

August 20, 2009

Krista Ferrell, Buyer
GENERAL SERVICES DIVISION
Department of Administration
Purchasing Division
Building #15
2019 Washington Street
Charleston, WV 25305-0130

RECEIVED

2009 AUG 20 AM 9:32

WV PURCHASING
DIVISION

RE: Expression of Interest for Architectural and Engineering Services - GSD106405
Design of Building #9 Exterior Renovations, State Capitol – Charleston WV


Dear Ms. Ferrell and Members of the Selection Committee:

Perfido Weiskopf Wagstaff Goettel (PWWG) is very pleased to submit our qualifications to provide Architectural and Engineering Services for exterior renovations of Building #9 at the Capitol Complex. We have carefully studied the RFP and Addendum #1 and visited the building and we are confident the enclosed materials demonstrate that our team is exceptionally well qualified to provide the best overall value to the state of West Virginia. The following items underscore specific qualifications of our team:

- PWWG is one of the most experienced firms in our region in the restoration and rehabilitation of historically and architecturally significant structures. Our work has included restorations of the WV Capitol, PA Capitol and historic structures in Pittsburgh and New York City.
- We have included Noble Preservation Services on our team as a preservation consultant. Tim Noble is an expert masonry and stone conservation consultant with lab facilities to analyze the impact of multiple cleaning approaches and determine the preferred method of cleaning.
- PWWG and Noble have partnered in preservation projects for about 15 years including multi-year contracts with the Pennsylvania Historical and Museum Commission for restoration and preservation services at sites throughout the Commonwealth of PA.
- We have included GAI Consultants on our team for landscape design and civil engineering services. These will be performed from the Charleston office.
- We have included the services of Cloward H2O, an internationally recognized consultant in the design of the water features for public and private sites. While the extent of the services required by Cloward is unknown at this time, Cloward is adept at both large and small, active and passive installations and tailoring their services to the appropriate scale of the water feature.

We view this project as an interesting challenge for one of the major public facilities in the state. We look forward to the opportunity of discussing your project in greater detail.

Sincerely,



Alan Weiskopf, AIA
Managing Principal



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

**Request for
 Quotation**

RFO NUMBER:
GSD106405

PAGE:
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
**KRISTA FERRELL
 304-558-2596**

*709020221 412-391-2884
**PERFIDO WEISKOPF WAGSTAFF
 408 BOULEVARD OF THE ALLIES
 PITTSBURGH PA 15219-1301**

DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES DIVISION
 BLDG. 9 - CULTURE & HISTORY
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305 304-558-2317

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JUL 27 2009

DATE PRINTED 07/21/2009	TERMS OF SALE	PERFIDSHIP VIA WAGSTAFF + TEL	FOB	FREIGHT TERMS
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BID OPENING DATE: **08/13/2009** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-07		
<p>A&E SERVICES: DESIGN OF BLDG#9 EXTERIOR RENOVATIONS</p> <p>EXPRESSION OF INTEREST (EOI)</p> <p>PROFESSIONAL ARCHITECTURAL/ENGINEERING SERVICES</p> <p>THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF GENERAL SERVICES, IS SOLICITING PROPOSALS FOR PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES FOR THE DESIGN EXTERIOR CLEANING & REPAIRS FOR BUILDING #9 (CULTURAL CENTER) LOCATED ON THE WEST VIRGINIA STATE CAPITOL COMPLEX IN CHARLESTON, WEST VIRGINIA AND RENOVATIONS TO TWO SUNKEN COURTYARDS INCLUDING ADA COMPLIANT ACCESS AND WATER FEATURES PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS CONCERNING THIS PROJECT MUST BE SUBMITTED TO KRISTA FERRELL IN THE WEST VIRGINIA STATE PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT KRISTA.S.FERRELL@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS AUGUST 4, 2009 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY, WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE LAPSED.</p> <p>QUESTIONS CONCERNING THE PROCESS BY WHICH A VENDOR MAY SUBMIT A PROPOSAL TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TO BE TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE Managing Principal	TELEPHONE 412.391.2884	DATE August 20, 2009
TITLE Managing Principal	FEIN 251544159	ADDRESS CHANGES TO BE NOTED ABOVE

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



State of West Virginia
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 Charleston, WV 25305-0130

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*709020221 412-391-2884
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SHIP TO

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
	ANY FORMAT.					
	EXHIBIT 10					
				REQUISITION NO.:		
	ADDENDUM ACKNOWLEDGEMENT					
	I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.					
	ADDENDUM NO.'S:					
	NO. 1					
	NO. 2					
	NO. 3					
	NO. 4					
	NO. 5					
	I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.					
	VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.					
					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
Managing Principal	412.391.2884	August 20, 2009
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
Managing Principal	251544159	

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VENDOR

*709020221 412-391-2884
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 PITTSBURGH PA 15219-1301

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07/21/2009				

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
					SIGNATURE COMPANY August 20, 2009 DATE	
					REV. 11/96 BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER. NOTICE A SIGNED PROPOSAL MUST BE SUBMITTED TO: DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130 THE PROPOSAL SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED: SEALED PROPOSAL BUYER: KRISTA FERRELL-FILE 21	

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
Managing Principal	412.391.2884	August 20, 2009
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Managing Principal	251544159	

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 304-558-2596**

PURCHASER

*709020221 412-391-2884
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 PITTSBURGH PA 15219-1301

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DEPARTMENT OF ADMINISTRATION
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				RFQ. NO.:		GSD106405
				BID OPENING DATE:		08/13/2009
				BID OPENING TIME:		1:30 PM
				PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:		
						-----412.391.1657-----
				CONTACT PERSON (PLEASE PRINT CLEARLY):		
						-----Alan Weiskopf-----
				***** THIS IS THE END OF RFQ GSD106405 ***** TOTAL: _____		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
Managing Principal	412.391.2884	August 20, 2009	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	
Managing Principal	251544159		

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 PITTSBURGH PA 15219-1301

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DEPARTMENT OF ADMINISTRATION
 GENERAL SERVICES DIVISION
 BLDG. 9 - CULTURE & HISTORY
 1900 KANAWHA BOULEVARD, EAST
 CHARLESTON, WV
 25305 304-558-2317

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS		
08/11/2009						
BID OPENING DATE: 08/20/2009		BID OPENING TIME: 01:30 PM				
LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
				ADDENDUM NO. 1		
				THIS ADDENDUM IS ISSUED TO:		
				1.) ANSWER ALL TECHNICAL QUESTIONS SUBMITTED PRIOR TO THE DEADLINE FOR TECHNICAL QUESTIONS AND		
				2.) EXTEND THE BID OPENING DATE.		
				BID OPENING DATE IS EXTENDED TO: 08/20/2009		
				BID OPENING TIME REMAINS: 1:30 PM		
				***** END ADDENDUM NO. 1 *****		
0001	1	LS		906-07		
				A&E SERVICES: DESIGN OF BLDG#9 EXTERIOR RENOVATIONS		
				***** THIS IS THE END OF RFQ GSD106405 ***** TOTAL:		

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EXPRESSION OF INTEREST #GSD106405
WV Science & Cultural Center Building (#9) - Exterior Cleaning & Renovations
1900 Kanawha Boulevard, East
Charleston, WV

ADDENDUM #1

TECHNICAL QUESTIONS AND RESPONSES

Question#1: In sections 4.2.2.c and 4.2.4.b the EOI indicates that expertise and references are required for projects involving fire alarm system design, however the scope of work listed elsewhere does not appear to include fire alarm work or any interior work. Is there any fire alarm work or other interior work associated with this project?

Response#1: This was an oversight in the original EOI. Please replace Section 4.2.2.c with the following:

“c. The design team must have expertise in exterior cleaning , restoration and repair including limestone, granite, concrete repairs, tuckpointing stone cladding and caulking. Exterior Courtyard work shall include expertise in retaining walls and drainage, landscaping, water features, handicapped accessibility, exterior utilities and other applicable skills. Provide information on other project consultants, subconsultants and firms that will be employed by the lead firm to provide a complete project team from design through construction administration.”

And, please replace Section 4.2.4.b with the following:

“b. Provide references for the last five clients for whom the firm has performed projects of a similar type, size and scope that includes elements of both the exterior restoration and/or exterior landscaping, plazas and water features (both do not have to be included in the same project). Include the name of the client along with the name of a contact person, telephone number, address of the project and a short description of the project. A photograph of the project would be helpful.

Question#2: Does the scope of work include restoration of the exterior plaza spaces (other than the "sunken" courtyards) that surround the upper levels of the building?

Response#2: This plaza surrounding the building was renovated recently and is not included in the scope although some of the original poured concrete walls that form the outer wall of the plaza will require surface repairs.

Question#3: Where will the fire alarm system referred to in 4.2.2.c be located?

Response#3: The referral to the fire alarm system was in error and is not included in the project.

Question#4: Will the exterior cleaning and renovation be limited to the stone areas, or to all elevations, including storefront windows, doors, and windows?

Response#4: The exterior cleaning is not limited to the stone areas. See expanded description.

Question#5: Will plaza renovations include replacement of the plaza waterproofing systems and/or adjacent foundation waterproofing systems?

Response#5: No. The plaza deck and waterproofing has been replaced since construction of the building and will not be included in the project.

Question#6: Will new design be limited to new ADA access and new water features, or is a new design of the entire plaza incorporating these features envisioned?

Response#6: The plaza renovations will incorporate the access and water features. See also the expanded description (below) and Response#2.

Question#7: Does the RFQ include conservation of monuments or statuary?

Response#7: No. The monuments are not included in the project, other than protection during construction.

Also, replace Section 3.2 of the original EOI with the following:

“Project Description: The West Virginia Culture and History Center was completed in 1976 and contains the State’s archives, museum, theater, library and offices. The exterior shell of the building is composed of limestone panels, with polished granite panels near the base. A concrete plaza surrounding the building covers lower level rooms and facilities. The outside walls of the Lower Level are textured poured concrete.

Although one design firm will be selected, this project will be undertaken as two construction contracts, 1) Exterior Restoration Work and 2) Courtyard Restoration and Renovations. These two projects should be anticipated to follow separate bidding and construction schedules with the Exterior Restoration work proceeding to construction as soon as weather permits next spring.

This plaza surrounding the building was renovated recently and is not included in the scope although some of the original poured concrete walls that form the outer wall of the plaza will require surface repairs. The scope of work will include a careful evaluation of the exterior and recommended repairs and estimates prior to proceeding with the contract documents. Although not currently a historic building, the exterior restoration work should be performed to similar standards as historic restoration projects.

The “Sunken Plazas” portion of the work will include extensive restoration and repair of the existing lower level plazas on the northeast and south east corners of the building. This work will include verification of existing retaining walls, underground utilities, drainage, landscaping, replacement of paving surfaces, exterior ADA access without utilizing the adjoining interior museum spaces and adding a seasonal ‘water feature’ to each space. Originally designed as quiet and contemplative spaces, these spaces should retain these functions while being upgraded to serve for receptions and public gatherings. The memorial plaques currently

contained in the spaces should be retained in the new design.

All project documents including the contract documents, as-built drawings and any related project documents shall be provided to the Owner in electronic format (AutoCad). All drawings for review and Owner approval shall also be provided as paper documents. Three (3) copies of the final As-built drawings and related project documents will be provided to the Owner prior to the last application for payment submitted by the firm."

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: 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.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

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.

Vendor's Name: Alan Weiskopf, AIA

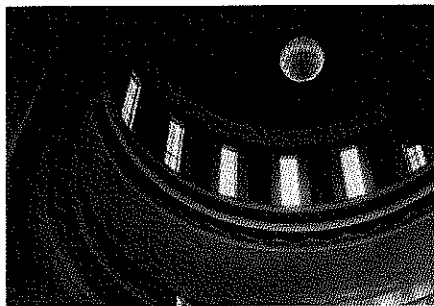
Authorized Signature:  Date: August 20, 2009

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Statement of Litigation	
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SECTION 1
APPROACH & METHODS

Approach & Methods



Pennsylvania State Capitol Building (above)
West Virginia State Capitol Building (below)

Noble Preservation Services and Perfido Weiskopf Wagstaff + Goettel have worked together on the restoration of numerous architecturally significant structures, including the Pennsylvania State Capitol Building and WV State Capitol Building. For the Pennsylvania State Capitol, the Pennsylvania State Capitol Masonry Conservation Study was commissioned by the state and prepared by Noble Preservation, which provided a comprehensive, detailed analysis of all the unique conditions affecting the stone and joint conditions at the Capitol. It was undertaken to evaluate the entire envelope of the building and develop recommendations for the restoration of the envelope using appropriate methods and techniques to comply with the Secretary of the Interior Standards for rehabilitation of historic properties. In the course of undertaking this work, the team developed a process and checklist for the evaluation of exterior conditions and subsequent repairs, which included in place testing and laboratory analysis of the characteristics of the stone used on the project. That checklist, which will be applied to Building #9 as applicable, may include assessments of the following:

- **Mortar Joint Failure:** Deteriorated or failed mortar joints are a common problem in stone veneered structures and lead to water infiltration.
- **Sealant Failure:** Sealant failures consist of the loss of adhesion between the sealant and the adjacent surfaces and the degradation of the sealants due to UV exposure. We often see situations where sealant repairs have been undertaken as part of routine maintenance and such repairs are done with non-compatible sealants or improperly prepared surfaces which result in premature failure of the repair.
- **Moisture Retention:** At times, compromised drainage systems or unique characteristics of the original building design can render the building prone to moisture retention, which can lead to discoloration and accelerated weathering of the materials.
- **Changes in Stone Permeability:** Depending upon whether a building has already undergone prior cleaning treatments, there can be a change in the permeability of the natural materials. This can be evaluated through analytical testing.
- **Soiling:** Air and water borne pollutants alter the appearance of the building over time and assessments, combined with testing are used to determine appropriate methods for removing built up deposits.
- **Efflorescence/Subflorescence:** The building will be evaluated for efflorescence (deposition and crystallization of soluble salts on the surface of stone) and subflorescence (soluble salts that crystallize beneath the surface).
- **Exfoliation:** The building will be examined for conditions of exfoliation, which are characterized by the surface loss of material.
- **Deformation:** The building will be examined for physical deformation that may have occurred over time from structural movement or previous repairs (if any).
- **Biological Growth:** An examination is conducted for plant growth that can range from small areas of algae growth to plants with small root systems that can cause further damage.
- **Staining:** Various types of staining can occur including iron stains and chemical stains that require specialized testing and treatment for removal.

