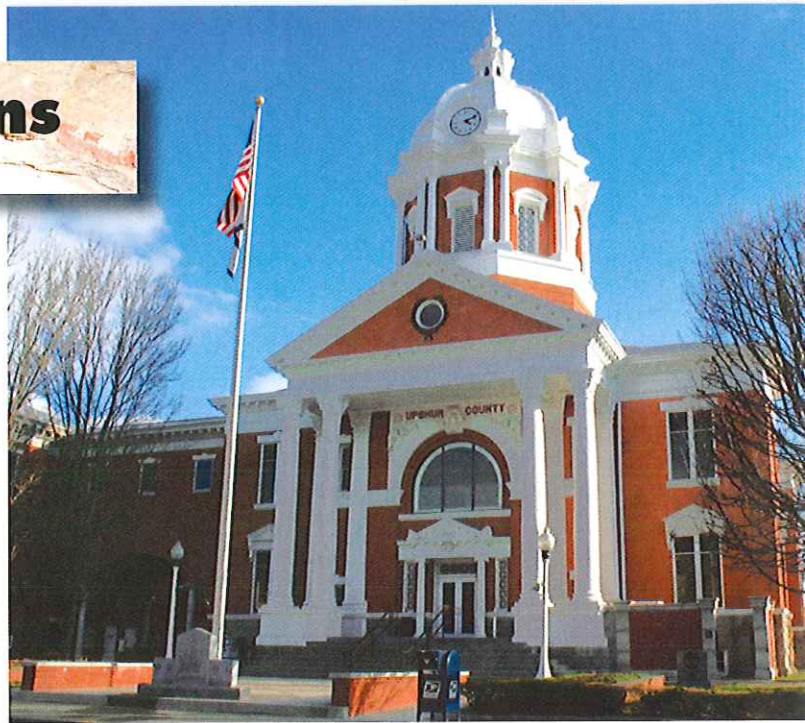
By Carol A. Stevens, P.E., SECB and Phillip A. Warnock, AIA, NCARB

The Upshur County Courthouse, built in 1899, is situated in the weathered mountains in the north central West Virginia town of Buckhannon. Located on a prominent corner in downtown, the dome of the courthouse can be seen from miles away while traveling through the hills. The building is constructed of brick with a rock face sandstone foundation and monumental sandstone columns supporting the portico. A wooden cornice with heavily detailed dentil molding trims the entire building at the roof level. The dome is supported by a brick tower that draws one's eye to the top of the structure, where decorative Corinthian cast iron columns adorn the façade. The dome itself is constructed of radial arch steel trusses with wood decking and galvanized sheet steel cladding. Time and weather had taken a toll on this gem, which has suffered the consequences of good intentions.

The investigation of this phased project started with the Upshur County Commission applying for grants through the Courthouse Facilities Improvement Authority. Since the grant monies were limited, the project was completed in three phases, with three different contractors. The first issues addressed pertained to the main entrance. Initially, the terrazzo flooring was raised, prohibiting the proper function of the main entrance doors. The terrazzo had cracked and chipped, and had been repaired with grout. It was determined that a structural steel beam directly below the entrance was severely deteriorated, with rust jacking causing the flooring issues above. In lieu of replacing the beam and pipe column support, the masonry wall below was extended up to support the floor above.

In addition to repairing the terrazzo and structural issues at the main entry, accessibility issues were addressed. As the root problem appeared to be water and salts migrating toward the entry, a lightweight concrete pad was provided on top of the existing portico slab to provide positive slope away from the building and provide a level entry plane at the portico. Ramps were provided at the plaza and an ADA compliant chair lift was installed, with all work complimenting the historical aesthetic of the property.

In the second phase of the project, the dome was repaired and restored. During the initial investigation, it was discovered that the dome had actually shifted because the legs of the inverted steel channel that it was resting on failed, causing the south side of the dome to be approximately 1½ inches lower than the north. The rusting was so advanced that the riveted connections between the truss rib and the bottom channel ring were completely deteriorated in some locations. The shifting also caused low slope areas above the cast iron ornamental columns to slope toward the building, essentially funneling water into the structure. Previous repairs, including EPDM roofing installed directly over leaking panels, increased the deterioration of the galvanized sheathing and the water



Restored dome and main entrance.

infiltration in the dome area. The brick tower began to deteriorate due to the presence of water. As the interior brick spalled and steel rods anchoring the structure to the brick disintegrated, the deterioration of the dome structure continued until the only thing holding the dome to its unstable base was gravity.

Brick fired at the same plant and from around the same time that the courthouse was built was salvaged from a local house, and used to replace those bricks that had lost their structural integrity. Bricks and anchors were reset, repointed, and when necessary, replaced to create a structurally stable base for the steel dome trusses. A jack truss was created to allow the replacement of the entire steel ring at the bottom of the trusses. A steel angle was used in place of the steel channel, as the previous channel caught and trapped water and pigeon droppings, leading to its disintegration. Slight corrections were made to counteract the dome shifting without stressing the roofing system. The wood windows and louvers were repaired to deter pigeons from roosting in the dome. The original roofing system on the dome consisted of painted galvanized steel sheets on wood decking. For galvanized steel that was over 100 years old, most of the original steel was in remarkable condition. However, as the processing of steel changed around WWII to speed its manufacturing, the replacement of damaged steel with in-kind materials was impossible. Terne-coated stainless steel was selected to replace damaged areas, and low slope areas were built up to provide positive drainage with no visual impact from the ground. Once all leaks were repaired, the roofing was coated with a high performance polyurethane industrial coating that provides the greatest protection for the roofing and provides a clean white gloss finish. The dome's cast iron columns and column bases were repaired and coated as well.

When the dome was painted, the front entrance columns and all of the exposed wood were also scheduled to be painted. The sandstone columns were also a victim of time, good intentions, and available materials. Being sandstone, the columns were coated early on, most likely with a lime wash, to protect them from the weather. Over time, repairs up to ten inches deep on the 30-inch diameter columns were made with nonshrink grout. In an effort to further protect the columns, hide the nonshrink grout repairs and smooth out the column finish, the columns were coated with a cementitious parging and a waterproof coating. This system was in line with preservation techniques at the time, and worked fairly well as long as there were no cracks in the parging and the coating was maintained.



Left: Failed steel channel and riveted connection at truss. Right: Repaired connection at truss.

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*

CAS STRUCTURAL ENGINEERING, INC.

C01212-00

Engineer in Responsible Charge: CAROL STEVENS - WV PE 011291

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

July 1, 2011 - June 30, 2012

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

**WEST VIRGINIA
STATE TAX DEPARTMENT
BUSINESS REGISTRATION
CERTIFICATE**

ISSUED TO:
**CAS STRUCTURAL ENGINEERING INC
57 CALA LN
ALUM CREEK, WV 25003-9150**

BUSINESS REGISTRATION ACCOUNT NUMBER: **1047-1711**

This certificate is issued on: **07/1/2010**

*This certificate is issued by
the West Virginia State Tax Commissioner
in accordance with W.Va. Code § 11-12.*

*The person or organization identified on this certificate is registered
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

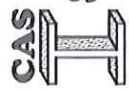
TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them.
CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

Section 3 Project Organization

The **CAS Structural Engineering, Inc. (CAS) Team** is a collective of hand-selected firms and individuals that are experts in their respective fields, all of which are needed in the project. Having worked together on a number of successful projects over the past 25 years, the **CAS Team** is comprised of nine different professional disciplines that are listed on the Project Team Organization Chart included in this section of the proposal. These disciplines are integral to the successful building assessment as well as the data analysis and recommended solutions to be provided in the Needs Assessment Report. Every effort was made to ensure that the **CAS Team** possesses the highest skill sets. A map showing the locations of the **CAS Team's** offices is included in this section.

The resumes of the individuals for each **CAS Team** member that would be assigned to this important project are included in this section as well. The resumes are separated by discipline and indicate the expertise that the **CAS Team** brings to together for this project. Along with completing assessments for a number of the County Courthouses, this team also has experience with such important structures as the West Virginia Governor's Mansion and the West Virginia Capitol Building. Additional information relative to assessment experience can be found in Section 4.

The **CAS Team** can provide the services required for the Courthouse Facility Needs Assessment within the project time frame. A proposed preliminary project schedule outlining the key phases is included in this section of the proposal.



Structural Engineering, Inc.

PROJECT TEAM
OFFICE LOCATIONS



**Architecture /
Interior Design**



SHARON L. CHAPMAN
President
Interior Designer

EDUCATION

University of Charleston, Carleton Varney Department of Art and Interior Design, BA, Interior Design, 1993

REGISTRATION

Allied Member, ASID

PROFESSIONAL HISTORY

July 1996 to Present: Chapman Technical Group
President and Interior Designer.

January 1991 to July 1996: Chapman Technical Group
Executive Vice President and Interior Designer.

20 years professional experience.

PROJECT EXPERIENCE

Space planning, interior design, material selections and furniture layouts for new and renovation projects including a courthouse annex, city hall renovations and other public buildings, private offices, commercial facilities, recreation facilities, industrial buildings, and residential properties. Also involved in building renovation feasibility studies and use analyses, and building facade renovation projects.

AWARDS

University of Charleston, Academic Achievement Award for Art and Design
Finalist, 1999 Entrepreneur of the Year Award
Finalist, 2000 Entrepreneur of the Year Award
St. Albans Renaissance Group, 2002 Business Person of the Year
Junior Achievement Chairman's Award, 2002-2003
St. Albans Renaissance Group, 2005 Appreciation Award
George Warren Fuller Award, 2005
Thomas Memorial Foundation Quiet Hero Award, 2009

AFFILIATIONS

Allied Member, American Society of Interior Designers
Rotary, St. Albans, West Virginia - Past President 2002-2003
Member, West Virginia Chamber of Commerce
Member, Charleston Area Alliance - Honorary Board Director
Member, Putnam County Chamber of Commerce
Member, St. Albans Chamber of Commerce
Member, Contractor's Association of West Virginia
Board of Directors, Thomas Memorial Hospital Foundation
AWWA West Virginia Section
Member, STARDA Board - St. Albans
BB&T Advisory Board, Putnam County
Board of Directors - Gabriel Project of West Virginia



DALE E. WITHROW, AIT
Project Coordinator, Department Manager
Architecture

EDUCATION

West Virginia Institute of Technology, AS, Drafting and Design, 1975.

PROFESSIONAL HISTORY

November 2000 to Present: Chapman Technical Group
Project Coordinator/Department Manager.

March 1993 to August 2000: The HDMR Group, Inc.
Project Coordinator.

February 1990 to March 1993: AFAB Services
Owner - Designer/Drafter.

Prior to 1990 Mr. Withrow worked with several architectural and engineering firms as an employee and independent consultant.

From 1978 to 1987 he was a Facilities Planner for the Kanawha County Board of Education.

Mr. Withrow is a Project Coordinator involved in all aspects of a wide variety of architectural projects. He is also Manager of the Architecture Group.

37 years professional experience.

PROJECT EXPERIENCE

Project Design and Management: Experience ranges from drafting, detailing and design through construction observation and project management of numerous building projects in West Virginia, Kentucky and North Carolina including:

- Residential/Housing
- Governmental Facilities
- Hospital/Healthcare Facilities
- Public School Facilities
- College Athletic Facilities
- Hotel/Hospitality Facilities
- Airport Support Facilities
- Historic Preservation
- Military Support Facilities/Armories
- Grocery and Drug Chain Stores
- Industrial Plant/Laboratory Facilities
- Office Buildings
- Banking Facilities
- Americans with Disabilities Act Assessment and Implementation
- Public Safety Facilities

AFFILIATIONS

Certified Architect-in-Training, State of Arizona
Associate Member WVAIA
President, St. Albans Business and Community Development Group
Vice Chair, Friends of the Alban Theatre
Board Member - St. Albans Chamber of Commerce
Chairman, St. Albans Blueprint Communities



PHILLIP A. WARNOCK, NCARB, AIA
Project Architect

EDUCATION

The University of Tennessee, BArch, 1995

REGISTRATION

Architect, West Virginia, 2003
Architect, Tennessee, 2002

PROFESSIONAL HISTORY

September 2003 to Present: Chapman Technical Group
Project Architect.

June 2002 to July 2003: ZMM
Architect.

June 1995 to May 2002: Lockwood Greene
Intern Architect.

August 1991 to July 1993: Omni Associates
Architectural Draftsman.

20 years professional experience with additional experience in construction, interior design and developing.

PROJECT EXPERIENCE

Project Participation and Design: Experience ranges from design, detailing and drafting through project management and construction administration of building projects in various states, including West Virginia, Tennessee, Kentucky and South Carolina. Project experience includes:

- Public School Facilities
- Community Centers
- Recreational Facilities
- Aviation Facilities
- Health Care/Hospice Facilities
- Medical and Psychiatric Clinics
- Pharmaceutical Facilities
- Research and Development Labs
- Office Buildings
- Rest Areas and Welcome Centers
- Historic Preservation
- Historic Renovation/Additions
- Adaptive Reuse
- Governmental Facilities
- Military Support Facilities/Armories
- Multi-Family Housing
- ADA Assessments
- HUD 811, 202 and ECHO Facilities
- Small Cities Block Grants
- Public Safety Facilities

AFFILIATIONS

National Council of Architectural Registration Boards (NCARB)
American Institute of Architects (AIA)

AWARDS

2008 AIA West Virginia Honor Award for Excellence in Architecture
For the historic preservation of the Upshur County Courthouse.

2010 AIA-West Virginia Merit Award for Achievement in Architecture
For the I-79 Rest Areas in Burnsville



W. THOMAS CLOER, III, AIA, NCARB
Project Architect

EDUCATION

University of Tennessee, BArch, 2001

REGISTRATION

NCARB Registered Architect, 2009
IDP Program completed.

**PROFESSIONAL
HISTORY**

October 2006 to Present: Chapman Technical Group
Project Architect and Architectural Designer

2001-2006: NVisions Architect
Architect Intern and Architectural Designer

10 years professional experience.

**PROJECT
EXPERIENCE**

Experience ranges from drafting, detailing and design through project management and construction administration of building projects throughout West Virginia including the following project types:

Public School Facilities
Government Facilities
Office Buildings
Medical Office Facilities
Single Family Housing
Multi-family Housing
Recreational Facilities
ADA Assessments
Site Planning

AFFILIATIONS

American Institute of Architects
City of St. Albans Property and Maintenance Board, Member
City of St. Albans Historic District Committee, Member
Boy Scouts of America Troop 250 Committee Member



DENNIS N. DUNCAN
CADD Technician

EDUCATION

Mountain CAD, April 1996
West Virginia State College, 1996
Putnam County Vocational School, 1991-1992

**PROFESSIONAL
HISTORY**

September 1997 to Present: Chapman Technical Group
Architectural Technician and CADD Designer.

