



A/E Services for Grave Creek Archeology Complex Selective Renovations

PERFIDO
WEISKOPF
WAGSTAFF +
GOETTEL

MAY 2, 2012
RFQ # DCH12101

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WV PURCHASING
DIVISION

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May 2, 2012

Shelly L. Murray, Buyer
DEPARTMENT OF ADMINISTRATION
Purchasing Division, Building #15
2019 Washington Street, East
Charleston, WV 25305-0130

RE: Expression of Interest for Architectural and Engineering Services – DCH 12101
Grave Creek Archaeology Complex – Moundsville, WV

Dear Members of the Selection Committee:

Perfido Weiskopf Wagstaff Goettel (PWWG) is pleased to submit these qualifications to provide Architectural and Engineering Services for work at the Grave Creek Mound Archeological Complex. We have visited the museum, and studied the RFQ, and believe our team can provide all the skills and services needed for a successful program of auditorium and rest room improvements.

- We have extensive experience with museums. We've served for nearly 15 years as term service architects for the Pennsylvania and Historical Museum Commission, (PHMC), and have completed over 120 separate assignments at a variety of museum and historic sites. We prepared the master Plan for the expansion of the Pennsylvania Railroad Museum. Last year we completed a \$3.7 M expansion and renovation of the Drake Well Museum, dedicated to the early oil industry, in Titusville PA.
- We have extensive experience with renovations in occupied space. This includes work for the PHMC but also work for a variety of government, university and institutional clients.
- We have designed renovations for a wide variety of assembly spaces including auditoria of various sizes for schools, and house and stage renovations for theatres.
- In addition to MEP/FP engineers, our team includes the full range of specialized designers necessary for this kind of project including Lighting, Acoustical, and Audio Visual engineers.

We view this project as an opportunity to improve a significant cultural facility. We'd be delighted to assist you with this important project.

Thank you for your consideration of our credentials.

Sincerely,



Sheldon Goettel, AIA LEED AP
Principal

Unique Qualifications and Specific Experience

Perfido Weiskopf Wagstaff + Goettel

Experience Coordinating Auditorium Upgrades



PWWG's renovation of Hamburg Hall at Carnegie Mellon University included refurbishing the original semi-circular auditorium, creating a new academic lecture facility that includes table seating and extensive audio/visual capability.



Before (top), and after renovation of the Community Center Stage/Gymnasium at Wadsworth Hall.

PWWG is one of the most experienced firms in WV, Ohio and Pennsylvania in renovation, rehabilitation and repurposing of existing structures. In addition to programming and architectural design, many of these projects also involve the complex coordination of MEP/FP system upgrades, code conformance, Life Safety, and Accessibility requirements, and complete overhaul of interior finishes.

Our projects have included integrating a range of audiovisual infrastructure to accommodate current programming and to allow for emerging uses of technology in a variety of contexts including museums, theatres, higher education, and flexible work environments. Our portfolio includes:

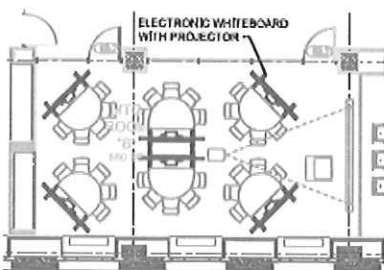
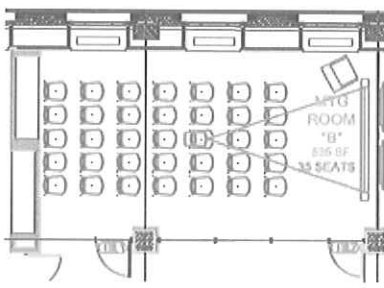
AV Infrastructure for Multipurpose Auditoriums and Meeting Spaces — The West Virginia Office Building #3 Repurposing includes 5 meeting/auditoriums outfitted for lectures, presentations, film projection, interactive orientation & training, and press conferences; The Little Sisters of the Poor 1923 Building Renovation (Pittsburgh, PA) includes a new multipurpose auditorium outfitted for film projection, stage performances, and large meetings for seniors with special physical challenges; The Wadsworth Hall Community Center Renovation (Pittsburgh, PA) includes an Auditorium/Gymnasium for stage performances, large meetings, and film projection, as well as recreation; this project included a major upgrade to finishes, with special requirements for durability and resistance to recreational use; The Operating Engineers Interior Renovation includes a flexible auditorium with platform stage for large meetings and presentations; and the Drake Well Museum Renovation which includes a multi-purpose room for presentations, meeting, and exhibitions.

AV Infrastructure for Lecture Halls — PWWG has designed lecture halls with intense AV technical requirements within existing buildings on college campuses. Examples include the adaptive reuse of Historic Register Oglebay Hall at West Virginia University, and refurbishing the original semi-circular auditorium at Carnegie Mellon University's Hamburg Hall (Pittsburgh, PA) where the new facility has table seating and extensive audio/visual capability.

AV Infrastructure for Flexible Theatre Spaces — PWWG understands the needs of organizations that present a variety of performance, meeting, and film programs. Our project at Pittsburgh City Theatre includes design of a flexible 275-seat theatre, and a smaller "black box" theatre with 100 seats as part of the renovation of two historic churches. The main theatre is located on the second floor, in what was originally its worship space. Depending on the requirements of the theatrical production taking place, the space can easily be converted between a "modified proscenium" configuration and a "thrust" conformation. For what is now the Hazlett Theatre in Pittsburgh, new movable seating, upgraded mechanical systems and interior finishes, and a new control room were major components of the renovation of a former music hall to provide a space that is both flexible and intimate.

Experience Coordinating Restroom Upgrades in Public Buildings

As part of renovations and repurposing of existing buildings, PWWG has coordinated A/E design services for upgrading restrooms and related utilities, including addressing ADA related issues. Projects from our portfolio of special note include historic Oglebay Hall, in which an antiquated 6' x 20' inaccessible layout was reconfigured with new finishes; The Shaw Hall



PWWG's comprehensive renovation of the 1950's office building at Building #3 on the West Virginia State Capitol Campus includes Meeting/Auditorium spaces outfitted for lectures, presentations, film projections, interactive orientation and training. The rooms can be configured in various arrangements, as shown above.

Adaptive Reuse at West Liberty University in which PWWG coordinated restroom upgrades in conformance with the Secretary of the Interior's Standards for repurposing; The renovation of Carr Hall at Allegheny College which included new restroom layouts and finishes to comply with LEED Interior standards; The renovation of Old Main at West Virginia University (Montgomery, WV), a complete gut and renovation of existing restrooms including addition of a family toilet room; and the Drake Well Museum Renovation which included reconfiguring existing layouts and upgrading all finishes for public restrooms.

Achieving Life Safety and Accessibility & Code Compliance

Over the past 30 years, PWWG has developed substantial experience in the thoughtful analysis of code compliance issues associated with building design and construction, particularly involving existing buildings. We achieve code compliance with minimal impact on the desired architectural character of the project. PWWG will begin the project at the Grave Creek Museum by evaluating proposed options against code issues and ramifications in the early planning stages. We will also begin a dialogue with code officials so that the project parameters are familiar to them as the project progresses.

PWWG takes pride in having a thorough working knowledge of the codes having jurisdiction, which at times can pay dividends when addressing issues with the Fire Marshal's office. We fully understand and have experience addressing the unique conditions in WV where both NFPA and the IBC can apply on a particular issue thus requiring an evaluation of both. Furthermore, PWWG has been responsible for several stand alone projects to evaluate accessibility, for the City of Pittsburgh and various public housing authorities.

Balancing Architectural Integrity and New Systems

PWWG has over 25 years of experience integrating new systems into existing buildings. Inherent to any project of this type is developing a thorough understanding of the important features defining the character of the existing structure and establishing "retention priorities" for those features. Throughout the design there must be a balanced approach to preserving features and spaces vs. new design necessary to facilitate the programmatic needs.

PWWG has developed expertise coordinating MEP upgrades in a variety of existing buildings including Historic Register properties, commercial, residential and institutional structures. Project sheets included with this proposal for the Drake Well Museum Renovation and Oglebay Hall Renovation are examples of MEP retrofits in existing buildings.

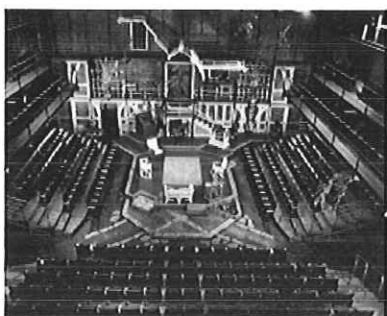
PWWG Works in an Integrated Design Process With Consultants—To Owners' Advantage

Over our 30+ years of practice, PWWG has developed an integrated design process that is focused on achieving consensus on the design, translating that design into a high quality set of contract documents, and providing construction administration services that serve the best interests of the client. PWWG typically works in an integrated design process with all of our consultants, to the owner's advantage.

Integrated design is a highly collaborative approach that is truly **inclusive of all the disciplines** that can influence the design of the project. It replaces the outdated **sequential approach** where the architect develops the idea and passes it on to other disciplines to make it work, with a team approach where each discipline contributes to the creation of the concept by contributing valuable insights before the project gets locked into a single solution. The architect still serves as the creative leader of the team, but in integrated design, the architect is also a facilitator to produce an atmosphere where all team members have an opportunity to contribute.



PWWG's renovation of National Register Oglebay Hall included a complete gut and retrofit with new MEP systems, classrooms, technology intensive lecture halls and auditoriums, public restrooms, and service spaces.



PWWG's renovation of a former music hall to create the Hazlett Theatre allows the space to be easily reconfigured for proscenium or thrust conformation. The scope included new movable seating, control room, lighting and MEP systems.

For MEP upgrades, PWWG typically incorporates the expertise of consultants early on and provides the **aesthetic vision** for any associated architectural changes required for the existing building. The approach moves concentrically from the big idea to the details. For the Museum's auditorium and restroom renovations, PWWG will consult with CJL to evaluate the existing systems and determine what alterations are necessary to create a comfortable and healthy environment for your staff.

Working in Occupied Buildings

Upgrades to the Grave Creek Archeology Complex will need to be undertaken while the building is occupied. Work in occupied buildings involves special challenges not only to minimize disruption to the occupants of the building, but also to maintain life safety systems in operation. This needs to be addressed by careful planning that incorporates appropriate temporary protection measures built into the contract documents. PWWG has successfully completed several projects in occupied buildings, one of note being the restoration of the roof and envelope of the PA Capitol in Harrisburg, which was completed in its entirety while the building remained occupied. In addition to the temporary protections, we also imposed several work restrictions relative to noise, worker access and material deliveries. PWWG is currently administering the renovation of Carr Hall at Allegheny College, requiring us to maintain occupancy for a chemistry lab in a building that is otherwise vacant while new lab, classroom, restroom and lobby spaces are implemented.

Effective Project Management & Delivery Methods

PWWG can point to deep experience with producing designs and documents for projects that combine new and existing construction.

- We have learned the importance of designing for a 'loose fit' so that when unforeseen conditions are exposed new work can be adjusted to existing work without substantial changes, and normally without additional cost.
- We have learned the importance of performing selective demolition during design to understand the history of a building and probe and uncover actual conditions. Actual conditions often vary significantly from recorded conditions.
- We have learned the value of interviewing Maintenance and Facilities personnel to understand their direct experience with buildings, and to probe their memory of past problems.

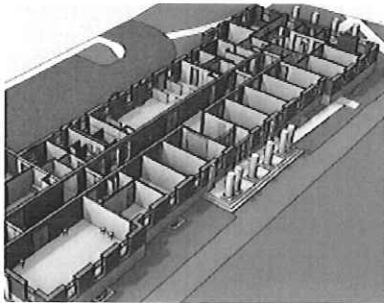
We take very little for granted when working with existing buildings, whatever their vintage or construction type. We take what we learn from interviews, selective demolition, and a 'loose fit' approach and build that knowledge and approach into our construction documents. Using these techniques, we are typically able to deliver completed and thorough renovations of older structures with Change Orders in the 1 to 2% range.

Approach To Budget, Schedule And Cost Control

PWWG places a very special emphasis on construction budgets from the outset of all of our projects. We strongly believe in maintaining an open dialogue between the client and the cost estimating consultant in order to promote teamwork and derive the best value for the Owner. Our decision making process concerning budgets does focus on the first costs of the project and also engages all disciplines for input on operating and life cycle costs.