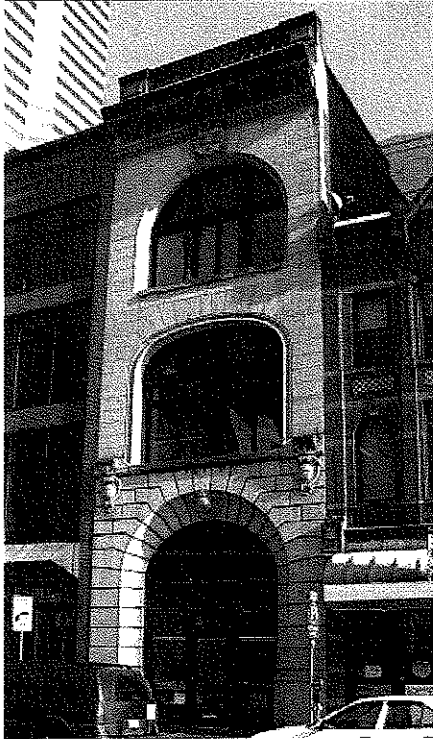
PWWG also maintains a relationship with Masonry Preservation Services (MPS), a specialty masonry contractor that provides services to clients throughout the mid-Atlantic and northeast regions of the US. We have utilized the services of MPS to perform selective physical exploration of building envelopes...brick and stone buildings in particular...and investigate conditions of the underlying materials, determine actual construction systems and anchorage conditions. Then MPS assists us in developing durable details for restoration measures that usually exceed the original service characteristics of the building system. MPS provide similar services for us on Oglebay Hall at WVU and depending on conditions determined at the site, MPS may be utilized for such services on Building #9. Jeff Erdly of MPS is a recognized expert in the area of masonry building technology and has been a contributor to ASTM publications dealing with masonry repairs and water penetration in masonry structures.

SECTION 2 FIRM/TEAM QUALIFICATIONS

- Firm Profile
- Consultant firm profiles
- Lead firm team members
- Consultant team members
- Ability to handle project in its entirety
- Statement of work property ownership
- Ability to conform with applicable regulations
- Statement of Litigation

About

Perfido Weiskopf Wagstaff + Goettel



We are a design firm practicing architecture, planning, and urban design. We were founded in 1975 by Leonard Perfido, now Emeritus. Today we are led by three Principals; Alan Weiskopf, AIA, Sheldon Goettel, AIA, and Kevin Wagstaff, AIA. The full staff includes 9 Registered Architects, 8 Graduate Intern Architects, and 5 business support professionals.

In more than 30 years of practice we have developed a reputation for creative, thoughtful solutions to complex problems, most often involving college buildings, housing of various types, and historic structures. Accordingly we are focused on three main areas of specialization- facilities for higher education, multi-family residential design (including affordable and market rate housing, student housing, senior housing, and luxury condominiums), and the rehabilitation and preservation of historic architecture. We also design hotels, theatres, galleries, stores, and parking structures. Repeat clients include private businesses, institutions, public/private partnerships, and government.

Our work is guided by 3 principles:

Form-making - We begin with the owner's needs and goals, the project and building type, and the surrounding context. Within these variables we find compelling reasons for some buildings to be contemporary, others traditional, and we work in many styles. What we find constant is the need to bring great usefulness, durability, and architectural clarity to each design. We therefore emphasize the 'craft' of architecture, and believe this approach yields results that are more authentic than work defined by allegiance to any one style.

Interaction - We pay great attention to the connections between buildings and their surroundings, and find that each commission presents unique opportunities. It might be the prospect of a new building forming a court with existing structures, or a chance for a dialogue between new and historic buildings, or an alignment of paths that could connect to a larger setting. It is always our goal that our buildings have an uplifting effect on their surroundings.

Integrated Design - We work in teams that follow projects from the first stages of planning through the completion of construction. The teams include all the necessary disciplines in a design process that is collaborative and highly interactive. Each team member understands the effect of their contributions on the design and the coordination of their work with others. The results are durable high performance buildings that are constructed on budget, with low operating and environmental costs, and that provide memorable settings for their occupants.

Perfido Weiskopf Wagstaff + Goettel is located in downtown Pittsburgh in a former City firehouse that dates from the 1890s. The high-ceilinged engine and crew rooms serve as our studios where we work together in an open office environment. We are equipped with state-of-the-art technology, utilizing networked PCs, and we are continually improving that technology in synchrony with new innovations in hardware and software. Depending on client need, the firm can use 'Building Information Modeling' (BIM) design tools, via *Revit* software, or the more traditional *AutoCad* software. In either case we use 3-dimensional modeling as a design tool, and we prepare photo-realistic images and virtual tours of design proposals.

About

Team Members

Noble Preservation Services, Inc.

Noble Preservation specializes in the preservation, restoration and rehabilitation of historic properties and the conservation of building materials. We offer a wide range of services to architects, institutions, organizations, contractors and building owners. Our services are not limited to one particular area, but include a breadth of disciplines related to historic preservation: architectural conservation, graphic documentation, historical research, building investigation and investment tax credit consultation.

Our offices and conservation laboratory are in Berks County, Pennsylvania, centrally located between Philadelphia, Harrisburg, New York City and the Baltimore-Washington Metropolitan area.

All staff members are academically trained in architectural history, which forms the basis for our approach to historical research. Our services include assembling National Register Nominations, National Historic Landmark Nominations, building histories, local and regional surveys, as well as research on deeds, wills and inventories.

Noble Preservation offers complete building diagnostics to analyze material problems and design appropriate conservation solutions. Our studies integrate on-site investigations, analysis in our architectural conservation laboratory, and cooperative research with Lehigh University and the University of Pennsylvania. We regularly complete analyses for masonry, paints and coatings, mortar, plaster and stucco, wood and metals.

Our projects synthesize and interpret historical and technical evidence gathered through research, diagnostics and testing to develop useful documents and plans such as Historic Structures Reports, building maintenance plans, Historic Building Preservation Plans, Adaptive Use plans, specifications, analytical reports and conservation studies. Each document is geared toward the goals and budget of each individual client and the needs of each individual property.

CLOWARD H₂O

Cloward H2O, a division of Cloward & Associates, provides comprehensive consulting engineering and design services with singular experience and qualifications in the design and engineering of aquatic features large and small throughout the world - from major marine parks to a single pool or fountain. This experience includes swimming pools, spas, water parks, theme park attractions, aquarium and zoo life support systems, lagoons, lakes, rivers and boat ways, marinas and fountains. In short - all things water. With 30 years of successful worldwide projects, Cloward H2O has designed some of the world's foremost aquatic leisure and marine facilities.

From its founding in 1977, Cloward H2O has developed a strong background in general civil, structural, mechanical and electrical engineering. With this experience and a specialty in water feature and aquatic life support system design Cloward H2O has gained worldwide recognition as one of the world's top water feature design firms.

Since every project is unique, Cloward H2O believes in customizing its design approach according to the specific needs of the project and its client. However, several strong building blocks of Cloward H2O's success and our clients' success are:

- * Cloward H2O's ability to understand a project's opportunities, constraints and context within its surrounding natural and cultural environment.
- * Cloward H2O's collaborative approach to design and implementation. We pride ourselves in our ability to work with a wide range of design professionals and project stakeholders to reach a highly creative design solution that meets the needs of the project and sparks a sense of pride and ownership by the community.
- * Cloward H2O's ability to develop a creative and imaginative design solution that can be implemented - this is how we earned our reputation for "always getting it built."
- * Cloward H2O's commitment to continuous involvement throughout the life of the project.
- * Cloward H2O's ability to select highly trained and creative professionals (within Cloward H2O and through the selection of subconsultants) that have the appropriate skills and expertise to respond to the needs of the project.



Atlantic Engineering Services, with offices strategically located in Pittsburgh, Jacksonville and Washington, D.C., provides consulting structural engineering services to the entire eastern portion of the U.S. including Boston, Minneapolis, Philadelphia, Cleveland, Norfolk, Charlotte, Birmingham, Orlando and Miami.

The organization's clients benefit from proactive structural engineers dedicated to searching out optimal solutions. The interaction of these engineers with other disciplines along with regional experience allows for enhanced design economies. Continuous interaction between designers and trained field observers helps assure that the design intent can be quickly understood and properly executed.

The practice is founded on the stable principals of synergy, creativity and timeliness. This successful philosophy is exemplified in more than 7,000 completed projects with a total constructed value of more than \$8.2 billion. The projects constructed over the past 38 years have been as high as 30 stories with a construction cost of more than \$120 million. Our experience includes hospitals and other medical facilities, laboratories, facilities of all kinds at institutions of higher learning, corporate offices and corporation headquarters, retail and warehouse facilities, distribution centers, telecommunications facilities, churches, recreational facilities, hotels and dormitories, residential structures of all types, and a range of military projects from housing replacement to carrier support facilities and airfield control.

Our projects also include restorations of many historic structures, several of which are on the National Register. AES's specialized approach to building preservation and restoration enables us to bring new life to old structures. This also applies to many of the non-historic renovations as well, where the real mark of excellence is often economy and simplicity of execution. AES uses state-of-the-art technology to increase the firm's ability to creatively engineer structural solutions for building designs. Our analytical productivity and project delivery is further increased by the use of data transmission and project collaboration opportunities on the Internet.



GAI Consultants, Inc. is a 650-person engineering and environmental consulting firm with over 50 years of experience delivering innovative engineering solutions. Through engineering expertise and a broad, deep knowledge of regulatory processes, we transform ideas into reality with solutions that make a real difference to our clients... solutions in energy, transportation, real estate, water, municipal, government, and industry.

Our vision for the future is to build upon over 50 years of success. To grow responsibly as a healthy, profitable engineering consulting firm. To anticipate the needs of our clients by keeping up with changing and improving technologies. To fully support our staff, so they can deliver on our promises to our clients.

Our Mission is to operate consistently, allowing our clients to benefit their communities' health and safety with the assurance that their projects will endure and withstand the test of time. We have one measure of success: our clients' satisfaction.



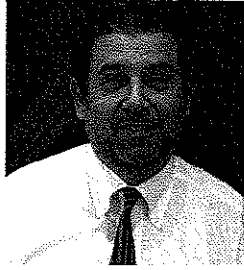
Morgan Property & Construction Consultants works to recognize an Owner's or Architect's needs and support those needs by utilizing our knowledge of the construction process, provide ongoing support and creativity, and provide flexible choices as a response to their changing demands and cost associated with a project's timely and successful completion.

Morgan Kronk, President, has over thirty years of commercial/multi-family construction experience and has been beneficial to both architects and owners in understanding their costs and supporting their projects throughout construction. As an owner's representative, cost estimator or construction manager, he has provided measurable value to their projects.



Alan Weiskopf, AIA

Principal-in-Charge **Perfido Weiskopf Wagstaff + Goettel**



Alan joined PWWG in 1981 as an associate and became a principal of the firm in 1986. He has served as the project architect or principal-in-charge of many of the firm's most significant projects, including several award winning projects. He has a wide range of experience in terms of project type and size, with a particular emphasis on higher education projects, projects involving restoration, renovation and preservation of culturally significant structures and hotel projects. He has also managed several of the firm's joint venture relationships. Among other activities, Alan is a past President of AIA Pennsylvania and has served on the Convention Center Design Commission Task Force for the David L. Lawrence Convention Center in Pittsburgh. He is a graduate of Leadership Pittsburgh, a past member of the Board of Code Review and he currently serves as Chairman of the Board of Standards and Appeals for the Bureau of Building Inspection in the City of Pittsburgh.

Education

University of Cincinnati
Bachelor of Architecture, 1975

Registration

Registered Architect in PA,
WV, MD, OH, IN, NY, NC & SC

Professional Associations

NCARB Certification
American Institute of Architects
Chairman, City of Pittsburgh
Board of Appeals
AIA Pittsburgh Board of
Directors (1990-1996)
AIA PA Board (1997-2001)
Member, Urban Land Institute
Member, CEO's for Cities

Notable Project Experience:

PA Historic & Museum Commission, Pennsylvania - three 5 year open-end contracts for historic restoration work
575 Broadway, New York, NY - adaptive reuse of historic urban building for office and museum uses
Main Capitol Rotunda, Charleston, WV - historic restoration of rotunda interior
Main Capitol Restoration, Harrisburg, PA - multi-phased historic restoration
Courtyard by Marriott Hotel, Pittsburgh - adaptive reuse of historic urban building for 182 room hotel
FORE Systems Campus, Warrendale, PA - high tech office and manufacturing campus - 5 buildings
Hamburg Hall, Carnegie Mellon University - renovation of historic building for academic facility
Oglebay Hall & Ming Hsieh Hall, West Virginia University - 55,000 sf historic renovation and 20,000 new building, LEED
Information Science & Technology Building, Penn State University - \$50 million academic building
Uhler Hall, Indiana University of Pennsylvania - academic building for psychology department
West General Robinson Street Garage, Pittsburgh - 10 story event garage with 1200 spaces
West Virginia Capitol Building Three, Charleston, WV - renovation of historic office building
Pittsburgh International Airport, Pittsburgh - addition of landside and airside building passenger elevators
Metropole Hotel, Cincinnati, OH - rehabilitation of historic downtown hotel for new upscale 170 room hotel

Joe Filar AIA, LEED AP

Project Manager **Perfido Weiskopf Wagstaff + Goettel**



Joe began his professional career working in New York City, first for Castro-Blanco Piscioneri and Associates and then for Carpenter/Grodzins. After working in New York City, Joe moved back to Pittsburgh in 1999 and joined Perfido Weiskopf Architects as an intern architect. He became licensed and an associate in the firm in July of 2003. Joe has a broad range of design experience as a project architect on diverse project types including higher education, market rate and subsidized housing, corporate offices, and historic rehabilitation of landmarks buildings. Several of his projects have received awards from the Pittsburgh and Pennsylvania chapters of the AIA.