June 1992 to August 1997: Connie Post Designs
CADD Designer.

19 years professional experience.

**PROJECT
EXPERIENCE**

Bridge and Highway: Responsible for CADD drafting on mainline and side road profiles, maintenance of traffic, signing and marking plans, intersection details, survey reference and control plans, typical roadway sections, stormline profiles, bridge sections and details.

Architectural/Structural: Responsible for CADD drafting on recreational and commercial floor plans, building cross sections and details, structural framing plans, foundation plans and details, and building renovations.

Water and Wastewater: Responsible for CADD drafting on treatment plants, improvements on existing and new facilities, stormwater plans and profiles, booster stations, meter vaults, water system updates for both public and private sectors, PRV plans and details.

Louis Krupnick AIA, LEED AP

Senior Project Manager



EDUCATION

University of Tennessee

Bachelor of Architecture

Roofing Industry Educational Institute

WORK EXPERIENCE

Swanke Hayden Connell Architects

Ewing Cole

HSMM, Inc.

Krupnick & Crosskey Architecture

**PROFESSIONAL QUALIFICATIONS
& AFFILIATIONS**

Registered Architect, State of Connecticut

LEED Accredited Professional

Washington Building Envelope Council

Lou Krupnick has extensive experience in the assessment, design and renovation of existing buildings for a broad variety of federal, state and municipal clients.

Mr. Krupnick has been responsible for the renovation / expansion / adaptation of more than 25 buildings for federal state and municipal clients. Many of these projects have been historic structures and have included the federal courthouses in Portland, Ashland and Medford, OR. His technical expertise includes building envelope design, roofing and forensic related matters. For the past two years he has also served as adjunct faculty at The Cooper Union, where he teaches classes in sustainable (green) renovation building practices.

Currently located in Swanke Hayden Connell's DC office, Krupnick has also worked on several building evaluations and renovation projects for the federal government, including the Cannon House Office Building, the John Adams Building for the Library of Congress and the Smithsonian Museum of Natural History. In addition, his team recently completed the ADA Master Plan for the District of Columbia which included the assessment, evaluation and development plans of 212 city owned buildings.

Lou is currently an active member of the National Institute of Building Science and serves on the Washington Building Envelope Council. His work has received numerous awards from the Commonwealth of Massachusetts Historical Commission and the State of Connecticut Historical Society for renovation projects; the American Institute of Architects for the design of adaptive re-use projects, and the United States Corps of Engineers for the design of new federal R&D facilities. In addition, Krupnick was recently awarded a patent for the design of a forced entry / blast-resistant window protective for new and existing construction applications.

Select Project Experience

C2CNT East R&D Center, Aberdeen Proving Ground, MD
500,000 sf, LEED Silver facility housing laboratory and administrative spaces for the U.S. Army

Louis Krupnick

C4ISR Campus, Master Plan Aberdeen Proving Ground, MD

Design 2nd planning services for 2 new, walkable, sustainably oriented federal research campuses. Project included the site and masterplanning required for 7,500 employees located in 14 buildings representing 3.5 M sq. ft. of construction on 350 acres.

Architect of the Capitol/ Library of Congress, Copyright Deposit Facility, Fort Meade, MD

70,000 sf, LEED Silver, archival class environment to store copyrighted materials for up to 150 years.

Atlantic General Hospital Master Plan, Berlin, MD

Five- and ten-year master plan for a 100-bed community hospital

District of Columbia ADA Master Plan

Assessment and evaluation of 212 municipal owned structures

Naval Test Pilot School, Hangar 110, Patuxent River Naval Air Station, Patuxent River, MD

Renovation and restoration of historic seaplane hangar.

Smithsonian Institutions, National Museum of Natural History, Washington, DC

Consolidation of multiple off-site museum archival laboratories and design of new DNA research laboratories into the Museum of Natural History

Architect of the Capitol/Library of Congress, John Adams Building, Washington, DC

Assorted repair and renovation projects within this 300,000 sf historic facility, originally constructed in 1928

HJ Heinz Corporation, North Side Campus, Pittsburgh, PA

Complete gut rehabilitation, facade restoration, and roof and window replacement for five historic, multi-story brick buildings totaling 800,000 sf. Campus designed by architect Albert Kahn

The Brownstone, Hartford, CT

Complete gut rehabilitation and restoration for this five-story, 100,000 sf facility. Exterior restoration work included facade stabilization and restoration of the building's 24" thick brownstone facade, along with window and roof replacement

St. Thomas Aquinas College, Sparkill, NY

New, two-story classroom building and addition to existing gymnasium.

State of Connecticut - DOT District III Headquarters

Complete renovation of existing buildings and conversion into offices and operations center, 60,000 sq. ft.

Awards and Honors

Commander's Coin - US Army Corps of Engineers

2008 for design of new C4ISR Campus, Aberdeen Proving Ground, MD

AIA Merit Award

2004 for PNC Bank 'Techworks', Pittsburgh, PA

Master Builders Award

2000 for St. Thomas Aquinas College, Sparkill, NY

Commonwealth of Massachusetts Historical Society

1994 for Renovation of Tapley School

State of Connecticut Historical Commission

1993 for Linus Plimpton House Renovation

AIA Honor Award

1978 for Mary Vestal Park, Knoxville, TN

Publications

"New Directions in SCIF Design"

The Military Engineer, 2010

"New Directions in Federal R&D Facility Design"

C4ISR Magazine, 2009

PEOPLE

 **Louis Krupnick**

Lectures

2007 - From Gray Areas to Green Areas Symposium

"Developing Sustainable Practices in Preservation Environments"

2008 - GSA National BIM Conference

"Lessons Learned"

2010 - DesignDC

"Collaborative Work Place Design using Task Based Metrics"

2010 - Cooper Union School of Architecture

"Sustainable Building Renovation"

PEOPLE

Becky Button

MTA Metro-North Headquarters, White Plains and NY, NY
97,000 total sq. ft. relocation and interior fit out; anticipated LEED CI rating.

New York Presbyterian Hospital, Morgan Stanley Children's Hospital of New York (MS-CHONY) New York, NY
14,000 sq. ft. Pediatric Cardiology Suite Renovation and Expansion Hybrid Operating Room / Catheterization Lab

130 East 59th Street, New York, NY
300,000 sq. ft. Interior fit out for large NY non-profit organization

Amhest Securities Group, McLean, VA
4,000 sq. ft. full interior design services

University/Financial Institution Collaboration, Upstate NY
programming and interior design for new university technology center; anticipated LEED Platinum rating.

Macy's Merchandising Group, New York, NY
690,000 sq. ft. restack and new office interior fit out

Fidelity Investments - Midtown, New York, NY
20,000 sq. ft. Programming and Interior Fit-Out

Royal Bank of Canada, New York, NY
250,000 sq. ft. Programming & Interior Fit-out

JPMorganChasePartners, New York, NY
25,000 sq. ft. Headquarters, Interior Fit-Out

Le Tigre, New York, NY
10,000 sq. ft. Full Interior design services Showroom, design studio & offices

Davidson Kempner, New York, NY
35,000 sq. ft. New Corporate Headquarters for NY Hedge Fund. Full interior design scope and day 2 reconfiguration services

JPMorganChase, New York, NY
330,000 sq. ft. Interior Fit Out

Fidelity Investments, New York, NY
260,000 sq. ft. Interior fit out, financial institution

Planned Parenthood, New York, NY
100,000 sq. ft. Interior fit out, non-profit group headquarters

The Blackstone Group, New York, NY
50,000 sq. ft. Interior renovation, financial institution

L'Oreal USA, New York, NY
Comprehensive space analysis for 400,000 sq. ft. headquarter relocation

Mason Tenders Local 79 District Offices, New York, NY
60,000 sq. ft. Interior fit out, union headquarters

Booz Allen & Hamilton, New York, NY
100,000 sq. ft. Interior fit out, management consulting firm

JP Morgan Chase, New York, NY
150,000 sq. ft. Interior Fit out, financial institution

New York Life, New York, NY
Executive dining facilities in NY headquarters, insurance company

Milbank Tweed Hadley & McCloy, LLP, New York, NY
34,000 sq. ft. Law Firm - total new design and construction

Meredith, New York, NY
300,000 sq. ft. workplace strategy

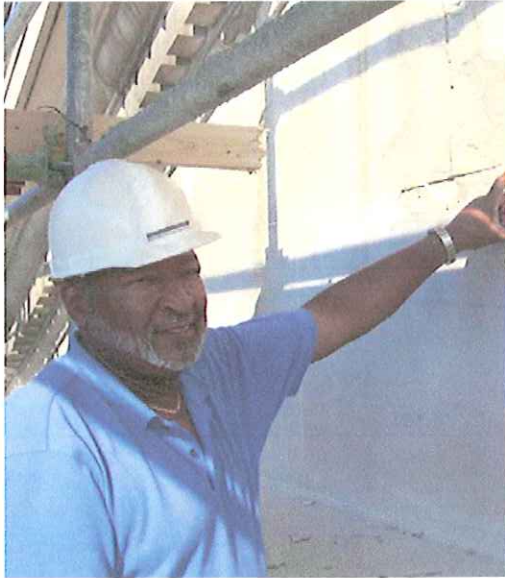
Lazard Freres, New York, NY
430,000 sq. ft. full interior design services

BlackRock Headquarters, New York, NY
150,000 sq. ft. Interior Fit-Out: trading floor, general office, executive suite and conference center

Skanska New York Headquarters, New York NY
25,000 sq. ft. headquarters, programming and interior design, anticipated LEED Platinum

John Yarborough

Senior Project Architect



John has played a key role in each of the Washington, DC office's major commissions over the past 10 years.

John has extensive experience in renovation and new construction projects on both small and large scales and for a variety of client types. He has demonstrated his dedication to design quality and strong project delivery on such projects as the modernization of the Internal Revenue Service Headquarters Building, the roof and facade restoration of the Old Post Office Building, and the Ronald Reagan Federal Building. He has also demonstrated this level of commitment in work for municipalities such as the District of Columbia, the City of Alexandria, VA, and the City of Gaithersburg, MD.

EDUCATION

Howard University

Bachelor of Architecture

WORK EXPERIENCE

Swanke Hayden Connell Architects

Obrien Travis Jaccard, Washington, DC

Goddard Space Flight Center, Temporary Contractor, Greenbelt, MD

Select Project Experience

City of Alexandria, Alexandria, VA

IDIQ contract for various projects involving a broad range of strategic planning design, peer review, site analysis for municipal public safety, education, housing and government offices.

DC Public Schools Assessments

Full architectural and mechanical assessments carried out in 7 weeks with 5 teams each with 5 people - 36 schools assessed totaling 4.8 mil. sq. ft..

US Department of State, Overseas Building Operations, Worldwide

Five-year, \$40 million IDIQ contract to provide planning and design services for renovation and new construction projects at US embassy posts worldwide.

Internal Revenue Service Headquarters, Washington, DC

Master planning and design of comprehensive phased, five-year, \$50 million modernization of a fully occupied 1.4 million sq ft building

PEOPLE

John Yarborough

Ronald Reagan Building, Federal Triangle, Washington, DC

Technical Coordinator for the last building to be built on the Capitol Mall in Washington, D.C., the 3.1 million-square-foot building was designed to complement and complete the concentration of government offices known as The Federal Triangle, a 70-acre land wedge between Pennsylvania and Constitution Avenues. The program includes exhibition areas, a retail concourse, and a 600-seat auditorium and offices. Responsibilities included the preparation and coordination of construction documents.

District of Columbia Fire & EMS Department, Washington, DC

\$5 million, five-year IDIQ multi-task contract for the design and construction of new state-of-the-art facilities and the renovation/rehabilitation of existing structures, some of which are designated Historic Landmarks.

US Department of Veterans Affairs, Washington, DC

\$4.5 million, five-year IDIQ contract for infrastructure upgrades, new construction, and renovation projects at the VA Medical Center in Washington, DC

International Monetary Fund, Washington, DC

Under a multi-year term contract responsibilities included planning and renovation of 1,500,000 sq ft of space to accommodate twenty separate and distinct divisions in three separate buildings – a headquarters building and two leased facilities

Department of Energy Forrestal Building, Washington, DC

Multiple interior renovations of three food-service facilities throughout the building under a design/build contract with GSA

Old Post Office Building, Washington, DC

Design/Build \$5 million restoration of this National Historic Landmark structure; work included restoration of the stone facade, slates roof, copper flashing and the regasketing of the main skylight

Jane Goodall Institute, Arlington, VA

Feasibility study, interior space planning and design in The Nature Conservancy (TNC) Building, 10,700 sq ft

St. Paul's Parish, Washington, DC

Facilities master plan, architecture, interior design and restoration for a 30,000 sq. ft. grouping of 4 existing properties to support the secular activities of the Church

Air Force Sergeants Association Headquarters, Landover, MD

Design of 3 story, 50,000 sq ft office building including general office space and conferencing facilities.

Gum Springs Community Center, Day Care/Adult Education/Gymnasium, Alexandria, VA

Project Manager for the design of a 54,000sf day care center, adult education facility with classrooms and arts & crafts studios and a gymnasium. The project also included the development of a 5.4 acre landscaped field that included a football field, a baseball field and a bicycle/jogging path.

Maryland School for the Deaf, Columbia, MD

Job Captain & Master Planner for 28,000 sf, one story classroom building for hearing impaired elementary school students.

Bachelors Officers Quarters, Patuxant Naval Air Station, MD

Design of 100 units of housing following the military design and construction guidelines for standardized housing.

Trident Training Facility, Bangor, Washington

1.5 million sq.ft. facility that included classrooms, laboratories, recreational spaces and a training tank to accommodate a submarine and underwater diving operations.

National Military Command Center, The Pentagon

Secure installation, which includes the war room and all supporting offices and back up facilities.

Goddard Space Flight Center, Greenbelt, MD

Facilities design and management for the multi- building campus including training rooms, classrooms, conference center, laboratories and support spaces.

Becky Button, NCIDQ, IIDA, LEED AP

Interior Design Director



EDUCATION

New York School of Interior Design, NY, NY
Bachelor of Fine Arts - First in Class
State University of New York at New Paltz
Bachelor of Science, Dance
Fine Arts Minor - Graduated Cum Laude

WORK EXPERIENCE

Swanke Hayden Connell Architects, NY, NY
The Phillips Group, New York, NY
SBG Design Inc., New York, NY

PROFESSIONAL QUALIFICATIONS & AFFILIATIONS

Member, International Interior Design Association
National Council for Interior Design Qualification
Certification

Becky joined SHCA in 2001 and has been a driving force for design excellence ever since. She has built a reputation for strategic, big picture thinking combined with a creative attention to detail. Her enthusiasm and passion for what she does make her invaluable to the firm and highly regarded by clients and consultants.