Cost Control

Cost control begins immediately and is integral to each phase of the project. Our first step upon completion of the programming is to break down the budget into systems



PWWG coordinated a full renovation and adaptive reuse of Historic Register Shaw Hall at West Liberty University to house all administrative offices and a student health center. PWWG's Revit 3D model helped the client visualize options early-on for new office, restroom, and service spaces.

costs, generally aligned with CSI formatting including appropriate contingencies. Having the benefit of the program, we will then have the data necessary to understand where there are unique costs associated with the project. As the conceptual phase of the project develops, we evaluate the cost impact of each of the schemes that are deemed worthy of further consideration. Using the systems costs as a guide, we have a general understanding of the cost impact of each scheme on the building system and the overall budget.

Cost Estimating Accuracy

Once a preferred scheme is identified, detailed cost estimates are prepared at the completion of Schematic Design, Design Development and at 75% completion of construction documents, with an update of that cost at 100%.

Schedule Control

Just as the contractor's first step in implementation of a construction project is the preparation of a schedule our process involves the immediate preparation of a design and production schedule. We believe that the key to schedule maintenance is the establishment of standing team meetings, similar to construction job conferences in which firm but realistic milestones are established. At every point in the project, there is always a milestone just ahead that must be met.

Highly Developed Design Visualization

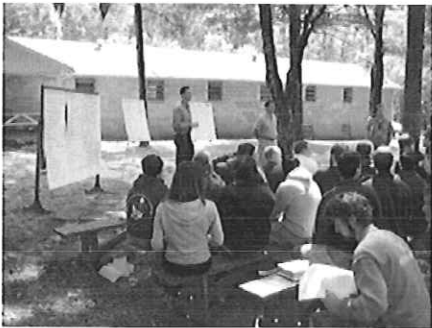
PWWG's highly developed design visualization often plays a critical role in assisting clients with the early stages of renovations. Using Revit software, PWWG develops the design of our projects directly in three dimensions from concept through details focusing on the experiential qualities of the architecture. These 3D design explorations enable our clients to have a clear understanding of the form, materials, and character of the design, to evaluate options for layouts to refine the design early on, and to greatly reduce the possibility of misunderstanding during the design process. During construction, our clients and contractors often comment on the striking correlation between the design model and the building.

Approach and Understanding of Key Issues

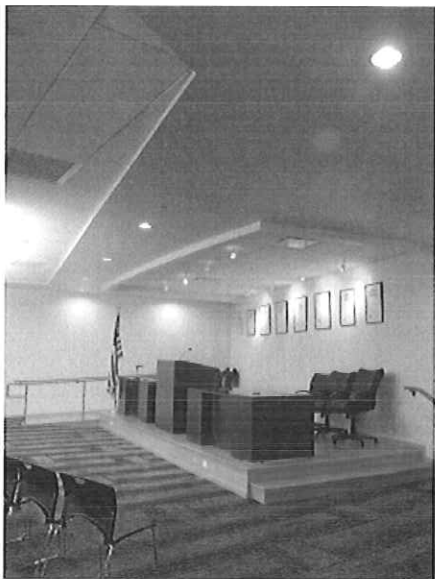
Perfido Weiskopf Wagstaff + Goettel



PWWG staged charettes to gather input from stakeholders during preparation of the Master Plan for the Railroad Museum of PA.



PWWG led work sessions with administrators and other stakeholders to gather input for the Master Plan for the National Youth Science Foundation Camp in West Virginia.



PWWG's Operating Engineers interior renovation includes a flexible auditorium with Accessible platform stage for large meetings, presentations, and projections.

PWWG approaches each project without preconception. At the Grave Creek Archeology Complex we understand that auditorium and restroom spaces date to the original construction in 1978, are therefore more than 30 years old, and that Agency Staff have performed an assessment of needs. Our starting point will be to thoroughly understand that assessment and the physical conditions of the space.

From our recent visit to the museum, we anticipate that improvements are needed to the audio visual, lighting, and acoustic systems in the auditorium. They are original to the building, and much has changed in those technologies since 1978. The lighting system is reported to be useable only with 'workarounds'. The original projection room was converted to a mechanical space so presentations now have to be set up on an individual basis in the house. There is need for a larger screen. Finishes are old and stained. Ventilation may be an issue. There is no Accessible seating in the auditorium and Accessibility is certainly also an issue in the restrooms. Accordingly, in addition to the architects, we have specialists on our team who can engineer new plumbing, HVAC, (that is consistent with museum standards), lighting systems and controls, audio visual systems, and acoustics.

But we'd set all assumptions aside and begin by carefully listening to Staff about their daily experiences in operations, and their requirements for community and rental use. A half-day project initiation meeting, at the building, with the staff and the full project team, may be the best way to begin. If we could reserve the auditorium for this meeting we'd be experiencing one of the principal foci of the project, and meeting in the Auditorium would support an open discussion and a first hand evaluation of the stage, stage and house lighting, and Audio Visual, Acoustic, and HVAC systems. This office would take responsibility for taking detailed minutes of these discussions, and for distributing them to all for review. The goals for the day would be to come to clear and shared understandings of:

- The priorities for the project
- The most promising options for design study
- The budget and a strategy for a best allocation of resources
- The design process and the design review process and schedule
- The physical work and how it can be organized for acceptable impacts on operations

Getting this project off to a good start, with clear priorities and good communications, will be the key to its success.

Project Schedule

Perfido Weiskopf Wagstaff + Goettel



Restoration of the Fort Pitt Museum (Pittsburgh) is one of nearly 100 assignments PWWG has completed under an open-end contract with PA Historical and Museum Commission.

The scope of this project is limited, but it is a project that will require careful coordination across a wide range of design disciplines. Therefore we recommend a conventional design process with submissions at Schematic Design, Design Development, and Construction Documents stages, but with short time frames for each stage. 3 weeks should be sufficient for each stage. Assuming 2 week review periods at each submission, the Construction Documents can be complete in 9 weeks of work time, and 15 weeks of elapsed time.

Authorized Contact

Perfido Weiskopf Wagstaff + Goettel

The following will be the authorized contact for this project, will be responsible for the project, and will have full authority to execute a binding contract on behalf of the firm/team submitting the proposal.

Sheldon Goettel, AIA, LEED AP, Principal
Perfido Weiskopf Wagstaff + Goettel
408 Boulevard of the Allies
Pittsburgh, PA 15219

412.391.2884
sgoettel@pwwgarch.com

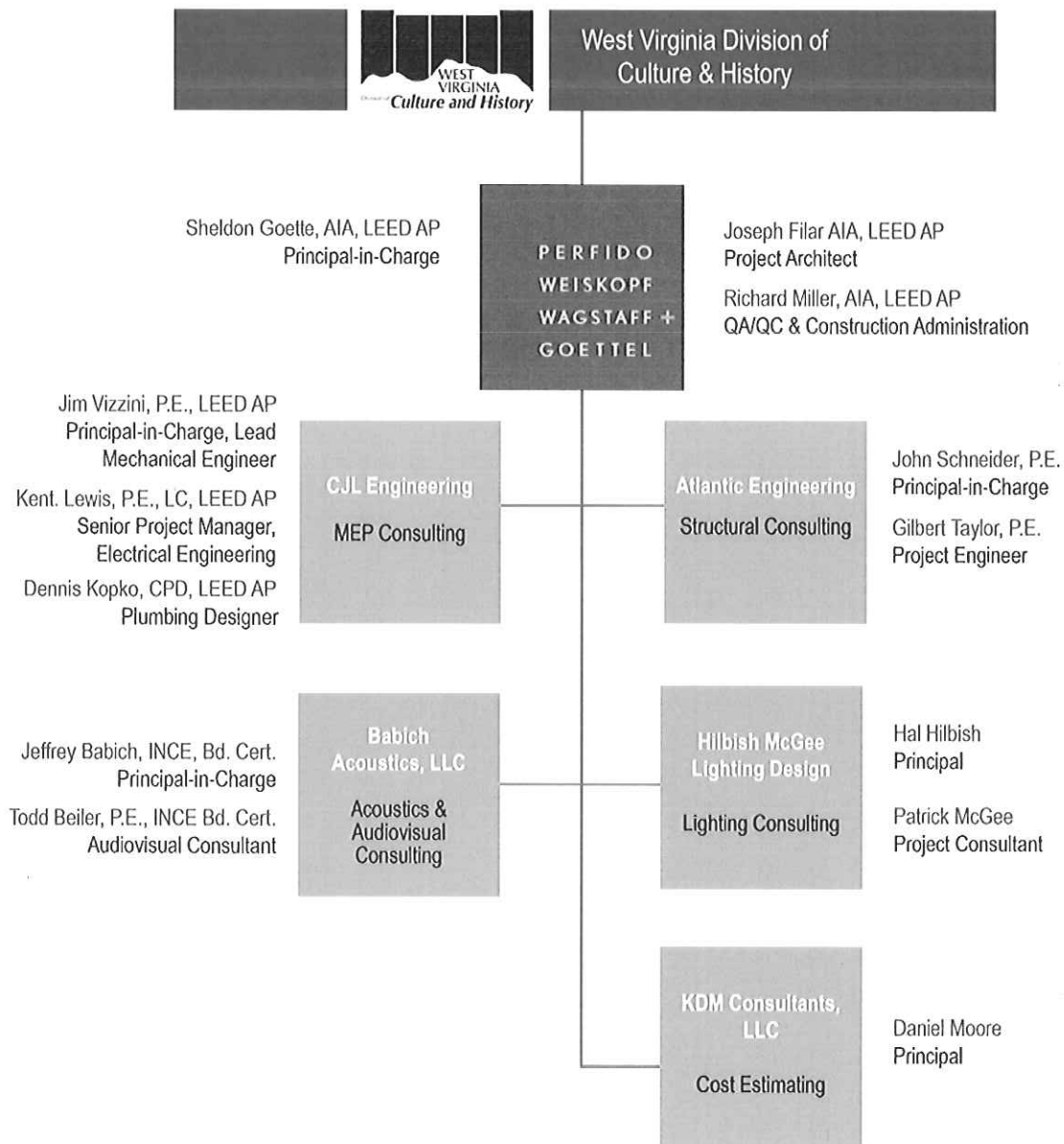
A handwritten signature in dark ink, appearing to read "Sheldon Goettel", is written over a horizontal line.

Team Overview & Organization Chart

Perfido Weiskopf Wagstaff + Goettel

Perfido Weiskopf Wagstaff + Goettel will manage all aspects of the State of WV's project from its office in Pittsburgh, with administrative coordination by that same office. The initial point of contact for all project phases will be the Principal-in-Charge, Sheldon Goettel, and he will manage contractual arrangements, lead the programming and design process, and serve as a project resource. PWWG's Joe Filar will be the Project Architect, managing day-to-day issues, coordinating with consultants, and preparing specifications. He will also be a client contact. Richard Miller will perform QA and QC for all phases of the project and provide Construction Administration services. Additional design and CAD staff will be assigned to the project as appropriate.

PWWG and all of our consultants will utilize an Integrated Design process that focuses on the early involvement of all consultants so that the beneficial input of any one consultant can be captured and leveraged to the best advantage of the project by all other disciplines at the earliest point in the design process.



Firm Profile

Perfido Weiskopf Wagstaff + Goettel



PWWG's office in a former City firehouse in downtown Pittsburgh

PWWG AT A GLANCE

Established
1975

Principals

Alan Weiskopf, AIA
Sheldon Goettel, AIA, LEED AP
Kevin Wagstaff, AIA, LEED AP

Structure

PA Limited Liability Company

Current Staff

14 Architectural; 11 Registered, 10 LEED AP
2 Administrative and Support

Offices

(One, located in downtown Pittsburgh)
408 Boulevard of the Allies
Pittsburgh, PA 15219

Project Size Range

Very small up to \$60M

We are a design firm practicing architecture, planning, and urban design. We were founded in 1975 as L. P. Perfido Associates. In 1996 the firm was renamed Perfido Weiskopf Architects and became a partnership. Today we are Perfido Weiskopf Wagstaff + Goettel, a Pennsylvania limited liability company, owned and led by three Principals: Alan Weiskopf, AIA, Sheldon Goettel, AIA, LEED AP and Kevin Wagstaff, AIA, LEED AP. The full staff includes 11 Registered Architects, 3 Graduate Intern Architects, and 2 business support professionals.

In our 35 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, civic buildings, theatres, and parking structures. Repeat clients include private businesses, institutions, public/private partnerships, and government.