Notable Project Experience

West Virginia State Office Building No.3, Charleston, WV - historic renovation of a 154,000 sf office building, LEED
Dixie Cup Factory Lofts, Easton, PA - 588,000 sf historic factory renovation into +/- 300 one and two bedroom units
Oglebay Hall & Ming Hsieh Hall, West Virginia University - 55,000 sf historic renovation and 20,000 new building, LEED
R. B. Harrison Village, McKeesport, PA - conversion of 3 story walkups to townhouse apartments
Courtyard by Marriott Hotel, Pittsburgh, PA - conversion of 9-story historic building into a 182-room downtown hotel
Palace Theatre, Greensburg, PA - restoration and renovation of historical theatre and administrative spaces
Information Sciences & Technology Building, Pennsylvania State University - new 200,000 sf campus building
Three Rivers Center for Independent Living, Wilkinsburg, PA - conversion of a nursing home into a disability center
Marconi Communications, Buildings 5 and 6, Warrendale, PA - headquarters buildings in a corporate campus
Pittsburgh International Airport, Pittsburgh, PA - addition of private/public elevators in the airside terminal

Education

Penn State University
Bachelor of Architecture, 1995
Sede di Roma - Foreign
Studies Program, 1993

Registration

Registered Architect in PA,

Professional Associations

American Institute of Architects
National Historic Trust
Pittsburgh History &
Landmarks Foundation
Pittsburgh Downtown
Partnership

Richard Miller, AIA, LEED AP

Quality Assurance/Quality Control **Perfido Weiskopf Wagstaff + Goettel**



Education

Carnegie Mellon University
Bachelor of Architecture, 1975

Registration

Registered Architect in PA, WV
and MD

Professional Association

American Institute of Architects
CSI Certified
National Trust for Historic
Preservation, Preservation
Forum Member

Richard has over 30 years of experience with a wide range of building types including new construction and renovations. In addition to serving as a project manager on projects, he has managed the construction administration of jobs ranging in value from \$100,000 to well over \$50,000,000. Richard oversees the construction administration phase of all PWWG projects and personally handles the construction administration for the firm's largest and most demanding projects. He also plays a critical role in our quality control process, bringing seasoned field experience to the review of project design and documentation.

Notable Project Experience:

Oglebay Hall & Ming Hsieh Hall, West Virginia University - 55,000 sf historic renovation and 20,000 new building, LEED
Information Science & Technology Building, Penn State University - \$50 million academic building
Uhler Hall, Indiana University of Pennsylvania - academic building for psychology department
West General Robinson Street Garage, Pittsburgh - 10 story event garage with 1200 spaces
McKeesport Housing Authority, McKeesport, PA - master planning and design implementation for public housing
Community Building, Clairton, PA - renovation and addition to community facility for housing development
Hope VI - Allequippa Terrace, Pittsburgh, PA - planning and apartment design for market rate/public housing

Timothy M. Noble

President **Noble Preservation Services, Inc.**

Education

University of Pennsylvania
Graduate Program in Historic
Preservation

Master of Science, Historic
Preservation, Emphasis in
Materials Conservation, 1983.

Apprenticeship in Construction,
Conservation and Restoration
of Stringed Instruments with
Master Luthiers Arthur
Falardeau and Andrew Boarman
Apprenticeship, 1974-1977.

Conservation and Restoration
of Stringed Instruments, Antique
Furniture and Decorative Arts
Full time practice in restoration/
conservation of antique objects
including metals, wood, finishes
and accessories. 1974-1983.

Pennsylvania State University
B.A., GSA, Emphasis in
American and European
History, 1974.

Registration

Licensed Professional
Engineer in PA, DC, ME, MA,
MI, MN, NY, OH, RI, UT, VA,
and WV. Mr. Schneider is
NCEES certified.

Notable Project Experience:

Preservation Consultant Services for PHMC Historic Sites and Museums, 5-year Contract, Harrisburg, PA
Pennsylvania State Capitol, Harrisburg, PA. Restoration of the Peristyle, Moisture Monitoring and Materials
Conservation

World Food Prize/Des Moines Public Library, Des Moines, Iowa

Green Hills, National Historic Landmark, National Historic Landmark Home of Noted Author and

Humanitarian Pearl S. Buck. Perkise, PA 2002 - 2008

Converse House, 1610, Locust Street, Phila. PA.

Oglebay Hall, University of West Virginia, Morgantown, WV

Clara Barton Apartment, Founder of the American Red Cross, Washington D.C.

Single Sisters House- Salem College, National Historic Landmark 1785 Moravian Building, Winston Salem, NC.

York County Courthouse, York, PA

Preservation Consultant Services for PHMC Historic Sites and Museums, 5-year Contract, Harrisburg, PA

Bethlehem Steel Merchant Mill #2 Annex, Bethlehem, PA

Hedge-Carpenter-Thompson Historic District, Salem, NJ

Iowa State Capitol, Des Moines, IA

Pennsylvania State Capitol, Harrisburg, PA.

Professional Memberships: National Trust for Historical Preservation

Professional Affiliations: Member of City of Pittsburgh, Board of Standards and Appeals

Member of City of Pittsburgh, Board of Code Review

Corry M. Cloward, P.E.
Principal **Cloward H2O**

Education

B.S. Civil Engineering -
Brigham Young University,
1997

Registration

Licensed Professional
Engineer – UT, AZ, NY, TX,
CT, Puerto Rico
NSPF Certified Pool Operator

Mr. Cloward has built a very successful international reputation in water features design for projects in 13 foreign countries and several US states and territories. Mr. Cloward's resume includes aquariums, resort hotels, theme parks, water parks, private developments and public facilities.

Mr. Cloward's key project roles and responsibilities within the organization include: Coordination and design of aquatic life support, water feature, and water treatment systems, providing written specifications, submittal reviews, as well as construction inspection and system start-up. Highlights of Mr. Cloward's relevant experience include:

Atlantis Resort - Palm Jumeirah, Dubai

The Atlantis Resort in Dubai boasts over 10.5 Million gallons of marine habitats, including a dolphin interaction lagoon, a massive shark tank with waterslides going through the tank, and a huge main exhibit at the hotel that is 9.5 meters deep and designed to house multiple manta rays and whale sharks. The waterpark component of the project has 5.5 Million gallons of pools and rivers, multiple waterslide, kids water play structures, and 2 interconnected downhill whitewater rapids rivers, the first of their kind in the Middle East.

Atlantis Phase III Expansion – Nassau, Bahamas

The latest addition to Atlantis in the Bahamas includes a 6 Million gallon swim with the dolphins experience. It also includes the addition of Aquaventure, a 3.9 Million gallon waterplay experience that boasts whitewater rapids, a tidal wave river, multiple slides, and the opportunity to ride all of it without ever getting out of your tube. Conveyors lift guests to the elevated river as well as up the slide tower, providing the ultimate waterpark experience.

uShaka Island Marine Park – Durban, South Africa

With over 4.3 million gallons of aquarium exhibits, uShaka Island Marine Park is one of the ten largest aquariums in the world. Special features include an open ocean tank, a snorkel lagoon, a 'swim with the dolphins' experience, and many other exhibits. The project will also include a retail and entertainment complex, and a waterpark. Design responsibilities include the life support systems and water features engineering for the project.

Allen Clawson
Project Manager **Cloward H2O**

Education

B.S. Mechanical Engineering
– California Polytechnic State
University, San Luis Obispo,
1994

Mr. Clawson has built a very successful international reputation in water treatment and equipment design. As Director of Engineering for a major equipment manufacturer Mr. Clawson was directly responsible for developments and technologies in water treatment now standard practice in Swimming Pools, Aquatic Life Support, Agri-Food and Surface Sanitation. Mr. Clawson holds or is named on numerous patents and has published many articles and papers relating to these fields.

Mr. Clawson's resume includes work on and support for aquariums, zoos, resort hotels, theme parks, water parks, aquaculture facilities, government research, agri-food, private developments, and public facilities throughout the US and in 16 foreign countries. Mr. Clawson has worked directly with the US EPA, US FDA, NSF, UL and others developing policies and evaluation criteria for water treatment and sanitation technologies and has been active for many years in trade organizations such as AZA, AALSO, IOA, NSPI and WQA.

Mr. Clawson's key project roles and responsibilities within the organization include: Design technology review, coordination and design of aquatic life support, water feature, and water treatment systems, providing written specifications, submittal reviews, as well as construction inspection and system start-up. Highlights of Mr. Clawson's relevant experience include:

Development and Implementation of High Efficiency Ozonation Systems: Developed and standardized ozone generator and side-stream ozone injection design gaining industry and regulatory approval. Also responsible for development of surface sanitation ozone technology applied to food processing, food packaging, recreational and life support facilities. Industry Service: Since 1994 Mr. Clawson has worked with Aquariums, Zoos, Commercial & Residential Pools, and various other water-related industrial applications providing technical assistance, troubleshooting, startup, commissioning, and training.

Key Lime Cove – Gurnee, Illinois: A luxurious Caribbean themed resort and indoor waterpark recently opened in the Chicago area. Responsibilities included design and construction oversight of the indoor waterpark pools, slides, features, treatment systems, and controls.

Cabela's Stores – 18 Individual Stores throughout the US: Premier outdoor outfitters with theming and aquariums making each store a regional destination. Responsibilities included design engineering of Life Support Systems for aquarium exhibits and pond/waterfall systems for each individual store

David Gilmore, RLA, CLARB

Landscape Architecture Services Manager **GAI Consultants**

Education

BSLA, College of Agriculture & Forestry, 1988 West Virginia University

Registration

Council of Landscape Architectural Registration Board Certified
West Virginia Professional Registered Landscape Architect # 247
Indiana Professional Registered Landscape Architect # LA 20700137
Pennsylvania Professional Registered Landscape Architect # LA 002737
Kentucky Professional Registered Landscape Architect # LA 768
Ohio Professional Registered Landscape Architect # 0801200

Mr. Gilmore joined GAI Consultants in 2005 to manage the firm's land development and landscape architectural services. The central focus of his practice is on the continued development of the firm's site design and landscape architecture projects throughout the eastern United States, while providing landscape architectural support to all of GAI's offices and clients.

Prior to joining GAI Consultants, Mr. Gilmore worked for a multi-disciplinary A&E firm in Charleston, South Carolina, providing architectural, engineering, landscape architectural design services. While working in South Carolina, Mr. Gilmore was involved with campus master designs for many colleges and universities, large downtown streetscapes and subdivision layout and design. Mr. Gilmore later worked with a landscape architectural and design firm in Charlottesville Virginia, where he continued his professional development working on a wide range of projects for both the public and private sector. After returning to West Virginia in 1991, Mr. Gilmore has specialized in site design, land planning, streetscapes and parks and recreational design for numerous public and private clients in West Virginia and Eastern United States.

Mr. Gilmore currently serves as Land Development Services Manager and Landscape Architectural Services Manager for the Charleston branch of GAI Consultants. In this capacity, Mr. Gilmore brings twenty years of experience on a diverse range of projects covering all aspects of landscape architectural design in both the public and private sector. Mr. Gilmore's experience includes but is not limited to construction document and technical specification preparation, site analysis, schematic design, construction administration, master and land use design (resorts, parks, recreational, residential, industrial, and commercial), streetscape and municipality improvements, landscape and hardscape design, and graphic presentation drawing. Mr. Gilmore also performs project management on related projects, and has won two Merit awards from the West Virginia Chapter of the American Society of Landscape Architects (WVASLA).

Mark Shawl, RLA

Lead Landscape Architect **GAI Consultants**

Education

BSLA, College of Agriculture & Forestry, 1994 West Virginia University

Registration

West Virginia Professional Landscape Architect No. 316
North Carolina Professional Landscape Architect No. 1051
South Carolina Professional Landscape Architect No. 812

Mr. Shawl has 14 years of experience on a diverse range of projects encompassing all aspects of landscape architectural design in both the public and private sector. Experience includes, but is not limited to: project management, construction document and technical specification preparation, site analysis, schematic design, construction administration, master & land-use planning (parks, recreational, residential, institutional, commercial), streetscape and municipality improvements, landscape and hardscape design, graphic presentation drawing.

Additional Experience:

Streetscape / Urban Revitalization:

- Richland County Gateway Revitalization, Columbia, South Carolina
- Tuckaseegee Road Streetscape, Charlotte, North Carolina
- Troutman Pedestrian Corridor Study, Troutman, North Carolina
- Little Sugar Creek Greenway, Charlotte, North Carolina

Parks & Recreation:

- Burke County Regional Park, Burke County, North Carolina
- Manchester Soccer Complex, Rock Hill, South Carolina
- Cane Creek Park Phase 2, Union County, North Carolina
- Jessie Helms Park, Union County, North Carolina
- Triad Park Phase 5 and 7, Guilford County, North Carolina
- Gayle Community Park, Chester County, South Carolina
- U.S. Fish and Wildlife Service – Waccamaw National Wildlife Refuge, Georgetown, S.C.
- Paramount Parks Master Planning, NC, VA, OH, CA
- Paramount Parks Carowinds, Animation Station, Charlotte, North Carolina
- Paramount Parks Carowinds, Stealth Coaster, Charlotte, North Carolina
- Salisbury Community Park Greenway, Salisbury, North Carolina
- Jack D. Hughes Park Master Plan/Phase 1, Pineville, North Carolina

James A. Hemme, P.E., L.R.S.

Senior Project Manager **GAI Consultants**

Education

B.S. Civil Engineering, 1989
West Virginia University
Institute of Technology
Marshall University Graduate
College, Environmental
Engineering Coursework

Registration

West Virginia Professional
Engineer No. 12195
Kentucky Professional
Engineer No. 25437
Ohio Professional Engineer
No. 72851
Indiana Professional Engineer
No. 10809277
Pennsylvania Professional
Engineer No. 75494
New York Professional
Engineer No. 85794
West Virginia Licensed
Remediation Specialist No.
003

Mr. Hemme specializes in site engineering, including planning, permitting and stormwater management, with emphasis on parks and recreation areas and streetscapes. He brings a multi-disciplinary background to projects and this enables him to see the "big picture" of what will be needed to take a project from start to finish. Mr. Hemme is also competent in geotechnical engineering, environmental disciplines including NEPA compliance, and transportation services. He has worked extensively with private developers, architects, municipalities and government agencies.

Mr. Hemme has worked on landfills, quarries, mines, industrial, and commercial sites and facilities. He has performed numerous Phase 1 Environmental Site Assessments (ESAs) providing solid waste, industrial waste, and Erosion and Sediment (E&S) control permitting. Mr. Hemme designs storm water management systems, site developments ranging from 1 acre to over 60 acres in size, and wetland mitigation areas. He prepares geotechnical reports, flood plain modeling, highway and roadway designs, right-of-way plans, detailed construction plans, and cost estimates for projects ranging from \$10,000 to over \$2 million in construction cost.

Mr. Hemme volunteered his time and knowledge to assist with preparation of the Greater Charleston Greenway Initiative by the West Virginia Land Trust Company in Charleston, West Virginia. He authored the analysis section of the report and peer-reviewed the entire document. Mr. Hemme is a current volunteer with the Riverside South Committee, which is working with the Charleston Land Trust to beautify and possibly promote pedestrian access on the south side of the Kanawha River. He has developed schematic plans and reviewed narratives for inclusion into several progress updates to the Land Trust.

John M. Schneider, P.E.