From strategic planning & site search through design and construction, Becky expertly helps clients through all phases of the design process. Some of her recent major projects include 800,000 sq. ft. for Moody's Corporation, 300,000 sq. ft. for Fidelity Investments and 130,000 sq. ft. for Blackrock.

Becky is NCIDQ certified, an active member of IIDA, and LEED AP. She earned her Bachelor of Science from the State University of New York at New Paltz and her BFA from the New York School of Interior Design, where she is also holds a faculty position.

Select Project Experience

Holly Grove Mansion, Charleston, WV

Interior and exterior evaluation and restoration of historic 1815 mansion including infrastructure upgrades, facade restoration, ADA compliance & recommendations for historically accurate furniture & finishes.

Nassau County Public Safety Center, Long Island, NY

New 300,000 sq. ft. police/fire facility

NYC Public Safety Answering Center, Brooklyn, NY

100,000 square feet interior fit out

Moody's Corporation, New York, NY

800,000 sf. Headquarters, Full Interior Design Fit -Out and Programming

Historic Preservation

Elizabeth Moss, LEED AP

Director of Historic Preservation



EDUCATION

University of Pennsylvania

Master of Science, Historic Preservation

McCrone Research Institute; Microscopy for Art

Conservators, Institute of Fine Arts, New York, NY

Vassar College

Bachelor of Arts, Latin

WORK EXPERIENCE

Swanke Hayden Connell Architects

SUPERSTRUCTURES Engineers + Architects,

Jablonski Berkowitz Conservation

ECR Antiques Conservation & Restoration

PROFESSIONAL QUALIFICATIONS & AFFILIATIONS

Association for Preservation Technology Northeast Chapter,

Board of Directors

US/ICOMOS, Brick Masonry and Ceramics Committee

U.S. Green Building Council,

LEED® Accredited Professional

New York City DOB Scaffold Training Certification

JOS Microabrasion Cleaning System Training and

Manufacturer Certification

Asbestos Awareness Training, Environmental

Management Solutions

Ms. Moss is an architectural conservator, specializing in historic materials investigation and evaluation.

Since 1996, she has used her technical abilities on historic buildings primarily in the Eastern United States. Ms. Moss is experienced in historic archaic materials investigation and the subsequent preparation of conservation studies, historic structure reports, specifications, construction documents, and construction administration. Her technical training and research abilities enable her to perform detailed hands-on field surveys and investigations as well as in-house laboratory research.

Select Project Experience

West Virginia State Capitol, Charleston, WV

\$12 million restoration of 1932 Cass Gilbert landmark building, including a gilding & coating testing program, masonry cleaning testing, mortar characterization and chandelier conservation.

First Presbyterian Church, Charleston, WV

Subsequent to initial Conditions Assessment Report, \$2.8 million exterior restoration of historic 1915 church including restoration of stained glass windows, limestone & terra cotta façade, cupola and roofing replacement.

Holly Grove Mansion, Charleston, WV

Interior and exterior evaluation and restoration of historic 1815 mansion including infrastructure upgrades, facade restoration & ADA compliance. Project subject to WV SHPO review.

New York Life Insurance Building, 346 Broadway, NY, NY

Conservation evaluation of disintegrating Tuckahoe marble façade and mortar characterization as part of restoration of 1899 McKim, Meade and White landmark.

Manhattan Criminal Courts, 100 Centre Street, New York, NY

Masonry evaluation and materials testing for facade restoration of 1940 municipal building.

Surrogate's Court Building, 31 Chambers St., New York, NY

Facade restoration of 1899 Beaux Arts landmark; 2nd floor rehabilitation, building systems upgrade, tenant improvements.

Elizabeth Moss

Internal Revenue Service Headquarters, Washington, DC
Comprehensive materials investigation and testing program to prepare prescriptive technical specifications as part of the restoration of a 1.4 million SF Beaux Arts federal office building.

West Point U.S. Military Academy, West Point, NY
Exterior conditions assessment of over 300 historic 19th and 20th C. homes to determine scope and cost for building envelope stabilization / rehabilitation.

National Society Daughter's of the American Revolution, Washington, DC
Master Plan, Facilities Assessment and subsequent rehabilitation of the 500,000 sf, 3-building complex which includes a concert hall, museum and office building headquarters.

Colonels Row, Governors Island, New York, NY
Conditions assessment and exterior envelope stabilization of ten late 19th - early 20th century, wood, brick and slate houses.

Hamilton Avenue School, Greenwich, CT
Exterior envelope restoration of 1932 school and new addition.

Liberty Theatre/Famous Daves, 234 West 42nd St., NY, NY
Preparation of Preservation Plan and oversight of restoration of historic 1904 theatre auditorium for adaptive restaurant use.

Empire, Liberty and Harris Theatres, 42nd Street, NY, NY
Exterior materials investigation and testing program of three c. 1905 landmarked theaters.

Burke Rehabilitation Center, White Plains, NY
Exterior Conditions Assessment reports of historic tile roofs, terra cotta and stone facades, windows and ornamental metal at the 1912 McKim, Meade and White Complex.

Columbia University Off-campus Properties, Morningside Heights, New York, NY
Roofing assessment and exterior rehabilitation of over 100 on- and off-campus historic c. 1900 residential buildings for Columbia University Facilities.

U.S. Post Office, 90 Church Street, New York, NY
Main lobby historic paint color investigation for restoration of 800,000 SF 1930's post office and federal office building.

PS 157, Brooklyn, NY
\$12.5 million facade restoration of historic 1907 public school that included the fabrication of over 6,000 new terra cotta units, & underlying structural steel repairs; Exterior maintenance manual.

Postal Telegraph Building, 253-256 Broadway, New York, NY
Materials investigation, site survey and probe investigation of two interconnected 1894 municipal buildings as part of a comprehensive facade and window restoration project.

Local Law 11 Critical Examination Reports, New York, NY
Facade evaluation of eleven landmark municipal buildings around Foley Square and City Hall Park in Manhattan.

FDNY Manhattan Communication Office, New York, NY
Materials investigation and preservation specifications for the rehabilitation of four 1912 - 1923 historic fire alarm buildings.

1130 Fifth Avenue, New York, NY
Restoration of landmarked 1913 residence. Stone and brick restoration, window replacement and slate roof replacement.

St. Johns University, Queens, NY
Conditions assessments and exterior repairs and cleaning of five circa 1950 buildings around the main campus quadrangle.

St. Ann and the Holy Trinity Church, Brooklyn, NY
Roof assessment and selective restoration of 1848 landmark.

Church of Saint Mary-in-the-Highlands, Cold Spring, NY
Conditions assessment and subsequent building addition and infrastructure upgrades.

Church of the Ascension, Washington, DC
Analysis, exposure and documentation of historic interior paint color and finishes of this 1870s landmark church.

Elizabeth Moss

Peter Cooper Village / Stuyvesant Town, New York NY

Various projects including selective façade rehabilitation and cleaning at c. 1947-1948 72 acre residential complex.

Jersey City Medical Center, Jersey City, NJ

Facade evaluation of 1,200,000 sq. ft. 1930s medical center.

Bell House Group, Bethlehem, PA

Historic paint color and finishes investigation / documentation of interior elements of this mid-eighteen century group of historic landmark houses to assist in the interpretation of the early development of the complex as part of the HSR.

Seth Marvin House, Camp Laguardia, Chester, NY

Historic paint color finishes investigation and mortar characterization used as a tool to determine the relative age and finish color history of the original frame portion and 1780s addition of this 18th century historic landmark, one of the earliest surviving houses in Orange County, New York.

Boykin's Tavern, Isle of Wight, VA

Historic paint color finishes investigation and documentation of interior and exterior elements of this late 18th century / early 19th century National Register landmark.

Lefferts' Homestead, Brooklyn, NY

Historic paint color and finishes investigation / documentation of exterior and interior elements of this early 19th century National Register and New York City historic landmark

24 Fifth Avenue, New York, NY

Restoration of scagliola, marble, travertine, wood, ornamental metal and decorative finishes for this 420 unit, 18 story c. 1926 apartment building.

SUNY Farmingdale, NY

Conditions assessment documentation and subsequent exterior rehabilitation of 8 historic buildings on the campus.

132-140 Greene Street, New York, NY

Comprehensive rehabilitation of three six-story cast-iron facades, including window replacement.

Awards and Honors

New York Landmarks Conservancy, Lucy G. Moses Preservation Award for 2011

Surrogate's Court/Hall of Records 31 Chambers Street

SARA NY Design Award of Merit 2011

Surrogate's Court/Hall of Records 31 Chambers Street

Preservation League of New York State Preservation Awards

2001 to NYC DDC for Public School 157

New York Landmarks Conservancy, Lucy G. Moses Award

2001 for Public School 157

Samuel H. Kress Fellowship

1994, 1996, 2001 field seasons at Caesarea, Israel

Samuel H. Kress Fellowship

1997 field season at Catalhoyuk, Turkey

Lectures

"The Use of Contemporary Painted Coatings in the Restoration of Exterior Architectural Elements at the West Virginia State Capitol"

PACE (Paint and Coating Expo) 2010 Conference, Phoenix, AZ, February 7-10, 2010

"The West Virginia State Capitol Dome: Lessons Learned from a Failing Finish"

PACE (Paint and Coating Expo) 2007 Conference, Dallas, TX., February 11-14, 2007

"Notwithstanding the Test of Time - The Dilemma of the New York City Public School System"

Association for Preservation Technology, National Conference, October 2001

"Effects of Hydrofluoric Acid-Based Cleaners on Unglazed Terra Cotta"

US/ICOMOS Brick Masonry and Ceramics Committee representative through Samuel H. Kress Fellowship; 5th International Colloquium, Esslingen, Germany, 1999

PEOPLE

Nancy M. Wilks, AIA, LEED AP

Historic Preservation Architect



EDUCATION

Columbia University, Graduate School of
Architecture, Planning and Preservation
Master of Architecture

University of Michigan, School of Architecture and
Urban Planning
Bachelor of Science

WORK EXPERIENCE

Swanke Hayden Connell Architects

Nancy B. Holwell, Architect

Architecture + Furniture

Historic American Building Survey (HABS),

National Park Service, US Dept. of Interior

Skidmore Owings & Merrill

PROFESSIONAL QUALIFICATIONS & AFFILIATIONS

Registered Architect; State of New York, 1996

U.S. Green Building Council, LEED® Accredited

Professional

The Association for Preservation Technology, Northeast

The Historic Districts Council

The New York Landmarks Conservancy

Board of Trustees (1997-2006) Park Slope United Methodist

Church

Past President and Treasurer

Board of Directors (1998-2000) Center for Anti-Violence

Education

Nancy Wilks has more than twenty years of experience in the field of architecture and historic preservation.

Her work has included the administration of numerous corporate facilities as well as a concentration in historic structures. Ms. Wilks was an integral part of the team that created the Merritt Parkway Historic Bridges plan, is one of the primary architects for the DDC Health Unit Requirements, the DCAS Requirements, and is the project manager of the Liberty Theatre restoration and adaptive re-use.

Select Project Experience

RS Means Co. Publishers, "Historic Preservation - Project Planning & Estimating"

Contributing author of 700+ page technical book on planning and cost estimating for historic preservation projects

Manhattan Criminal Courts, 100 Centre Street, New York, NY

Facade restoration of 1940 Moderne municipal building

Court Square Building, 2 Lafayette Street, New York, NY

Facade restoration of 1932 municipal building

Surrogate's Court Building, 31 Chambers Street, New York, NY

Masonry deterioration analysis, slate matching, and mortar characterization as part of facade restoration of 1906 Beaux Arts landmark; 2nd floor ornamental metal evaluation and paint analysis for second floor restoration

14 Penn Plaza, New York, NY

Renovation of historic Gothic Revival marble and plaster lobby; complete with a new lighting scheme and decorative ceiling finishes. Originally known as the Pennsylvania Building, was one of the initial high-rises built in New York's Garment District after Pennsylvania station was put into commission.

PEOPLE

Nancy M. Wilks

Mercantil CommerceBank, New York, NY

Conditions assessment reports and subsequent \$1.7 million exterior restoration, roof replacement and computer room relocation at a 1906 landmarked townhouse in midtown Manhattan.

Nassau County Community College, Garden City, NY

Conditions assessment and evaluation of design & construction defects for rehabilitation of c. 1990 college building facades

Park Slope United Methodist Church, Brooklyn NY

Project planning & capital campaign for exterior restoration and interior rehabilitation

Liberty Theatre, 234 West 42nd Street, New York, NY

Restoration of historic 1904 theatre auditorium for adaptive re-use as a restaurant

DDCNY Health Unit Requirements Contract, Multiple Boroughs, NY

750,000 sq. ft. throughout 10 projects under contract

- Kenton Hotel (Shelter)
- Clarke Thomas (Shelter)
- Bedford District Health Center
- Astoria District Health Center
- Power Building (Shelter)

NYC Fire Department Communication Centers: Boroughs of Manhattan, Brooklyn, Bronx, Queens, and Staten Island, NY

Infrastructure replacement, tenant improvements and building restoration

NYC Fire Department EMS Stations, New York, NY

New design of emergency medical service stations
Renovation of Engine Co. 258, Long Island City, NY
Infrastructure replacement, tenant improvements and facade restoration of landmark station house

NYC Public Schools, PS 112, PS 157, Fort Hamilton High School, Brooklyn NY

Facade restoration of landmark quality public schools

The Candler Building, New York, NY

Base building renovation and exterior restoration of landmark quality, terra cotta clad skyscraper

Merritt Parkway Bridges, CT

Conservation and restoration plan of 65 historic Art Deco and Art Moderne bridges (National Register of Historic Places)

Port Authority of NY & NJ

World Trade Center base building renovation, ADA access

Brown Brothers Harriman & Co.