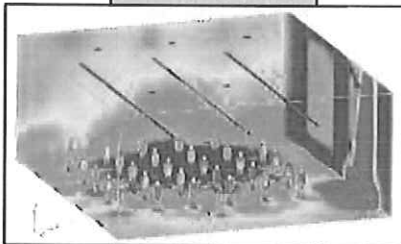
Our work is guided by 3 principles:

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.



CJL ENGINEERING

FIRM OVERVIEW

CJL Engineering is a multi-disciplined Mechanical/Electrical/Plumbing consulting engineering firm that offers a full range of services, including analysis and concept, construction budgeting, detailed construction documentation and construction administration. With offices in Pittsburgh, Johnstown, PA, Youngstown, OH, and St. Louis, MO, CJL has a combined staff of over 130 personnel. The original office was established in 1938.

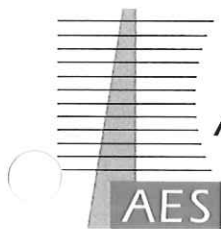
CJL Engineering has substantial experience in the design, construction and commissioning of high performance and LEED certified buildings, emphasizing integrated design and operational strategies for sustainable site development, water conservation, energy efficiency, resource conservation, and indoor environmental quality.

Areas of specialization provided by **CJL Engineering** include:

- HVAC Systems
 - Boiler
 - Chiller Central Plants
 - Geothermal Heat Pump Systems
 - Life Safety Systems
- Electrical Systems
 - Primary Power and Distribution
 - Cogeneration
 - Emergency, Standby Power
- Plumbing
- Fire Detection and Protection
- Civil Engineering
- LEED Green Building Design
- Energy Solutions
- Architectural Lighting and Controls
- Telecommunications
- Voice/Data/Audiovisual
- Security
- Power System/Quality Evaluations
- Energy Conservation Studies
- Life Cycle Analyses
- Retrofit Evaluations
- Building Management Systems
- Commissioning

CJL Engineering serves a broad range of clients that include: Historic and Adaptive Retrofit, Office Buildings, Master Planning and Design, Science, Laboratory and Research Facilities, Colleges and Universities, Schools (K-12), Healthcare (Hospitals/Medical Centers), Performing Arts Centers and Theaters, Libraries, Government and Secure Facilities, High Tech Buildings, Mission Critical Data Centers, Hotels, Resorts, Green Buildings, Apartments, Retirement and Assisted Living Communities, Central Plants and Utilities, Telecom Facilities, and Transportation.

CJL ENGINEERING



Atlantic Engineering Services

ATLANTIC ENGINEERING SERVICES FIRM OVERVIEW

Atlantic Engineering Services, with offices strategically located in Pittsburgh, PA, and Jacksonville, FL, 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 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 \$6.8 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 projects include wood-framed construction of all types including hotels, retail buildings and education centers.

Our projects 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. The adaptive reuse of the circa 1870's Chautauqua Ice Building into the Heinz History Center and the Meadowcroft Rockshelter Enclosure are two of our finest examples. For the Heinz History Center project, which included some façade restoration and modification, the 7-story, heavy-timber structure was transformed from a warehouse-type use into an interactive museum showcasing Western Pennsylvania's rich history. For the Meadowcroft project, a Glulam roof structure anchored to a rock outcropping on one end, and Parallam columns at the other, created a shelter to protect the 16,000 year old archaeological dig in Avella, Pennsylvania.

Our work with museum clients includes the Carnegie Museum of Natural History's new Dinosaurs in Their Time addition, the design of the Pittsburgh Regional History Museum, the development of the Altoona Railroaders Museum, and the recent expansion of the Children's Museum of Pittsburgh. All these have included the assessment of existing structures for available capacity and the development of local reinforcement as necessary for the modified building use. All have involved specialized review for showcase and display loading. In the cases of the Carnegie Museum and the Children's Museum, significant additional square footage was developed as new building addition.

AES also has completed several projects in West Virginia. Over the past 5 years, we have completed 14 projects with a construction value totalling over \$50 million.

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. Please take a moment to visit our web site at www.aespi.com.

The professionals at AES enjoy what they do and so they do it well. They are dedicated to producing buildings where people can live, work, play and worship into the 21st century and beyond. We take great pride in...

BABICHacoustics

THEATERS

Creating thoughtful and cost-effective acoustics and noise control solutions for building owners, architects, engineers, contractors, and communities



Jeffrey E. Babich, INCE
Principal

BABICHacoustics

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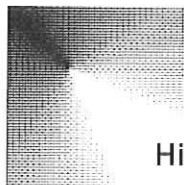
Email: jeff@babichacoustics.com

*architectural acoustics
environmental noise control
test and measurement*

AUDITORIUM ACOUSTICS

Theaters and performing arts spaces require architecture that enhances music clarity and speech intelligibility. Because auditoria and theaters often have multiple functions, a delicate balance between speech and music is necessary. Auditoria require attention to architectural details and sound systems to ensure appropriate acoustics within the space.

- Speech intelligibility and music clarity are directly related to appropriate sound isolation, acoustical treatments, noise control, and sound system design in theaters/auditoria.
- Poor theater and auditorium acoustics are an additional barrier for people with hearing loss.
- Long-term benefits outweigh increase in cost for effective acoustics.
- Early planning for acoustics and noise control can significantly reduce costly fixes in the future.
- Acoustical modeling is recommended to confirm interior finish and sound system selections.
- Theaters and auditoria require a delicate balance of absorptive and diffuse treatments.
- Mechanical equipment location and selection is critical to noise control.
- Enhanced acoustical performance goals include additional requirements for sound isolation and mechanical noise control.
- Reviewing wall and floor-ceiling constructions is necessary to confirm appropriate sound isolation.
- Acoustical testing is recommended to evaluate existing conditions such as reverberation time, speech intelligibility, sound isolation, or interior/exterior noise.
- Audiovisual systems are necessary in theaters and auditoria for speech reinforcement and program audio.
- An exterior noise survey is recommended for theaters near airports, highways, or other loud environmental noise sources.



Hilbish McGee Lighting Design

Statement

Hilbish McGee Lighting Design is an independent lighting design/consultation firm that has been in practice for over forty-five years. We seek to enhance the built environment through the integration of light and space, by utilizing the science, and emphasizing the art of illumination. HMLD's expertise is in combining creativity with quality design and seasoned technical skill, ensuring that lighting is an integral part of the overall design. Focused attention to detail in all project phases reflects our firm's sensitivity to the needs of the space, the client, and the end-user. All staff are members of the International Association of Lighting Designers (IALD).

Services

Complete Lighting Evaluation	Daylighting Analysis
Sustainable Design Coordination	Lighting Layout Drawings
Complete Luminaire Specifications	Installation Detail Drawings
On-site Lighting Mock-ups	Custom Luminaire Design
Computer-aided Design and Analysis	Energy and Construction Cost Containment
LEED Design & Documentation	Project Budget Estimates
Equipment Procurement Guidance	On-site Visits and Aiming

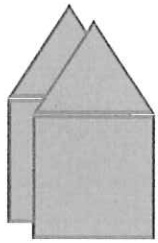
Project Types

Public Circulation and Roadway	Educational Facilities
Religious Buildings	Banks and Financial Institutions
Commercial Office Spaces	Special Use Spaces
Architectural Bridge Lighting	Restaurants and Retail Spaces
Building Facade Lighting	Resort Complexes
Museums and Galleries	Public Gardens and Plazas
Historical Restorations/Renovations	Private Residences/Art Collections
Educational Facilities	Site and Landscape Lighting
L.E.E.D. & Sustainable Projects	Light Art & Effects Projects

architectural
+ landscape
illumination
consultants

402 peebles street
sewickley, pa 15143

ph 412.749.0533
fax 412.749.0523



KDM

KDM Consultants, LLC

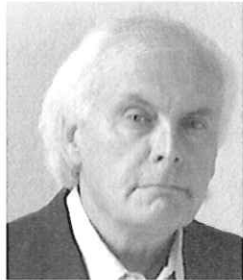
KDM Consultants, LLC (Clarksburg, WV) is an independent construction cost estimating and project management firm.

KDM specializes in construction cost estimating, with specialties and qualifications in the disciplines of Civil, Structural, and Architectural estimating. Industries served include commercial, higher education, industrial, and residential. Delivery methods include design-bid-build, and design-build.

KDM is particularly adept at providing reliable "conceptual" estimates that are vital to decision making in the early stages of planning. In addition, they bring regional experience to understand the characteristics of the southern WV construction and bidding market.

Sheldon Goettel, AIA, LEED AP

Principal Perfido Weiskopf Wagstaff + Goettel



Education

Carnegie Mellon University
Master of Architecture, 1979
Washington & Jefferson
College Bachelor of History,
1972

Registration

Registered Architect in PA, NY,
and OH

Professional Associations

LEED AP
NCARB Certification
American Institute of Architects
Carnegie Mellon University,
Adjunct Professor of
Architecture

Sheldon has been in the continuous practice of architecture since 1979. Sheldon joined the firm in 1989 and became a Principal in 2000. He has served as the Project Architect or Principal-in-Charge of many of the firm's most significant planning and renovation projects. He has experience in a wide range of project types including facilities planning and community master planning, the adaptive reuse of buildings including historic structures for a wide variety of occupancies, and building forensics and corrective reconstruction. Sheldon served as an Adjunct Professor of Architectural Design in the School of Architecture at Carnegie Mellon University from 1990 to 2007. He is a graduate of Leadership Pittsburgh. He is a member of the Board of Pittsburgh Filmmakers / Pittsburgh Center for the Arts, and he served as President of the Board of Pittsburgh Filmmakers from 2000 to 2004.

Notable Project Experience:

Health Sciences Hall, West Liberty University, West Liberty, PA - 71,000 sf new building to house every health care major offered by the university.

Carnegie Mellon University Open End Contract, Pittsburgh, PA - Various forensic and restoration projects.

College of Fine Arts Renovation, CMU - Code and Accessibility renovations in an iconic historic building

Warner Hall Study, CMU - Comparative analysis of options for reuse of 1960s era administration building

Resnick Dormitory Renovation, CMU - Forensic analysis and remedial reconstruction of failed masonry structures

The Palace Theatre Restoration, Greensburg, PA - seven year multi-phase project including back-of-house, house, and stage renovations

Mt. Alvernia Motherhouse Renovation, Pittsburgh - renovation of a circa 1900 convent and design of new Nursing Home

Little Sisters of the Poor, Pittsburgh - new construction, renovation, and restoration for skilled care, senior apartments, offices and chapel

R.B. Harrison Village Reconstruction, McKeesport - Master Planning & building design for renovation of 5 apt. buildings

Fayette County Housing Authority, Master Planning - leading to projects for 3 new neighborhoods

Glen Hazel High Rise Renovation, Pittsburgh - complete renovation of a fully and continuously occupied high-rise

Oak Hill, Phase II, Pittsburgh - Master Planning for more than 450 new dwellings in 7 sub phases

West Park Court, Pittsburgh - Design and installation of advanced 'rainscreen' walls on a fully occupied high rise

Steel City Terrace, Pittsburgh - A 156 unit HOPE VI new neighborhood accomplished in 4 continuous phases

Joe Filar, AIA, LEED AP

Associate Perfido Weiskopf Wagstaff + Goettel



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
LEED Accredited Professional
National Historic Trust
Pittsburgh History &
Landmarks Foundation
Pittsburgh Downtown
Partnership

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:

Becht Hall, Clarion University - 53,000 sf historic renovation, LEED Silver goal

Oglebay Hall & Ming Hsieh Hall, West Virginia University - 55,000 sf historic renovation and 20,000 new building, LEED Certified

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

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

Richard Miller, AIA, LEED AP

Senior Associate **Perfido Weiskopf Wagstaff + Goettel**



Education

Carnegie Mellon University
Bachelor of Architecture, 1975

Registration

Registered Architect in PA
and MD

Professional Association

American Institute of Architects
LEED Accredited Professional
CSI - CCCA (Certified
Construction Contract
Administrator)

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 million. 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 sf new building, LEED Information Science & Technology Building, Penn State University - \$50 million academic building

West General Robinson Street Garage, Pittsburgh - 10 story event garage with 1200 spaces

Pittsburgh International Airport, Pittsburgh, PA - addition of private/public elevators in the airside terminal

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

Little Sisters of the Poor, Pittsburgh - renovation and restoration of an historic building for senior recreation and social services and administrative offices

Glen Hazel High Rise Renovation, Pittsburgh - complete renovation of a fully and continuously occupied high-rise

Vermeire Manor Apartments, Phase I and Phase II - Additions and renovations to convert efficiencies in a 79-unit building to one bedroom apartments with expanded living space

Pennsylvania Capitol Peristyle Deck Harrisburg - Investigation, analysis and design for waterproofing the exterior peristyle walkway at the base of the ornate dome of the historic PA State Capital Building.