Vice President **Atlantic Engineering Services**

Education

Bachelor of Architectural
Engineering
Pennsylvania State University,
1983

Registration

Licensed Professional
Engineer in Pennsylvania,
District of Columbia, Maine,
Massachusetts, Michigan,
Minnesota, New York, Ohio,
Rhode Island, Utah, Virginia,
and West Virginia. Mr.

Schneider is NCEES certified.

Professional Memberships:

National Trust for Historical
Preservation

Professional Affiliations:

Member of City of Pittsburgh,
Board of Standards and
Appeals
Member of City of Pittsburgh,
Board of Code Review

Mr. Schneider began consulting for architects on structures in 1983. He has served as project manager and project engineer for a wide variety of facility studies, new construction/renovation, building additions and historic preservation projects, both in the United States and overseas. Mr. Schneider's experience includes many projects for the federal government. His duties include day-to-day project supervision, project scheduling for the entire organization, and coordination with other consultants.

Mr. Schneider has acted as senior project engineer for historic preservation, renovation, and new construction projects. Recent projects directed by Mr. Schneider range in size from as small as \$1 million to as large as \$110 million. His work includes the design of hotels, condominiums and other residential projects. One project, the First Year Residence Hall at Carnegie Mellon University, a six-story, \$11 million student apartment building, recently received a Silver LEEDS designation, the first residence hall in the United States to do so. His work also includes the 10-story Upper Campus Housing Phase 2 project at the University of Pittsburgh, a 513-bed dormitory building, and the Wilson Lodge Addition, a 53-room addition to Wilson Lodge in Oglebay Park, West Virginia.

Mr. Schneider's recent experience with the design and construction of other residential communities includes the award winning projects for the Masonic Village at Sewickley, PA (Platinum Award in 2004) and the Collington Episcopal Lifecare Community, Mitchellville, MD (Silver Award in 2003), as well as work with the Longwood at Oakmont Assisted Living Community and Laurelbrook Landing at Brookville, PA.

Evan A. Rowles, P. E.

Senior Associate / Senior Project Manager **Atlantic Engineering Services**

Education

Bachelor of Architectural
Engineering
Pennsylvania State University,
1984

Registration

Licensed Professional
Engineer in Pennsylvania,
Maryland, Michigan, Ohio,
Virginia and West Virginia. Mr.
Rowles is NCEES certified.

Professional Memberships:

American Concrete Institute
International Concrete Repair
Institute, Founding Member,
Pittsburgh Chapter
Past President, Pittsburgh
Chapter
Current Director, Pittsburgh
Chapter

Mr. Rowles has 23 years of experience with a wide variety of projects in the capacity of both Project Manager and Project Engineer. He has compiled a long list of successfully completed structures ranging from educational projects, hospitals, and corporate headquarter buildings to parking garages.

In addition to his work on new construction, Mr. Rowles' specialty is concrete rehabilitation and repair. Nearly half of his 160 plus repair and renovation projects have involved the rehabilitation and repair of concrete parking garages, apartment/condominium buildings and other concrete structures. His efforts with on-site structural evaluations, load surveys, condition surveys, building inspections, feasibility studies, and construction observation have contributed greatly to Mr. Rowles' expertise on existing structures. This experience has also resulted in Mr. Rowles' involvement with forensic investigations and the litigation of building deficiencies as an expert witness. Mr. Rowles was also the senior design engineer for the Allegheny County Jail Adaptive Reuse project to renovate the jail for use as the Allegheny County Family Court and Offices. His other work with renovations of historic structures includes the First United Methodist Church in Shadyside and the Smithfield United Church in Pittsburgh.

Morgan P. Kronk

Principal-in-Charge **Morgan Property & Construction Consultant, Inc.**

Memberships

Rebecca Residence, Board of
Directors (Secretary, Executive
Committee)
American Institute of Architects
(Affiliate Member)
Building Officials & Code
Administrators (Affiliate
Member)

We work to recognize an Owner's or Architect's needs and support those needs by utilizing our knowledge of the construction process, provide ongoing support and creativity, and provide flexible choices as a response to your changing demands and cost associated with a project's timely and successful completion. We will exceed our client's expectations and help create the optimum value of their projects.

Additional Experience:

Morgan Construction Companies, Robinson Township, PA
Principal-in-Charge, 1986-2001
Tedco Construction Corporation, Pittsburgh, PA
Vice President, 1977-1986
Massaro Corporation, O'Hara Township, PA
Field Engineer Estimator, 1975-77
Michael Baker Corporation, Beaver, PA
Surveying Party Chief, 1974-75

Ability to handle project in its entirety

As illustrated in other sections such as project organization and project approach of this EOI, PWWG and our consultants are uniquely able to handle your project in its entirety through all phases. Not only do we rely on the experience of our staff of professionals but those of our consultants. To manage the team of professionals we rely on technology to facilitate the work.

Technology

PWWG utilizes a networked system of Pentium processor based workstations, running on Microsoft's Small Business Server, for virtually all of the architectural and normal business functions of the firm. This system is used to design, and produce construction drawings and specifications, to produce schedules, and provide the normal business office functionality of electronic communications. Our designs are produced on Autodesk's Architectural Desktop 2005 software that is fully compatible with all versions of AutoCAD. We are also equipped with Building Information Modeling (BIM) software, REVIT, and based on client needs we can design and produce the project in BIM.

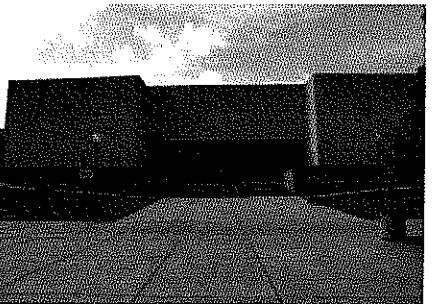
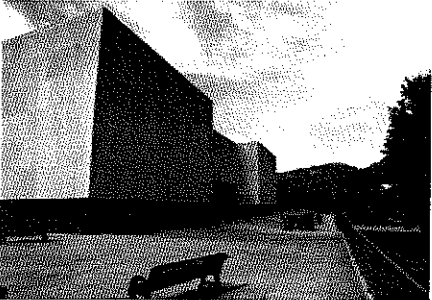
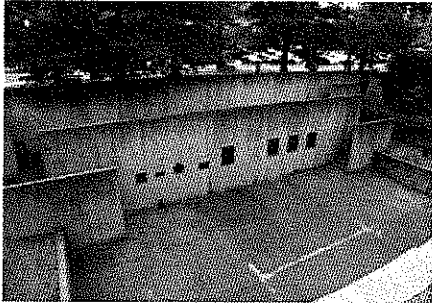
In the design phases of a project, we construct three-dimensional models with Autodesk's 3D Studio that allows us to create photo-realistic images and virtual walkthroughs of design proposals. We generate perspective views with our CAD system while experimenting with color, transparency, materials, textures, light and shadow. Thus, we are able to rapidly investigate a broad range of design options and accurately develop designs for effective working meetings and presentations. The office also has Adobe PhotoShop, PageMaker and Illustrator programs that can be utilized as appropriate.

In the construction documents phase, and where appropriate, we utilize a password protected portion of our website for the posting and exchange of current drawing information with our consultants. This use of the technology has proved to be faster and more reliable than email exchange of information with our consultants. In addition, we have also utilized VPN connections to team members where very frequent exchanges of drawings are required.

In the construction phase we use standard database software for the management of construction phase documentation, including RFI's and ASI's.

Work Property Ownership

PWWG 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.



Site Photos - Building #9

Conformance with Codes and other requirements

Building and Life Safety Code Compliance

Over the past 30 years PWWG has developed substantial experience in the thoughtful analysis of the code compliance issues associated with new building design and construction that achieves code compliance with minimal intrusion of the desired architectural character of the project.

PWWG begins applying code issues in the early planning stages of every project. Building design options are often evaluated with regard to the code ramifications and solutions. We begin an open dialogue with code officials so that the project parameters are familiar to them as the project progresses.

ADA Compliance

In addition to simply understanding the rules, PWWG can provide the judgment that is necessary to efficiently apply these regulations in ways that satisfy their intent and make spaces accessible. Through dialog with the stakeholders, accessibility issues can be prioritized and documented for successful inclusion in the building design.

LEED

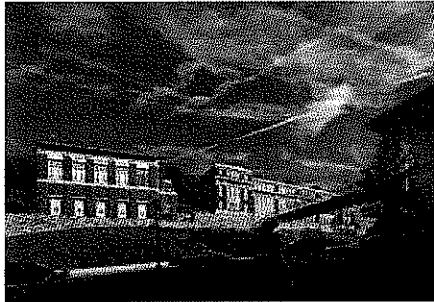
PWWG is committed to integrated design that in turn facilitates the efforts to provide sustainable facility design for our clients. The built environment is responsible for the majority of the impact on the future of the planet and its inhabitants. Through careful design we are able to provide the people that inhabit these buildings with a healthy environment for any intended purpose. Our staff includes eleven accredited professionals in the LEED program. Our designs will be sustainable regardless of any desire to obtain certification.

Litigation

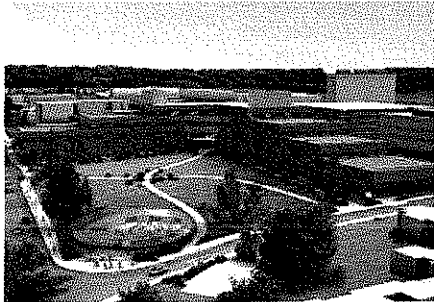
There are no litigation or arbitration hearings, including vendor complaints filed with the State's Purchasing Division relating to PWWG's delivery of design services.



1



2



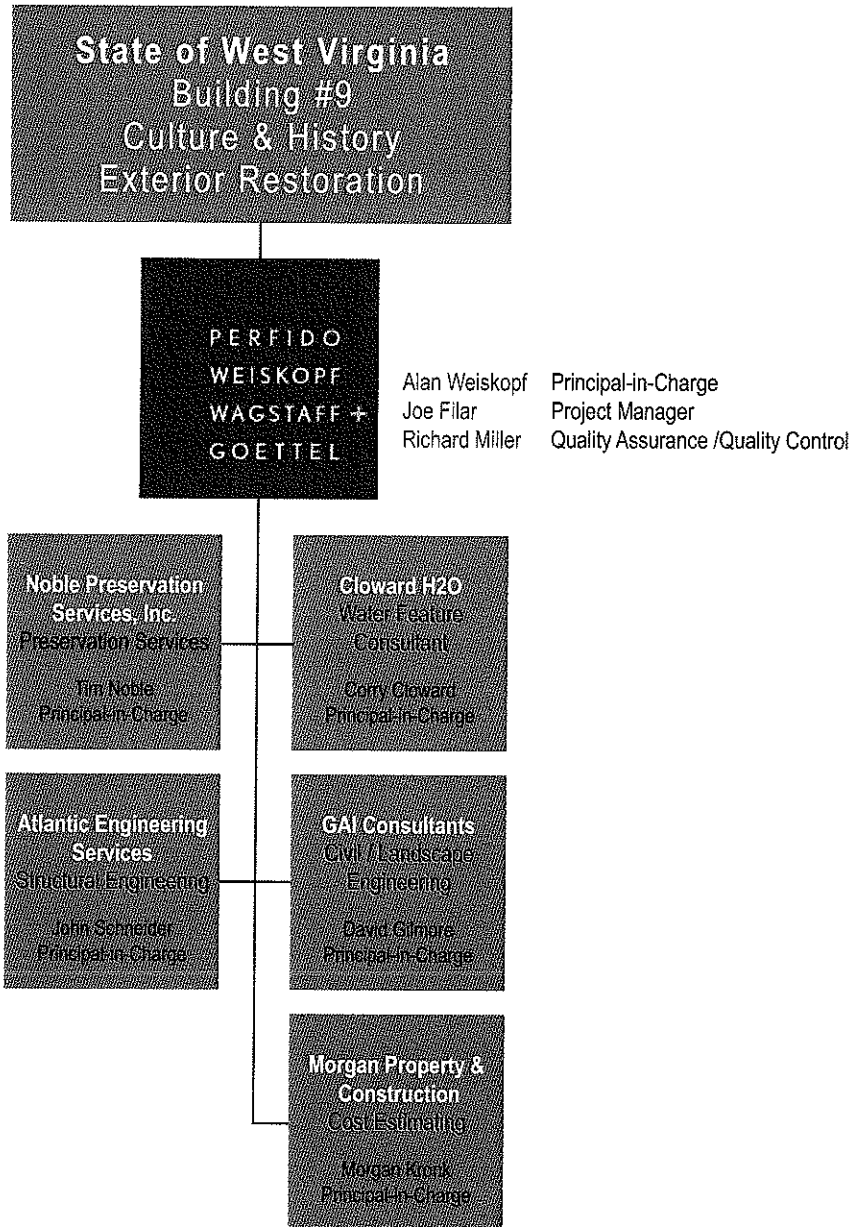
3

Oglebay Hall and Ming Hsieh Hall, WVU, WV (1 & 2)
Millennium Science Complex, Penn State University, (3)

SECTION 3
PROJECT ORGANIZATION

Team management personnel
Organization chart
Ability to provide services

Organization Chart



SECTION 4

DEMONSTRATED EXPERIENCE IN COMPLETING PROJECTS

Description of relevant projects

References

West Virginia State Capitol Rotunda

Charleston, West Virginia **Perfido Weiskopf Wagstaff + Goettel**

Size Not Applicable

Construction Cost

\$ 1,000,000

Firm Responsibility

Preservation Research

Architectural Design

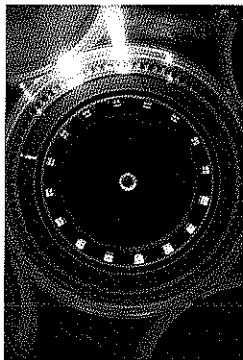
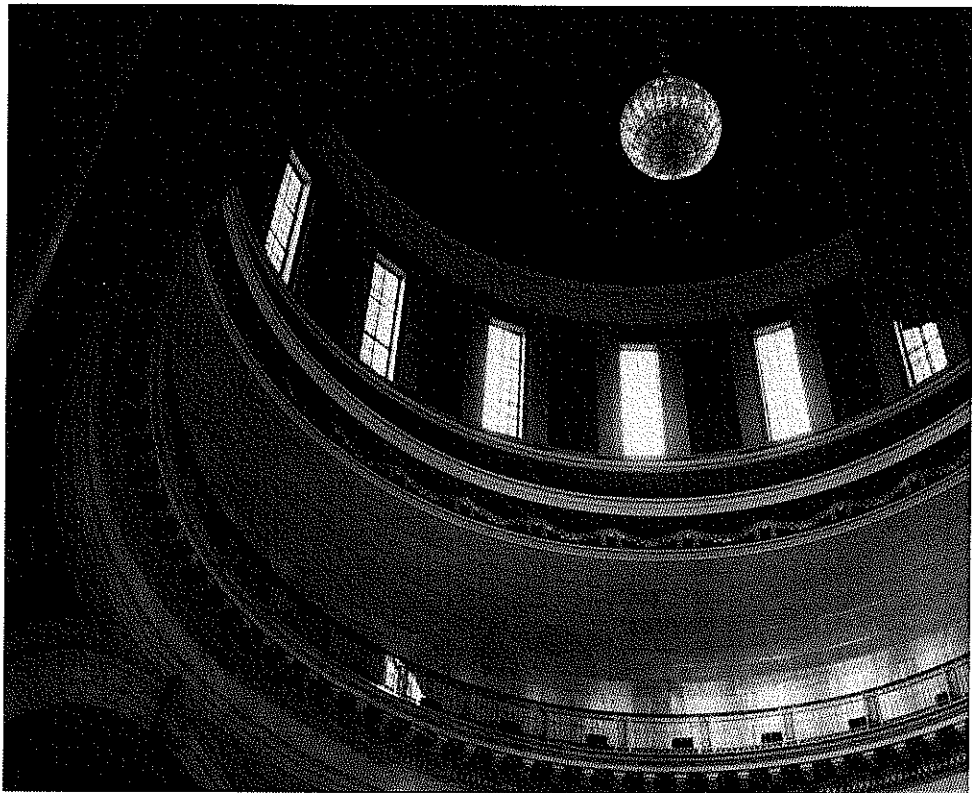
Contract Documents