400,000 sq. ft. corporate headquarters

Westchester County Medical Center, NY

Renovation of medical facilities

Fenway Golf Club, Scarsdale, NY

Renovation of main clubhouse, ADA access

McBurney YMCA, New York, NY

Renovation and design of all spaces including pool, gymnasium, lockers, residential rooms and public spaces of landmark quality structure

Westside YMCA, New York, NY

Renovation of the boys' and girls' locker rooms

Harlem YMCA, New York, NY

Renovation of main lobby, locker rooms, and fitness facilities

Private Residence, Stockbridge, MA

New design of 15,000 sq.ft. residence

Swanke Hayden Connell Architects, New York, NY

Office interiors at Puck Building (NYC Historic landmark)

Newman Residence, New York, NY

Renovation of 19th Century historic townhouse

Sleeping Bear Dunes National Lakeshore (NPS)

Historic American Building Survey (HABS) documentation of 19th Century historic structures

PEOPLE

Nancy M. Wilks

161 Reade Street, New York, NY

Townhouse renovation

Victor Costa Showroom, New York, NY

Interior renovation

Reliance National Trust Offices, New York, NY

Office interiors

The Lenox School, New York, NY

Interior and exterior renovation of private school

461 Fifth Avenue, New York, NY

New design of 25-story commercial office building

Publications

Historic Preservation - Project Planning & Estimating; RS

Means Co. Publishers, c. 2000

Co-author of 600-page hardcover technical volume

Construction Specifier Magazine, June 2000

Co-author "Wall and Ceiling Finishes: Plaster Restoration Challenges"

Paper presentation at national conference, April 2000

Preserving the Historic Road in America "Merritt Parkway Bridges: Conservation and Restoration Plan".

Awards and Honors

New York Landmarks Conservancy, Lucy G. Moses

Preservation Award for 2011

Surrogate's Court/Hall of Records 31 Chambers Street

SARA NY Design Award of Merit 2011

Surrogate's Court/Hall of Records 31 Chambers Street

Preservation League of New York State Preservation

Awards

2001 to NYC DDC for Public School 157

New York Landmarks Conservancy, Lucy G. Moses Award

2001 for Public School 157

Crystal S. Gosine, Associate AIA, LEED AP

Job Captain - Historic Preservation



EDUCATION

The City College of New York

Bachelor of Architecture with Honors:

Cum Laude

Bachelor of Science

WORK EXPERIENCE

Swanke Hayden Connell Architects

Zaskorski & Notaro Architects

**PROFESSIONAL QUALIFICATIONS
& AFFILIATIONS**

U.S. Green Building Council

LEED® Accredited Professional

New York City Department of Buildings Scaffold

Training Certification:

Suspended and Supported Frames

The American Institute of Architects,

Associate Member

Crystal Gosine is a highly motivated, well organized and responsible project leader. With her formal education in architecture and her professional experience primarily in the rehabilitation of existing commercial and residential buildings, Ms. Gosine is experienced in all phases of the design and construction process.

Ms. Gosine is an expert in the technical assessment and code evaluation of existing structures. Throughout her career she has used her training primarily to perform conditions documentation and detailed inspections including investigative probes. Following on this knowledge base she is experienced in preparing prescriptive construction documents and specifications as well as performing construction administrative services. Crystal is responsible for maintaining SHCA's proprietary, boilerplate historic preservation construction details and specifications.

Her well rounded background, with a strong technical emphasis, makes her a valued team member who effectively interacts with all project aspects, both in-house and consultant-driven. She has participated in rehabilitation projects for numerous recognized historic residential structures, including the award-winning façade restoration of the Cass Gilbert-designed Rodin Studio apartments at 200 West 57th Street in New York City. At SHCA, her diligent work, from the project's inception to its close-out demonstrate her dedication and attention to detail.

Select Project Experience

Manhattan Criminal Courts, 100 Centre Street, New York, NY
Façade restoration of the 1940 Indiana limestone Moderne municipal building

Surrogate's Court Building, 31 Chambers St., New York, NY
Comprehensive façade restoration of 1906 Beaux Arts landmark, including granite restoration, slate roof and ornamental copper repairs

Crystal S. Gosine

New York Life Insurance Building, 346 Broadway, New York, NY

Assessment and rehabilitation of deteriorated brick, terra cotta and disintegrating Tuckahoe marble chimney and parapet elements as part of an on-going restoration of 1899 McKim, Meade and White landmark

132-140 Greene Street, New York, NY

Assessment and repair of exterior cast iron, masonry, lintel repairs, flashings, fire escapes and selective replication of missing façade elements. The three six-story cast iron Renaissance Revival Style buildings, built in 1885 by Alfred Zucker, are located within the SoHo Cast Iron Historic District

14 Penn Plaza, New York, NY

Renovation of historic Gothic Revival marble and plaster lobby; complete with a new lighting scheme and decorative ceiling finishes. Originally known as the Pennsylvania Building, was one of the initial high-rises built in New York's Garment District after Pennsylvania station was put into commission.

Mercantil CommerceBank, New York, NY – Conditions assessment reports and subsequent \$1.7 million exterior restoration, roof replacement and computer room relocation at a 1906 landmarked townhouse in midtown Manhattan.

Columbia University Off-campus Properties, Morningside Heights, New York, NY

Roofing assessment and exterior rehabilitation of over 100 on-campus and on- and off-campus historic c. 1900 residential buildings for Columbia University Facilities.

Forts Wainwright & Greely, Fairbanks, Alaska

Master plan for the 4,473 acre Main Post of historic Army Base; Conditions assessment & designs for rehabilitation of 321 historic and non-historic housing units; New designs for 542 units of new housing & community facilities

Fort Huachuca, Sierra Vista, AZ

Conditions assessment & designs for restoration & modernization of 60 historic housing units and rehabilitation of 536 non-historic housing units at this 131 year old Army Base

Colonels Row, Governor's Island, New York, NY

Exterior envelope stabilization of ten early 20th century wood, brick and slate military residences

Liberty Theatre/Famous Daves, 234 West 42nd Street, New York, NY

Restoration of historic 1904 theatre auditorium for adaptive re-use as a restaurant located near Times Square

Rodin Studio, 200 West 57th Street, New York, NY

Award-winning façade restoration of the polychromatic rough brick, cast iron and terra cotta trim for the 1917 Cass Gilbert-designed French Gothic style 14-story apartment building

The Gershwin Hotel, 27 East 27th Street, New York, NY

Facade Restoration

High-Rise Residential Community, Hoboken, NJ

Property Conditions Assessment Report

Awards and Honors

New York Landmarks Conservancy, Lucy G. Moses Award 2008

200 West 57th Street, New York, NY

Lectures

"The Restoration of Cast Iron Facades in the Historic SoHo District"

PACE (Paint and Coating Expo) 2010 Conference, Phoenix, AZ, February 7-10, 2010

"2009 Legacy Event",

American Institute of Architects Committee on Architecture for Education 2009 Fall Conference, New York, NY, October 23, 2009

Publications

Durability + Design, August 2010

"Gilded Age Gems: Restoring Victorian Grandeur in SoHo's Historic Cast Iron District," article by Crystal S. Gosine

PEOPLE

Kevin Finn

Job Captain - Historic Preservation



EDUCATION

Columbia University

Master of Architecture

University of Virginia

Bachelor of Architecture

WORK EXPERIENCE

Swanke Hayden Connell Architects

Stephen Tilly, Architect

Rivken/Weisman Architects

Steven Miller Siegel Architects

A+I Design Corporation

GF55 Architects

PROFESSIONAL QUALIFICATIONS & AFFILIATIONS

New York City DOB Scaffold Training Certification

Combining his formal education in architecture with his professional experience in the rehabilitation of existing commercial and residential buildings, Mr. Finn is experienced in all phase of the design and construction process.

He has participated in rehabilitation projects for numerous recognized historic residential structures and led SHCA's survey team for the evaluation of over 300 historic homes at the West Point U.S. Military Academy.

Select Project Experience

Holly Grove Mansion, Charleston, WV

Interior and exterior evaluation and restoration of historic 1815 mansion

Manhattan Criminal Courts, 100 Centre Street, New York, NY

Building envelope rehabilitation, NYC LL 11 Report, facade restoration, bird control and masonry cleaning of landmark 17-story 1940 building

Colonels Row, Governors Island, New York, NY

Exterior envelope stabilization of ten early 20th century, wood, brick and slate military residences.

Nassau Community College, College Center/Classroom Bldgs., Westbury, NY

Conditions assessment & evaluation of design & construction defects for rehabilitation of c. 1990 college building facades.

Astoria Health Center, Queens, NY

Exterior envelope rehabilitation of c. 1910 public health center

Bedford District Health Center, Brooklyn, NY

Exterior envelope rehabilitation of c. 1910 public health center

PEOPLE

Kevin Finn

Kenton Hotel, New York, NY

Exterior envelope rehabilitation of c. 1890 homeless shelter

New York State Office Building, 80 Centre Street, NY, NY

Facade restoration of 1935 Moderne municipal building

Postal Telegraph Building, 253-256 Broadway, New York, NY

Masonry cleaning testing, masonry evaluation, mortar characterization, window paint color investigation of two interconnected 1894 municipal buildings as part of façade and window restoration.

Bartow-Pell Mansion, Bronx, NY

Design and construction documents for new ADA-compliant ramps to provide access to the interiors of an 1836 historic house for persons with disabilities.

132-140 Greene Street, New York, NY

Assessment and repair of exterior cast iron, masonry, lintel repairs, flashings, fire escapes and selective replication of missing façade elements. The three six-story cast iron Renaissance Revival Style buildings, built in 1885 by Alfred Zucker, are located within the SoHo Cast Iron Historic District

West Point U.S. Military Academy, West Point, NY

Exterior conditions assessment of over 300 historic 19th and 20th C. homes to determine scope and cost for building envelope stabilization / rehabilitation

The Harlem 1 Men's Residence, New York, NY

Exterior rehabilitation and new ADA entrance ramps for 42,000 sq. ft. residential structure relocated in Harlem

Lyndhurst Mansion, Tarrytown, NY

Exterior roofing rehabilitation and interior restoration of historic 1838 Gothic Revival Mansion designed by AJ Davis.

Lovat- Carlson Gannett Residence, Hastings-on-Hudson, NY

Wood trim, new roof, limestone repair, cleaning and replication of missing elements for 1855 historic mansion

O'Dell House, Greenburgh, NY

Comprehensive restoration of historic wood-framed, revolutionary war-era structure originally constructed in stages from 18th and 19th century and owned by Sons of American Revolution

Hudson River Residence, Cornwall on Hudson, NY

Exterior restoration with new roof and porch of historic 1840 private residence

Calvert Vaux Residence, Newburgh, NY

Comprehensive restoration of original trim and detailing of 1840 residence designed by Calvert Vaux

Historic Residence, Hastings-on-Hudson, NY

Research, drawings, and specifications for the restoration of nineteenth-century limestone residence

Stuyvesant Town, New York, NY

New storefront upgrades and cellar egress improvements to 1948 residential complex

Bank of America, New York, NY

Design, detail, and construction administration of high-end corporate interior project

Awards & Honors

Progressive Architecture Award, 2002

Chicago Public Schools National Design Competition

first place

Columbia GSAP Exhibition for National Architectural Accreditation Board

Participant

Historian

GERALD M. KUNCIO

Project Assignment: Cultural Resources

Education:

University of Delaware: M.A./ 1993/American History
Duquesne University: B.A./1982/ American History



Years with Skelly and Loy, Inc.: 13

Total Years Professional Experience: 23

Mr. Kuncio is the Senior Historian of Skelly and Loy's Cultural Resources Service Group. He has more than 20 years of experience in historic research; National Register of Historic Places (NRHP), National Historic Landmarks, and historic context preparation; NRHP eligibility evaluations and effect determinations; Historic American Engineering Record (HAER) documentation; and museum interpretation. He has been Project Manager or Principal Investigator on Cultural Resource Management (CRM) projects in West Virginia, Maryland, Pennsylvania, Delaware, and New York. Mr. Kuncio has worked throughout the state of West Virginia since joining Skelly and Loy in 1998. His qualifications exceed the Secretary of Interior's Standards and Guidelines for historian and architectural historian under 36 CFR 61.

Reconnaissance Level Architectural History Surveys, Pendleton and Pocahontas Counties, WV. Client: West Virginia Division of Culture and History. Mr. Kuncio is Project Manager of the surveys, which will result in the completion of 750 West Virginia Historic Property Inventory (HPI) forms for resources greater than 50 years old in each county. The project includes conducting background research and completing historic contexts for each county; field surveying the resources using a Microsoft Access database; photographing the resources; mapping the resources on United States Geological Survey (USGS) topographic maps; and preparing reports that include recommendations of NRHP eligibility. The project builds on the experience gained during the Central West Virginia Historic Resource Survey, resulting in greater efficiencies and time-saving techniques.

Central West Virginia Historic Resource Survey, Calhoun, Clay, Roane, and Wirt Counties, WV. Client: West Virginia Division of Culture and History. Mr. Kuncio managed the four county survey, which was completed for the WVDCH. Skelly and Loy completed 750 West Virginia Historic Property Inventory (HPI) forms for resources greater than 50 years old. The project included conducting background research and completing historic contexts for each county; field surveying the resources using a Microsoft Access database; photographing the resources; mapping the resources on USGS topographic maps; and preparing reports that included recommendations of NRHP eligibility.

U.S. Route 220 Tier One EIS, Grant, Hampshire, Hardy, and Mineral Counties, WV and Allegany County, MD. Client: West Virginia Division of Highways. Mr. Kuncio was Project Manager of the historic structures investigations. He developed the scope of work, oversaw field investigations, assisted in assessing resources for NRHP eligibility, served as chief liaison with the client and the State Historic Preservation Offices of West Virginia and Maryland, and helped design the agenda and route for the agency field view.

Keyser-McCoole Bridge Project EA, Mineral County, WV and Allegany County, MD. Client: West Virginia Division of Highways. Mr. Kuncio was Project Manager of all historic structures investigations. He oversaw the historic resource surveys in both West Virginia and Maryland, developed the NRHP assessment of more than 200 resources, completed the Determination of Effect report, drafted the Memorandum of Agreement, developed the mitigation measures, and oversaw the completion of state-level building recordations by Skelly and Loy's Architectural Historian.

Armstrong Street Bridge Replacement Project, Mineral County, WV. Client: West Virginia Division of Highways. Building on the knowledge and experience he gained on the Keyser-McCoole Bridge Project, Mr. Kuncio completed the historic structures work for a fast-track bridge replacement project in Keyser. He served as both Project Manager and Principal Investigator, surveying, researching, and evaluating the NRHP eligibility of 19 resources. His quick response allowed the bridge replacement project to be completed according to the original schedule.

WV Route 9, Charlestown to Virginia State Line, Post-ROD Studies, Jefferson County, WV. Client: West Virginia Division of Highways. Mr. Kuncio completed the Determination of Effect report for this publicly sensitive project. The proposed alternative passed in close proximity to a dozen NRHP eligible resources, including numerous historic farms. Following a careful review of the project alignment and the National Park Service guidance on historic landscapes, Mr. Kuncio successfully argued that the alignment would have no adverse effects on the farms due to the distance from the farmsteads and the screening provided by the landscape.