James M. Vizzini, P.E. LEED® Accredited Professional

James M. Vizzini, P.E. is a Partner of CJL Engineering. He is responsible for management decisions, overseeing current projects, and maintaining relationships with architect and clients. Mr. Vizzini serves as a project engineer on numerous historic renovation projects. He also designs HVAC systems for various commercial and institutional projects, as well as schools (K-12), universities, historic renovations, and health care facilities. These projects have ranged from large equipment replacement such as boilers and air handling units, CFC upgrades and chiller replacements, entire HVAC systems design to district cooling plants.

A representative selection of Mr. Vizzini's historic renovation projects include:

State Office Building #3, West Virginia Capital Complex, Charleston, WV

Oglebay Hall (LEED Certified) University of West Virginia, Morgantown, WV

Soldiers & Sailors Memorial Hall / Museum, Pittsburgh, PA

St. John Gaulbert Cathedral, Johnstown, PA

Pasquerilla House, Johnstown, PA

Clarion University - Founders Hall, Clarion, PA

Clarion County Courthouse, Clarion, PA

Oakmont Country Club, Pittsburgh, PA

Mishler Theatre, Altoona, PA

Benedum Theater - Pittsburgh Cultural Trust, Pittsburgh, PA

Community College of Allegheny County (CCAC) - Jones Hall, Pittsburgh, PA

Allegheny College - Brooks Hall, Meadville, PA

University of Pittsburgh - Cathedral of Learning, Pittsburgh, PA

Allegheny College - Carr Hall Science Building, Meadville, PA

Community College of Allegheny County - West Hall, Pittsburgh, PA

DiSepio Health & Wellness Center (LEED), St. Francis University Loretto, PA



TITLE:

Managing Partner

SPECIALIZATION:

Mechanical Engineering
Master Planning
District Cooling Plants

EDUCATION:

B.S. / 1987 / Mechanical Engineering
Technology
University of Pittsburgh at Johnstown

**REGISTERED PROFESSIONAL
ENGINEER:**

Pennsylvania
District of Columbia
Maryland
New Jersey
New York
Virginia
West Virginia
Delaware
North Carolina
Massachusetts

MEMBERSHIPS/ACTIVITIES:

LEED® Accredited Professional
American Society of Mechanical
Engineers (ASME)
American Society of Plumbing
Engineers (ASPE)
American Society of Heating,
Refrigeration and Air Conditioning
Engineers (ASHRAE),
Association for the Study of Higher
Education (ASHE)
International Ground Source Heat
Pump Association (IGSHPA)
Pennsylvania Society of Professional
Engineers (PSPE)
National Society of Professional
Engineers (NSPE)
U.S. Green Building Council (USGBC)

Kent A. Lewis, P.E., LC LEED® Accredited Professional

Mr. Lewis is a Managing Partner with CJL Engineering. He joined the firm in 1997 after serving 10 years as an engineer / lighting designer with a large national architectural / engineering firm. His project experience includes numerous educational, commercial, healthcare, institutional projects as well as heading the firm's specialized lighting consulting practice.

Representative Projects:

Theater

O'Reilly Theater, Pittsburgh Public Theater Offices, Pittsburgh, PA
Heinz Hall Renovations, Pittsburgh, PA
Byham Theater Renovations, Pittsburgh, PA

LEED®/Green

UPMC Passavant Pavilion, University of Pittsburgh Medical Center
Pittsburgh, PA - LEED® Silver
NAVFAC Building Dental Clinic, Newport, RI - LEED® Certified
Stryker Brigade Readiness Centers - Pennsylvania Army National Guard
Bradford, Hermitage and Punxsutawney, PA
(SPiRiT Gold Rating comparable to LEED® Gold)
Point Park University Dance Studio, Pittsburgh, PA - LEED® Silver

Education

Pittsburgh Board of Education, Center for the Creative and
Performing Arts High School, Pittsburgh, PA
University of Pittsburgh Blaisdell Hall, Bradford, PA
Davidson College Grey Music Hall, Davidson, NC
Penn State University, University Park, PA
Lebanon Valley College Garber Science Center, Annville, PA
Grafton Middle / High School, Grafton, VA
Seton Hill University, Administration/Theater Buildings, Greensburg PA
Westminster College, McKelvey / Thompson Clark Halls, New Wilmington, PA
Butler County Community College Science Technology & Cultural Center, PA
Washington & Jefferson College Vilar Technology Center, Washington, PA
The Art Institute of Pittsburgh, Pittsburgh, PA

Corporate

Kvarner Office Building, Pittsburgh, PA
Station Square, Freight House, Pittsburgh, PA

Churches

St. Paul Cathedral, Pittsburgh, PA
Shadyside Presbyterian Church, Pittsburgh, PA
St. Paul the Cross Father Foley Shrine, Pittsburgh, PA

Health Care

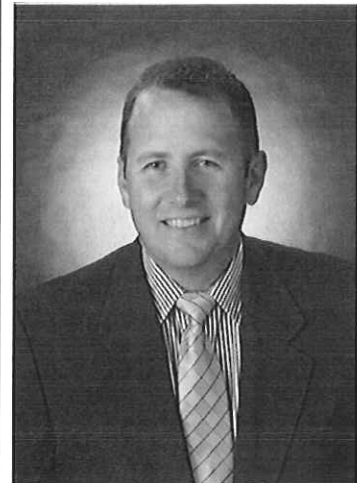
UPMC East, Monroeville, PA - LEED® Silver
UPMC Presbyterian Hospital Diagnostic / Treatment Center, Pittsburgh, PA
UPMC Passavant Hospital, various electrical design projects, Pittsburgh, PA
Ohio Valley Hospital Special Procedures Suite, McKees Rocks, PA

Hotels

Omni William Penn Hotel, Pittsburgh, PA
Marriott Renaissance Pittsburgh Hotel, Pittsburgh, PA

Transportation

Dulles Airport APM Station, Washington, DC



TITLE:

Managing Partner

SPECIALIZATION:

Electrical Engineering
Architectural Lighting

EDUCATION:

The Pennsylvania State University,
Bachelor of Architectural
Engineering, 1984

REGISTERED PROFESSIONAL ENGINEER:

Pennsylvania
West Virginia
Ohio
Illinois
North Carolina
Georgia
District of Columbia
Indiana

MEMBERSHIPS/ACTIVITIES:

LEED® Accredited Professional

Illuminating Engineers Society of
North America

Speaker, Penn State University,
Archival Conference, "Library
Lighting"

Professional Consultant, LaRoche
College, Pittsburgh, PA - Thesis
Review for Interior Lighting Class

Dennis J. Kopko, CPD, LEED Accredited Professional

Before joining CJL Engineering Dennis previously worked at Meucci Associates, LLC. With over 16 years of experience as a plumbing designer, Dennis has been involved in numerous projects for primary and secondary education, colleges and universities, and performing arts facilities, hospitals, manufacturing facilities and office buildings. Dennis also has considerable experience in computer systems and operations.

Education

Allison Park Elementary School, Houston, PA
 Avella Elementary School, Avella, PA
 Carlow University School of Nursing, Pittsburgh, PA
 Carnegie Mellon University Mellon Institute, Pittsburgh, PA
 Clarion University Frame/Rhoades Halls, Clarion, PA
 Davidson College Cunningham Hall, Davidson, NC
 Duquesne University Des Places Residence Hall, Pittsburgh, PA
 Duquesne University Library Plaza and Locker Rooms, Pittsburgh, PA
 Lock Haven University Durrwachter Alumni Center, Lock Haven, PA
 Mount Pleasant Field House, Mt. Pleasant, PA
 Oakland Catholic High School, Pittsburgh, PA
 Seton Hill University Sullivan Hall and University Center, Greensburg, PA
 Slippery Rock University, Various Projects, Slippery Rock, PA
 University of Pittsburgh, Various Projects, Pittsburgh, PA
 University of Pittsburgh Bradford New Residence Hall, Bradford, PA
 Upper St. Clair Ft. Couch Middle School, Upper St. Clair, PA
 Washington & Jefferson College Dormitory, Washington, PA
 Winchester Thurston School, Pittsburgh, PA
 Wittenberg University New Dormitory, Springfield, OH
 Woodland Hills School District Wolvarena, Pittsburgh, PA

Commercial

Army Reserve Center, Erie, PA
 Dynavox, Pittsburgh, PA
 Green Building Alliance Office, Pittsburgh, PA
 McKees Rocks Building Fire Protection Report, McKees Rocks, PA
 Mercer County Courthouse, Mercer, PA
 NAVFAC Dental Clinic and Gymnasium, Newport, RI
 North Hills YMCA, Pittsburgh, PA
 Park Place Office Complex Fire Protection, Robinson Township, PA
 Penn Hills YMCA, Penn Hills, PA
 Phipps Conservatory, Oakland, PA
 PNC Banks, Various Nationwide Projects
 Sewickley Audi, Sewickley, PA
 Benson Lincoln-Mercury, Whitehall, PA
 Sewickley Car Store, Sewickley, PA

Healthcare

BJC Hospital ICU, St. Louis MO
 Centre Avenue Surgery Center, Pittsburgh, PA
 Edgeworth Commons – Dr. Moracca OB/GYN Office, Sewickley, PA
 Family Hospice, Mt. Lebanon, PA
 Frick Hospital MRI Room and ER, Mt. Pleasant, PA
 Greenville Hospital Addition, Greenville, PA
 UPMC Mercy Hospital
 UPMC Greenville Operating Rooms, Greenville, PA
 UPMC South Site PACU and Radiology, Pittsburgh, PA
 UPMC Renaissance Center, Penn Hills, PA
 UPMC Shadyside Family Health and Radiology, Shadyside, PA
 UPMC South Side Roesch Taylor Building, Pittsburgh, PA



TITLE:

Associate
 Plumbing Design
 CJL Pittsburgh

SPECIALIZATION:

Plumbing Design

EDUCATION:

1989 Dean Institute of Technology,
 Associates Degree

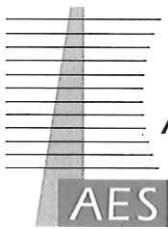
REGISTERED PROFESSIONAL ENGINEER:

ASPE Certification in Plumbing Design

MEMBERSHIPS/ACTIVITIES:

American Society of Plumbing
 Engineers

National Fire Protection Association



Atlantic Engineering Services

JOHN M. SCHNEIDER, P.E.

Vice President

Atlantic Engineering Services of Pittsburgh

Role for this Project: Principal in Charge

Education: Bachelor of Architectural Engineering
Pennsylvania State University, 1983

Experience:

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.

Mr. Schneider has acted as principal-in-charge for historic preservation, renovation, and new construction projects. Projects directed by Mr. Schneider range in size from as small as \$1 million to as large as \$110 million. His notable renovation projects include the Pittsburgh Regional History Center, a \$25 million addition and renovation to the historic 6-story, heavy-timber-framed building in the Strip District of Pittsburgh, Pennsylvania. Another historic building of note is the \$45 million renovation of the Renaissance Hotel in Pittsburgh, Pennsylvania. AES' efforts toward the renovation included the design of new mechanical mezzanines, new floor infills and new stairwells, various floor penetrations to accommodate upgraded mechanical systems, reconstruction of the below-grade electrical and mechanical vaults, as well as design of a new marquee at the entrance. He acted as principal-in-charge for the Altoona Railroader's Museum Renovation, a \$12 million restoration of an 1880's structure which is on the National Historic Register.

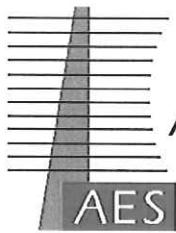
Mr. Schneider has also served as structural engineer for preservation work at historic structures including the restoration of the Allegheny Library branch (circa 1890) of the Carnegie Library in Pittsburgh, Pennsylvania. This work required structural analysis and design of repair work to some steel roof trusses, as well as a portion of the library floor, after a lightning strike dislodged a large piece of the stone clock tower and sent it through the roof of the library and onto the floor below.

Professional Registrations: Licensed Professional Engineer in Pennsylvania, Colorado, District of Columbia, Kentucky, 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
Pittsburgh History & Landmarks Foundation

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

Professional Seminars: Presenter for Engineering Society of Western Pennsylvania's November 19, 1998, seminar "Structural Aspects of the new \$65 Million Alcoa World Headquarters Building on Pittsburgh's Waterfront."