Contract Administration

Completion Date 1996

Client

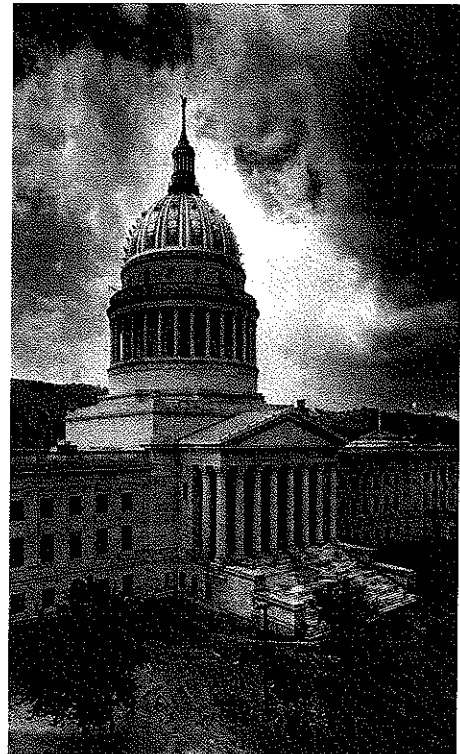
State of West Virginia

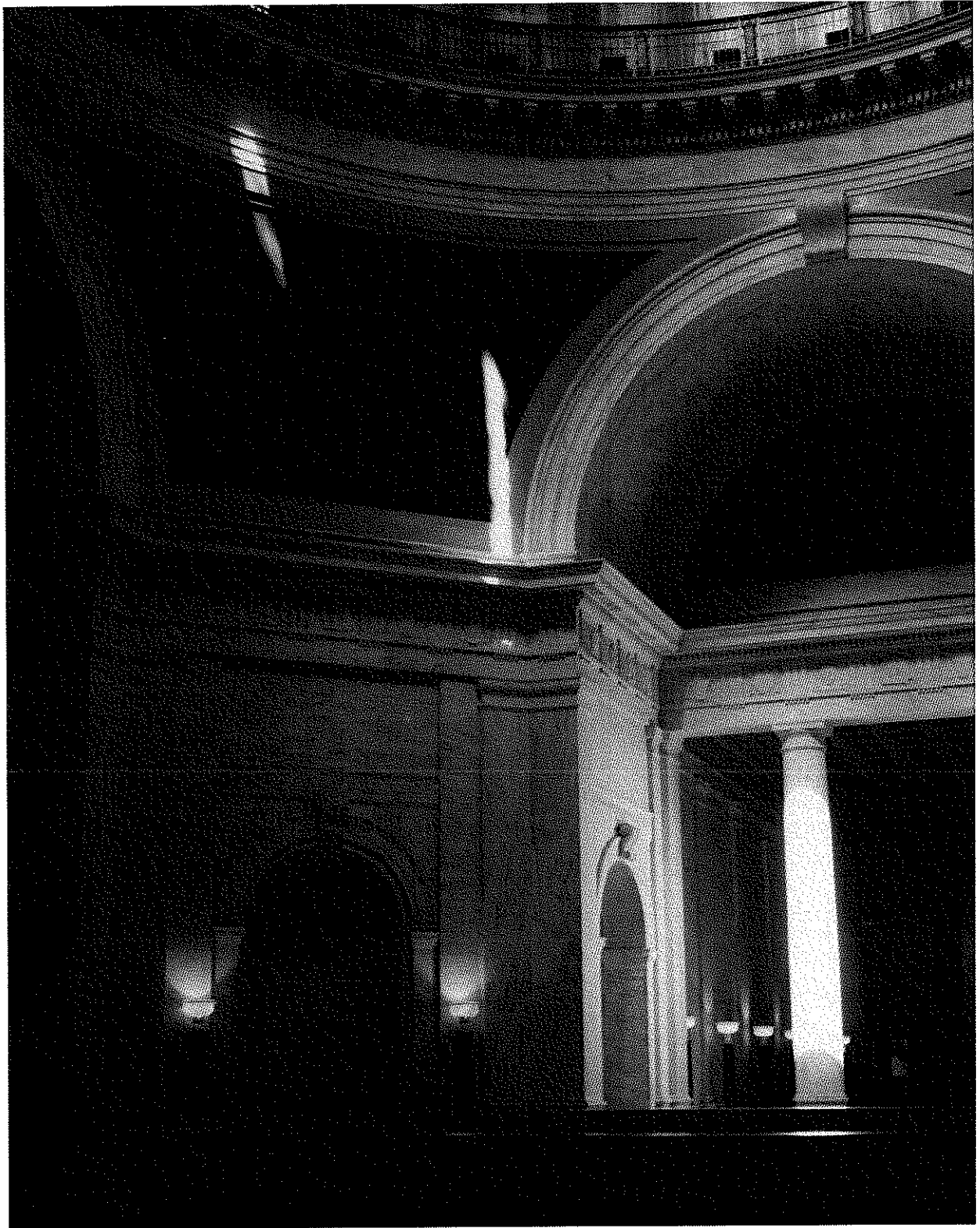


The West Virginia Capitol Rotunda project involved the restoration of the interior surfaces of West Virginia's main capitol dome and rotunda walls, and analysis and remedial repairs to substrate conditions affecting the inner surfaces of the dome and walls. In addition, the firm was responsible for preparing conceptual scaffolding designs, establishing detailed criteria for the final design, and engineering the scaffolding system that was to be chosen.

Detailed data collection and research were required in order to determine the original colors and materials. Working with our preservation consultant, Noble Preservation Services, we conducted on-site investigations to collect paint, plaster, mortar, and sealant samples and to document field conditions. A review of the State's archives confirmed the clues we obtained in the field as to the original methods used to construct and paint the dome.

Remedial work beyond the interior finishing included the removal of deteriorated exterior stone sealant joints and their replacement with lead-capped joints, as well as the relining of an interior gutter around the base of the inner plaster dome that was designed to shed water infiltration. The work included a detailed analysis of the hollow, clay-tile fireproofing and extensively cracked walls, and the design of appropriate remedial repair.





Pennsylvania Capitol Building Restoration

Harrisburg, Pennsylvania **Perfido Weiskopf Wagstaff + Goettel / Graves / Noble Joint Venture**

Size N/A

Construction Cost

\$ 25,000,000

Firm Responsibility

Preservation Research
Materials Testing/Analysis
Design

Contract Documents

Contract Administration

Completion Date 2005

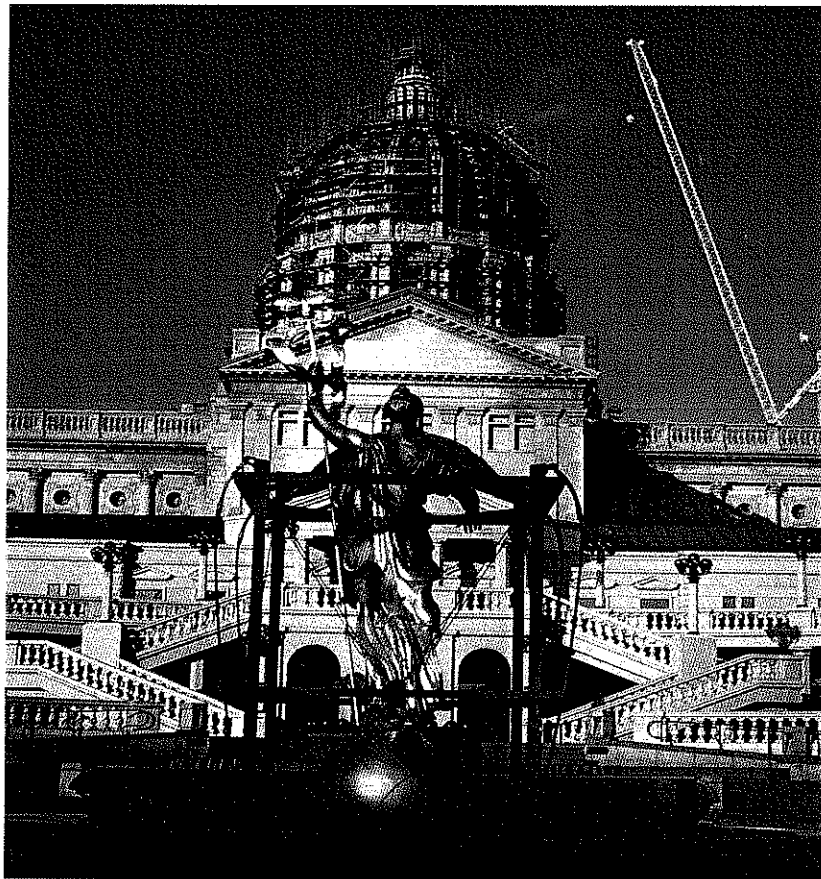
Client

Pennsylvania Dept. of
General Services

Awards

Keystone Assoc. Builders &
Contractors, Award of Excel-
lence, 2000

Preservation Pennsylvania
Historic Preservation
Achievement, 1999



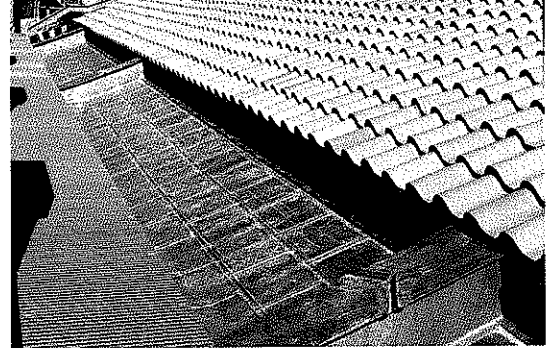
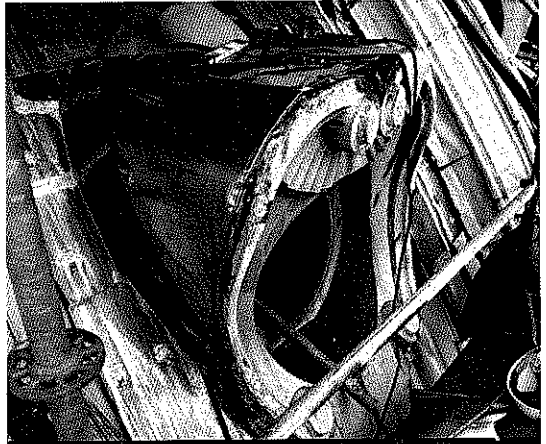
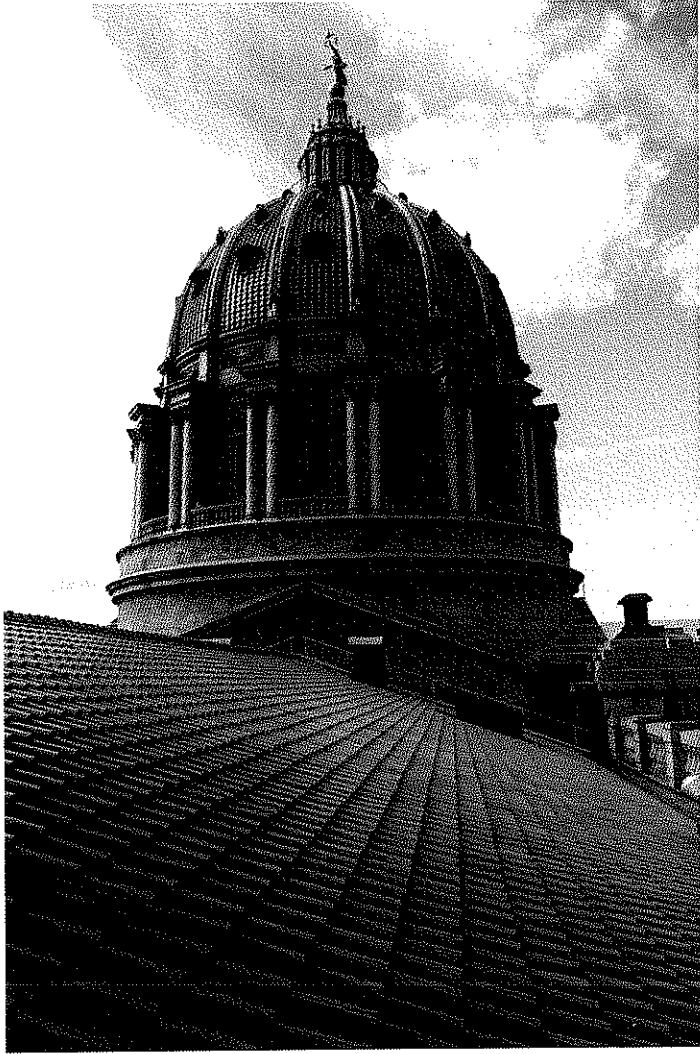
As a joint venture with Graves Architects and Noble Preservation Services, Perfido Weiskopf Wagstaff + Goettel facilitated the rehabilitation of the historic 1906 Main Capitol Building in Harrisburg for the Department of General Services. The project included all restoration, preservation, and conservation work needed to rehabilitate the roof, domes and cupolas, the masonry, the windows, and the exterior paving and steps. The cupola's "Commonwealth" statue was restored and re-gilded, a task last accomplished in 1945.