U.S. Route 35 (Henderson to High Speed Connector and Additional 14-Mile Survey), Mason and Putnam Counties, WV. Client: West Virginia Division of Highways. Mr. Kuncio completed the historic resource survey for the project, which involved evaluating more than 200 resources for NRHP eligibility. He also prepared the Determination of Effect report for the project. When an unanticipated, abandoned burial ground was found in the path of the Preferred Alternative, Mr. Kuncio quickly researched the history of the property and the families and developed an assessment that the cemetery did not meet NRHP eligibility standards. After an additional 14 mile section of highway was added to the project, Mr. Kuncio completed background research on two historic archaeological sites within the proposed right-of-way, which resulted in the conclusion that neither was NRHP eligible.

WV Route 2, Cresap to McKeffrey and Kent to Franklin Improvements, Marshall County, WV. Client: West Virginia Division of Highways. Mr. Kuncio served as Principal Investigator for historic resources on numerous sections of the West Virginia Route 2 Improvements project, both in Marshall County and the northern panhandle. He completed the historic resource survey and NRHP assessments of more than three dozen resources, ranging in age from an early nineteenth century brick house to post-World War II vernacular houses, as well as numerous highway and railroad bridges. He also prepared Determination of Effect reports.

Wiggins Bridge Replacement Project, Summers County, WV. Client: West Virginia Division of Highways. Mr. Kuncio was co-preparer of the state-level recordation as mitigation for the replacement of the bridge, a three-span, riveted Pratt through truss bridge. Research at various libraries and archives revealed the name of the engineering company that designed and built the structure. Mr. Kuncio's extensive experience with historic bridges and knowledge of bridge fabricators enabled him to provide a detailed history of the company, the Farris Bridge Company. The Pittsburgh-based firm was known for designing utilitarian, but undistinguished, metal truss and concrete bridges.

WV Route 2, Gallipolis Ferry to Henderson and Shadle Bridge to WV 62, Mason County, WV. Client: West Virginia Division of Highways. Mr. Kuncio was Principal Investigator for historic structures investigations and preparer of the Determination of Eligibility and Determination of Effect reports for the projects. Among the resources evaluated were two railroad rights-of-way, a railroad station, cottages used by railroad workers, and a lumber and supply company. Historic railroads of the Mid-Atlantic region are one of Mr. Kuncio's areas of expertise, enabling him to quickly place the railroad lines, station, and cottages into context and evaluate them according to their local and regional significance.

Mill Creek - Beverly Road Improvement Project, Randolph County, WV. Client: West Virginia Division of Highways. The project involved placing U.S. Route 219 on a new alignment as it passed through Beverly. Mr. Kuncio, the Principal Investigator for historic structures, analyzed a wide range of resources for NRHP eligibility, including early nineteenth century log houses, mid- and late-nineteenth century high style dwellings, sites associated with the Civil War, and a model New Deal housing development with ties to Eleanor Roosevelt. His research on the Civil War site, the Butcher Hill Historic District, led to a significant expansion to the boundary of the NRHP-listed historic district. The new boundary encompassed previously unidentified Civil War era trench works, a house mentioned in the battle report, and a monument and cemetery dedicated to fallen Confederate soldiers. The identification of the New Deal housing development resulted in a redesign of the highway improvements to avoid impacts to the resource.

C.R. 46 and C.R. 46/2, Williams River Road Improvements, Webster County, WV. Client: West Virginia Division of Highways. Historic structures on the project included resources related to Webster County's railroad and logging history, as well as a historic bridge, a general store, early twentieth century houses, and dwellings related to the county's more recent history as a recreation area. Mr. Kuncio served as Principal Investigator, evaluating the NRHP eligibility of the resources and preparing the Determination of Effect report. One resource was determined eligible for NRHP listing, the Williams River General Store, for its association with the cultural history of the Williams River and Dyers area. The improvements were redesigned to avoid impacting the resource.

Pennsylvania Turnpike National Register of Historic Places Evaluation, Statewide, PA. Client: Pennsylvania Turnpike Commission. Mr. Kuncio served as Project Manager and Principal Investigator for the NRHP assessment of the 470-mile Pennsylvania Turnpike system. Work tasks included conducting background research, preparing detailed draft and final reports assessing historical significance and integrity, overseeing the survey of approximately 750 resources, and preparing a Memorandum of Understanding streamlining the Section 106 process. Resource location information was prepared in a format that could be uploaded into the Cultural Resource Geographic Information Systems (CRGIS) database maintained by the Pennsylvania Historical and Museum Commission. Mr. Kuncio also completed state-level recordations of representative Turnpike resources.

Project Keystone Stone Arch Bridge Management Plan, Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, PA. Client: Pennsylvania Department of Transportation. Mr. Kuncio served as Principal Investigator and Project Manager. The project resulted in the development of a management plan for 124 stone arch bridges in the Greater Philadelphia area, as well as a maintenance manual for the maintaining, preserving, rehabilitating, and preserving stone bridges statewide. The project served as a pilot for preservation plans for other bridge types in Pennsylvania. Mr. Kuncio was principal author of both the management plan and maintenance manual, which provides a system for recommending stone arch bridges for preservation and guidance to state and local bridge forces on maintaining, repairing, rehabilitating, and restoring stone arch bridges. The project received a historic preservation award from Preservation Pennsylvania, the Commonwealth's only state-wide preservation advocacy organization.

Professional Affiliations: Pennsylvania State Historic Preservation Board, Society for Industrial Archeology, Pittsburgh History and Landmarks Foundation, Preservation Pennsylvania, and the National Trust for Historic Preservation

Landscape Architecture



JOSEPH E. BIRD, ASLA
Senior Vice President
Project Manager

EDUCATION

West Virginia University, BSLA, 1978

REGISTRATION

Landscape Architect, West Virginia, 1981

**PROFESSIONAL
HISTORY**

August 1985 to Present: Chapman Technical Group
Senior Vice President and Project Manager.

May 1978 to August 1985: Kelley, Gidley, Blair & Wolfe, Inc.
Landscape Architect and Project Manager.

Mr. Bird is a project manager and registered landscape architect. His experience ranges from large site development projects to the management of multi-discipline and architectural projects.

33 years professional experience.

**PROJECT
EXPERIENCE**

Site Development: Site planning and project management for numerous projects throughout West Virginia ranging from small campus sites to large sites for commercial, government, industrial, and institutional development. Projects include military complexes, campuses, public housing developments and other public facilities.

Parks and Recreation: Projects include swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems. Also involved in the design of facilities such as softball fields, fishing access facilities, recreation facilities for prisons, as well as passive recreation areas for public and private clients.

Miscellaneous: Other project experience includes the urban planning and development, streetscape design, roadway and storm drainage projects, as well as the project management of numerous major architectural projects throughout West Virginia.

AFFILIATIONS

West Virginia Chapter of the American Society of Landscape Architects

AWARDS

Honor Award for Shrewsbury St. Redevelopment Plan
West Virginia Chapter of American Society of Landscape Architects



ROBERT D. DINSMORE
Project Designer

EDUCATION

West Virginia University, BSLA, 2010

**PROFESSIONAL
HISTORY**

June 2010 to Present: Chapman Technical Group
Project Designer.

Fall 2008 to Fall 2009: West Virginia University
Teaching Assistant, Intro to Landscape Architecture Graphics

Fall 2009 to Spring 2010: West Virginia University
Teaching Assistant, History of Landscape Architecture

Summer 2008: Austin Outdoor Landscape Professionals
Landscape Architecture Intern,

2006 to 2007: Austin Outdoor Landscape Professionals
Project Manager

1 year of professional experience. Mr. Dinsmore is responsible for the design and development of urban design projects, parks and recreation projects, and landscape design.

**PROJECT
EXPERIENCE**

Urban Design: Designed and developed a master plan as part of his senior thesis for the Boston waterfront development.

Recreation Design: Developed master plans and designs for various facilities as part of scholastic studies.

Landscape Design: Designed and installed numerous landscape plans for high end residential and resort projects constructed in Florida.

AFFILIATIONS

American Society of Landscape Architects WV Chapter (Chapter Director)
Sigma Lambda Alpha Landscape Architecture Honorary (WVU President)
G.E.R.M.A.N. Club of Virginia Tech
Sunnyside Up Campus Neighborhoods Revitalization Corporation (Volunteer)

AWARDS

ASLA Student Honor Award Winner 2010
ASLA Student Merit Award Nominee 2010

Civil Engineering



ROBERT G. BELCHER, P.E.
**Senior Vice President, Engineering
and Project Officer**

EDUCATION

West Virginia Institute of Technology, BSCE, 1983

REGISTRATION

Civil Engineering, West Virginia, 1996

Civil Engineering, Ohio, 2006

**PROFESSIONAL
HISTORY**

January 1987 to Present: Chapman Technical Group

Senior Vice President and Project Officer.

June 1984 to January 1987: Regional Intergovernmental Council

Planning and Development Council for West Virginia Region III - Metropolitan
Planning Organization for Charleston, WV, MSA.

27 years professional experience.

**PROJECT
EXPERIENCE**

Water Systems: Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 10 MGD, improvements to existing plants, water mains and distribution systems. Water storage projects include glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal tanks.

Wastewater Systems: Design and project management for numerous wastewater systems throughout West Virginia. Projects include new, secondary and tertiary wastewater treatment plants as large as 4.5 MGD, improvements to existing plants, small-flow treatment plants, new and rehabilitation of wastewater collection systems, and facility plan updates.

Miscellaneous: Design and project management for large highway and bridge projects, airport improvements projects, large stormwater management projects, as well as potable water and wastewater system design for site development projects throughout West Virginia.

AFFILIATIONS

Water Environment Association - WV Section
Contractor's Association of West Virginia - Associate Member
American Water Works Association - WV Section
WV Society of Professional Engineers
American Council of Engineering Companies - ACEC/WV
WVUIT Civil Engineering Advisory Board
WV Qualifications Based Selection (QBS) Council

AWARDS

George Warren Fuller Award, 2001



STEPHEN M. JOHNSON, PE
Group Manager
Civil/Environmental Engineering

EDUCATION

West Virginia Institute of Technology, BSCE, 2004

REGISTRATION

Civil Engineering, West Virginia, 2009
Civil Engineering, North Carolina, 2008
Civil Engineering, Virginia, 2011

EXPERIENCE

January 2009 to Present: Chapman Technical Group
Civil Engineer

October 2006 to January 2009: McKim and Creed
Civil Engineer

May 2004 to October 2006: Chapman Technical Group
Civil Engineer

June 2001 to May 2004: Allegheny Power
Gas Support Technician/Intern

7 years professional experience.

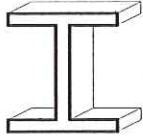
PROJECT EXPERIENCE

Water Systems: Overall experience includes planning, design, bidding, and construction administration/management of various public and private water system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes distribution systems, river crossings, horizontal directional drills, booster stations, treatment plants, ground and elevated water storage tanks, SCADA systems computer modeling, treatment process evaluation, and problem troubleshooting in existing systems.

Wastewater Systems: Overall experience includes comprehensive system master plans, design, bidding, construction administration/management of various public and private wastewater system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes gravity and low-pressure collection systems, pump stations and force main transmission systems, treatment plant process evaluation and design, trenchless pipeline rehabilitation, bypass pump system design, odor and corrosion control, effluent infiltration ponds, decentralized and alternative on-site disposal systems, and SCADA systems.

Stormwater Systems: Overall experience includes comprehensive system master plans, design, bidding, construction administration/management of various public and private stormwater system projects throughout West Virginia, Virginia, and North Carolina. Specific project experience includes drainage basin hydraulic analysis, stormwater collection, detention and BMP system design, construction stormwater management plan preparation, and MS4 permit guidance.

Structural Engineering

CAS

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, 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 State Historic Register 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 State Historic Register 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 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 State Historic Register and was constructed in 1815.

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

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 State Historic Register and was constructed in the 1920's and 1930's.

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 State Historic Register and was constructed in the 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 recommend phased repairs for terra cotta and granite façade. Building is on State Historic Register 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 stairtower.

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 State Historic Register and was constructed in the 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 State Historic Register 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.

Pennsylvania, Metropolitan Edison Company, Headquarters: Structural design for new 80,000 SF two-story office addition to existing complex.

Pennsylvania, Defense Distribution Region East: Structural engineering and design for a 33,000 SF Hazardous Materials Storage Warehouse.

Maryland, U.S. Army Corps of Engineers, Baltimore District, Administration Building: Seismic design of new 10,000 SF masonry building.



DAVID C. HOY, P.E.
Civil/Structural Engineer

EDUCATION

West Virginia University, BSCE, 2006

REGISTRATION

P.E., West Virginia, 2011

**PROFESSIONAL
HISTORY**

January 2007 to Present: Chapman Technical Group
Civil Engineer

Summer 2005: Advantage Home and Environment

Assisted structural engineer with home inspections, and report preparation.

4 years professional experience.

**PROJECT
EXPERIENCE**

Structural: Investigation, analysis, and design of various building structural systems, including foundation design. Review shop drawings and performs periodic site visits.

Civil: Design of highways, bridges, and airport improvements projects throughout West Virginia.

AFFILIATIONS

Chi Epsilon, National Civil Engineering Honor Society

ASCE, Member

WV Section YMF, Treasurer

**Mechanical/
Plumbing
Engineering**

P R O F I L E

Timothy Cox, P.E., NCEES
President
Mechanical Engineer

(304) 598-2558
tcox@cmawv.com

EDUCATION

University of Colorado
Boulder, Colorado
Degree: Mechanical Engineering B.S.

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

Association of Energy Engineers-CBCP

Registered Professional Engineer in WV, VA, KY

CPD (Certified in Plumbing Engineering)

Member of ASHRAE

American Society of Plumbing Engineers

National Association of Fire Protection Engineers

WV Society of Healthcare Engineers

EXPERIENCE

Mr. Timothy Cox, President and Senior Mechanical Engineer of CMA Engineering brings 28 years of mechanical design experience to our clients. Mr. Cox has been project manager and project engineer for a variety of projects.

PROJECTS

West Virginia University
Open End Contract since 1999
Mountain Lair Plaza Renovations
Boreman HVAC/Plumbing/Fire Sprinkler Upgrades
Soccer Stadium
Coliseum Life/Safety Renovations
Coliseum Locker Room Suites
Engineering Science Building Addition/Renovations
Arnold Hall Fire Alarm/ Fire Sprinkler Upgrades
Wrestling Training Facility

West Virginia University Hospitals
WV Eye Institute-MEP systems design for new facility
Cheat Clinic-MEP design for new clinical addition
WVUH Emergency Department-HVAC, electrical, fire and communication systems design for new addition
Chestnut Ridge Hospital-various MEP renovations
Healthworks Rehab and Fitness –MEP systems design for new facility

Mylan Pharmaceuticals, Morgantown, WV
Various projects including HVAC, plumbing, fire sprinkler and controls for new office building, fluid bed addition, north plant expansion, parking garage and weighing and packaging.