Atlantic Engineering Services

GILBERT J. TAYLOR, JR., P.E.

Structural Engineer

Atlantic Engineering Services of Pittsburgh

Role for this Project: Project Engineer

Education: Bachelor of Architectural Engineering
The Pennsylvania State University, May 2000

Master of Architectural Engineering
The Pennsylvania State University, May 2000

Experience:

Mr. Taylor began his career consulting for architects as a full-time structural designer with Atlantic Engineering Services in July of 2000, shortly after earning his degrees from The Pennsylvania State University. During the ten year period prior extending from 1993 to 2003, Mr. Taylor also served in the U.S. Army as an airborne ranger infantryman with the 1st Battalion, 75th Ranger Regiment based in Savannah, GA. and in the Pennsylvania Army National Guard as a flight operations specialist with the 1st Battalion, 104th Aviation Brigade based in Johnstown, PA. In addition to becoming an associate of the firm in 2008, he has transitioned into the role of Project Engineer for a wide variety of projects throughout the United States including facility studies, new construction/renovation, building additions, and structural condition assessments.

Projects managed and designed by Mr. Taylor range in size from as small as \$1/4 million to as large as \$70 million. Some relevant project experience follows:

The Dinosaurs in Their World project included \$36 million of renovations and additions to the existing Carnegie Museum of Natural History. This project is the largest renovation at the museum since its founding in 1895 and converted an open-air courtyard of the original museum into a 3-story, tiered exhibit space. Special considerations for this project included design of structural systems capable of supporting fossilized dinosaur specimens such as the Diplodocus, Apatosaurus, and Allosaurus. The new roof structure included 65-foot clear-span roof trusses designed to provide a column-free exhibit space. A monumental spiral-stair consisting of miscellaneous steel shapes with glass railings and marble treads was also included within the structural scope of work. Construction for this LEED Silver Certified project was completed in November 2007 and the project won the 2008 Master Builder's Association award for "Best Renovation Project over \$10 million.

The Meadowcroft Rock Shelter is a natural outcropping of rock carved by the flow of a nearby stream and used by prehistoric humans as camp site during travel through western Pennsylvania. The dig site, operated by the Heinz History Center, is an historic landmark discovered in 1955 and excavated by an archeological team led by Dr. James Adovasio during the mid 1970's. Construction of the Meadowcroft Rockshelter Enclosure included a new public observation platform and a 70 foot clear span glu-laminated timber roof structure. The structure is supported by shallow foundations at the lower end of the site but attached directly to an irregular cliff face at the upper end. The new enclosure was designed to protect the 16,000 to 19,000 year old artifacts while granting the public viewing access to portions of the site that were previously accessible to only archeologists. The project was opened to the public in May 2008 and it received the 2008 Master Builder's Association award for "Best New Construction Under \$10 Million".

Jeffrey E. Babich, INCE Bd. Cert.

Principal

Education

Master of Arts in Acoustics and Audio Design, Johns Hopkins University
Bachelor of Science in Mechanical Engineering, Purdue University

Professional

Institute of Noise Control Engineering, Board Certified Member
Acoustical Society of America, Member
InfoComm International, Certified Technology Specialist

Qualifications

Jeffrey E. Babich is an acoustical consultant with more than 10 years of experience. Skills include lead acoustical design, testing, project management for audiovisual and technology systems, and business development. He has consulted on hundreds of acoustics and audiovisual designs for universities, schools, hospitals, offices, worship spaces, theaters, and multifamily dwellings throughout North America.

Recommendations for theaters and auditoria are consistent with ANSI S12.60, *Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools*, as well as requirements to obtain LEED points for enhanced acoustics.

Babich has experience on the following theater and auditorium projects:

- **Google Pittsburgh Tech Talk Room:** Acoustical consulting for an auditorium and lecture room at Google's new offices in Pittsburgh, PA.
- **Harrisburg University Lecture Hall:** Acoustical design for a new lecture hall with surround sound, video capture, and presentation capabilities.
- **Miami University Armstrong Student Center Theater:** Acoustical design for multipurpose auditorium for cinema, lectures, and small music performances.
- **New Hazlett Theater:** Acoustical design theater renovation in Pittsburgh, PA. Multipurpose theater is used for plays, presentations, and music ensembles.
- **West Virginia University Brooks Hall:** Acoustical design for renovation to the building that included a 350-seat lecture hall with upgraded audiovisual technologies.
- **West Virginia University Oglebay Hall:** Acoustical design for auditorium, classrooms, labs, and other learning spaces.

References

- Google Pittsburgh:
 - Jon Barker, Google, 412.345.6700
 - Ed Shriver, Strada Architecture, 412.263.3800
- Harrisburg University Lecture Hall:
 - Steve Nearhoof, Burt Hill / Stantec, 724.285.4767
- Miami University Armstrong Student Center Theater:
 - Kevin Denman, BHDP Architecture, 513.271.1634

Todd R. Beiler, P.E., INCE Bd. Cert.

Audiovisual Consultant

Education

Master of Science in Mechanical Engineering, University of Hawaii

Bachelor of Science in Mechanical Engineering, Purdue University

Professional

State of Hawaii, Professional Engineer

State of Oregon, Professional Acoustical Engineer

Institute of Noise Control Engineering, Board Certified Member

Qualifications

Todd R. Beiler is an audiovisual and acoustical consultant with 15 years of experience. Specialties include room acoustics, speech reinforcement system design, audiovisual design, videoconferencing design, mechanical noise and vibration control, environmental noise assessment, and sound masking system design.

Todd has worked on auditoria and theater projects in the United States as well as Guam, South Korea, Singapore, Japan, and other countries in the Pacific region.

Beiler has experience on the following theater and auditorium projects:

- **University of Hawaii at Hilo Ka Haka 'Ula O Ke'elikolani:** Audiovisual system design for divisible performing arts space. Sound systems designed to be used without an operator or in mix mode with an operator.
- **Kamehameha Schools Hawaii Campus and Maui Campus Theaters:** Audiovisual systems design for two theaters. Each included a large format rear projection screen used for presentation and as a backdrop for performances.
- **Denver Wildlife Experience Museum:** Audiovisual systems design for the entire museum. Systems included background music throughout the public areas with individual zone control for audio volume and source select. Sound reinforcement systems for a banquet hall and theater.
- **Kroc Center Hawaii:** Audiovisual systems design for 500-seat performing arts auditorium used for worship services and theater events. The Kroc Center is the largest community center of its kind in Hawaii with an endowment grant from a bequest to The Salvation Army by the late Mrs. Joan Kroc, widow of McDonald's founder Ray Kroc.
- **Sevier Valley Center:** Sound reinforcement system design for a theater in Utah.

References

- University of Hawaii at Hilo Ka Haka 'Ula O Ke'elikolani:
 - Steve Yee, SSFM, 808.933.2727
- Kamehameha Schools Hawaii Campus and Maui Campus Theaters:
 - Katie MacNeil, Group 70 International, 808.523.5866

Hilbish McGee Lighting Design

Haldane E. Hilbish, IALD, IES



Graduate of University of Cincinnati, School of Design, Architecture, and Art with a Bachelor of Science in Design. Began working with John Maguire Associates Illumination Consultants in 1977, while a student, and continued as a full time employee, in 1979, aiding in the firm's expansion into larger, more complex projects. His contributions to the firm and its ideals led to his partnership and the formation of Maguire Hilbish Associates, of which he attained ownership in 1995. Has been involved with the design of lighting systems for a myriad of project types both large and small, public and private. This work, throughout the United States, includes development of lighting systems for all types of architectural spaces, both interior and exterior. He continues touring extensively in United States, Europe, and Canada to study architecture, history, and attendant lighting. His interest in the

visual arts has led to collaboration with both John Maguire and other artists in the creation of various light art works including site specific installations.

Patrick McGee, IES

Graduate of West Virginia University, with a Bachelor of Science in Design. Joined the firm in 1988 after completing an internship with another leading lighting consultant firm in New York City through the International Association of Lighting Designers (IALD) affiliated program and attained partner status in 2002. Involvement in projects includes all phases of the design process from initial meetings and estimates to design development, computer assisted drawings and lighting analysis, sustainable and control coordination, construction administration, through final aiming. He continues his informal education with associated courses, attendance at lighting expositions and forums, and world travels. Has completed private works in light art and stained glass along with



commercial installations of light art in collaboration with the firm and various artists. He maintains an active membership with IALD and IES and has promoted the role and importance of lighting as a design medium through speaking engagements and tours. Currently serves as board member and technological chair for Pittsburgh IES Chapter..

402 peebles street
sewickley, pa 15143

ph 412.749.0533
fax 412.749.0523

architectural
+ landscape
illumination
consultants

DANIEL L. MOORE

11 Brighton Circle Clarksburg, WV 26301 (304) 623-1513

CERTIFICATIONS

C.P.E. –

"Lifetime Certified Professional Estimator" by
THE AMERICAN SOCIETY OF PROFESSIONAL ESTIMATORS
GEK – General Estimating Knowledge – 11/30/92
DST – Discipline Specific Test – 04200 Masonry – 11/30/95
LIFETIME CERTIFICATION – December 2008

EMPLOYMENT HISTORY

KDM CONSULTANTS, LLC , Clarksburg, WV

JANUARY 2010 – PRESENT

Owner/Chief Estimator/Project Manager

My business incorporates my 30 years of experience in estimating and project management. KDM specializes in construction cost estimating, with specialties and qualifications in the disciplines of Civil, Structural, and Architectural estimating. Industries served include commercial, higher education, industrial, and residential. Delivery methods include design-bid-build, and design-build.

BBL CARLTON, LLC / CARLTON, INC. , Albany, NY & Clarksburg, WV

JANUARY 1989 TO JANUARY 2010

Chief Estimator/Project Manager; Opened and managed the Clarksburg satellite office for BBL in 1991.

ESTIMATING: Project Orientation, Bidding Schedules, Specification/Plan Review, Bid Document Procurement, Bid Formats, Solicitations, Quantity Surveys, Quantity Conversions to Computer Bid Format, Pricing, Subcontractor Bid Analysis; Estimate Consolidation, Risk Manager, Final Bid.

PROJECT MANAGEMENT: Project Schedules on Microsoft Project, Schedule of Values, Job Cost Coding and Monitoring, Job Cost Evaluations, AIA Billings, Change Orders, Contracts/Purchase Orders, Purchasing, Construction Management & Design Build

HUFFMAN CORPORATION General Contractors/Construction Managers, Clarksburg, WV

APRIL 1987 TO AUGUST 1988

Vice President / Member Board of Directors

ESTIMATING: Project Orientation, Bidding Schedules, Specification/Plan Review, Bid Document Procurement, Concrete & Masonry Estimates, Solicitations, Quantity Surveys, Pricing, Subcontractor Bid Analysis, Estimate Consolidation, Final Bid.

PROJECT MANAGEMENT: Personnel & Placement, Purchasing, Field Operations, Project Schedules, Schedule of Values, Job Cost Coding and Monitoring, Job Cost Evaluations, AIA Billings, Change Orders, Contracts/Purchase Orders, Company Safety Officer,

MCANALLEN CORPORATION, General Contractors/Construction Managers, Bridgeport, WV

Project Manager

Estimating, Purchasing (Was on the Barton Mallow/Mcanallen Project Estimating team for the Veterans Administration Medical Center Additions/Renovations Project \$23,000,000.00

SELECTED COMMERCIAL JOBS of NOTE (as Chief Estimator/ Project Manager)

APPALACHIAN POWER PARK, Charleston, WV

WEST VIRGINIA DEP OFFICE CONSOLIDATION PROJECT, Charleston, WV

ELEANOR MAINTENANCE FACILITY – PHASE I, Eleanor, WV

ELEANOR READINESS CENTER – PHASE II, Eleanor, WV

MARIETTA COLLEGE RESIDENCE HALLS, Marietta, Ohio

ROBERT C. BYRD ACADEMIC & TECHNOLOGY CENTER, MARSHALL UNIVERSITY GRADUATE COLLEGE
Marietta, Ohio

DOW CHEMICAL BUILDING 307 RENOVATIONS & NEW MAIN ENTRANCE, South Charleston, WV

WV HUNTINGTON CONSOLIDATION PROJECT, Huntington, WV

MUSEUM IN THE COMMUNITY, Hurricane, WV

MARION-FAIRMONT REGIONAL CANCER CENTER, Fairmont, WV

U.S. ARMY RESERVE CENTER, Charleston, WV

APPALACHIAN POWER COMPANY – NORTH CHARLESTON SERVICE CENTER, Charleston, WV

ADDITIONS/RENOVATIONS TO STONEWALL JACKSON MEMORIAL HOSPITAL, Weston, WV

YEAGER AIRPORT PARKING FACILITY, Charleston, WV

Certifications

Perfido Weiskopf Wagstaff + Goettel

Certification Regarding Capacity

For all proposals and expressions of interest, PWWG performs an internal review of the firm's schedule for existing projects and adds an "overlay" of the estimated schedule for the project being sought. We have undertaken that exercise for the State of West Virginia's contract and have determined that we have ample qualified staffing, facilities, and technology to perform the services as outlined, and that they can be available in the time frame to successfully complete the project.