One of the principal challenges of the project was restoring the building envelope consistent with sound preservation philosophy, while also introducing new elements to improve its integrity and allow it to withstand the next 50 to 75 years. Nowhere was this challenge more difficult than the roof. The glazed "Harrisburg Yellow" tiles covering the north and south domes had been installed over a steel-purlin system, without the use of a deck or membrane. The gutters at the base of the gabled roofs were promenade tile with conventional mortar joints. They leaked constantly.

The solution to the dome problem involved the installation of new, custom-made, multi-colored tile, carefully matched to the original design and installed over a new deck with a watertight membrane roof. The curvature of the domes was preserved so that their decorative copper elements could be reinstalled after repair.

The gutters, which are not visible from ground level, were entirely redesigned, and consist of lead-coated copper drainage basins with separate roof drains for each basin. The structure of the gutters was rebuilt at a lower elevation so as to prevent water from coming into contact with the granite surfaces, and to keep it from backing up under the new gabled-roof areas.

The project was constructed in phases over the course of several seasons, and in concert with the other interior projects at the Capitol. The building was user-occupied throughout construction.



Oglebay Hall & Ming Hsieh Hall, West Virginia University

Morgantown, West Virginia **Perfido Weiskopf Wagstaff + Goettel**

Oglebay Hall Size

55,000 s.f. renovation

Ming Hsieh Hall Size

20,000 new building

Construction Cost

\$ 20,000,000 combined

Firm Responsibility

Programming

Architectural Design

Contract Documents

Contract Administration

Completion Date 2008

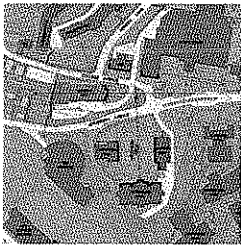
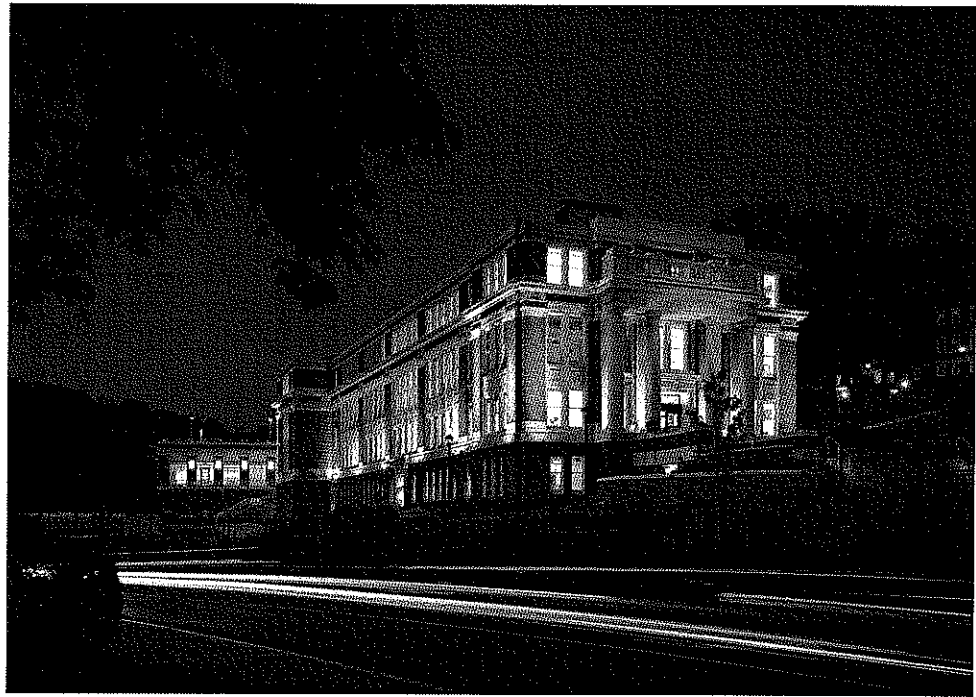
Client

West Virginia University

Certifications

National Register Listed

LEED Certified



Campus Paths and Places

When classes change, as many as 3000 students are moving through the two buildings and the site. Consequently, the design maximizes ways in and out of both buildings, capitalizing on the slope of the site to create "at grade" entrances at four different levels. Paths are organized to link to the existing patterns of movement, integrating stairs and bridges to navigate the grade changes. Places are provided for students to linger and gather. An oval plaza at the front of Oglebay Hall serves memorial functions for the University and incorporates a mast from the USS West Virginia. A terrace between the buildings becomes an intimate outdoor room with a view.

Vehicular Access, Conflict and Parking

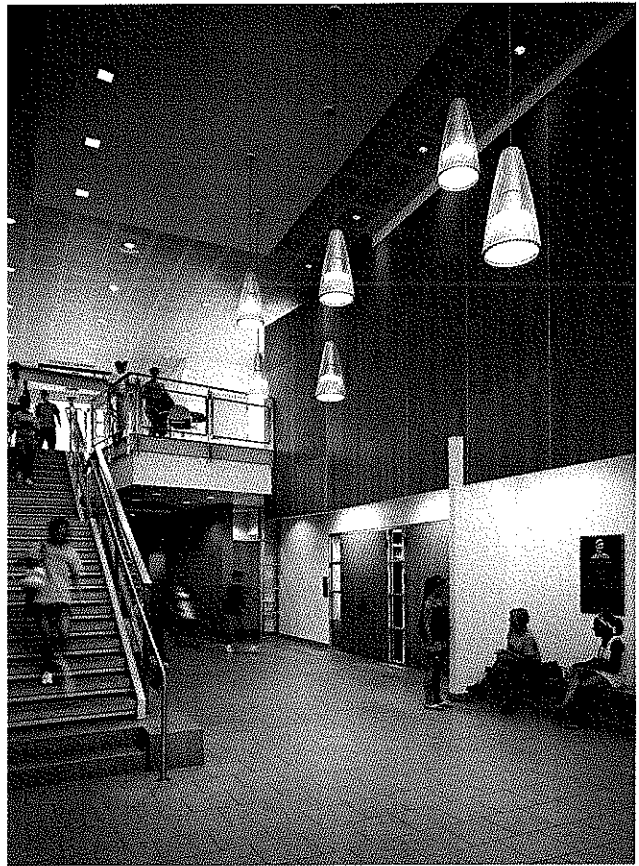
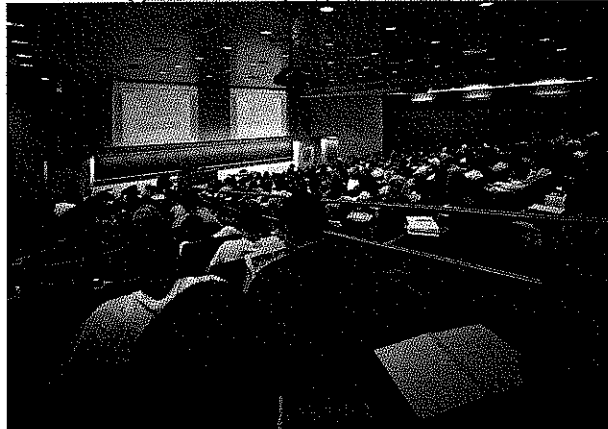
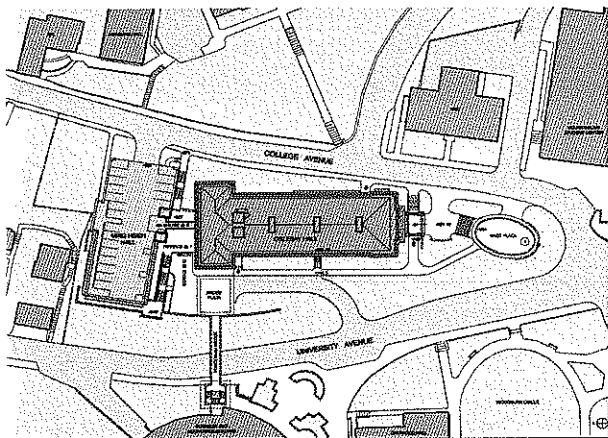
By relocating surface parking to the roof of Ming Hsieh Hall and rerouting the service entrance, fragmented pedestrian paths were stitched together and impervious surface area was reduced despite the construction of a new building. A pedestrian bridge crosses University Avenue alleviating the conflict between students and heavy arterial traffic.

Oglebay Hall - Historic Rehabilitation

The National Register listed Beaux Arts classroom building was designed by architect Paul Davis and built in 1917. The vacant deteriorated building was stripped to its masonry shell and wood frame structure. The brick, limestone and terra-cotta exterior was restored and the interior was completely refitted with state-of-art classrooms, office and laboratories. The top two floors are now the home of WVU's Forensic and Investigative Science Program and contain high technology labs including Mitochondrial DNA labs. The lower two floors contain a mix of general purpose classrooms, labs and support spaces. Intensive mechanical systems were integrated into the building utilizing the existing attic and ventilation chimneys avoiding any impact on the building exterior.

Ming Hsieh Hall - Expanded Classroom Capacity

A new classroom building was built to increase capacity for lower level classes in the downtown campus. Ming Hsieh Hall occupies a previously vacant slice of land behind Oglebay Hall with a grade change of over 50' from College Avenue down to University Avenue. The building is organized around a double height gathering space with two large, technology intensive lecture halls built into the hillside. The new building has its own form and identity while at the same time playing a supporting role in the ensemble of new and old.



West Virginia State Capitol Building #3

Charleston, West Virginia **Perfido Weiskopf Wagstaff + Goettel**

Size 165,000 s.f.
Construction Cost
\$ 24,000,000
Firm Responsibility
Programming
Architectural Design
Contract Documents
Contract Administration
Completion Date
Projected 2010
Client Contact
David Oliverio
Dept of General Services
State of West Virginia



The State Capitol Campus in Charleston, West Virginia consists of seven buildings including the main Capitol Building and Rotunda. The second most prominent building, Building #3, was built in 1950 and designed by the successor firm of the main building, Cass Gilbert Jr. It was intended for the sole use of the Department of Motor Vehicles and was the singular facility for this department, drawing people from across the state. The first floor was designed to handle the large influx of people. Just off its marble clad, main lobby is an equally grand, large bank-like space with a counter and "teller" windows to serve the people.

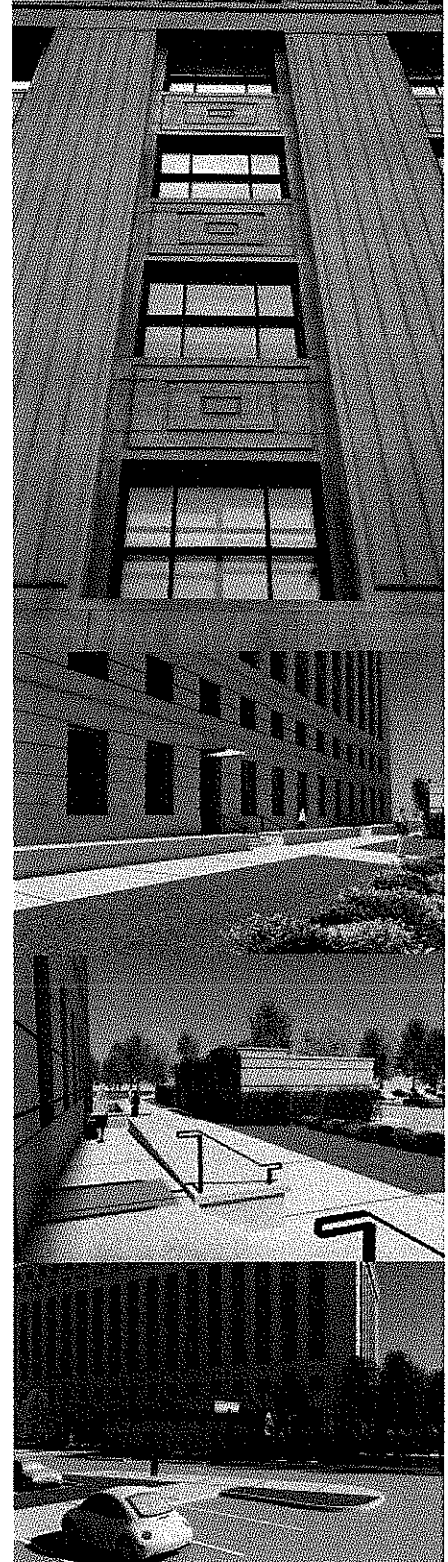
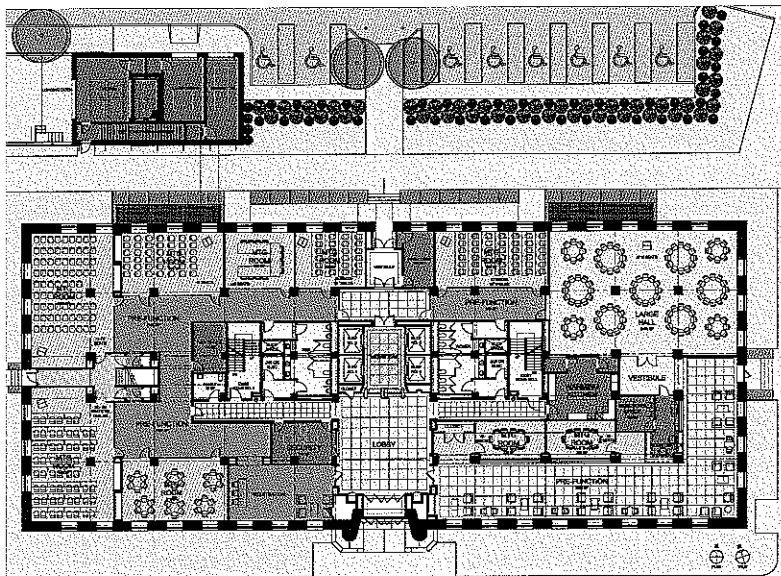
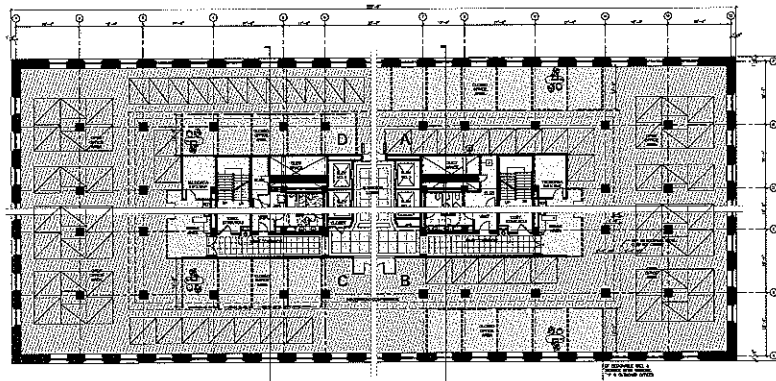
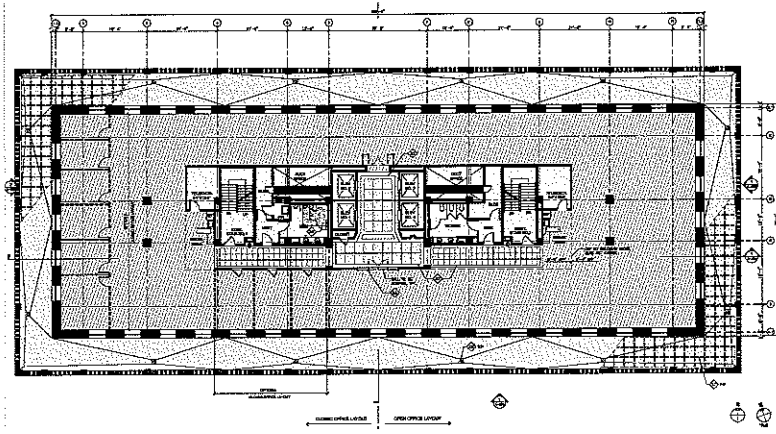
Over the years several other departments have been located in the 8 story building and all original systems have been used beyond expected life and capacity.