Clingenpeel/McBrayer & Associates, Inc.

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

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

w w w . c m a w v . c o m

P R O F I L E

Matt Corathers, E.I. Mechanical Designer

(304) 598-2558
mcorathers@cmawv.com

EDUCATION

West Virginia University
Bachelor of Science -Mechanical Engineering

PROFESSIONAL DEVELOPMENT

Successfully passed Fundamentals of Engineering Exam

EXPERIENCE

Matt joined the staff of CMA Engineering in 2008 having previously worked for Whitman, Requardt and Associates in Baltimore, MD.

PROJECTS

Hardy County Courthouse-HVAC Upgrades

Mineral County Courthouse-HVAC Upgrades

Pendleton County Courthouse-HVAC Upgrades

Romney City Hall-HVAC Upgrades

West Virginia University
Mechanical design for new two-story child care facility

University High School, Morgantown, WV
Mechanical design for renovations/ upgrades to the HVAC systems

Randolph County Building
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
Mechanical design for renovations to 4,850sf in existing court facility

Veterans Hospital, Clarksburg, WV
Mechanical design for renovations to Dental Lab

CMA

ENGINEERING

Clingenpeel/McBrayer & Associates, Inc.

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

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

www.cmawv.com

P R O F I L E

Larry Weese Mechanical/Plumbing Designer

(304) 343-0316
lweese@cma-wv.com

EDUCATION

West Virginia University
Morgantown, West Virginia
Degree: Division of Forestry BS,MS

PROJECTS

WV Army National Guard

Elkins Readiness Center-Plumbing design for new facility
St. Albans Armory-Plumbing design for renovations to existing building and new addition
Moorefield Readiness Center-Plumbing design for new facility

WV Department of Health and Human Resources

Office of Chief Medical Examiner, Charleston
New Facility Mingo County

Emergency Response Facilities

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

Industrial Experience

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

Commercial Experience

Bobcat of Advantage Valley-New Facility
Allegheny Springs Restaurant

PROFESSIONAL DEVELOPMENT

Various seminars and technical sessions

EXPERIENCE

Mr. Larry Weese, Mechanical Designer for Clingenpeel/McBrayer & Associates, Inc. brings 20 years of mechanical design and project management experience to our clients.



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(304) 598-2472

www.cma-wv.com

Electrical Engineering

P R O F I L E

Daniel Lee Ellars, P.E.
LEED AP
NCEES
Principal
(304) 343-0316
dellars@cmawv.com

EDUCATION

West Virginia University Institute of Technology
Montgomery, West Virginia.
Bachelors of Science in Electrical Engineering

West Virginia State University
Institute, West Virginia
Bachelors of Science in Business Administration

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

Registered Professional Engineer in West Virginia

National Fire Protection Association (NFPA)

Institute of Electrical and Electronics Engineers (IEEE)

American Society of Heating, Refrigerating and Air-
Conditioning Engineers (ASHRAE)

EXPERIENCE

Mr. Daniel L. Ellars, Electrical Engineer for Clingenpeel/
McBrayer & Associates, Inc. brings 23 years of
electrical design experience to our clients. Mr. Ellars
has been a project manager and project engineer for a
variety of projects including commercial and industrial
facilities as well as for both power and
tele-communications utilities.

PROJECTS

Educational Experience

Jackson County (WV) Schools—Electrical
Upgrades & Expansions

Talcott Elementary School-Electrical Design
Fairdale Elementary School-Electrical Design
Lewisburg Elementary School-Electrical design

West Virginia Army National Guard

Eleanor (WV) Maintenance Center—Electrical
systems design for new facility.

Elkins Readiness Center-Electrical systems design
for new facility

St. Albans Armory-Analysis of existing systems and
design for upgrades and new addition

Moorefield Readiness Center-Electrical systems
design for new facility

Recreational Experience

Bechtel Boy Scout Reserve-Electrical power design
for new 10,600 acre compound

Canaan Valley State Ski Resort-MEP
renovations and upgrades to existing ski
facilities and design of 2 new buildings

Industrial Experience

Mylan Pharmaceuticals

Mylan Office & Lab Buildings—various electrical
systems designs for new, existing and expanded
facilities including new 23kV/12kV switchyard
and grounding plain layout.



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(304) 598-2558 tel
(304) 598-2472

P R O F I L E

James A. Kerns Mechanical/Electrical Designer

(304) 343-0316
jakerns@cmawv.com

EDUCATION

West Virginia State College
Institute, West Virginia
Degree: Bachelor of Science in Industrial
Technology/Building Construction

REGISTRATIONS/PROFESSIONAL AFFILIATIONS

Member of ASHRAE

EXPERIENCE

Mr. James A. Kerns has over 32 years experience in Mechanical and Electrical engineering design. He has been responsible for design projects in the educational, commercial, and health care fields.

Mr. Kerns has been a great asset to Clingenpeel/McBrayer & Associates. His knowledge and experience enables him to complete project designs in a clear and concise manner and in a timely fashion.

PROJECTS

Kanawha County Schools

George Washington High School-HVAC Renovations
George Washington High School-Classroom Additions
Horace Mann Middle School-HVAC Renovations
Elkview Middle School-Classroom Additions
Elkview Middle School-Fire Alarm System
Ruffner Elementary School-Classroom Additions
Point Harmony Elementary School-Activity Building

Concord College

Athens, West Virginia — various renovation projects throughout the campus, which include Twin Towers Fire Alarm, Twin Towers Elevator Renovation, Alexander Arts Center Chiller Replacement and new Chapel

U.S. Postal Service

Open End Contract Since 1993, which encompasses numerous Post Office Renovations, new Post Offices, and new Postal Maintenance Facilities. Mr. Kerns has been Project Manager for over 65 projects for the U.S. Postal Service.

Yeager Airport

New Parking Garages
New Emergency Generator
Electrical Upgrades
Fire Alarm System Upgrade



Clingenpeel/McBrayer & Associates, Inc.

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(304) 598-2472

www.cmawv.com

Construction Analysis



William S. Kostelic

2480 Ridgeview Lane
Poland, OH 44514
(330) 360-8749
wkostelic@aol.com

Historical Restoration Consultant/
Construction Analyst

BACKGROUND SUMMARY

2008-Present	Department of Homeland Security-FEMA Environmental and Historic Preservation Specialist
2006-Present	Building Restoration & Preservation Principal
2006-2008	US Small Business Administration Office of Disaster Assistance-Construction Analyst
1994-2006	Western Construction Group, Inc., DBA Harry S. Peterson Co. Branch Manager

RESTORATION EXPERIENCE

Structural concrete repair	Structural steel
Masonry restoration	Roofing
Waterproofing	Shoring and scaffolding
Interior finishes	Demolition and salvage
Exterior finishes	

RESTORATION POSTIONS HELD

Cement Mason	Branch Manager
Job Site Superintendent	Residential Construction Analyst
Construction Cost Estimator	Historical Preservation Specialist

RECENT RESTORATION EXPERIENCE

Metropolitan Nashville Water and Wastewater Treatment Facilities-Tennessee

Preliminary estimates of damages resulting from the May, 2010 flooding event are set at more than \$380,000,000 for repairs to five METRO treatment facilities. Current responsibilities include serving as the liaison in this FEMA declared disaster area for the Long Term Community Recovery and Mitigation advisor against future repetitive losses.

Tucker County Courthouse

As the restoration consultant, it was imperative to develop a Rough Order of Magnitude of Cost estimate for the total rehabilitation of interior and exterior of the Courthouse and the Jailer's Residence. Architectural metal repairs, masonry stabilization, window replacement, terra cotta stabilization and building cleaning were addressed in the exterior scope of repairs. Interior repairs included MEP improvements, refinishing of courtroom wood elements and period lighting replacements. The Jailer's Residence repairs included chimney repointing, foundation stone repairs, insulation enhancements, painting and MEP improvements.

Lewis County Courthouse

As a team member on the roof framing improvement project, in tandem with Chapman Technical Group and CAS Structural Engineering, Inc., the utilization of observation reports, field photographs and sketches enhanced the development of a cost estimate for the structural wood framing improvements. The architectural metal repairs to turrets presented unique challenges within a confined space environment, incorporating "in kind" material supplementation, on this National Registered Historic Structure.

Mahoning County Courthouse-Ohio

Orchestrated a structural investigation of this 100 year old granite and terra cotta public facility listed on the National Register of Historic Places. These recommendations have been incorporated into the published survey of findings which serve as a blueprint for this phased restoration undertaking of the building envelope. Based upon the findings of the destructive survey, a detailed take-off was prepared for a quantified estimate of various repairs totaling over \$10,000,000 for this upcoming two-year project.

Marlinton Train Depot-West Virginia

Listed on the National Register of Historic Places, the restored Marlinton Train Depot tragically was lost to a devastating fire. Photos of record and previous restoration drawings were utilized to assemble a Rough Order of Magnitude of Cost. The materials used in the budget were similar to items used in the original building.

Canaan Valley State Park-West Virginia

Surveyed five, 50-unit rental units located within the Park. The report, later presented to the Governor, included photographs, repair recommendations and a budgetary estimate for structural steel, masonry and waterproofing repairs.

Redmond House-West Virginia

Listed on the National Register of Historic Places, this 1869 farmhouse has been funded for a \$500,000 comprehensive rehabilitation project. The scope of responsibilities included field survey and documentation, leading to a preliminary cost estimate.

Hawk's Nest State Park Lodge-West Virginia

Provided repair recommendations to the lead professional firm. This followed a destructive survey of various structural and masonry elements at this facility.

Upshur County Courthouse-West Virginia

The project required development of a detailed exterior sandstone repair procedure. As the historic consultant to Chapman Technical Group, the supervision of the tradesmen during the performance of the stone repairs, stainless steel pinning, epoxy injection and Jahn/Cathedral stone repair mortars was required. This project was recognized in 2008 by the WVAIA and received an Honor Award for Historic Preservation. The building is listed on the Historic Register of Historic Places.

West Virginia State Capitol Building-Stairwell Stabilization

In consort with CAS Structural Engineering, Inc., recommended and installed through-the-wall stabilization devices into four stairwell walls buckling due to terra cotta block fracture and dislocation.

TRAINING

- Emergency Management Institute-Coordinating Environmental and Historic Preservation Compliance
- International Masonry Institute Restoration Seminar
- Cathedral Stone Restoration Seminar
- Protecting Concrete and Masonry Structures-Simpson Gumpertz & Hager

PROFESSIONAL ASSOCIATIONS

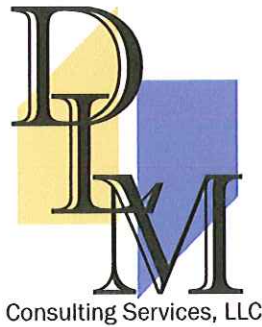
West Virginia Society of Healthcare Engineers
International Concrete Repair Institute

CIVIC INVOLVMENT

Pittsburgh Landmarks Association-*Church Preservation Strategy Workshop*
West Virginia Engineering Expo-Featured Speaker, *Restoration Strategies*

EDUCATION

Youngstown State University
Youngstown, Ohio



David L. Morris

PO Box 248
St. Albans, West Virginia 25177
(304) 741-1623 cell

EDUCATION:

Fairmont State College; Fairmont, West Virginia 26554
Bachelor of Science degree in Architectural Engineering Technology
(May 1983)

WORK EXPERIENCE:

DLM Consulting Services, LLC.: Walton, West Virginia 25286

President (November 2010-present)

Providing construction feasibility and estimating services for a variety of clients. Responsibilities include all aspects of business, conceptual projects, negotiating contracts for clients, analyzing project cost information and tracking market conditions. Continued expert status with several types of computer software and training in historical preservation techniques.

Quantum Construction Services, Inc.: South Charleston, West Virginia 25303

President (October 2009 – present)

Vice President (October 1997-October 2009)

Responsibilities include all aspects of business ownership, marketing strategies, bid strategies, estimating hard bid and conceptual projects. Other duties include scheduling personnel and subcontractors, negotiating contracts, analyzing project cost information and tracking market conditions. Planning and implementation of design/build projects with extensive experience in historical preservation. Expert status with several types of industry computer software.

Wiseman Construction Company: Charleston, West Virginia 25312

Vice President (September 1994-October 1997)

Responsibilities include planning bid strategies, estimating hard bid and conceptual projects, scheduling personnel, procuring project bonds and insurance, negotiating contracts for owners and subcontractors, analyzing project cost information, historical preservation and tracking market conditions. Continued proficiency with Timberline, Microsoft Excel, Microsoft Word, Microsoft Project and various other software programs. Developed a specialized Timberline database. Active in several construction associations.

Pray Construction Company: Charleston, West Virginia 25301

Project Manager (November 2009 – November 2010)

Responsible for the procurement and management of several projects, including a 2.8 million dollar ARRA grant for a local medical provider.

Chief Estimator (February 1992-September 1994)

Responsibilities include planning bid strategies, estimating hard bid and conceptual projects, scheduling personnel, procuring project bonds and insurance, negotiating contracts, reviewing project cost information, tracking market conditions and training new employees in bidding procedures. Additional roles include several executive steering committees, TQM facilitator, public relations liaison and marketing representative. Proficient with Timberline, Microsoft Excel, Microsoft Word, Microsoft Project and various other software programs. Developed a customized Timberline database.

Project Manager/Estimator (May 1988-February 1992)

Responsibilities include estimating and bidding new projects, negotiating contracts and purchase orders, scheduling all trades involved in jobs, staffing personnel to handle workload, reviewing financial status of assigned projects, maintaining public relations, and responsible for the construction of approximately forty profitable projects. Also served as Safety Program Director.

Prudential Property and Casualty Company; Charleston, West Virginia 25302

Field Claim Adjuster (October 1987-May 1988)

Responsible for inspecting and estimating major fire losses in West Virginia and Ohio. Worked closely with construction companies and policyholders during repairs.

State Farm Insurance Company; Frederick, Maryland 21701

Administrative Services Supervisor (June 1986- June 1987)

Responsible for personnel management, budgeting, Postal Service liaison, and maintaining public relations. Trained extensively in the operations and maintenance of the physical facility and grounds. Designed and supervised three major remodeling projects totaling \$500,000 while handling primary duties.

Senior Structural Damage Appraiser (January 1984-June 1986)

Position consisted of property damage inspection and estimating (unlimited loss amount), liaison between policyholders and construction companies. Estimated over 3200 losses during this period.