All members of this team are available to start working on the State of West Virginia's project at the Grave Creek Archeology Complex starting in the second quarter of 2012.

Statement of Agency 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.

Statement of Ability to Conform With Regulations

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.

Certification Regarding Outstanding Litigation

No member of this team has litigation or arbitration hearings, including vendor complaints, that have been filed relating to their respective delivery of design services for the State of West Virginia's Purchasing Division or with other Agencies of the State of West Virginia.


Sheldon Goettel, AIA, LEED AP, Principal

5.1.2012
Date

(References for PWWG & CJL projects included in this section are presented in Tab 5)

The Palace Theatre

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

Size 70,982 s.f.
Construction Cost
\$ 10,400,000
Firm Responsibility
Programming
Architectural Design
Contract Documents
Contract Administration
Completion Date 2004
Client
Mr. Michael Langer
President and CEO
The Westmoreland Trust



Restored historic facade and marquee

The Palace Theatre in downtown Greensburg is a 1920s-era theater that was originally built for vaudeville productions and silent movies. Over the years, the Palace has suffered from periods of under-utilization and neglect, but it has also suffered from ill-conceived "improvements." Much of the original character of the theater remains intact, however, and The Westmoreland Trust is undertaking its renovation and historical restoration to provide the region with a 1500-seat venue for musical and theatrical productions.

PWWG worked with the Trust for seven years, providing the architectural and planning services necessary to complete a four-phase facility plan.

Phase I involved the stabilization of the building and the management of fundamental safety issues. Phase II, which was completed in 1998, began the comprehensive renovation of the infrastructure and interior, and substantially improved patron amenities. New theatrical lighting and acoustical equipment were installed, and problems with the theater's electrical, mechanical and life safety systems were resolved.

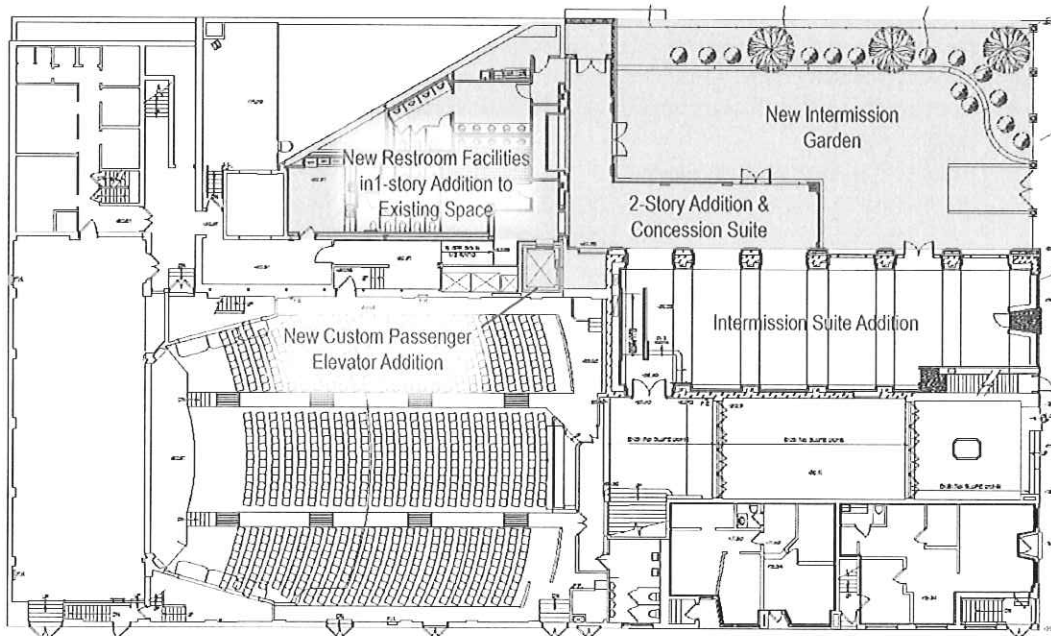
One aspect of the work was to install new (but historically accurate) box seats to replace the original boxes that were lost when the house was used for cinemascope presentations in the 1970s.

Phase III, begun in July of 2003, completed the renovation of the theater, including the historic restoration of all public spaces and exterior facades. There are new and renovated patron facilities including a new 2-story addition and concession suite, renovated interior spaces and new historic storefront, restrooms built out in existing unused space expanded vertically by one floor, and a new custom passenger elevator addition that opens in multiple directions to serve all public floors including the balcony and upper balcony of the theatre and provides accessible access. In Phase III the outdoor Intermission Garden was also completed, and electrical, mechanical, lighting and acoustic systems begun in Phase II were also completed.

Phase IV of the master plan calls for the renovation of approximately 20,000 s.f. of tenant space and storefronts within multiple levels of the Palace facility adding to the downtown Greensburg business district. Rental money from the tenant spaces will contribute to the long-term financial stability of the Palace Theatre.



New Intermission Garden off of 2-Story Foyer Addition



Various additions completed in Phase III

Oglebay Hall & Ming Hsieh Hall, West Virginia University

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

Oglebay Hall Size

50,000 s.f. renovation

Ming Hsieh Hall Size

16,000 new building

Construction Cost

\$ 20,000,000 combined

Firm Responsibility

Programming

Architectural Design

Contract Documents

Contract Administration

Completion Date 2008

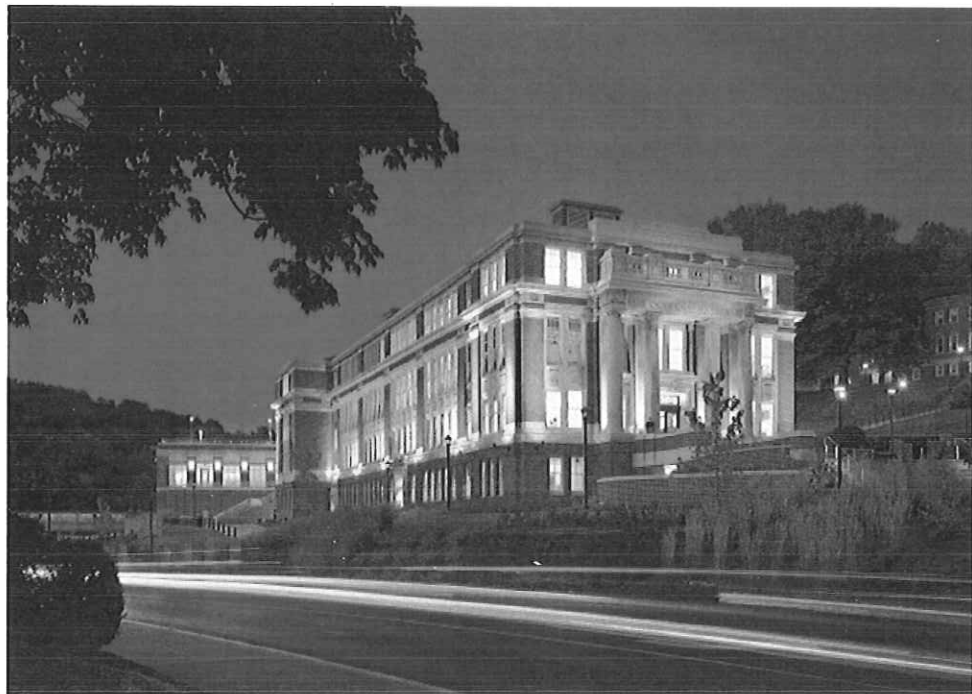
Client

West Virginia University

Certifications

National Register Listed

LEED Certified



"In all my years in higher education it is the building I am most proud of. You guys hit a home run on the design."

*Joe Fisher,
Associate Vice President
Facilities and Services*



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

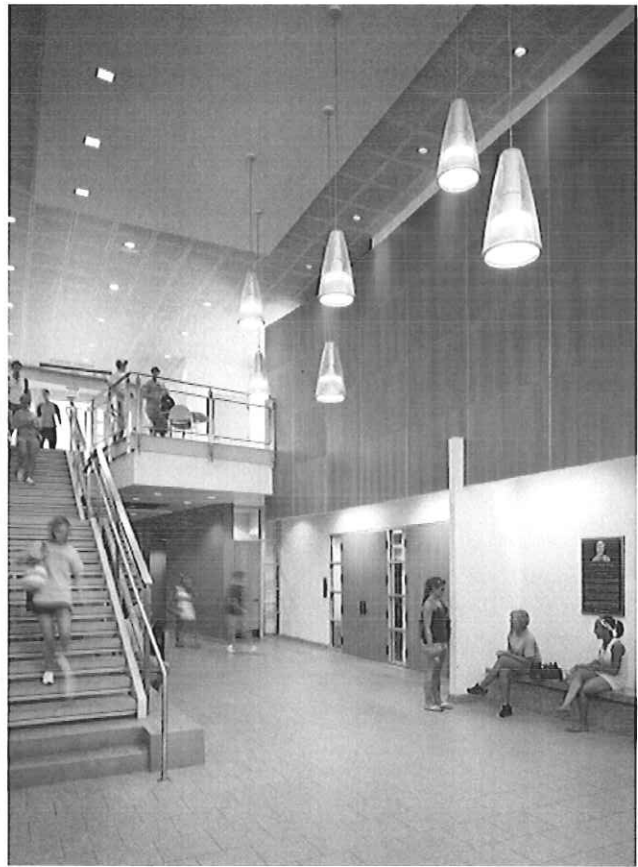
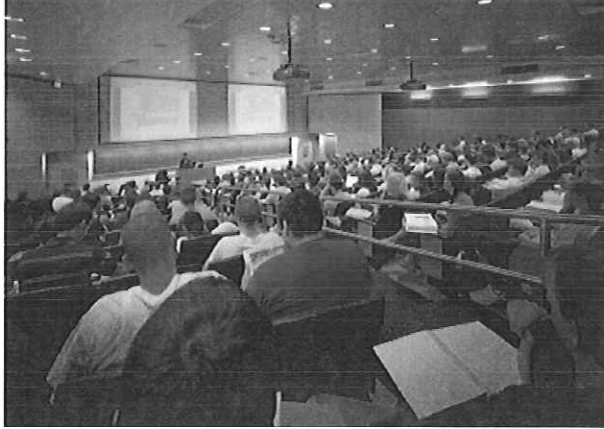
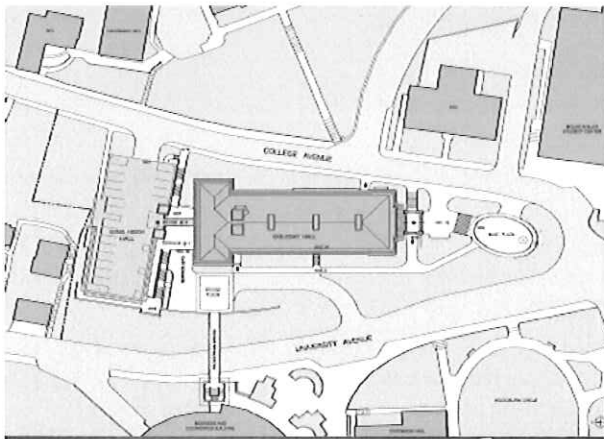
By relocating surface parking to the roof of Ming Hsieh Hall and rerouting the service entrance, fragmented pedestrian paths were stitched together and impervious surface area was reduced despite the construction of a new building. A pedestrian bridge crosses University Avenue alleviating the conflict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

Oglebay Hall - Historic Rehabilitation

The National Register listed Beaux Arts classroom building was designed by architect Paul A. Davis, III 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.



City Theatre

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

Size 12,300 s.f.

Construction Cost

\$ 1,250,000

Firm Responsibility

Programming

Architectural Design

Contract Documents

Contract Administration

Completion Date 1991

Client

City Theatre Co., Inc.