The design challenge is to renovate the building so that it can be an office building for the 21st century. This requires extensive demolition on all levels. The building will be taken back to its structural shell and core, while maintaining and restoring the historically important features and spaces. The exterior of the building will also receive extensive restoration. The functional core of the building will be reconfigured to provide new amenities to the building occupants. New utilities including data and telecommunications will be installed.

The planning concept for floors 2 through 8 will provide maximum open office spaces that permit maximum flexibility for the varied departmental needs. Systems furniture will be used to create the varied working group relationships required.

The first floor will house a conference center for the variety of users needing this kind of space in the state capital. A variety of meeting rooms and work spaces will service those who work on the State Capitol Campus as well as those who visit for a single day or extended stay. Individuals will be able to spend time in separate work carrels or small meeting rooms to conduct business while in Charleston. Large meetings, receptions or exhibits will be accommodated as well, including food service.

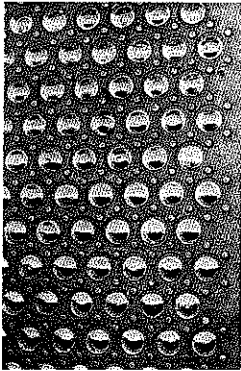
The building will be LEED certified.



575 Broadway

New York, New York **Perfido Weiskopf Wagstaff + Goettel**

Size 160,000 s.f.
Construction Cost
\$ 10,800,000
Firm Responsibility
Programming
Zoning Approvals
Historic Review Approvals
Historic Restoration
Contract Documents
Contract Administration
Completion Date 1989
Client
569 Broadway Associates
Award
New York City Land-
marks Preservation
Commission,
Certificate of Merit



575 Broadway is a six-story, brick-and-stone, commercial loft building located in Soho's Cast Iron Historic District, in New York City. It was commissioned by John Jacob Astor III and constructed between 1881 and 1882, on the site of the original Astor estate. Each floor is 20,000 square feet gross, giving the building a total area of 160,000 square feet. The entire building – offices, galleries, and retail space – has undergone comprehensive rehabilitation. The first and second floors, along with portions of the third and fourth and the basement, were originally leased by the Guggenheim to house their Soho museum, offices, and cafe.

The scope of the interior renovation included a new building core and the replacement of all HVAC, electrical, and plumbing systems. The new HVAC system was designed using state-of-the-art absorption boiler/chiller equipment. This system has the advantage of generating chilled water using only natural gas, easing electrical demands on the building and giving it a major advantage during New York's critical peak summer months.

Existing conditions and all elements of the original construction were carefully documented, and storefront profiles were measured in great detail in order to replicate – as much as possible – original work that previous renovations had destroyed or obscured. The building's original colors were determined by analysis of its painting history. While the main focus of the exterior design was restoration of the original configuration, two new areaway stairs were developed for the Mercer Street side to permit direct access to the basement level, a half level below the sidewalk. Sidewalk windows and rehabilitated sidewalk vault covers bring natural light to the basement.



Courtyard by Marriott

Pittsburgh, Pennsylvania **Perfido Weiskopf Wagstaff + Goettel**

Size 158,000 s.f.
Construction Cost
\$ 14,000,000
Firm Responsibility
Programming
Architectural Design
Contract Documents
Contract Administration
Completion Date 2004
Client
Oxford Development, Corp.
Awards
Master Builder's Association Building Excellence Award, 2004
Pittsburgh Historic Review Commission, Preservation Award, 2004
Preservation Pennsylvania Construction Project Award, 2004



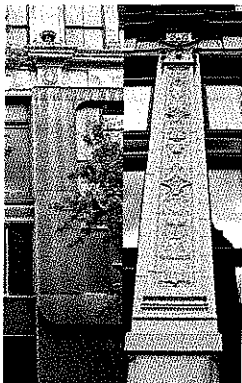
This project involved a comprehensive renovation of three separate historic buildings – 945, 947-49, and 951 Penn Avenue – integrating them into one 182-room hotel in the Penn-Liberty National Historic District. The building is also part of Pittsburgh's Cultural District, and is adjacent the David L. Lawrence Convention Center.

Each of the existing buildings was a full depth (160-ft.) structure with its own lot, and no undeveloped open space. In order to adapt the structures to serve hotel occupancy, a light well, beginning at the third floor line and extending the full height of the building, had to be cut into the structures. A landscaped garden was developed on the roof of the third floor. Most of the hotel's guest rooms front on Penn Avenue, and feature an outstanding view of the Pittsburgh skyline, or on French Street, overlooking the Convention Center.

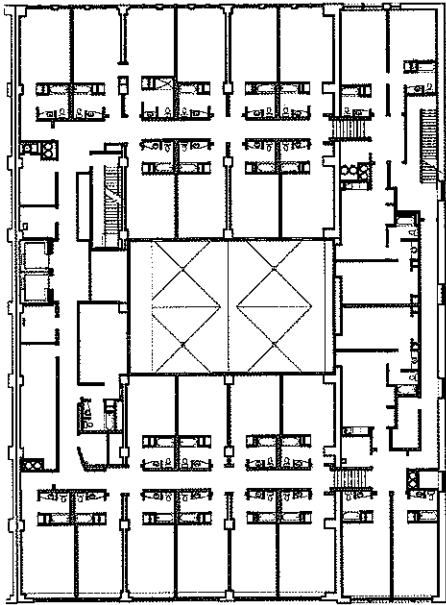
The entrance to the 945 Penn Avenue Hotel in downtown Pittsburgh is marked by a contemporary steel-and-glass canopy, and is positioned at the 945 bay of the building. Behind the restored historic storefront facade is the grand, two-story space of the lobby. Two new high-speed traction elevators lead from the front desk to the eight levels of guest and meeting rooms. Guest rooms have unusually high ceilings and tall facade windows, maximizing the view and natural light, and capitalizing on the "loft-like" character of the space. The basement of the 945, 947-9 sections of the building has been developed for valet parking, accessed from French Street. First floor space not used by the hotel was developed for use by the Sonoma Grille, which is connected to the main lobby.

The exterior work included the comprehensive restoration and cleaning of all masonry and terra cotta surfaces to restore them to their original appearance. Research identified the details of the existing window frames and mullions. These windows have been replaced with new, energy-efficient windows that achieve the same overall appearance, including glazed transom panels above the double-hung units on the Penn Avenue side.

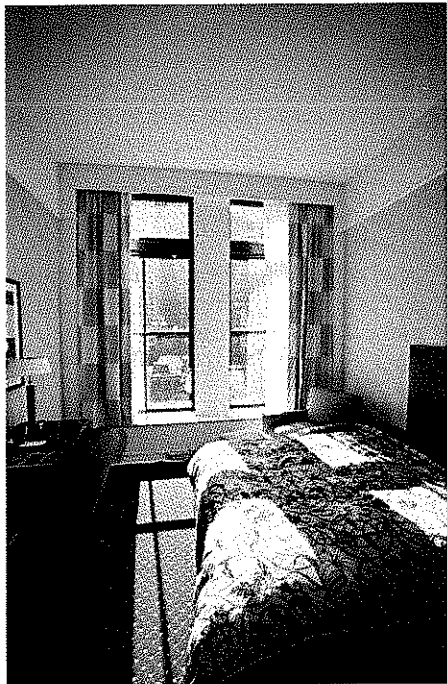
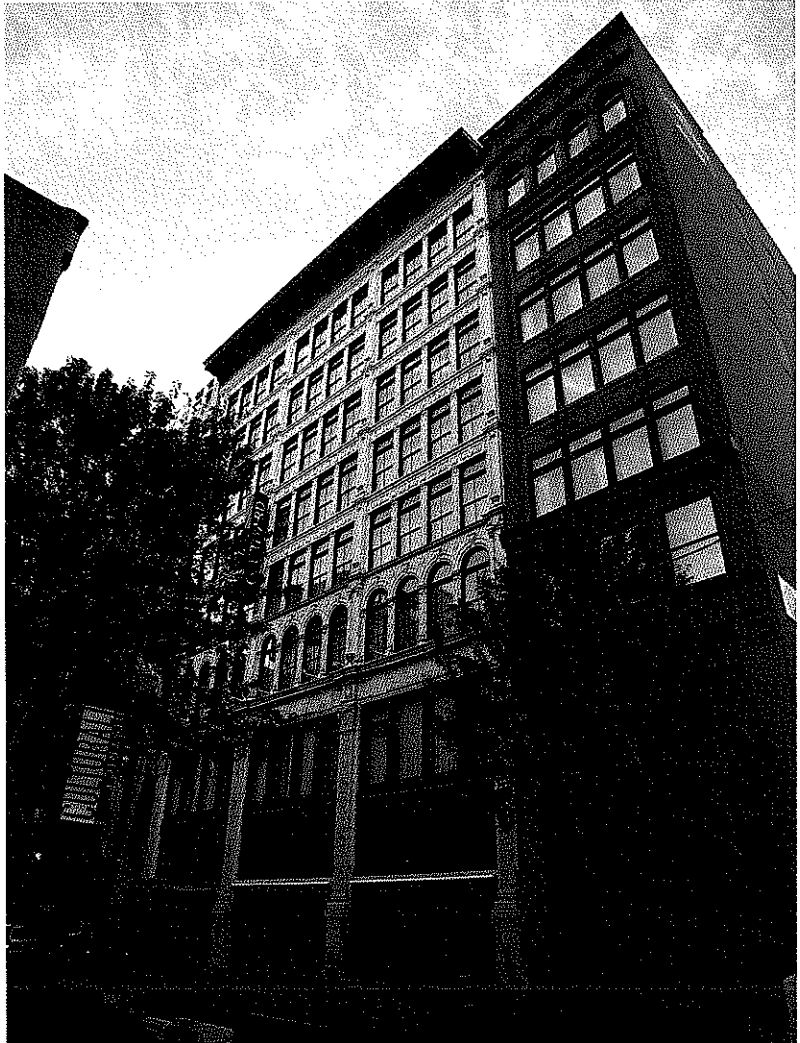
The project has received a Certificate of Appropriateness from the City of Pittsburgh's Historic Review Commission and has been submitted to the Pennsylvania Historical and Museum Commission for Historic Rehabilitation Tax Credits. It is a significant contribution to continued growth of the Cultural District, and fulfills the need for more medium-priced hotel spaces in downtown Pittsburgh.



Before After



Typical Guest Room Floor Level



Pennsylvania Historical & Museum Commission

Perfido Weiskopf Wagstaff + Goettel/Noble Preservation Services Joint Venture

Size Three 5-year Contracts, Multiple Sites

Firm Responsibility

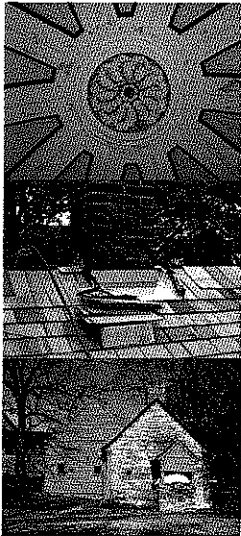
Programming
Preservation Research
Architectural Design
Contract Documents
Contract Administration

Completion Date

Ongoing

Client

PA Historical & Museum Commission



Perfido Weiskopf Wagstaff + Goettel is in its second five-year contract with the Pennsylvania Historical and Museum Commission, involving a wide variety of projects at all of the commission's nearly 50 sites in the Commonwealth. The current contract is a joint venture with Noble Preservation Services, and includes over 35 consultants and specialty tradesmen, allowing PHMC to call upon the team for planning, design, construction documents, and construction. Work is performed by qualified craftsmen with expertise in the skilled preservation trades.