CAREER PROJECT LIST

Major Projects Constructed:

- Clay Junior High School, 3 Story Instructional Wing Addition – Clay, WV
- Stone and Thomas, Complete Store Renovation – Charlottesville, VA
- Kroger Food Stores, Addition and Complete Store Renovation – Scott Depot, WV
- Star Credit Union Branch Office – Teays Valley, WV
- University of Charleston, Riggelman Hall, Second Floor Renovation – Charleston, WV
- West Virginia Capitol Complex, Cultural Center, Great Hall Renovation – Charleston, WV
- Christian and Missionary Alliance Church, Elevator and Interior Renovation – Morgantown, WV
- West Virginia Radio Corporation, Complete Exterior/Partial Interior Renovation – Charleston, WV
- Star Credit Union Branch Office, Freestanding Building Construction – St. Albans, WV
- Star Credit Union Branch Office, Freestanding Building Construction – Beckley, WV
- Hatfield & McCoy Trailhead, Freestanding Building Construction – Pineville, WV

Major Historical Projects Constructed:

- West Virginia Main Capitol Building, Interior Dome Renovation – Charleston, WV
- West Virginia Main Capitol Building, South Plaza Historical Replication – Charleston, WV
- Marshall University, Old Main Building, Masonry Restoration – Huntington, WV
- Littlepage Mansion, Exterior Renovation – Charleston, WV

Restaurant Projects:

- Chili's Grill and Bar – 6 locations
- McDonald's – 3 locations
- A&W Root Beer – 3 locations
- Everything Yogurt – 8 locations
- Steak Escape – 5 locations
- Kroger Deli – 2 locations
- Texas Roadhouse – 2 locations
- Wendy's – 1 location
- Domino's Pizza – 1 location

Major Projects Estimated (and received):

- NIOSH Building Addition – Morgantown, WV (\$31,000,000.00)
- William R. Sharpe Hospital – Weston, WV (\$28,000,000.00)
- Northern Regional Jail – Moundsville, WV (\$11,000,000.00)

Section 4 Demonstrated Experience

The **CAS Structural Engineering, Inc. (CAS) Team** has completed a number of relevant projects similar to this request. Needs assessment reports for Courthouses in Lewis, Tucker and Upshur Counties have been completed over the last several years. As a result of the report, several construction projects have been completed to repair areas of the courthouses based on priorities identified in the assessment reports. Additional historically significant projects have been completed on the West Virginia Governor's Mansion and the West Virginia Capitol Building, both restoring the dome and the building exterior (including doors, windows, parapet, limestone and terra cotta elements).

Detailed descriptions of relevant projects for each of the **CAS Team** members are included in this section of the proposal. References for each team member are included with specific firm information. Specific reference information requested in the proposal is included as follows:

Ms. Cindy Whetsell, Lewis County Administrator
PO Box 466
18 Garton Plaza
Weston, WV 26452
(304) 269-8200

Project included a needs assessment report for the courthouse building and led to the first phase of repairs on the roof. Additional repair areas have been identified and associated costs have been developed for future grant application reference.

Mr. William "Willie" Parker, Upshur County Administrator
38 Main Street, Room 302
Buckhannon, WV 26201
(304) 472-0535

Project included a needs assessment report for the courthouse building and led to three separate repair phases, including work on addressing issues relating to the main entrance and ADA accessibility, restoring the clock tower/dome, and restoring/repairing the sandstone columns and other stone elements at the main entrance.

Mr. James Gore, Boone County Administrator
200 State Street
Madison, WV 25130
(304) 369-7301

Projects have included structural analysis of multiple areas of the building for determining load capacities for incorporation of new high-density file storage systems. Assessment of the condition of the courtroom balcony was also completed.

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

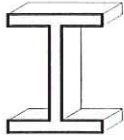
Multiple projects have included work on the West Virginia Capitol Building dome and exterior restoration, West Virginia Governor's Mansion, Holly Grove Mansion, Building 3 Canopy Repairs, and others.

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

Multiple projects have included assessments for the Overnight Sleeping Units at Canaan Valley Resort State Park, Twin Falls State Park Lodge, Twin Falls State Park Recreation Building, Pipestem State Park Recreation Building and Hawks Nest State Park Lodge. Assessment reports have led to repair and construction projects at several of the facilities.

CAS
Structural
Engineering

CAS



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

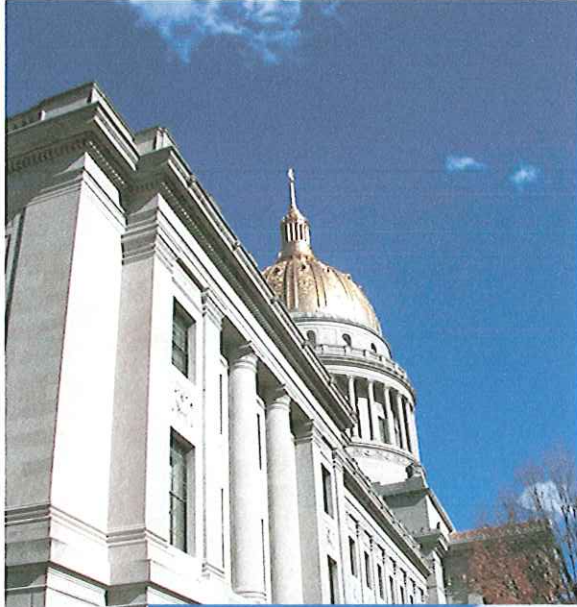
Projects range from new design and construction, additions, renovation, adaptive reuse and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to evaluation studies/reports and analysis.

CAS Structural Engineering utilizes AutoCAD for drawing production and Enecalc 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 this project. While CAS Structural Engineering, Inc. has only been in business for ten years, 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.

Project Experience



CAPITOL PARAPET WALL REPAIRS

Charleston, West Virginia

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

CAPITOL DOME RESTORATION

Charleston, West Virginia

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

Project Experience



BUILDING 3 CANOPY REPAIRS

Charleston, West Virginia

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



GEORGE WASHINGTON HIGH SCHOOL

Charleston, West Virginia

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



COVENANT HOUSE

Charleston, West Virginia

This 3-story structure utilized a structural steel frame and light-gauge steel roof trusses for the structural system. The 13,700 SF building was designed to appear as a residential structure, with vinyl siding, asphalt shingles, dormers and gingerbread accents.

Project Experience



JOHNSON AVENUE PROFESSIONAL BUILDING Bridgeport, West Virginia

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



YORK COUNTY GOVERNMENT CENTER York, Pennsylvania

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



METROPOLITAN EDISON Reading, Pennsylvania

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



UPSHUR COUNTY COURTHOUSE STONE COLUMN RESTORATION

Buckhannon, West Virginia



The structural sandstone columns were coated with a cementitious coating that helped to deteriorate the natural stone by trapping moisture within the stone.



After the coating was removed, additional areas of the columns and bases required extensive repairs.



The repairs included pinning the columns across cracks, building up architectural elements with Cathedral Stone Jahn Repair Mortars, and also included pinning new stone to the original host stone.



AIA West Virginia Honor Award 2008

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LEWIS COUNTY COURTHOUSE INVESTIGATION AND REPAIRS

Weston, West Virginia



This 1887 courthouse is constructed of brick masonry walls with heavy sandstone foundations and wood roof structure. This project involved several phases, including an assessment phase to detail the repair needs for the facility and a construction cost estimate for these repair items.

The bell tower and cupola framing need structural repairs, some of which were completed during the roofing repair phase of this project. Additional structural roof framing repairs have been identified but the design documents have not been developed at this time.



The roof repair work was completed in the fall of 2011. Structural repairs within the bell tower were completed at that time.



TUCKER COUNTY COURTHOUSE INVESTIGATION AND REPAIRS

Parsons, West Virginia



This 1898 courthouse is constructed of massive red brick with and is a centerpiece in Parson, Tucker County, WV. This project included providing a condition assessment report for stabilization and restoration of this structure.



The façade elements are in need of repair in many locations.



The chimneys are in need of repointing and new caps. Additionally, there are several structural issues related to framing that are in need of repair. The assessment report, which included budgeting of the repair items, led to the first phase of repairs/restoration of the chimneys.



TUCKER COUNTY JAILER'S RESIDENCE INVESTIGATION AND REPAIRS

Parsons, West Virginia



This 1896 jailer's residence is constructed of red brick with a corner porch. The residence is located adjacent to the courthouse.



The chimneys on this structure are in need of repair as is the exterior masonry. There are also several repairs needed for the roof framing



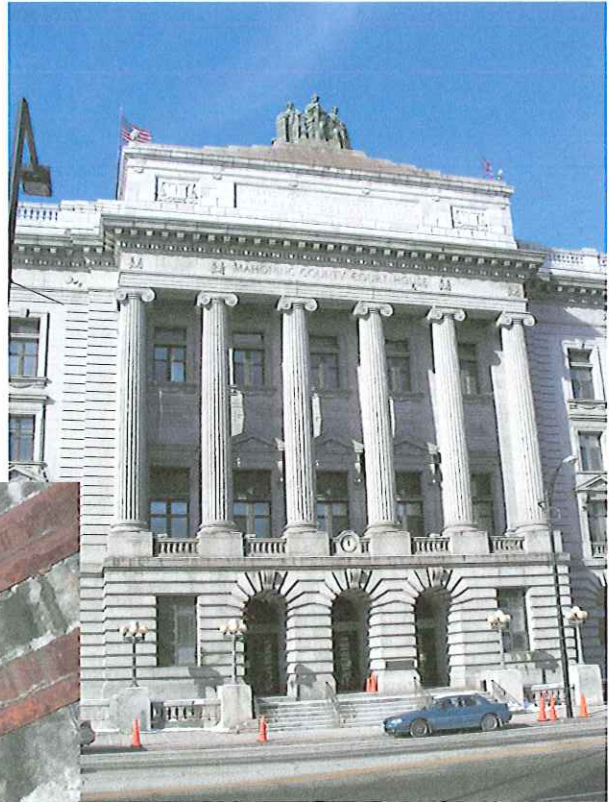
The assessment report, which included budgeting of the repair items, led to the first phase of repairs/restoration of the chimneys.



EXTERIOR FAÇADE AND ROOF STRUCTURE INVESTIGATION MAHONING COUNTY COURTHOUSE

Youngstown, Ohio

This preliminary investigation project was recently completed and involved an exploratory investigation of the parapet and balustrade, statue support structure and façade elements in an effort to determine the level of deterioration and scope of repairs to the granite, terra cotta, brick masonry and structural steel structure. The probe phase of the contract is beginning in order to quantify the amount of repairs.



The steel beams directly below the statues are severely deteriorated and will need to be replaced.

There is evidence of structural steel deterioration of the roof beams.





The investigation involved limited close observation of the façade elements, documenting the findings, and developing a preliminary budget estimate for repairs.



The current phase involved removing façade components to determine the extent of deterioration below and preparing a more detailed report of findings and construction cost estimate. Future work will include preparation of Construction Documents for repairs to the 99 year old building.

WEST VIRGINIA GOVERNOR'S MANSION RENOVATIONS

Charleston, West Virginia



Renovations of this red brick Georgian Colonial 1920's structure was completed in several phases, some by staff of the General Services Division at the State of West Virginia and the remainder by a general contractor.

During the renovations, a number of deficiencies were discovered, some of which had been covered by prior construction and some as a result of prior construction.



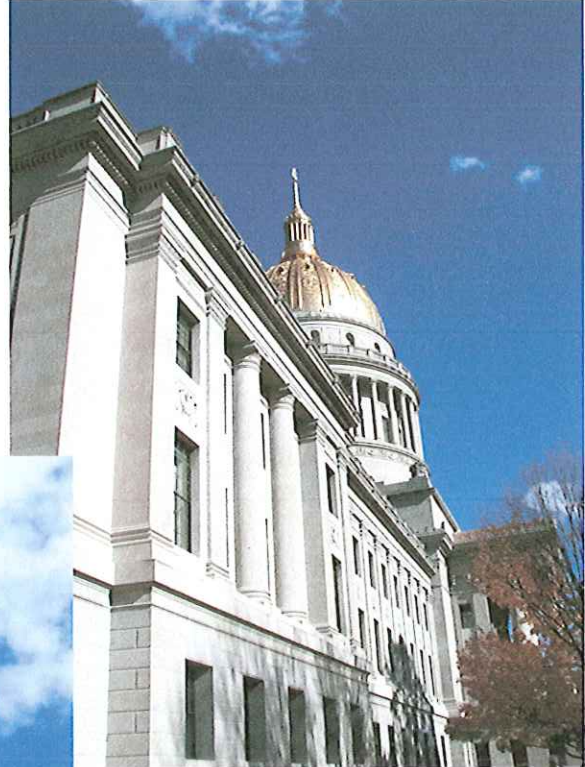
The structural repairs were made with masonry, wood framing and steel as required to support the loadings that were anticipated.



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.