The City Theatre project includes a flexible 275-seat theatre, a smaller "black box" theatre with 100 seats, a scene shop, and the theatre offices.

Specifically, the project involved the renovation of two historic churches on the block – the smaller built in the 1830s and the larger in the 1850s. The parsonage for the latter has also been renovated, and houses dressing rooms, the green room, and additional office space.

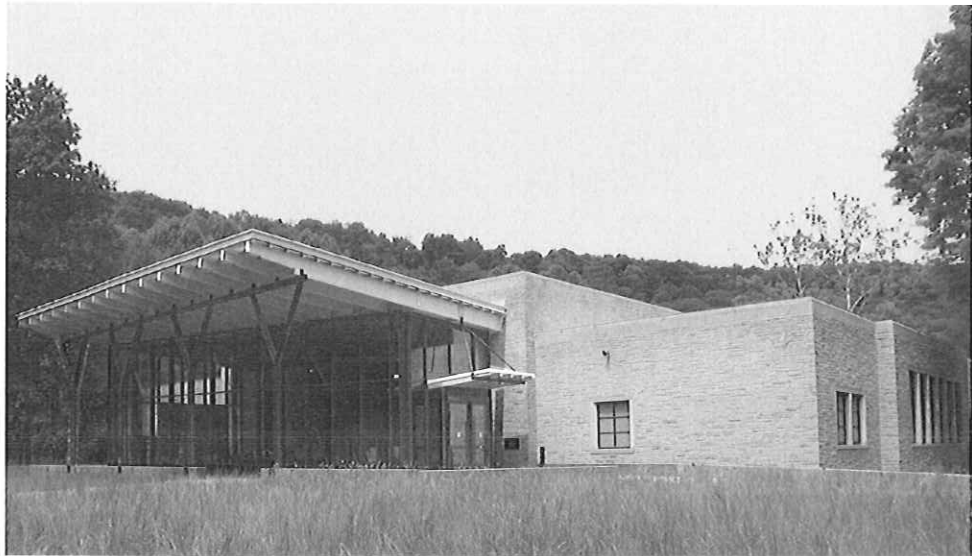
The main lobby and offices are located in the former social hall of the larger church, on the first floor. The main theatre is located on the second floor, in what was originally its worship space. Depending on the requirements of the theatrical production taking place, the space can easily be converted: both a "modified proscenium" configuration and a "thrust" conformation are possible. The original plaster ceiling has been removed to expose the church's heavy timber trusses and deaden the space acoustically. The removal of the plaster also makes room for a flexible lighting grid.

The smaller church now houses the black box theatre. It is separated from the larger structure by a courtyard which can be used during intermissions in summer months. The two theatres share all support functions. Access is through the foyer of the main theatre and along a covered walkway.

Drake Well Museum Renovation and Addition

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

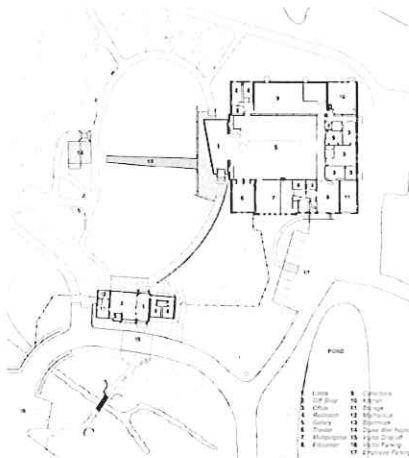
Size 21,500 s.f.
Construction Cost
 \$ 3,700,000
Firm Responsibility
 Programming
 Architectural Design
 Contract Documents
 Contract Administration
Completion Date
 December 2010
Client
 PA Dept. of General Ser-
 vices, PHMC



Located in Titusville, along Oil Creek, this site had an early history of numerous oil seeps and pits readily utilized by Native Americans and European settlers until 1859 when Edwin L. Drake drilled for and struck oil commencing an industry of profound impact. The current site includes a replica of the original Drake Well drilling structure, a collection of operating oil field equipment, historic buildings, the Museum Building and Entrance/Gift Shop Building. The site also functions as a recreational park connected to an operating railroad, bike and hiking trails.

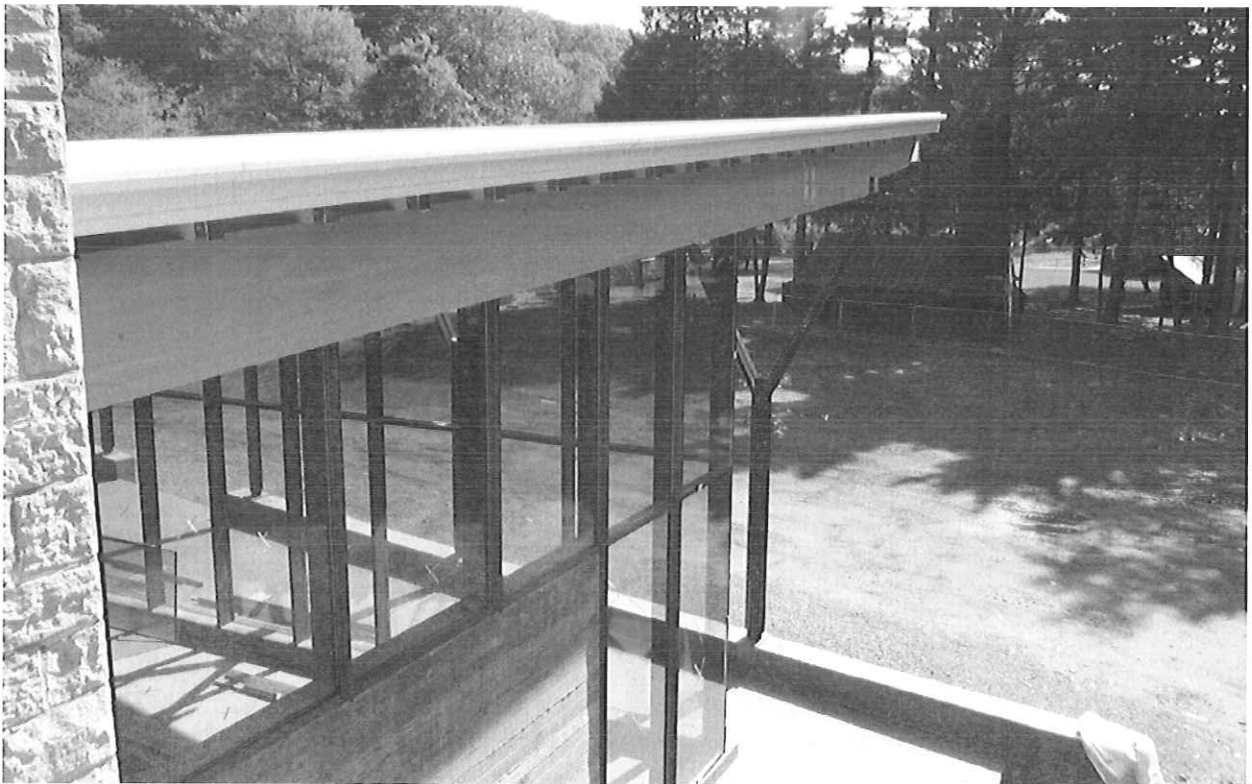
The Pennsylvania Department of General Services in conjunction with the Pennsylvania Historical and Museum Commission requested an internal reorganization of the 1964 Museum Building including new exhibits, collections, administration with building envelope and MEP upgrades. At the recommendation of PWWG the Entrance/ Gift shop building was also included in renovation scope in order to provide a more coherent site orientation for visitors.

The Entrance Building is reorganized with a high central lobby space to greet and orient visitors while providing a preview towards the Drake Well. A new arc shaped walk directs visitors to the Museum Building's new outdoor terrace and lobby that provides ample gathering space for school groups and industrial objects. The existing lawn area is reshaped and cut in half with a wooden walkway, recalling walkways from muddy 19th century oil fields. Geothermal wells for the Museum Building mechanical system are also located in this central area. The forms and materials of the new construction draw from the traditional 19th century and 20th century wood and steel rig structures used in the industry.





New entrance building under construction



New entrance building under construction

Pennsylvania Historical & Museum Commission Open End Contract

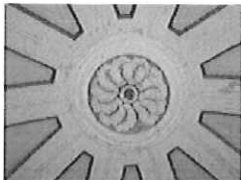
Perfido Weiskopf Wagstaff + Goettel/Noble Preservation Services Joint Venture

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



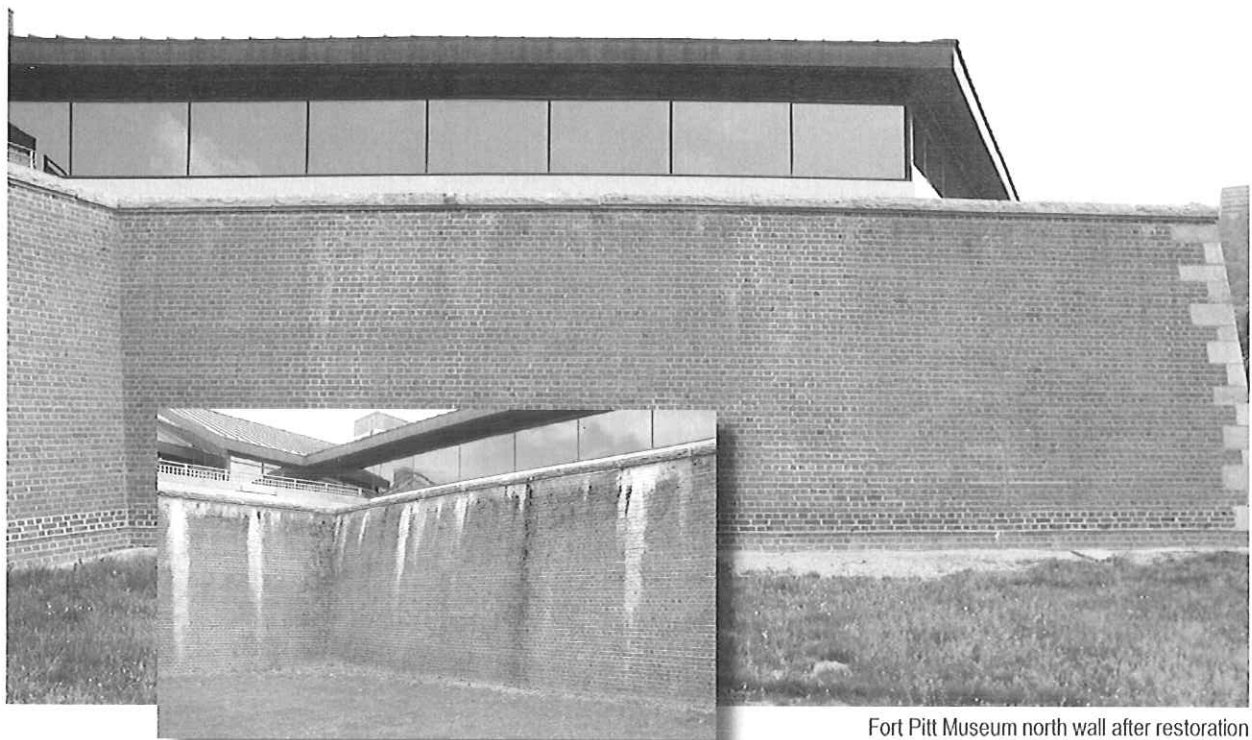
PWWG restored the plaster in the Grotto at Old Economy Village

Perfido Weiskopf Wagstaff + Goettel is in its third five-year contract with the Pennsylvania Historical and Museum Commission, involving a wide variety of projects at the commission's nearly 50 sites in the Commonwealth. PWWG has completed over 120 separate assignments for PHMC over the course of nearly 15 years, many of these in occupied spaces. The current contract is a joint venture with Noble Preservation Services, and includes over 35 consultants and craftsmen skilled in the preservation trades, allowing PHMC to call upon the team for planning, design, construction documents, and expert construction.



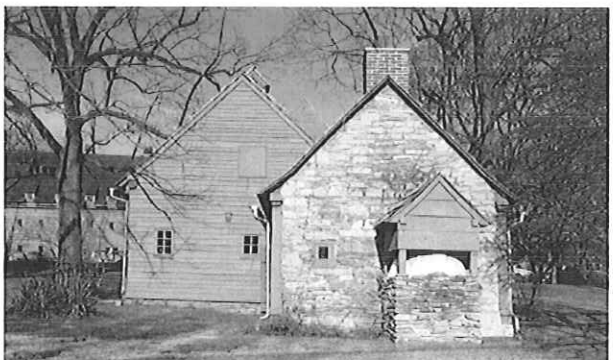
The sites administered by PHMC range from whole villages and farms to unique individual structures, from small historic masonry-and-frame buildings to modern museums, and from sites dominated by landscape to tight urban settings. The scope of work undertaken by the JV is extensive and complex. The team 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 the gamut 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. During the lifespan of the two previous five-year contracts, PWWG administered or worked on over 100 projects.