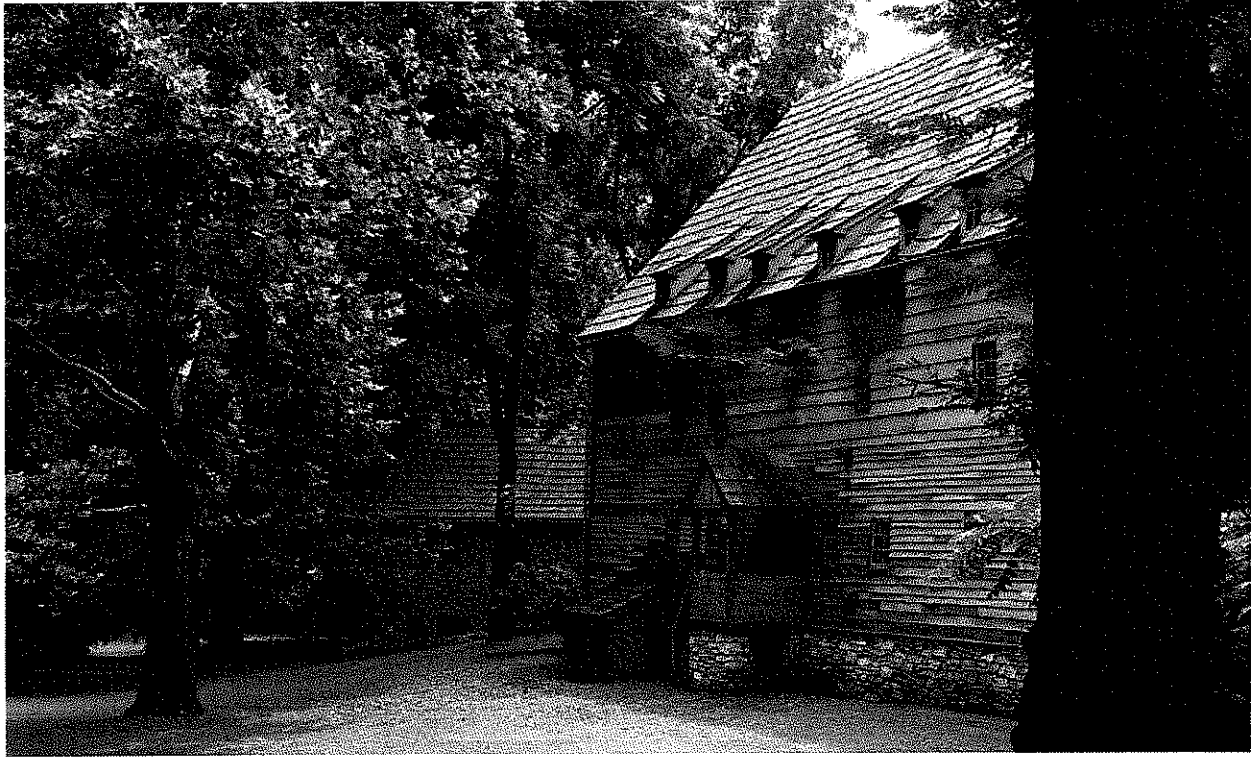
The sites administered by PHMC range from whole villages and farms to unique individual structures, from small historic masonry-and-frame buildings to modern museums, and from sites dominated by landscape to tight urban settings. The scope of work undertaken by the JV is extensive and complex. The team has created historic structures reports for entire groupings of buildings (Ephrata Cloister and Landis Valley Museum), repaired chimney leaks, and installed new roofs (Old Economy Village, Washington's Crossing, and Landis Valley, among others). Our services include everything from historic carpentry and plaster work to structural investigations of oil derricks (Drake Well Museum in Titusville), from pest management studies and hazardous materials investigations to archaeological investigations.

Our partner, Noble Preservation Services, was primarily responsible for the preparation of an extensive Historic Structures Report (HSR) that served as the preservation plan for the previously unstudied buildings of Ephrata Cloister in Lancaster County. This collection of early 18th-century Germanic buildings, which once served the religious community founded by Conrad Beissel in 1732, is remarkably intact. These buildings are important, not only for their architecture, but for the rich history they reveal of the celibate life of the cloister.

The preservation plan, presented in 13 volumes, was to undertake the following:

- Research each building to place it in its historic context;
- Evaluate and document existing exterior and interior conditions;
- Determine the extent to which each building has changed over time;
- Analyze these changes and recommend future restorations and maintenance;
- Provide PHMC administrators with the necessary information to guide future-interpretive, educational, and curatorial work at the cloister.

During the lifespan of the two five-year contracts, PWWG has administered or worked on over 100 specific-project assignments to date.



CLOWARD H₂O

a division of Cloward & Associates

water feature specialists
aquarium & aquatic life support
consulting engineers & designers

FOUNTAINS

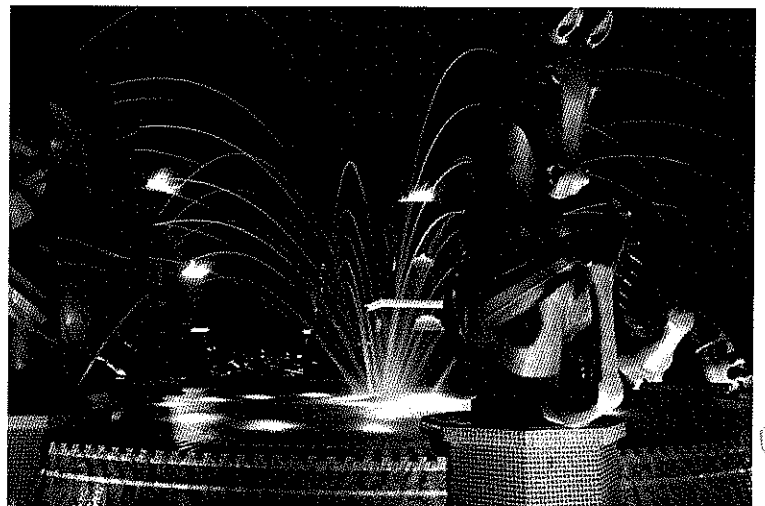
Fountains create a unique atmosphere within any space. From tranquil ambiance to attention grabbing show piece, fountains are art with water. ClowardH2O has successfully designed numerous architectural and sculptural fountains, waterwalls, choreographed show fountains, and other aquatic center pieces. We approach each fountain as an opportunity to push the limits of water.



Pegasus Fountain, Atlantis, Bahamas



Centennial Olympic Fountain, Atlanta



Madinat Jumeirah, Dubai, UAE

CLOWARD H₂O

a division of Cloward & Associates

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aquarium & aquatic life support
consulting engineers & designers

CENTENNIAL OLYMPIC FOUNTAIN

Atlanta, Georgia

client: Georgia World Congress Center Authority

completion date: Summer 1996

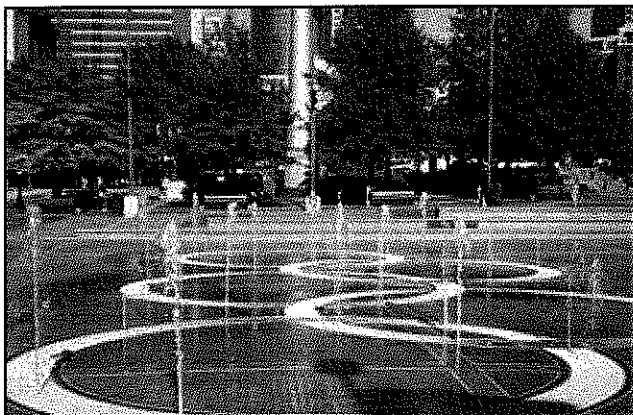
project description: The Fountain of Rings is the centerpiece of Centennial Olympic Park and is one of the most recognized and photographed landmarks in Georgia. Millions of international and local guests visit the Park every year to enjoy the world's largest interactive fountain featuring the Olympic Rings symbol created especially for the 1996 Summer Olympics. Today, this unique 21-acre park performs a

dual mission: it serves as Georgia's lasting legacy of the Centennial Olympic Games and it anchors efforts to revitalize residential and commercial development in Georgia's capital city of Atlanta.

project scope: CLOWARD H₂O provided consulting engineering services for the original design of the fountain.



The Fountain of Rings, Centennial Olympic Park



Centennial Olympic Fountain



Centennial Olympic Fountain

CLOWARD H_2O

a division of Cloward & Associates

water feature specialists
aquarium & aquatic life support
consulting engineers & designers

TOWN CENTER MALL

Las Vegas, Nevada

client: Global Island, Inc.

completion date: Fall 2007

project description: Opened in November 2007, the 117-acre, \$750 million project offers Las Vegas a unique congregation of high-end stores and restaurants in over 1.5 million square feet. The development also includes the 18-screen Rave Motion Pictures and a Children's Park that features a tree house with a climbing rope, slides and a fort; a 35-jet pop-jet fountain in the main park plaza; Princess Tower Playhouses with a connecting walkway and slides; a fun-filled bakery café with plastic dishes and faux food.

Kids will also enjoy a hedge maze with animal topiaries and playground equipment.

project scope: CLOWARD H_2O provided design, engineering, and construction administration services for the pop-jet fountain located in the Children's Park area of the development.



View of Town Center Mall Fountain

MOHEGAN SUN

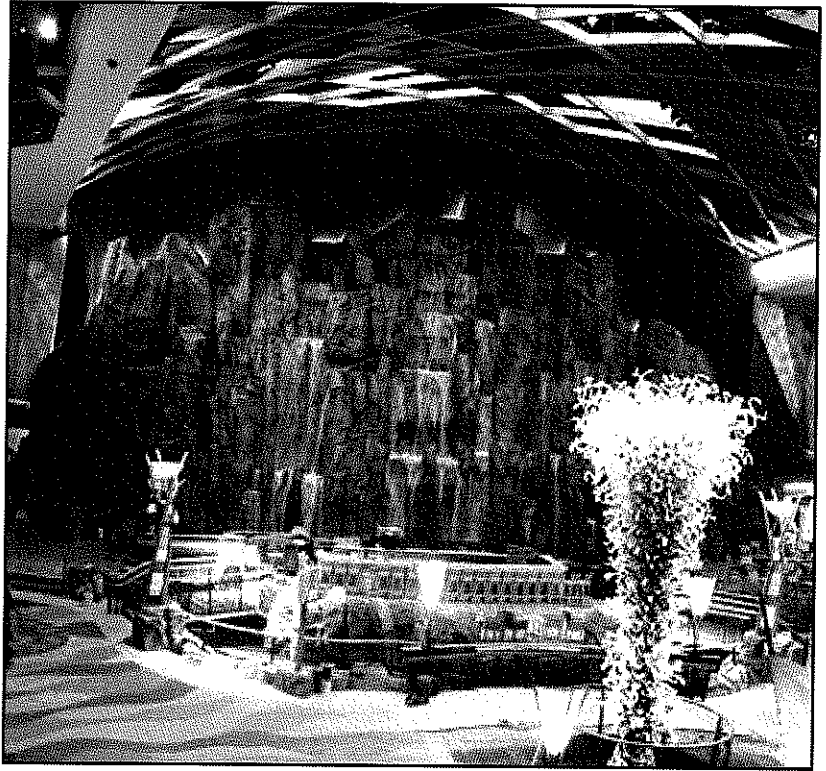
Uncasville, Connecticut

client: Kohn Pederson Fox, Rockwell Group

completion date: Summer 2002

project description: The Mohegan Sun Resort is a luxury gaming resort nestled along the banks of the Thames River in southeastern Connecticut on the 240 acre former site of a nuclear components plant. Completed in 2002, the 4-million square foot expansion project known as Project Sunburst added a 1,200-room luxury hotel, additional meeting and function space, a new retail shopping experience, nine new restaurants, a 10,000-seat arena, additional gaming space, a 300-seat cabaret, a world-class spa and a new indoor swimming pool.

project scope: CLOWARD H₂O provided design and full engineering services for a 10,000-square foot indoor swimming pool and several hydrotherapy spas, as well as a dramatic indoor hotel lobby water feature where water from a large tranquil reflecting pool flows through a rippling stream to the base of the dramatic 40-foot high Taughanik Falls.



Taughanik Falls



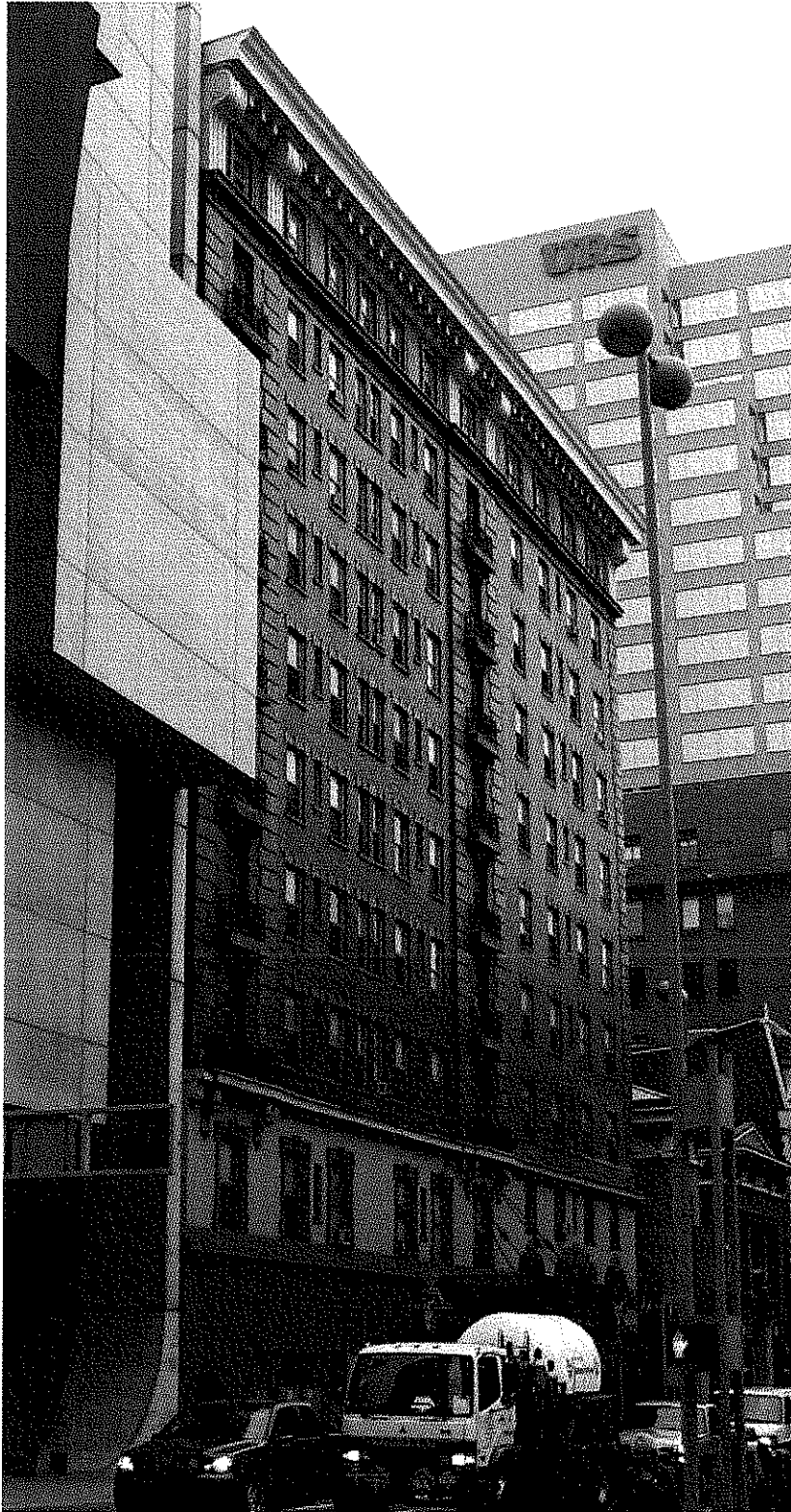
Canyon Falls



Roofstop Indoor Pool

References

Perfido Weiskopf Wagstaff + Goettel



Restoration of Hotel Metropole, Cincinnati, Ohio

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