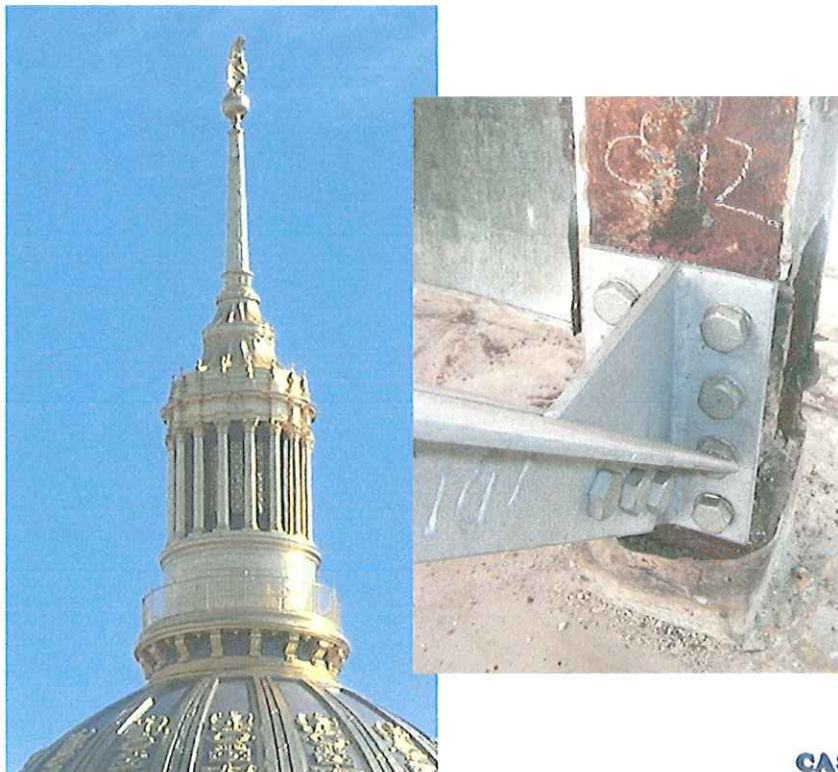


STRUCTURAL INVESTIGATION MAIN CAPITOL BUILDING DOME

Charleston, West Virginia

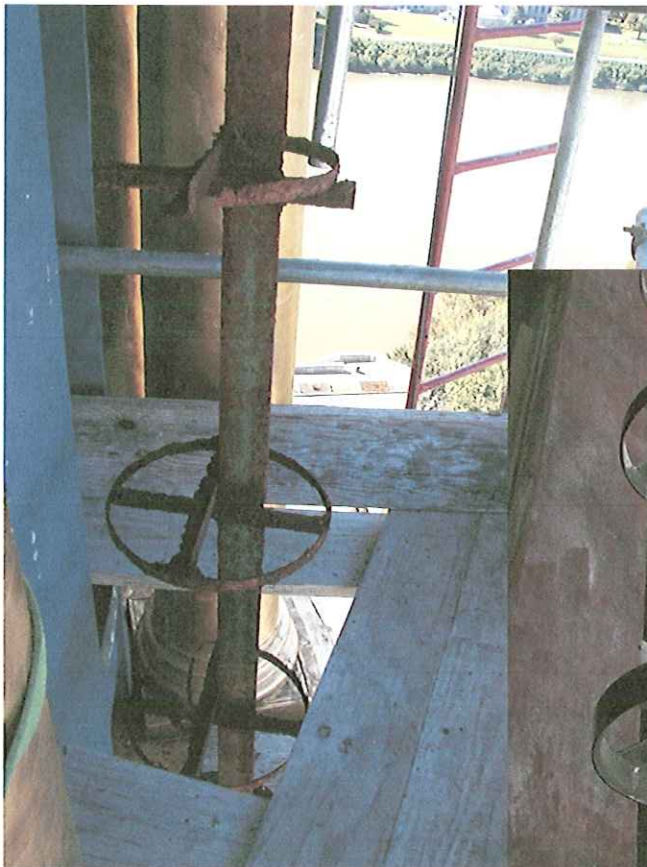


The structural steel in the lantern level shows evidence of deterioration. Project included probing to determine extent of deterioration and preparation of plans and specifications for repairs.

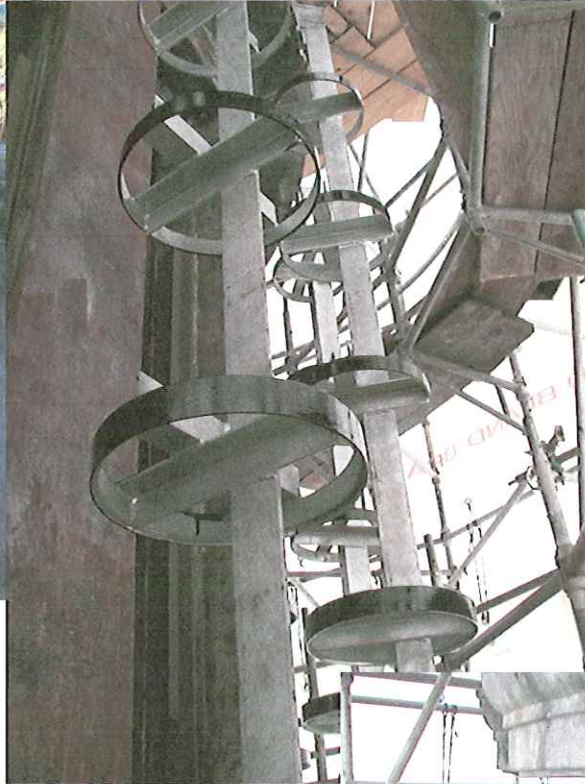


The structural steel after being repaired and the regilding complete. Project included returning the dome to the original Cass Gilbert color scheme.

AIA New York State Merit Award 2006



Removal of one decorative column wrap indicated that back-up structure was severely deteriorated. Members were replaced with new galvanized components.

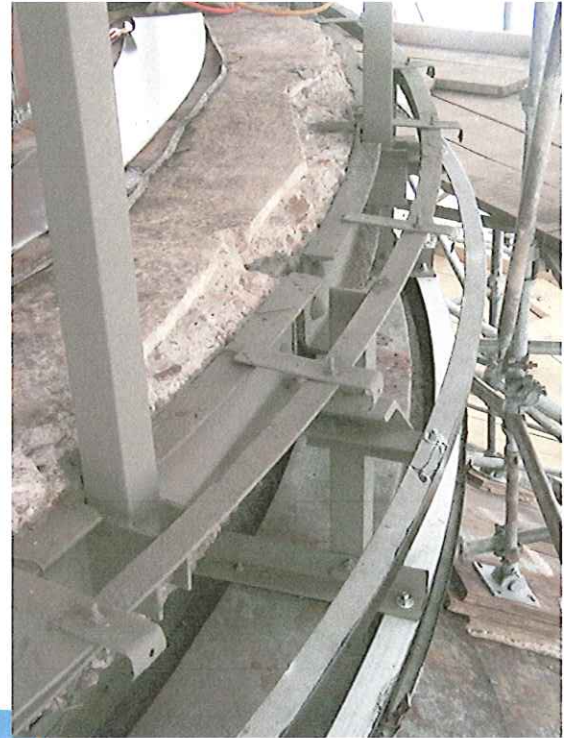


Deterioration of steel supporting sheet metal exhibited such deterioration that portions of the steel have disintegrated.





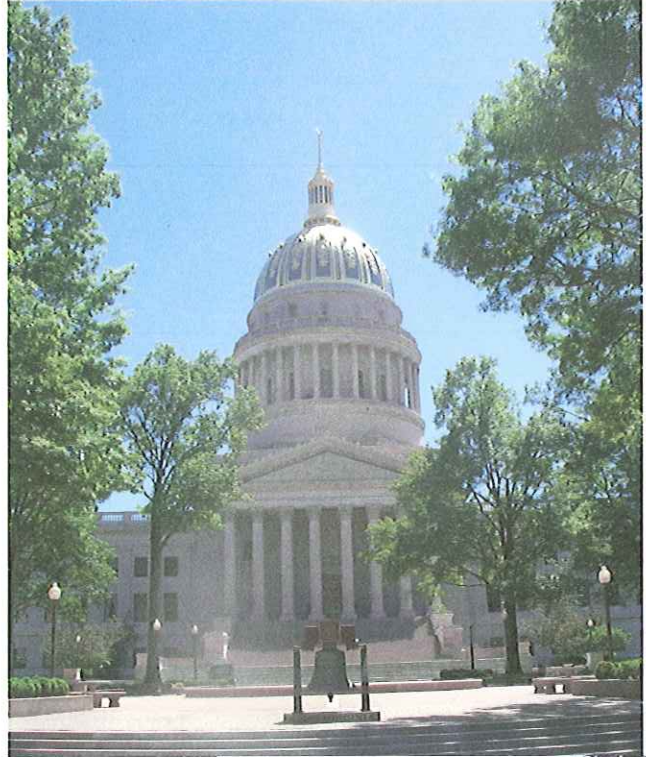
Concrete at the railing level was hidden from view and repaired once the sheet metals was removed and the deterioration was found.



Completed dome restoration shows the original sheet metal detail on the previous lead coated copper sheet metal. The lead coating was compromised over the years. As a result, a coating system had to be applied to protect the copper sheet metal.

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.

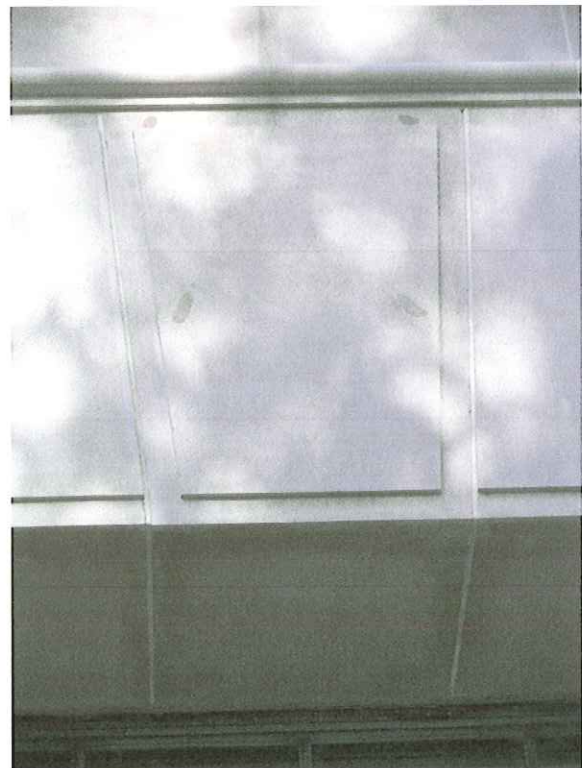




Portions of the limestone cornice were damaged to the point that they fell when work was being conducted and had to be pinned back in place.



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



STRUCTURAL INVESTIGATION HAWKS NEST STATE PARK LODGE

Ansted, West Virginia



Project includes investigation into causes of structural cracking in existing lodge facility and providing solution to the problem.

Currently completing a report for the Owner with photo documentation of conditions found and recommendations for repairs and associated construction cost estimates.



Part of the investigation included having a contractor perform probes to observe the condition of the structural elements and connections.

STRUCTURAL INVESTIGATION PIPESTEM STATE PARK RECREATION BUILDING

Pipestem, West Virginia



The pool deck is supported by this structure, thus the severe deterioration due to leaking joints in the deck. Once the decking is repaired, a new coating system must be installed to prevent chemically treated water from deteriorating the structural members.



A steel pipe column was added below the bearing end of this beam due to the severe deterioration at the end of the beam.



Project includes investigation into causes of structural cracking in existing recreation building and preparing a construction cost estimate for repairs.

STRUCTURAL INVESTIGATION

TWIN FALLS STATE PARK RECREATION BUILDING & LODGE

Mullens, West Virginia



Project includes investigation into causes of structural cracking in existing lodge and recreation buildings and preparation of a construction cost estimate for repairs.

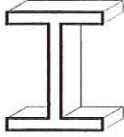
Steel pipe columns have been installed in many locations due to the excessive amount of deterioration that is present at the brick piers.



The structural steel beam within the concrete beam has rusted due to water infiltration through the wall system. Additionally, the steel beam was not designed for current code-related deflection requirements.



CAS



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References

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Professional Affiliations



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Member



National Society of Professional Engineers
Member



Architectural Engineering Institute
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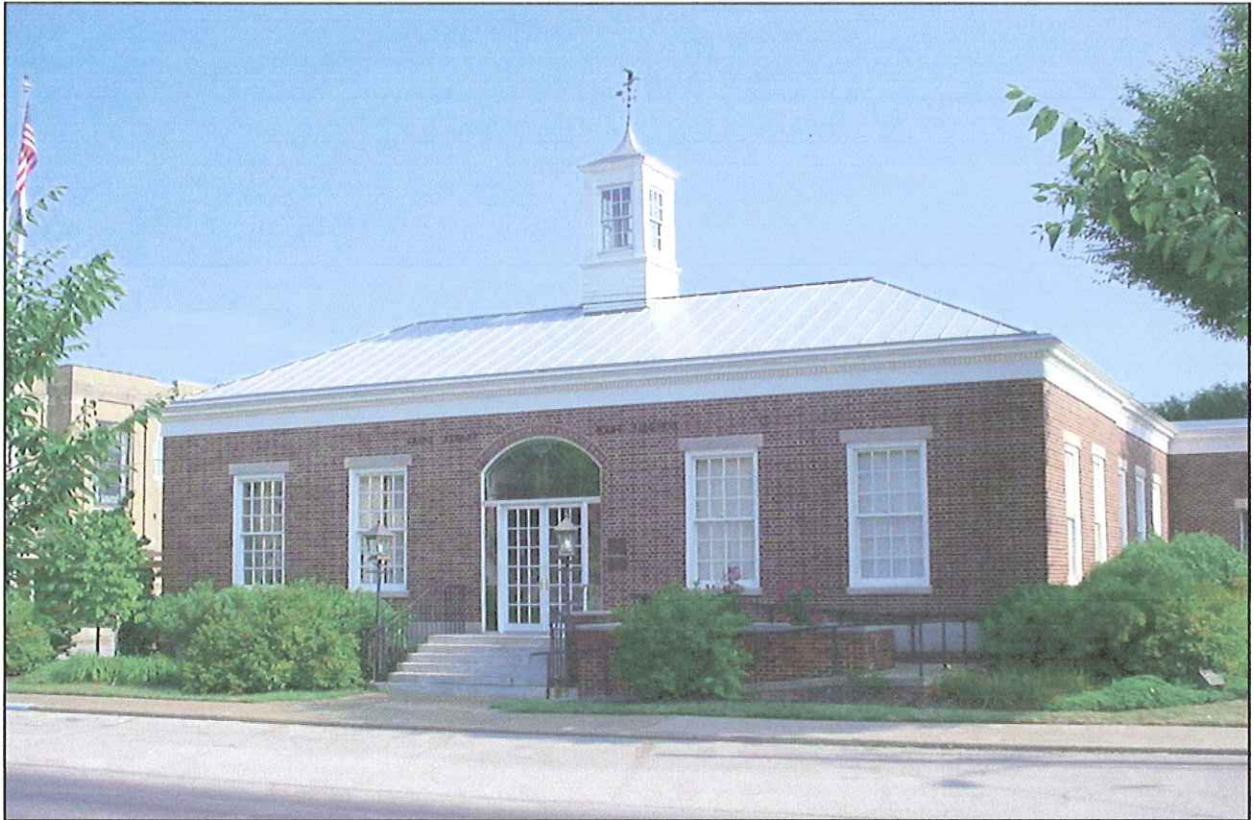


West Virginia Institute of Technology
Civil Engineering Department
Advisory Committee



Structural Engineering Certification Board

**Chapman
Technical
Group**



Chapman Technical Group's St. Albans Office

Chapman Technical Group is a full-service consulting firm with offices in St. Albans, Buckhannon, and Martinsburg, West Virginia offering an extensive range of professional architectural, engineering, interior design and landscape architectural services. Established in 1984, Chapman Technical Group has steadily grown to a diverse firm of professionals, many of whom were educated in West Virginia colleges and universities. We have achieved an outstanding reputation for providing high-quality design projects, while meeting client schedules and budgets and have received numerous awards for our work.

Our facilities are both state-of-the-art and architecturally significant. Our St. Albans office is a former post office and is now on the National Register of Historic Places.

Chapman Technical Group offers a broad range of professional services.

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