Another, more in-depth example of the typical variety of work undertaken by the JV is the restoration of the exterior bastion walls at the **Fort Pitt Museum**. This project also involved interior renovations, including the addition of a gift shop. The structure's walls are masonry cavity construction from the 1960s, built as replicas of the original fort walls. Over the years, expansion of the brick caused by temperature fluctuations had weakened and cracked the exterior wythe of wall, and water infiltration produced extensive staining and efflorescence along the wall's exterior face. The task at Fort Pitt was to modify the walls to prevent the majority of water infiltration, but still allow any water trapped behind the face brick to escape. The capstones were removed and reinstalled with a pitch that allows rainwater to roll off, and new lead coated flashing was installed underneath to prevent further water infiltration. Weep vents were installed at the exterior face which promotes air circulation behind the brick. This new installation method also allows the bricks at the face of the wall to expand and contract vertically as the exterior temperature changes with the seasons. New vertical control joints were cut into the wall to provide additional room for the wall to expand and contract horizontally, and through-wall flashing and weep vents were installed at the base of the walls to direct any interior water to the exterior. Lastly, the stains on the walls were removed using gentle cleaners and solvents that restored the walls to their original appearance.



Fort Pitt Museum north wall after restoration

Fort Pitt Museum north wall before restoration





MUSEUM PROJECTS

Frick Art Museum, Oakland, PA

Provided the original design and various upgrades

Soldiers & Sailors Memorial Hall, Museum, Pittsburgh, PA

Old Economy Village, Ambridge, PA

Granary restoration and site electrical renovation. Design included various artist demonstration areas.

Children's Museum, Pittsburgh, PA

Worked as consultant for master plan study for this local facility.

Egyptian Exhibit, Chicago Museum of National History, Chicago, IL

Complete electrical design of 8,000 square foot space. Project included coordination with lighting consultant on low voltage lighting and automatic dimming system.

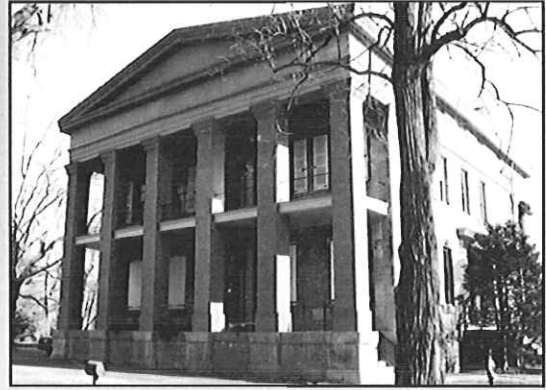
University of Pittsburgh, Nationality Rooms, Pittsburgh, PA

Provided design for six of the Nationality Room spaces.

Point State Park, Fort Pitt Museum, Pittsburgh, PA

This office provided the original design of this facility. We are presently working with Roger Weaver on a new addition to this building

Baker Mansion Museum
Blair County Historical Society
Altoona, PA



The Project:

The Baker Mansion Museum is an imposing Greek revival structure that was built in 1849 by Elias Baker, owner of the Allegheny Furnace. This historic structure was the centerpiece of a 5,000-Acre estate that encompassed furnaces, forge, iron ore mines, quarries, farms and timberlands. The Blair County Historical Society has operated the museum since 1920. CJL Engineering designed the Mechanical and Electrical upgrades implemented during the recent renovation of this historic structure.

CJL Engineering Design Solutions:

- New Electrical Service and distribution equipment
- New receptacles and wiring
- New exterior building lighting for front and rear façades
- New humidifiers for the existing system
- New toilet rooms in the basement and at the Carriage House
- New systems for fire detection / intrusion detection, telephone, door entry, sound and intercom



Erie History Center Museum Retrofit Erie, PA



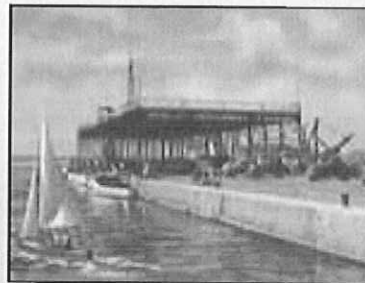
The Project:

The Erie History Center is located in a historic brick building, dating from 1839, in the City's Downtown Historic District. The museum comprises the Erie County Historical Society Library & Archives, the Erie History Museum, and the 1939 Cashier's House. CJL Engineering designed the new Mechanical and Electrical systems specified for implementation of this restoration project.

The building contains approximately 28,000 sq. ft. of interior space, including a public reception hall; exhibit galleries, research, library and archival area, plus a 100-seat auditorium. Staff offices, a collection care center and 6,000 sq. ft. of storage for the collections are also part of the museum's overall design.

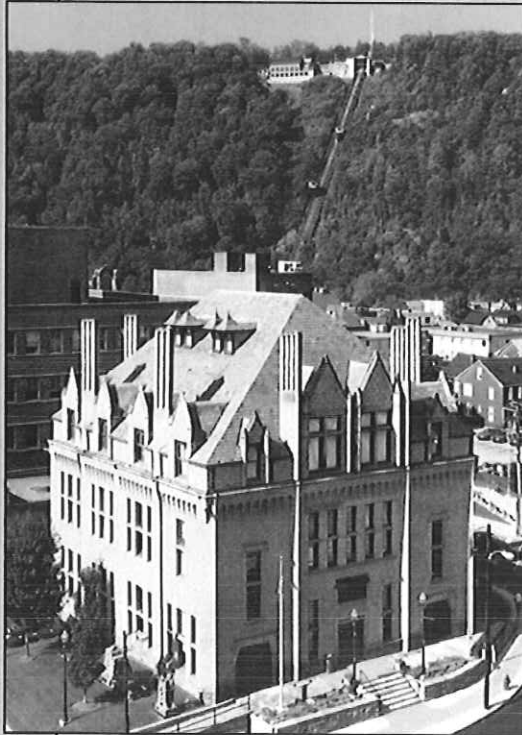
CJL Engineering Design Solutions:

- Install museum-quality environmental controls for temperature / humidity / electrostatic filtration
- Provide all new mechanical and security systems in the renovation design.
- Modifications to provide ADA compliance throughout the museum.



Building Assessment and System Recommendations - Johnstown Flood Museum

Johnstown, PA



The Project:

The historic Johnstown Flood Museum began its life in 1892 when it opened as one of the first Carnegie Libraries built by Scottish-American businessman and philanthropist, Andrew Carnegie. It replaced the city's original library that was destroyed in the 1889 Johnstown Flood. Designed by Philadelphia architect, Addison Hutton in 1890, the French Gothic structure anchors the high-visibility corner of Washington and Walnut Streets in downtown Johnstown. The Cambria Library operated until 1972 when it relocated to a new, much larger facility, two blocks away.

The structure was then reprogrammed and modified to serve the needs of the Johnstown Flood Museum. It has been in continual operation as a museum since 1973. In 2009 CJL Engineering was hired to conduct a comprehensive Building Assessment of the 15,000 sq. ft. facility. Fund raising will occur to achieve project goals.

CJL Engineering Findings Included:

- All HVAC Systems were evaluated
- Met with Facility Director to understand system issues and to discuss project goals
- Recommended HVAC System upgrades and provide associated cost estimates
- Reviewed Lighting Systems and recommended new high-efficiency lighting

HVAC Advisory Services

Soldiers and Sailors Memorial Hall and Museum

Pittsburgh, PA



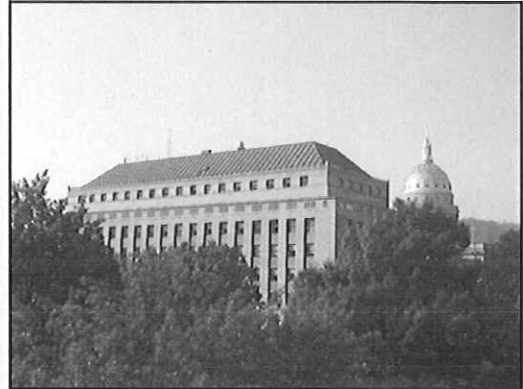
The Project:

CJL Engineering was hired as a technical consultant to assist the Board of Directors of the Soldiers and Sailors Memorial Hall and Museum in its review of two independent design-build air-conditioning proposals for this historic Pittsburgh museum. Significant discrepancies existed between the two proposals; therefore, the solicitation of professional advisory services was needed to make an informed decision.

CJL Engineering Design Solutions:

- Provide detailed review of each design-build proposal.
- Assess each proposal to insure an equitable comparison between systems.
- Act as a technical liaison between the contractors and the Owner during the bid review sessions.
- Provide evaluation of, and recommendations on, the proposed HVAC system.
- Recommend the awarding of the winning construction contract.
- Ongoing review of system design documents.

State Office Building #3 (LEED Certified)
West Virginia Capitol Complex
Charleston, WV



The Project:

The West Virginia State Office Building #3 is a 235,000 sq. ft. 10-story limestone-faced structure that is part of the Capitol Complex in Charleston, WV. Built in the early 1950's the structure houses a number of different state offices. The building required a comprehensive retrofit and upgrade of all Mechanical, Electrical and Plumbing Systems. Following its architectural and engineering retrofit, the building achieved LEED® Certification.

CJL Engineering Design Solutions:

- All existing MEP equipment will be replaced with new systems and the building will be brought up to meet current code requirements
- Heating and cooling systems will be connected to the existing campus wide steam and chilled water systems
- New electrical service and equipment will be provided to serve the building including a new emergency generator
- All new plumbing systems, including new fixtures, will be installed
- Fire protection systems will be installed for a fully sprinklered building with a new fire pump located in the basement
- The building is LEED® Certified

References for Similar Projects

Perfido Weiskopf Wagstaff



MEP upgrades and a complete gut and renovation were part of PWWG's & CJL's work at Oglebay Hall, West Virginia University.

Please contact these references regarding the quality of PWWG's and CJL's services, cooperation with staff, and technical and design expertise:

PWWG

Oglebay Hall & Ming Hsieh Hall

West Virginia University
John Thompson, VP/CFO
West Virginia University
Morgantown, WV 26506-6572
304-293-3625
john.thompson@mail.wvu.edu

West Virginia St. Capitol Complex Building #3 Renovation

West Virginia University
David Oliverio, Director
Department of Administration
General Services Division
1900 Kanawha Boulevard, East
Building 1, Room MB-60
Charleston, WV 25305
304-558-2317
David.M.Oliverio@wv.gov

Drake Well Museum Renovation & Addition

PA Historical and Museums Commission
Barry Loveland, Chief, Division of Architecture & Conservation
400 North Street, Room N118
Harrisburg, PA 17120-0053
717-787-5407
bloveland@state.pa.us

PA Historical & Museums Commission Open End Contract

PA Historical and Museums Commission
Barry Loveland, Chief, Division of Architecture & Conservation
400 North Street, Room N118
Harrisburg, PA 17120-0053
717-787-5407
bloveland@state.pa.us

1923 Building Renovation

Little Sisters of the Poor
Mother Mary Vincent
1028 Benton Avenue
Pittsburgh, PA 15212
412-307-1117
mspittsburgh@littlesistersofthepoor.org

CJL Engineering

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David Freese
Project Manager, WVU Facilities Mgt.
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304-293-2876
David.Freese@mail.wvu.edu

Eugene Ciavarra
V.P. Operations - Theaters & District Amenities
PITTSBURGH CULTURAL TRUST
Pittsburgh, PA 15222
412-471-6070
ciavarra@pgcharts.org

RFQ No. DCH12101STATE OF WEST VIRGINIA
Purchasing Division**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

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

WITNESS THE FOLLOWING SIGNATUREVendor's Name: Perfido Weiskopf Wagstaff + GoettelAuthorized Signature: _____ Date: 5.1.2012State of PennsylvaniaCounty of Allegheny, to-wit:Taken, subscribed, and sworn to before me this 1st day of May, 2012.

My Commission expires _____, 20____.

AFFIX SEAL HERE

NOTARY PUBLIC _____